PUBLIC DRAFT
ENVIRONMENTAL IMPACT REPORT

Mount Etna Community Plan Amendment and Rezone Project

SCH No. 2018091016

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LIST OF ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
AC	Alternating current
ADA	American with Disabilities Act
ADT	Average Daily Traffic
ALUCP	Airport Land Use Compatibility Plan
APCD	Air Pollution Control District
ATCM	Air Toxic Control Measure
AQMD	Air Quality Management Districts
AQMP	Air Quality Management Plan
ARB	Air Resources Board
BACT	Best Available Control Technology
BAU	Business as Usual
BMPs	Best Management Practices
BOS	San Diego County Board of Supervisors
C&D	construction and demolition
CA	California
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CAFE	Corporate Average Fuel Economy
CAP	Climate Action Plan
CARB	California Air Resources Board
CAAQS	California Ambient Air Quality Standards
CalARP	California Accidental Release Program
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards
CAL FIRE	California Department of Forestry and Fire
CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
CBC	California Building Code
CCAA	California Clean Air Act
CCR	California Code of Regulations
CEC	California Energy Commission
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CGS	California Geological Survey
CH_4	Methane
CHHSLs	California Human Health Screening Levels

CLTL	Continuous Left-Turn Lane
CMCP	Clairemont Mesa Community Plan
CNEL	Community Noise Equivalent Level
CNG	Compressed Natural Gas
CO	Carbon Monoxide
CO_2E	Carbon dioxide equivalents
COS	Conservation and Open Space (element)
CPA	Community Plan Amendment
CPAR	Community Plan Amendment and Rezone
CPIOZ	Community Plan Implementation Overlay Zone
CPIOZ-A	Community Plan Implementation Overlay Zone Type A
CPIOZ-B	Community Plan Implementation Overlay Zone Type B
CPTED	Crime Prevention Through Environmental Design
CRHR	California Register of Historical Resources
CUPA	Certified Unified Program Agency
CUWMPA	California Waste Management Planning Act
dB	decibel(s)
dBA	A-weighted decibel(s)
DDA	Disposition and Development Agreement
DEH	San Diego County Department of Environmental Health
DHS	Department of Health Services
DMG	Division of Mines and Geology
DTSC	Department of Toxic Substances Control
ECTs	Emission Control Technologies
EIR	Environmental Impact Report
ELF	Extremely low frequency
EMF	Electric and magnetic fields
EMFAC	EMission FACtor Model
EO	Executive Order
Energy Code	California Energy Efficiency Standards for Residential and Nonresidential Buildings
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FAR	Floor-area ratio
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FIA	Federal Insurance Administration
General Plan	County of San Diego General Plan
GHG	greenhouse gas

GPA	General Plan Amendment
GWh	Gigawatt hours
GWP	Global Warming Potential
H&SC	Health and Safety Code
HAPs	Hazardous Air Pollutants
HCP	Habitat Conservation Plan
HFCs	Hydrofluorocarbons
HIRT	Hazardous Incident Response Team
HMBP	Hazardous Materials Business Plan
Hp	Horsepower
HRB	Historical Resources Board
HSWA	Hazardous and Solid Waste Amendments
HUD	U.S. Department of Housing and Urban Development
HVAC	Heating, ventilation, and air conditioning
HZ	Hertz
I-5	Interstate 5
I-805	Interstate 805
In/sec	Inches per second
ITS	intelligent transportation systems
IWMA	Integrated Waste Management Act
kV	Kilovolt
LCFS	Low Carbon Fuel Standards
LEED	Leadership in Energy and Environmental Design
L_{EQ}	equivalent sound level
LCCREF	Leadership Conference on Civil Rights Education Fund
LDC	Land Development Code
LID	Low Impact Development
LOS	level of service
LUST	Leaking Underground Storage Tank
MACTs	Maximum Achievable Control Technologies
Mgd	Million gallons per day
MJHMP	Multi-Jurisdictional Hazard Mitigation Plan
MMT	million metric tons
MPO	Metropolitan Planning Organization
MRZs	Mineral Resource Zones
MSAT	Mobile Source Air Toxics
MSCP	Multiple Species Conservation Program
MT	Metric Tons

MTS	Metropolitan Transit System
MWD	Metropolitan Water District
MUP	Major Use Permit
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NCWRP	North City Water Reclamation Plant
NEPA	National Environmental Policy Act
NESHAPs	National Emissions Standards for Hazardous Air Pollutants
NFIP	National Flood Insurance Program
NOP	Notice of Preparation
NOX	Oxides of nitrogen
NO_2	Nitrogen Dioxide
NPL	National Priority List
NRHP	National Register of Historic Places
NSLU	Noise Sensitive Land Use
NSR	New Source Review
O_3	Ozone
OPR	Office of Planning and Research
Pb	Lead
PEIR	Program Environmental Impact Report
PFCs	Perfluorocarbons
$PM_{2.5}$	Particulate matter smaller than 2.5 microns in diameter
PM_{10}	Particulate matter smaller than 10 microns in diameter
PPV	Peak particle velocity
PUD	Public Utilities Department
RAQS	Regional Air Quality Strategy
RCP	Regional Comprehensive Plan
RCRA	The Resource Conservation and Recovery Act
REL	Reference exposure level
RHNA	Regional Housing Needs Assessment
RMP	Resource Management Plan/Risk Management Plan
RPO	Resource Protection Ordinance
RPS	Resource Protection Study/ California renewable portfolio standard
RTP/SCS	Regional Transportation Plan/Sustainable Communities
RWQCB	Regional Water Quality Control Board
SANDAG	San Diego Association of Governments
SAM	Site Assessment and Mitigation (program)

SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill
SCS	Sustainable Communities Strategy
SDAB	San Diego Air Basin
SDAPCD	San Diego Air Pollution Control District
SDCWA	San Diego County Water Authority
SDFD	San Diego Fire-Rescue Department
SDG&E	San Diego Gas & Electric
SDMC	San Diego Municipal Code
SDPD	San Diego Police Department
SDPL	San Diego Public Library
SDUSD	San Diego Unified School District
SF	Square feet
SHMA	Seismic Hazard Mapping Act
SIP	State Implementation Plan
SLAMS	State and Local Air Monitoring Station
SMARA	Surface Mining and Reclamation Act
SO_2	Sulfur Dioxide
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	Toxic Air Contaminants
TCM Plan	Transportation Control Measures Plan
TDM	Transportation Demand Management
TDV	time-dependent value
TIF	Transportation Impact Fee
TIS	Transportation Impact Study
TPA	Transit priority area
TSCMP	Traffic Signal Communications Master Plan
Unified Program	Unified Hazardous Waste and Hazardous Materials Management Regulatory Program
U.S.	United States
USDOT	U.S. Department of Transportation
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
UWMP	Urban Water Management Plan
VAP	Voluntary Assistance Program
V/C	Volume to Capacity Ratio
VdB	Vibrational decibel
VHFHSZ	very high fire hazard severity zone
VMT	Vehicle miles travelled
VOCs	Volatile Organic Compounds

WPO	Watershed Protection Ordinance
WRP	Water Reclamation Plant
WTP	Water Treatment Plant

EXECUTIVE SUMMARY

S.1 Project Synopsis

The proposed project involves a General Plan Amendment (GPA), a Community Plan Amendment (CPA) and the rezone of a 4.09-acre project site and a Disposition & Development Agreement (DDA) and Ground Lease to allow for future residential development on surplus County-owned land to be implemented using future permits issued by the City.

The County's primary objectives for the proposed project are:

1. Establish the ability for residential developers to construct affordable homes on surplus County property, consistent with San Diego regional housing policies.
2. Deliver a development-ready site, including demolition and removal of existing onsite structures and related facilities, and provision of stubbed-out utilities.
3. Encourage an increase in the supply and variety of housing types – affordable for people of all ages and income levels – in an area with existing or planned frequent transit service (i.e., transit priority area) and with access to a variety of public and commercial services.
4. Ensure high-quality development occurs on the site through the development of architectural and landscape supplemental development regulations.

A GPA is proposed to change the project site's underlying land use designation from Commercial Employment, Retail & Services to Residential. The project site is located within the Community Core Community Plan Implementation Overlay Zone (CPIOZ) Area of the larger Clairemont Mesa Community Planning Area. The site is currently designated for Commercial-Community Center and is zoned as Commercial Office (CO-1-2). Under the proposed project, the site's planned land use in the Community Plan would be changed from Commercial-Community Center to Residential-High (45–73 dwelling units per acre [du/ac]). The CPA would allow for a density of up to 448 residential units onsite; however, the DDA would cap the site capacity at a maximum of 404 dwelling units onsite. In addition to changing the site's designated land use and establishing a residential density cap for future development, the proposed CPIOZ Type A (CPIOZ-A) would also set the regulatory framework to guide future infill residential development of the project site (see Appendix B to this EIR).

For consistency with the CPA, the project site would be rezoned from Commercial Office (CO-1-2) to Residential – Multiple Units (medium density) (RM-3-9) (refer to Figure 1-3 and Figure 1-4). The CPIOZ-A supplemental

development regulations would be consistent with the general intent of the RM-3-9 zone as modified by the regulations contained in Appendix B.

To implement the future site redevelopment, the County would enter into a DDA with an affordable housing developer who would be responsible for constructing and operating the residential community. In addition to containing the legal terms and conditions of the County and developer's agreement, the DDA would set the scope of the development, including the capacity of the site at 404 affordable dwelling units, and require the developer to secure any necessary approvals from the City of San Diego or any other governmental agency affected by the construction and development. In addition to the DDA, the County would maintain ownership of the project site and issue a 99-year ground lease to the residential developer or their successors in interest.

The County proposes to deliver a development-ready site to a residential developer for the future development of an affordable housing community. To facilitate the future development of the site, all existing onsite structures would be demolished and removed by the County (or a contractor hired by the County through an approved Demolition Contract). Any required soil remediation would be completed following demolition activities and before grading is complete.

S.1.1 Project Location and Setting

The 4.09-acre project site is located in the Clairemont Mesa community, located at 5255 Mount Etna Drive. The project site contains buildings from the former San Diego County Regional Crime Lab (Crime Lab) facility and associated parking and landscaping. Existing onsite buildings include a one-story 66,000 square foot facility and a two-story 36,000 square foot building. The Crime Lab operations relocated from the project site to the County Operations Center complex in Kearny Mesa in 2018 and the property is currently vacant with the exception of some minimal onsite storage.

The site is surrounded by residential, office, and commercial land uses. Immediately to the west of the site are residential neighborhoods and an SDG&E easement. Approximately half a mile south of the project site is High Tech High Mesa, which is a public charter school. The project site is located near the intersection of two major arterial roads, Genesee Avenue and Mount Etna Drive. The Montgomery Field Airport is located approximately 2 miles to the east of the project site. The surrounding geographical features, according to the USGS, include Soledad Mountain 4.5 miles to the west, San Clemente Canyon 2 miles to the north, and Murphy Canyon 3.7 miles to the east.

Areas surrounding the project site, are mostly developed with residential, commercial, and office uses. The surrounding commercial development adjacent to and south of the project site includes the Balboa Towers, which are two medical

buildings that are seven and ten stories in height. In addition, one-, two-, and three-story commercial buildings are located north and east of the project site.

S.2 Summary of Impacts

The analysis contained in the EIR uses the words “significant” and “less than significant” in the discussion of impacts. These terms specifically define the degree of impacts in relation to thresholds used to determine significance of impact identified in each environmental impact section of this EIR. Significant impacts are those adverse environmental impacts that meet or exceed the significance thresholds. As required by CEQA, mitigation measures have been included in this EIR to avoid or substantially reduce the level of significant impacts.

Chapter 2 of the EIR provides discussions of those issue areas for which project implementation would result in either (1) significant impacts that cannot be avoided and/or (2) significant impacts that can be avoided, reduced, or minimized through mitigation measures that would be implemented by the proposed project. The sections with mitigation include Sections 2.1, Air Quality; 2.2, Hazards and Hazardous Materials; 2.3, Noise and Vibration; and 2.4, Transportation and Traffic.

Transportation and Traffic would result in significant and unavoidable impacts. Air Quality, Hazards and Hazardous Materials, Noise and Vibration, and Transportation and Traffic include mitigation that would reduce project impacts to less than significant but not eliminate all of the project’s impacts.

Chapter 3 of the EIR discusses effects that were identified as not to be significant. These sections include Sections 3.1, Aesthetics; 3.2, Energy; 3.3, Greenhouse Gas Emissions; 3.4, Land Use and Planning; 3.5, Population and Housing; 3.6, Public Services; 3.7, Recreation; and 3.8, Utilities and Service Systems.

Table S-1 summarizes the results of the environmental analysis completed for the project. Table S-1 also includes mitigation measures proposed to reduce or avoid the environmental effects, with a conclusion as to whether the impact has been mitigated to below a level of significance.

Table S-1
Summary of Impacts and Mitigation Measures for the Proposed Project

Environmental Impact	Mitigation Measures	Significance Determination after Mitigation
Air Quality		
Impact AIR-1: Health risk for residential receptors would exceed the SCAQMD significance threshold of 10-in-one million for residential receptors associated with both future building construction and site demolition and preparation for the proposed project.	**AIR-1: Construction Equipment** The project shall require all off-road diesel equipment greater than 50 horsepower (hp) used during construction activities to meet USEPA Tier 4 final off-road emission standards or equivalent**.** Such equipment shall be outfitted with Best Available Control Technology (BACT) devices including a CARB-certified Level 3 Diesel Particulate Filter or equivalent.	Less than Significant
Hazards and Hazardous Materials		
Impact HAZ-1: Due to removal of the UST and potential to encounter contaminated media, including asbestos and lead materials, the proposed project would handle hazardous materials within a quarter-mile of a school.	**HAZ-1: Soil Contamination, Lead, and Asbestos Recommendations** Demolition of the existing building and construction of the future development shall follow the findings and recommendations of the Phase I ESA, including: In future development of the project site, preparation and implementation of a soil management plan shall be used during construction activities near areas of known contamination. Where contamination is known or suspected, and where grading or other soil disturbance activities could encounter contaminated media, undocumented USTs, or other unknown contamination or hazards, implementation of a soil management plan provides protocols to address hazardous conditions, if encountered, in accordance with local, state, and federal regulations. Soil sampling shall be performed at the time of the UST removal to evaluate whether an unauthorized release has occurred. A worker health and safety plan shall be prepared and implemented. Asbestos-containing materials and lead-based paint shall be evaluated prior to razing of the site building.	Less than Significant
Impact HAZ-2: Due to the potential for lane closures during construction of the future development, the proposed project could temporarily interfere with emergency access.	**HAZ-2: Traffic Control Plan** Prior to the start of construction of the future development, the construction contractor shall prepare a Traffic Control Plan satisfactory to the City Engineer. The Traffic Control Plan shall show all signage, striping, delineated detours, flagging operations, and any other devices that will be used during construction to guide motorists, pedestrians, and bicyclists through the construction area and allow for adequate access and circulation to the satisfaction of the City Engineer. The Traffic Control Plan shall be prepared in accordance with the City's traffic control guidelines and shall be prepared to ensure that emergency access will be continuously provided.	Less than Significant

Environmental Impact	Mitigation Measures	Significance Determination after Mitigation
Impact HAZ-3: The project site is listed on several database searches pursuant to Government Code Section 65962.5 and includes areas of known previous contamination. Grading and other soil disturbance activities could encounter contaminated media or other unknown contamination or hazards.	Refer to HAZ-1 and HAZ-2 above.	Less than Significant
Noise and Vibration		
Impact NOI-1: A temporary increase in ambient noise levels above existing (ambient) conditions at off-site sensitive receivers during construction of the future residential housing project would occur (during both construction of the future development and during site demolition and preparation activities), and impacts would be considered significant.	**NOI-1: Construction Noise** The following construction noise abatement techniques shall be implemented by the construction contractor to reduce construction-related noise to less than a 10 dBA increase in existing ambient noise levels at nearby noise-sensitive receivers: Temporary noise barriers shall be placed to block the line-of-sight between construction equipment operation and the residential land uses in proximity to the proposed project's property line to the north and west. One of the following two options shall be implemented by the construction contractor: a. A temporary noise barrier shall be placed along the entire western property line of the project site and approximately 50 feet to the north from the northwestern corner at a height of 14 feet with noise blankets capable of achieving sound level reductions of at least 8 dBA to block the line-of-sight between construction equipment operations and the offsite noise-sensitive receivers to the south and southwest; or b. A temporary 50-by-50-foot "L-shaped" noise barrier shall be constructed for each small construction area at a height of 14 feet with noise blankets capable of achieving sound level reductions of at least 8 dBA to block the line-of-sight between construction equipment operations and the offsite noise-sensitive receivers.	Less than Significant

Environmental Impact	Mitigation Measures	Significance Determination after Mitigation
Traffic and Transportation		
Impact TIA-1: Existing plus Project The proposed project would result in significant direct impacts at the following two study intersections and one study roadway segment: Intersections: 9. Mount Everest Boulevard & Balboa Avenue (Access Options 1 and 3) 10. Genesee Avenue & Balboa Avenue (Access Option 3) Roadway Segments: 11. Balboa Avenue, between Cannington Drive and Charger Boulevard (all access options)	**TRA-1: Mount Everest Boulevard & Balboa Avenue Intersection Modifications (Access Options 1 and 3)** Prior to issuance of the first building permit, Owner/Permittee shall assure by permit and bond the restriping of the northbound and southbound approaches on Mount Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing, satisfactory to the City Engineer. Improvements shall be completed and operational prior to first occupancy. **TRA-2: Genesee Avenue & Balboa Avenue Intersection Modifications (Access Option 3)** Prior to issuance of the first building permit, Owner/Permittee shall assure by permit and bond the optimization of signal timing or installation of traffic systems management (TSM) strategies (e.g., adaptive signal technology) to maximize efficiency of the existing roadway through improved signal communications and operations satisfactory to the City Engineer. Improvements shall be completed and operational prior to first occupancy. There are no feasible improvements that would expand the capacity of the impacted roadway segment and the County cannot assure that the City would implement adaptive signal controls along the Balboa Avenue corridor.	Significant and Unavoidable
Impact TIA-2: Near-Term plus Project The proposed project would result in significant direct impacts at the following three study intersections and two study roadway segments: Intersections: 9. Mount Everest Boulevard & Balboa Avenue (all access options) 10. Genesee Avenue & Balboa Avenue (Access Option 3) 14. Charger Boulevard & Balboa Avenue (all access options) Roadway Segments: 17. Balboa Avenue, between Cannington Drive and Charger Boulevard (all access options)	Refer to TRA-1 and TRA-2 above. **TRA-3: Charger Boulevard & Balboa Avenue Intersection Modifications (all access options)** Prior to issuance of the first building permit, Owner/Permittee shall assure by permit and bond the restriping of the northbound shared through-left turn lane into an exclusive through lane and convert the northbound and southbound signal from split phasing to protective phasing satisfactory to the City Engineer. Improvements shall be completed and operational prior to first occupancy. There are no feasible improvements that would expand the capacity of the impacted roadway segment and the County cannot assure that the City would implement adaptive signal controls along the Balboa Avenue corridor.	Significant and Unavoidable

Environmental Impact	Mitigation Measures	Significance Determination after Mitigation
18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (all access options)		
Impact TIA-3: Cumulative plus Project The proposed project would result in significant impacts at the following five study intersections and two study roadway segments: Intersections: 1. Genesee Avenue & Clairemont Mesa Boulevard (all access options) 8. Clairemont Drive & Balboa Avenue (all access options) 9. Mount Everest Boulevard & Balboa Avenue (all access options) 10. Genesee Avenue & Balboa Avenue (all access options) 14. Charger Boulevard & Balboa Avenue (all access options) Roadway Segments: 11. Mount Etna Drive, between Mount Everest Boulevard and Genesee Avenue (Access Option 1) 18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (all access options)	Refer to TRA-1 through TRA-3 above **TRA-4: Genesee Avenue & Clairemont Mesa Boulevard Adaptive Signal Control System (All Access Options)** Prior to issuance of the first building permit, Owner/Permittee shall pay its fair share toward optimizing signal timing or installing traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway through improved signal communications and operations, satisfactory to the City Engineer. **TRA-5: Clairemont Drive & Balboa Avenue Adaptive Signal Control System (All Access Options)** Prior to issuance of the first building permit, Owner/Permittee shall pay its fair share toward optimizing signal timing or installing traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway through improved signal communications and operations, satisfactory to the City Engineer. Unless and until a specific mitigation program is created by the City to accommodate proportionate contributions toward the implementation of adaptive signal controls or other improvements at the impacted intersection locations, the County cannot assume that payment of its fair share of the mitigation improvements would reduce or avoid the project's impact. There are no feasible improvements that would expand the capacity of the impacted roadway segments and the County cannot assure that the City would implement adaptive signal controls along the Balboa Avenue corridor.	Significant and Unavoidable
Aesthetics		
Implementation of the proposed project would not result in significant aesthetic impacts.		
Energy		
Implementation of the proposed project would not result in significant energy impacts.		
Greenhouse Gas Emissions		
Implementation of the proposed project would not result in significant greenhouse gas emissions impacts.		

Environmental Impact	Mitigation Measures	Significance Determination after Mitigation
Land Use and Planning		
Implementation of the proposed project would not result in significant land use and planning impacts.		
Population and Housing		
Implementation of the proposed project would not result in significant population and housing impacts.		
Public Services		
Implementation of the proposed project would not result in significant public services impacts.		
Recreation		
Implementation of the proposed project would not result in significant recreation impacts.		
Utilities		
Implementation of the proposed project would not result in significant utilities impacts.		

S.3 Areas of Controversy

The original Notice of Preparation (NOP) was distributed on September 10, 2018 for a 30-day public review and comment period, which was extended to October 19, 2018 to allow for a second scoping meeting closer to the project site and more accessible to community members. Public comments were received on the NOP for this EIR and reflect concern or controversy over several environmental issues.

Additionally, two scoping meetings regarding the proposed project were held. The first public scoping meeting was held on Tuesday, September 25, 2018 from 6:00 p.m. to 8:00 p.m. in the Commons at the County Operations Center located at 5520 Overland Avenue, San Diego, CA 92123. A second public meeting was held on Monday, October 15, 2018 from 6:00 p.m. to 8:00 p.m. in the Auditorium at the Marston Middle School located at 3799 Clairemont Drive, San Diego, CA 92117. A number of comment forms were collected from that meeting, as well as subsequent comments via e-mail or mail. A total of 293 communications were received on the NOP from state agencies, groups and organizations, and individuals. State and local agencies include California Department of Transportation (Caltrans), San Diego Association of Governments (SANDAG), and Clairemont Town Council. Groups and organizations include the Clairemont Coalition on Homelessness and Clairemont Cares.

Issues raised at the scoping meetings and from the NOP comment letters include concerns regarding the following issue areas: aesthetics and community character; air quality, noise and traffic impacts to surrounding communities; population and housing with regard to increased density of the proposed project; availability of public services and utilities to support additional residential density; lack of recreational opportunities within the local community; and potential increase in crime and hazards to future residents due to lack of adequate evacuation routes.

Issues raised within these letters are evaluated in this EIR in Chapters 2.0 through 4.0.

S.4 Issues to be Resolved by the Decision-Making Body

An EIR is an informational document intended to inform the public agency decision makers and the public of the significant effects of a project, identify possible ways to minimize the significant effects, and describe reasonable alternatives to the proposed project. The lead agency (in this case the County) must respond to each significant effect identified in this EIR by making “Findings” for each significant effect. The issues to be resolved include whether or how to mitigate the associated significant effects, including whether to implement a project alternative, the determination of which is to be made by the decision makers. Preparation of a Statement of Overriding Considerations (explaining the

overriding value of the Project despite adverse effects) would be required for any remaining significant and unmitigated impacts.

Issues to be resolved that are directly related to the proposed project include the choice among alternatives and whether or how to mitigate the significant effects. In addition, the County must determine whether any of the Project alternatives would substantially reduce significant effects while still meeting key Project objectives.

S.5 Analysis of Alternatives

S.5.1 Project Alternatives

CEQA requires an EIR to consider a reasonable range of potentially feasible alternatives that would lessen significant impacts identified with the Proposed Project and to foster informed decision making. Chapter 4.0 of this EIR considers a No Project/No Redevelopment alternative, No Project/Existing Community Plan and Zoning alternative, Reduced Intensity Project alternative.

The No Project/No Redevelopment Alternative would not require a Community Plan Amendment (CPA) and rezone from the City of San Diego and the existing vacated San Diego County Regional Crime Lab (Crime Lab) facility would remain on the project site. None of the proposed building demolition (i.e., 103,500 square feet [SF]) would occur and the project site would not be regraded to prepare a developable pad. Affordable housing would not ultimately be constructed under this alternative, further exacerbating the lack of affordable housing in the San Diego County region. The existing structures would remain unoccupied.

The No Project / Existing Community Plan and Zoning Alternative would not require a CPA and rezone and the existing vacated Crime Lab facility would be demolished and the site sheet graded to prepare for future commercial development. Land uses permitted under the Commercial-Community Center designation include shopping areas with retail, service, civic, and offices uses for the community at large. Specifically, the project site is currently zoned Commercial Office (CO-1-2) which is to provide employment uses with limited, complementary retail uses and residential uses as specified, and is intended to apply in large-scale activity centers or in specialized areas where a full range of commercial activities is not desirable (SDMC Section 131.0504). Under this alternative, the project site would be available for sale to a developer for the construction of a commercial office development. This alternative would allow for the future construction of up to 70,000 SF of commercial office development, specifically as medical office use, with supporting retail space, as permitted by the development regulations for the CO-1-2 zone. Any future redevelopment of the project site would undergo review by City staff for compliance with the CMCP Community Core CPIOZ-B requirements related to architectural/site design,

parking design, landscaping, signage and pedestrian/bicycle circulation. Buildings would be limited to 30 feet in height in accordance with the overlay zone in the CMCP.

The Reduced Intensity Project Alternative would result in the same CPA and zone change as the proposed project and the existing vacated Crime Lab facility would be demolished. Under this alternative, the project site would be entitled for the construction of a 312-unit affordable housing project, which would house approximately 633 people. This alternative was developed to reduce the proposed project's direct traffic impacts on roadway segments or intersections by decreasing the unit count to a point where at least one traffic impact would be reduced to less than significant. Reducing units would reduce both the volume of daily trips generated by the site and the number of peak hour trips occurring during the most impacted periods of the day. Under this alternative the permitted unit count would be reduced from 404 units to 312 units. All other aspects of the project would remain the same as the proposed, except that the required amount of parking would be reduced to reflect the lower number of residents.

S.5.2 Environmentally Superior Alternative

A summary of impacts of the alternatives compared to the proposed project is included in **Table S-2**, pursuant to CEQA Guidelines Section 15126.6(d).

CEQA Guidelines Section 15126.6(a) states that an EIR shall describe a range of reasonable alternatives. As evaluated in Chapter 2.0 of this EIR, the significant impacts of the proposed project would affect air quality (construction air toxic emissions); hazards and hazardous materials (USTs and asbestos/lead materials); noise (construction equipment noise); and transportation and traffic (roadway segment and intersection operations). As it would substantially lessen impacts to each of these issue topics to a less than significant level, the No Project Alternative / No Redevelopment Alternative would be the environmentally superior alternative.

However, CEQA Guidelines Section 15126.6(e)(2) also states that if the environmentally superior alternative is the "no project" alternative, the EIR shall also identify an environmentally superior alternative from among the other alternatives. The Reduced Intensity Project Alternative would be the environmentally superior alternative from the remaining alternatives, as it would reduce vehicle trips and avoid significant and unavoidable traffic impacts associated with the proposed project at one roadway segment location in the study area, and it would meet many of the basic project objectives.

Table S-2
Comparison of Alternatives to the Proposed Project

	Issue Area	Proposed Project Impacts	No Project / No Redevelopment Alternative	No Project/ Existing Community Plan and Zoning Alternative	Reduced Intensity Project Alternative
2.1	Air Quality	SM	LTS	SM(-)	SM
2.2	Hazards and Hazardous Materials	SM	LTS	SM	SM
2.3	Noise and Vibration	SM	LTS	SM	SM
2.4	Transportation and Traffic	SU	LTS	SU(+)	SU(-)

LTS = Less than significant
SM = Significant and mitigated
SU = Significant and unavoidable
(-) Impacts would be less than those of the proposed project
(+) Impacts would be greater than those of the proposed project

CHAPTER 1.0 PROJECT DESCRIPTION, LOCATION, AND ENVIRONMENTAL SETTING

1.1 Project Objectives

This chapter describes the proposed Mount Etna Community Plan Amendment (CPA) and Rezone Project (referred to herein as the "proposed project"). The proposed project is located in the Clairemont Mesa Community Planning Area, in the City of San Diego (City). This chapter also includes a statement of project objectives, a general description of project characteristics and the environmental setting, the precise location and boundaries of the proposed project, and a statement describing the intended uses of this Draft Environmental Impact Report (EIR).

The San Diego County Board of Supervisors authorized the San Diego County Department of General Services to identify surplus County-owned property for the purpose of leasing the property to residential developers through a competitive procurement process The underlying purpose of the proposed project is to provide a site for affordable housing and related support services in close proximity to transit, commercial centers, and existing public services. The County of San Diego Department of General Services has identified the project site as a surplus County property that meets these general criteria.

California Environmental Quality Act (CEQA) Guidelines Section 15124 requires an EIR to include a statement of objectives sought by the proposed project. The following specific objectives for the proposed Mount Etna CPA support the underlying purpose of the project, which is to assist the County in developing a reasonable range of alternatives to evaluate in this Draft EIR and aid in the preparation of findings and overriding considerations, if required, in accordance with CEQA Guidelines Section 15091.

The County's primary objectives for the proposed project are:

1. Establish the ability for residential developers to construct affordable homes on surplus County property, consistent with San Diego regional housing policies.
2. Deliver a development-ready site, including demolition and removal of existing onsite structures and related facilities, and provision of stubbed-out utilities.
3. Encourage an increase in the supply and variety of housing types – affordable for people of all ages and income levels – in an area with existing or planned frequent transit service (i.e., transit priority area) and with access to a variety of public and commercial services.

4. Ensure high-quality development occurs on the site through the development of architectural and landscape supplemental development regulations.

1.2 Project Description

The proposed project involves a General Plan Amendment (GPA), a CPA and the rezone of a 4.09-acre project site to allow for future residential development on surplus County-owned land to be implemented using future permits issued by the City. The following describes the various components of the project that implement the project's objectives described above.

1.2.1 Project Components

The 4.09-acre site's regional location and project vicinity are shown in **Figure 1-1** and **Figure 1-2**. The existing and proposed Clairemont Mesa Community Plan (CMCP) land use designations are shown in **Figure 1-3** and **Figure 1-4**. Existing and proposed zoning are shown in **Figure 1-5** and **Figure 1-6**.

On December 6, 2018, the City's Planning Commission approved Planning Commission Resolution No. 4979-PC, authorizing the initiation of a CPA to the CMCP and a rezone of the project site, subject to conditions contained within City Planning Report No. PC–18-066. The Resolution No. 4979-PC is contained in Appendix C to this EIR.

1.2.1.1 General Plan Amendment

A GPA is proposed to change the project site's underlying land use designation from Commercial Employment, Retail & Services to Residential as depicted on Figure LU-2 of the General Plan to maintain consistency with the CPA described below.

1.2.1.2 Community Plan Amendment

The project site is located within the Community Core Community Plan Implementation Overlay Zone (CPIOZ) Area of the larger Clairemont Mesa Community Planning Area. The site is currently designated for Commercial-Community Center and is zoned as Commercial Office (CO-1-2) (Figures 1-3 and 1-4). Under the proposed project, the site's planned land use in the Community Plan would be changed from Commercial-Community Center to Residential-High (45-73 dwelling units per acre [du/ac]). The CPA would allow for a density of up to 448 residential units onsite; however, the Disposition and Development Agreement (DDA) described below would cap the site capacity at a maximum of 404 dwelling units onsite. Any future development proposal beyond 404 dwelling units would require a CPA and may be subject to additional CEQA review.

In addition to changing the site's designated land use and establishing a residential density cap for future development, the proposed CPIOZ Type A (CPIOZ-A) would also set the regulatory framework to guide future infill residential development of the project site (see Appendix B to this EIR). The intent of the CPIOZ-A supplemental development regulations is to provide primarily for multifamily housing that would complement the surrounding Community Core and existing single-family residential uses in the project area. Additional uses that would activate the ground floor and provide community benefit for residents and the surrounding community would also be required on site but limited to a building area of 1,500 square feet (SF). In addition to the community space, resident support uses would also be integrated into the residential development on the project site.

The proposed CPIOZ-A would be consistent with the general intent of the RM-3-9 zone as modified by the proposed regulations and any incentives or waivers granted pursuant to Article 3: Supplemental Development Regulations, Division 7: Affordable Housing Regulations of the SDMC and any State allowed density bonus incentives. The supplemental development regulations outline specific requirements for: ground floor uses; building height; building setbacks; landscape/streetscape; building articulation; screening/fencing; residential open space; and environmental protection standards (see Appendix B).

The following is a summary of the key elements of the CPIOZ-A supplemental development regulations, while the details are contained in Appendix B to this EIR.

- Provide for multifamily residential uses that complement the surrounding community core and existing single family residential uses.
- Non-residential ground floor public spaces or uses would be required.
- Maximum building height would not exceed 70 feet above grade, including accessory building features such as parapets, elevator towers, and stairwells.
- Building articulation would be implemented to create visual interest, to enhance the pedestrian experience, to assist in diminishing the overall mass of buildings, and to create variation from an exterior perspective.
- Residential open space would be required including private exterior open space and common space.

1.2.1.3 Rezone

For consistency with the CPA, the project site would be rezoned from Commercial Office (CO-1-2) to Residential – Multiple Units (medium density) (RM-3-9) (refer to Figure 1-3 and Figure 1-4). Under the proposed RM-3-9 zone, 297 multi-family units would be the maximum density allowable on the project site without an affordable housing density bonus. As described above, the CPIOZ-A supplemental

development regulations would be consistent with the general intent of the RM-3-9 zone as modified by the regulations contained in Appendix B.

1.2.1.4 Disposition and Development Agreement and Ground Lease

To implement the future site redevelopment, the County would enter into a DDA with an affordable housing developer who would be responsible for constructing and operating the residential community. In addition to containing the legal terms and conditions of the County and developer's agreement, the DDA would set the scope of the development, including the capacity of the site at 404 affordable dwelling units, and require the developer to secure any necessary approvals from the City of San Diego or any other governmental agency affected by the construction and development. In addition to the DDA, the County would maintain ownership of the project site and issue a 99-year ground lease to the residential developer or their successors in interest.

1.2.1.5 Site Demolition and Preparation

Demolition Phase

The County proposes to deliver a development-ready site to a residential developer for the development of an affordable housing community. To facilitate the future development of the site, all existing onsite structures would be demolished and removed by the County (or a contractor hired by the County through an approved Demolition Contract). Any required soil remediation would be completed following demolition activities.

Demolition of the existing onsite structures, parking areas, landscaping, and associated utilities as part of the proposed project would enable the County to deliver a rough graded pad for future development. All existing underground utilities and storage tanks would be removed during the demolition, and utility connections (i.e., potable water, sewer, electrical, and natural gas) would be stubbed out at the project site boundary to facilitate future site development. Demolition activities are expected to take five months to complete from mobilization to final site clearing.

Demolition would require the following administrative approvals from the County: Debris Management Plan, Haul Route Plan, Asbestos Abatement Plan, Lead Hazards Notification, Stormwater Management Plan and a Site Specific Safety Plan. Specifically, San Diego County Ordinance 9840 requires that a Debris Management Plan be prepared to identify how and where 90 percent of the inert construction and demolition debris, and 70 percent of all other construction and demolition debris would be recycled. Demolition debris recycling would occur either onsite or at an approved offsite location. Refer to Section 3.8, Utilities and Service Systems, for additional discussion of these requirements.

Grading Phase

Once the demolition is complete, the materials removed, and any soil remediation is conducted, the project site would be graded to a rough graded pad with a maximum 2 percent slope to ensure that the pad drains correctly. Once grading is completed, erosion control features, including straw waddles would be installed in accordance with applicable stormwater pollution regulations. Site grading is anticipated to require two weeks to complete.

1.2.1.6 Future Building Construction/Operations

The specific design and development of the project site with an affordable housing community is not part of this proposed project but would be developed in the future by an affordable housing developer who would be engaged with the County through the DDA (as described above). The construction and operation of the residential housing community would be subject to future ministerial permit approvals from the City once the GPA, CPA, and rezone are approved. The future development project would be built as a Leadership in Energy and Environmental Design (LEED) Building Design Silver or equivalent.

Although not part of the proposed project, future residential building construction schedule assumptions have been developed so that the environmental impact analysis (i.e., air quality, GHG, noise) of a reasonably foreseeable project could be completed for this EIR. The analysis presented in this EIR assumes that onsite building construction would begin in March 2021 and be completed by October 2022. It also assumed that residential building occupancy would occur by the end of 2022.

When the design is developed for the future residential development, up to three potential vehicular access options could be allowed from the project site, including but not limited to, the following (as show in **Figure 1-7**):

- A primary access point on Mount Etna Drive which would include a drop-off and delivery area adjacent to the main building entrance (Potential Access Point 1 on the figure);
- A second right-in, right-out only access point to Genesee Avenue, as allowable by the City Engineer (Potential Access Point 2 on the figure); and
- A third right-in, right-out only access point via the San Diego Gas & Electric (SDG&E) easement (located west of the project site) to Balboa Avenue, as allowable by SDG&E and the City Engineer (Potential Access Point 3 on the figure).

The transportation implications of all three residential access options are studied in Section 2.4, Transportation and Traffic, of this EIR.

1.2.2 Technical, Economic, Environmental Characteristics

1.2.2.1 Technical and Environmental Characteristics

Technical and environmental commitments are proposed that are both standard construction and operational measures, as well as those associated with the project itself, to minimize the potential adverse effects of implementing the proposed project. The specific design features required of the future residential development are outlined in the CPIOZ supplemental development regulations contained in Appendix B to this EIR. These design features are referenced in the analysis of project impacts contained in Chapters 2.0 and 3.0, as applicable.

1.2.2.2 Economic Characteristics

San Diego County is facing a severe housing affordability crisis, particularly for low-income and very low-income households (SANDAG 2018). The project would facilitate future affordable residential development on a County-owned site, serving lower income households as defined by the California Department of Housing and Community Development.

In describing and evaluating a project in an environmental review document prepared pursuant to CEQA statute Section 21082.4, the lead agency may consider specific economic, legal, social, technological, or other benefits, including region-wide or statewide environmental benefits, of a proposed project and the negative impacts of denying the project. Any benefits or negative impacts considered pursuant to this section shall be based on substantial evidence in light of the whole record. Section 3.5.1.2 of this EIR (Population and Housing) includes a discussion of the negative impacts on the affordable housing supply within San Diego County by not approving the proposed project.

1.3 Project Location

The 4.09-acre project site is located in the Clairemont Mesa community, located at 5255 Mount Etna Drive (Figure 1-2). The site is surrounded by residential, office, and commercial land uses. Immediately to the west of the site is an SDG&E easement, with residential homes located west of the easement. Approximately half a mile south of the project site is High Tech High Mesa, which is a public charter school. The project site is located near the intersection of two major arterial roads, Genesee Avenue and Mount Etna Drive. The Montgomery Field Airport is a public airport located approximately 2 miles to the east of the project site.

1.4 Environmental Setting

1.4.1 Elevation Profile

The topography of the project site can be characterized as flat with no gradient in elevation. The elevation of the project site is 367 feet above mean sea level (AMSL).

1.4.2 Existing Geology and Subsurface Conditions

The entire project site has been previously graded and disturbed during construction of the existing buildings. The project site is underlain by Chesterton-Urban land complex soil type, which is primarily composed of sandy loam and fill materials (USDA 2019). There are no known earthquake faults or unstable slopes onsite. The nearest Alquist-Priolo Fault is the Rose Canyon Fault, which is located approximately 2.3 miles west of the project site.

1.4.3 Existing Onsite and Surrounding Land Uses

The project site contains buildings from the former San Diego County Regional Crime Lab (Crime Lab) facility and associated parking and landscaping. Existing onsite buildings include a one-story 66,000 SF facility and a two-story 36,000 SF building. The Crime Lab operations relocated from the project site to the County Operations Center complex in Kearny Mesa in 2018 and the property is currently vacant with the exception of some minimal onsite storage.

Areas surrounding the project site, are mostly developed with residential, commercial, and office uses. The surrounding commercial development adjacent to and south of the project site includes the Balboa Towers, which are two medical buildings that are seven and ten stories in height. In addition, one-, two-, and three-story commercial buildings are located north and east of the project site. As previously detailed, the 50-foot SDG&E easement is located west of the project site, with single-family residential homes located further west of the easement.

The project site is served by Metropolitan Transit System (MTS) bus routes 27 and 41 with frequent services. The project site is located within a planned (2035) transit priority area (TPA) as identified on the TPA map contained in the SANDAG's San Diego Forward: The Regional Plan (SANDAG 2019). In accordance with Senate Bill (SB) 743, TPA means an area within one-half mile of a major transit stop that is existing or planned.

1.4.4 Existing Electrical Magnetic Fields

The project site is adjacent to a 50-foot wide SDG&E easement (Figure 1-2) with two sets of overhead transmission lines (12 kilovolts [kV], 69 kV, 138 kV, and 230

kV). Extremely low frequency (ELF) electric and magnetic fields (EMF) include alternating current (AC) fields and other electromagnetic, non-ionizing radiation from 1 hertz (Hz) to 300 Hz. Power lines, like electrical wiring and electrical equipment, produce ELF fields at 60 Hz (OSHA 2016). This EIR does not consider EMF in the context of the CEQA analysis of potential environmental impacts because: [1] there is no agreement among scientists that EMF creates a potential health risk, and [2] there are no defined or adopted CEQA standards for defining health risk from EMF. For example, on behalf of the California Public Utilities Commission (CPUC), three scientists who work for the California Department of Health Services (DHS) were asked to review studies by the National Institutes of Environmental Health Sciences Working Group, the International Agency for Research on Cancer, and the British National Radiological Protection Board about possible health problems from electric and magnetic fields from power lines, wiring in buildings, some jobs, and appliances (Neutra et al., 2002). The results of their evaluation noted “important differences between the three DHS reviewers’ conclusions” and made no recommendations about actions to be taken to address potential health risks (*Id*.). However, recognizing that there is a great deal of public interest and concern regarding potential health effects from human exposure to EMF from transmission lines, this document does provide information regarding EMF associated with electric utility facilities and human health and safety. Thus, the EMF information in this EIR is presented for the benefit of the public and decision makers.

1.4.5 History of the Project Site

Prior to being occupied by the Crime Lab, the on-site facilities housed the former Clairemont Hospital that closed in 1988. The County acquired the facility in 1989 and the Crime Lab operated in this facility until it was relocated to the County Operations Center in 2018.

1.5 Intended Uses of the EIR

This EIR is an informational document that will inform public agency decision-makers and the general public of the significant environmental effects of a project, identify possible ways to minimize the significant effects, and describe reasonable alternatives to the project (Section 15121(a)).

The County of San Diego is the project applicant and Lead Agency, and the City is a Responsible Agency, pursuant to the CEQA statute and guideline requirements. Both the County and City will rely upon the certified Final EIR for discretionary actions. This EIR was prepared in accordance with the requirements of the County of San Diego EIR Format and General Content Requirements (County of San Diego 2016), CEQA (California Public Resources Code, Section 21000 et seq.), and the CEQA Guidelines (14 California Code of Regulations (CCR) Section 15000 et seq.). Since the project is located within the

City, the City's CEQA significance determination thresholds are utilized in the impact assessment portion of the EIR contained in Chapters 2.0 and 3.0 (City of San Diego 2016).

An EIR was determined by the County to be the appropriate CEQA document for the proposed project as changes to the General Plan, Community Plan and zoning have been specified at a level of detail that allows for a more specific project-focused review and it would apply to a specific future development on the project site. In response to this environmental determination, a Notice of Preparation (NOP) was released for public review on September 10, 2018 for a 30-day public review period, which closed on October 10, 2018. The NOP public review period was then extended 10 days and closed on October 19, 2018. Two scoping meetings were held (September 25, 2018, and October 15, 2018). Scoping meeting comments and associated comment letters received during the NOP public review period are included as Appendix A to this EIR. The Draft EIR has been assigned Office of Planning and Research, State Clearinghouse number 2018091016. This EIR addresses CEQA-related comments received on the NOP.

The CEQA process provides several opportunities for public input at three points during environmental evaluation: (1) during scoping of an EIR, (2) during public review of the completed Draft EIR, and (3) during public hearings held on the project by decision-making bodies. As part of the preparation of the Draft EIR, the first of these outreach efforts was undertaken as noted above and was completed in fall 2018. The second outreach effort occurred when the Draft EIR was released for public review in September 2019.

This EIR will be made available for review by members of the public and public agencies for 45 days to provide comments "on the sufficiency of the document in identifying and analyzing the possible impacts on the environment and ways in which the significant effects of the project might be avoided or mitigated," as stated in CEQA Guidelines Section 15204. The County will consider written comments received on the EIR in making its decision whether to certify the EIR as complete and in compliance with CEQA, and also whether to approve or deny the project. Environmental considerations and economic and social factors may be weighed to determine the most appropriate course of action. If the EIR is certified and the project approved, agencies with permitting authority over all or portions of the project may use the EIR as the basis for their evaluation of environmental effects of the project and approval or denial of applicable permits.

As a Responsible Agency under CEQA, the City will use the information included in this EIR to consider potential impacts on the physical environment associated with the proposed project. With a recommendation from the City Planning Commission, City Council will consider the certified EIR as part of the GPA, CPA and rezone review and approval process, in accordance with CEQA Guidelines

Section 15096. If the GPA, CPA and rezone are approved by the City Council, the County Board of Supervisors will conduct a public hearing to consider/approve the DDA and Ground Lease for the future residential development.

1.5.1 Matrix of Project Approvals/Permits

Required project approvals are summarized in **Table 1-1**. The County and City are working in conjunction to coordinate the CEQA and project review and approval process. As the designated Lead Agency, the County is responsible for carrying out a portion of the project and preparing this EIR in consultation with the City, as a Responsible Agency. As described above, the decision to approve the proposed project is within the purview of both the County Board of Supervisors and the City Council, as summarized below.

Table 1-1
Matrix of Project Approvals/Permits

Permit Type/Action	Approving Agency
Demolition Contract Approval and EIR Certification	County Board of Supervisors
Certified EIR Consideration (Section 15096 of State CEQA Guidelines)	City Planning Commission and City Council
General Plan Amendment, Community Plan Amendment and Rezone Approval	City Planning Commission and City Council
Ground Lease Approval and DDA Approval	County of San Diego Board of Supervisors
Local Coastal Plan Amendment Approval	California Coastal Commission

Any future project specific development review/approval on the site will be conducted by the City. If the future proposed development of the site is consistent with requirements of the amended CMCP, the City review of the future development project will be ministerial in accordance with SDMC Section 112.0501.

1.5.2 Related Environmental Review & Consultation Requirements

The proposed project is located within the City and within the Clairemont Mesa Community Planning Area; therefore, the City is a Responsible Agency under CEQA and will take action on the GPA, CPA and rezone.

Pursuant to California Government Code 65352.3, Native American consultation was initiated on September 28, 2018 and concluded on December 28, 2018. Correspondence related to that consultation process is contained in Appendix J to this EIR.

1.6 Project Inconsistencies with Applicable Regional and General Plans

A number of plans, regulations and ordinances apply to the proposed project and were considered during the preparation of the CPA. In particular, the County General Plan, City General Plan, and CMCP. Other plans and regulations were also reviewed, including the SDMC, Regional Water Quality Control Board's (RWQCB) San Diego Basin Plan, National Pollution Discharge Elimination System (NPDES), San Diego Municipal Storm Water Permit, Regional Air Quality Strategy (RAQS) and the State Implementation Plan (SIP). Additionally, the SANDAG's San Diego Forward: The Regional Plan, Climate Action Plan, and The proposed project's compliance with these plans and ordinances is evaluated throughout the EIR with discussion in Chapters 2.0 and 3.0.

The County is proposing to amend the General Plan, CMCP and rezone the property to allow for residential use of the site and the future development of up to 404 multifamily residential units on the project site, which is currently inconsistent with the residential policies of the CMCP.

1.7 List of Past, Present, and Reasonably Anticipated Future Projects in the Project Area

Cumulative projects in the vicinity of the proposed project were identified through a search of City development applications and ongoing project construction, conducted at the time of the analysis began and the NOP was published in September 2018. These cumulative projects form the setting for the cumulative analysis presented in this EIR. Cumulative projects are summarized in the following **Table 1-2**:

Table 1-2
Cumulative Projects List

Project ID	Project*	Address	Project Description	Status
257308	Balboa Restaurant	6395 Balboa Ave	Proposed restaurant with drive-thru to replace existing Valvoline oil changer	Application never submitted.
130696	3023 Bunker Hill	3023 Bunker Hill St	Develop 16 commercial condominiums in an existing building on a 0.45-acre site	Application expired 2008

Project ID	Project*	Address	Project Description	Status
327976	Jefferson Pacific Beach*	4275 Mission Bay Dr.	Demolish 36,000 SF of retail space and construction of three stories of residential units over ground floor retail and underground parking. Per developer site, 172 apartment units and 14,000 SF of retail space.	Under construction
535100	HTH Clairemont CUP	5331 Mount Alifan Dr	High Tech High is proposing to provide educational services to a maximum of 1,636 students in grades TK-12	Application withdrawn.
—	HTH*	5331 Mount Alifan Dr	High Tech High is proposing to provide educational services to a maximum of 1,110 students in grades TK-12; 9th grade enrollment began in 2018 (100 students)	Project will occur under existing CUP
113039	Balboa Mesa Center	5937 Balboa Ave	Develop 17 residential for rent units (w/affordable units) and 2,095 additional SF of commercial space to the existing commercial building	Application expired
421571	Stevenson Property VTM/SDP	4520 Pocahontas Ave	Develop 52 single family residential units	Constructed and occupied
388165	Mount Acadia CUP TPM*	3560 Mount Acadia Blvd	Demolish an existing commercial building and construct a 59,472 SF residential care facility and a 5,672 SF retail building	Building not yet demolished
489476	The Summit at MB – EOT*	3139 Clairemont Dr	Develop approximately 499 residential units which will replace an existing 323-unit apartment complex.	Building not yet demolished
530427	Fairfield Marriott Suites CDP*	4345 Mission Bay Dr	Demolish existing buildings and develop a 106-unit hotel	Buildings not yet demolished

Project ID	Project*	Address	Project Description	Status
—	Lindbergh-Schweitzer Elementary School*	4133 Mount Albertine Avenue	Relocate existing Kavod Charter School from Cubberley Elementary School to the existing Schweitzer Campus	Under construction through January 1, 2024
—	Clairemont Mesa Community Plan Update	Planning Area	Community Plan Update	Plan update ongoing
—	Morena Pump Station and Pipelines (Pure Water San Diego)	Sherman St., Morena Blvd., Clairemont Dr, Genesee Ave through University City to the NCWRP on Eastgate Mall.	Construction of wastewater treatment plant, two 10.7-mile wastewater pipelines and two 3.5-mile water pipelines	Under construction
—	Mid-Coast Trolley Construction	North of the Old Town Transit Center to UTC Transit Center	Light rail line construction	Under construction
—	Morena Corridor Specific Plan	Western Clairemont Mesa and Linda Vista CPAs	Specific Plan for pedestrian-oriented village with mixed-use and employment adjacent to trolley stations.	Final EIR circulated Feb 2019
—	Montgomery-Gibbs Executive Airport Master Plan	3750 John J Montgomery Dr, San Diego, CA 92123	Airport master plan	NOP of PEIR distributed February 2019
—	Naval Fuel Pipe Relocation	Fuel line extends 17 miles from Naval Base Point Loma to Marine Corps Air Station Miramar	Repair relocation of a section of the Miramar Pipeline	Environmental Assessment under preparation

* Project taken into consideration in the traffic impact analysis based on its ability to affect the project's study area.

1.8 Growth-Inducing Impacts

Pursuant to CEQA Guidelines Section15126.2(d)), the following growth inducement analysis is required:

> *Discuss ways in which the proposed project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment. Included in this are projects which would remove obstacles to population growth (a major expansion of a waste water treatment plan might, for example, allow for more construction in service areas). Increases in the population may tax existing community services facilities, requires construction of new facilities that could cause significant environmental effects. It must not be assumed that growth in any area is necessarily beneficial, detrimental, or of little significance to the environment.*

The City General Plan (2008) notes that "population in San Diego will grow whether or not the Draft General Plan is adopted …" and although a number of the General Plan policies are in place to "… encourage business, education, employment and workforce development … preserve and protect valuable employment land, especially prime industrial land, from conversion to other uses … and facilitate expansion and new growth of high quality employment opportunities in the city", the lack of affordable housing has become a critical issue in the city and region, which may require changes in existing land use designations to provide for additional affordable housing. The General Plan incorporates the previously adopted City of Villages strategy, which notes that a "village" is a place where residential, commercial, employment, and civic uses are present and integrated, and are characterized by compact mixed-use area, that are pedestrian-friendly and linked to the regional transit system (City of San Diego 2008). Based on Government Code Section 65300, the General Plan serves as a comprehensive, long-term plan for physical development of the City and, by definition, is intended to manage and address future growth in the City. Implementation of the City of Villages strategy relies on the future designation and development of village sites through community plan updates or amendments. Future development of the project site would incorporate the City of Villages strategies, allow for affordable infill housing located near existing transit and assist with achieving the City's Climate Action Plan goals.

The City's community plans are intended to implement the General Plan. The proposed project would amend the CMCP to allow multifamily residential development of the project site and require development standards to guide future development. The project would also amend the site's land use designation in the General Plan for consistency with the amended CMCP.

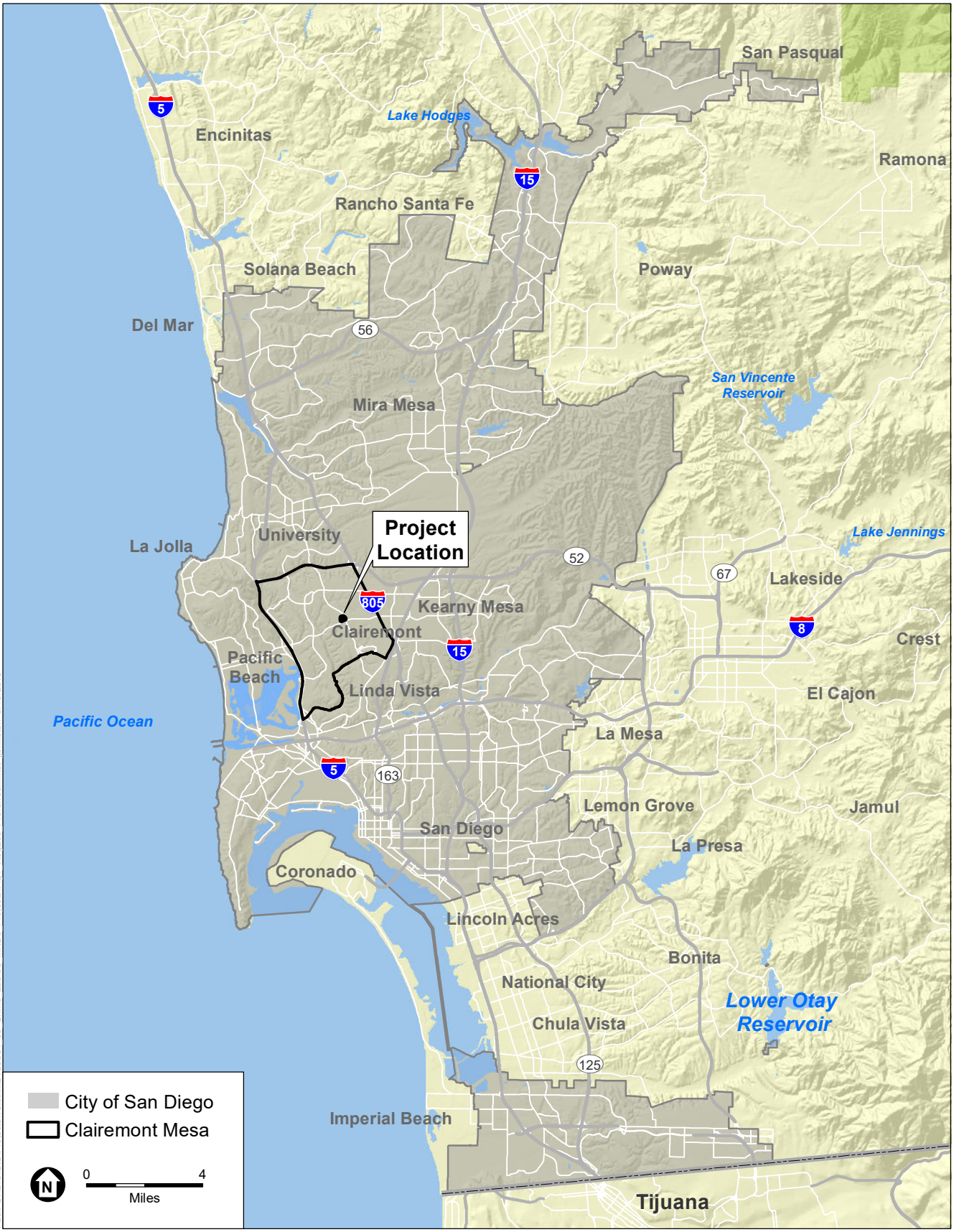
There are existing utilities including water, sewer, storm drainage, and power to serve the existing development and proposed project. Implementation of the

proposed project would not require an expansion or new construction of utilities or public services to accommodate the new development.

Proposed site access changes are intended to accommodate planned traffic and provide an improved multi-modal system and are not anticipated to induce growth. Overall, these infrastructure changes would not remove obstacles to growth or induce growth beyond planned.

Based on the forecasted population for the adopted CMCP stated above, the population in the project area will grow whether or not the proposed project is approved. The proposed project would encourage more affordable housing in the CMCP area on a site that is suitable for this type of growth because it is located in a planned TPA, within an existing developed area with access to services, and served by existing utilities. Therefore, the proposed project would provide comprehensive planning for the management of population growth and necessary economic expansion to support development efforts. In addition, the proposed project would allow an appropriate balance of managed population, housing, and economic growth to accommodate community development while maintaining related community and environmental standards.

In summary, Clairemont Mesa is an urbanized community. According to the adopted CMCP, future development of the vacant residential land and redevelopment opportunities could result in an addition of 1,100 dwelling units (not including mixed-use development), totaling 33,000 dwelling units or a three percent increase over the existing housing stock in the 15 years after the existing Community Plan was adopted (City of San Diego 2011). The ongoing CMCP update anticipates extensive growth of all land use types in the Clairemont Mesa planning area, including residential housing. The CMCP Update EIR to be prepared by the City as Lead Agency will evaluate the impacts associated with this anticipated growth.

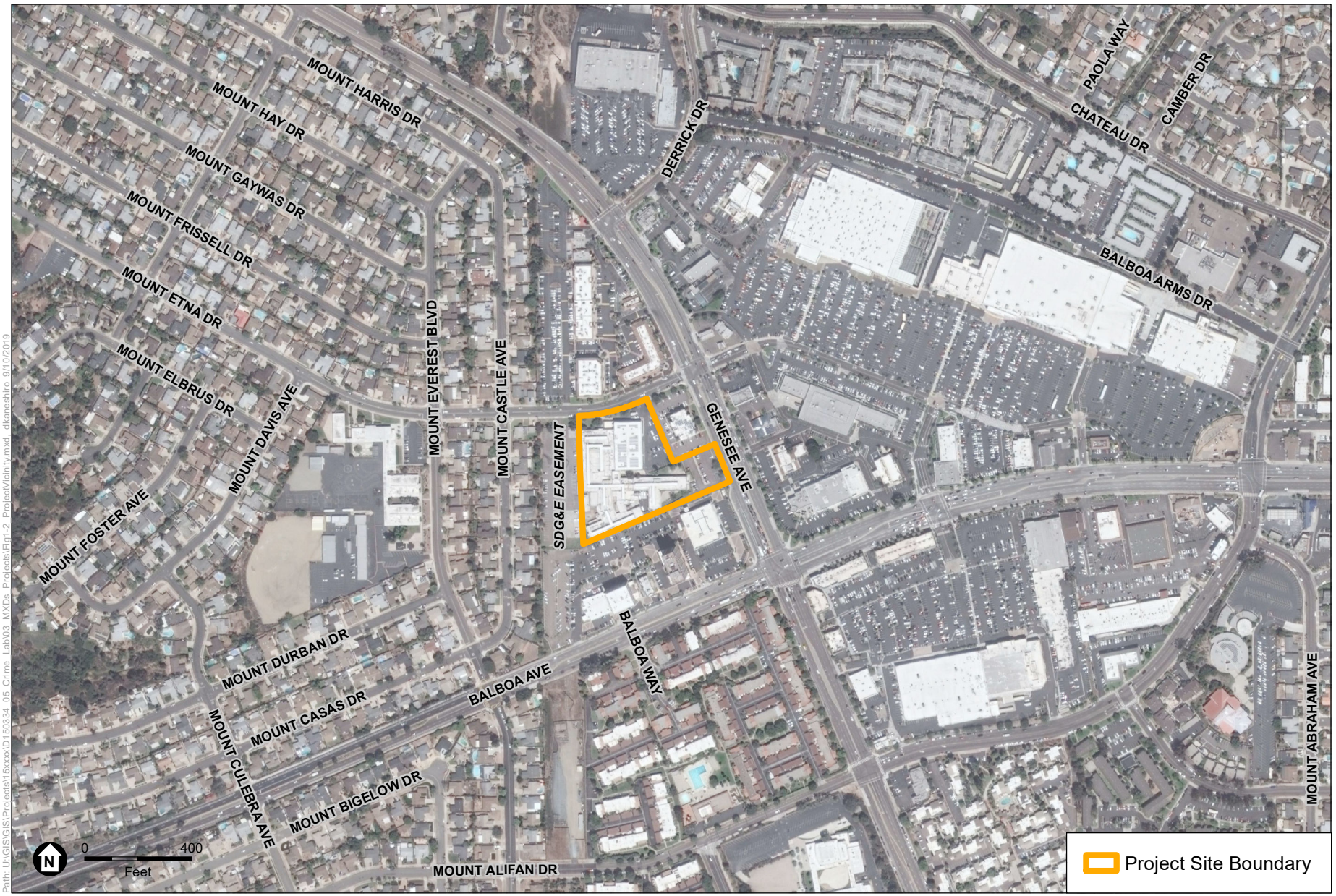


SOURCE: ESRI; SanGIS 2015

Mt. Etna Community Plan Amendment and Rezone Project

Figure 1-1
Regional Location

ESA



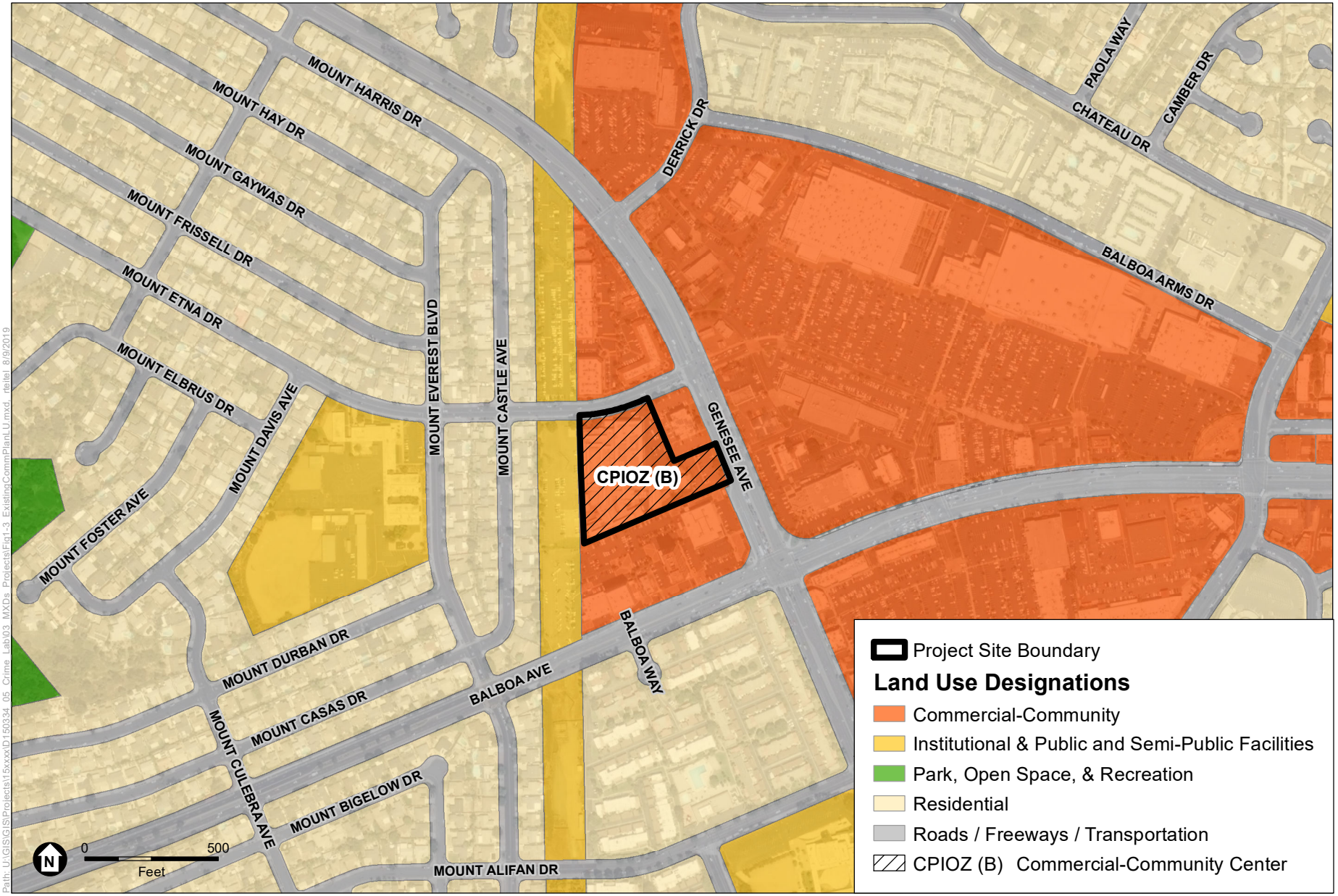
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SOURCE: Google Earth, 2019; ESA, 2019.

Mt. Etna Community Plan Amendment and Rezone Project

Figure 1-2
Project Vicinity

ESA

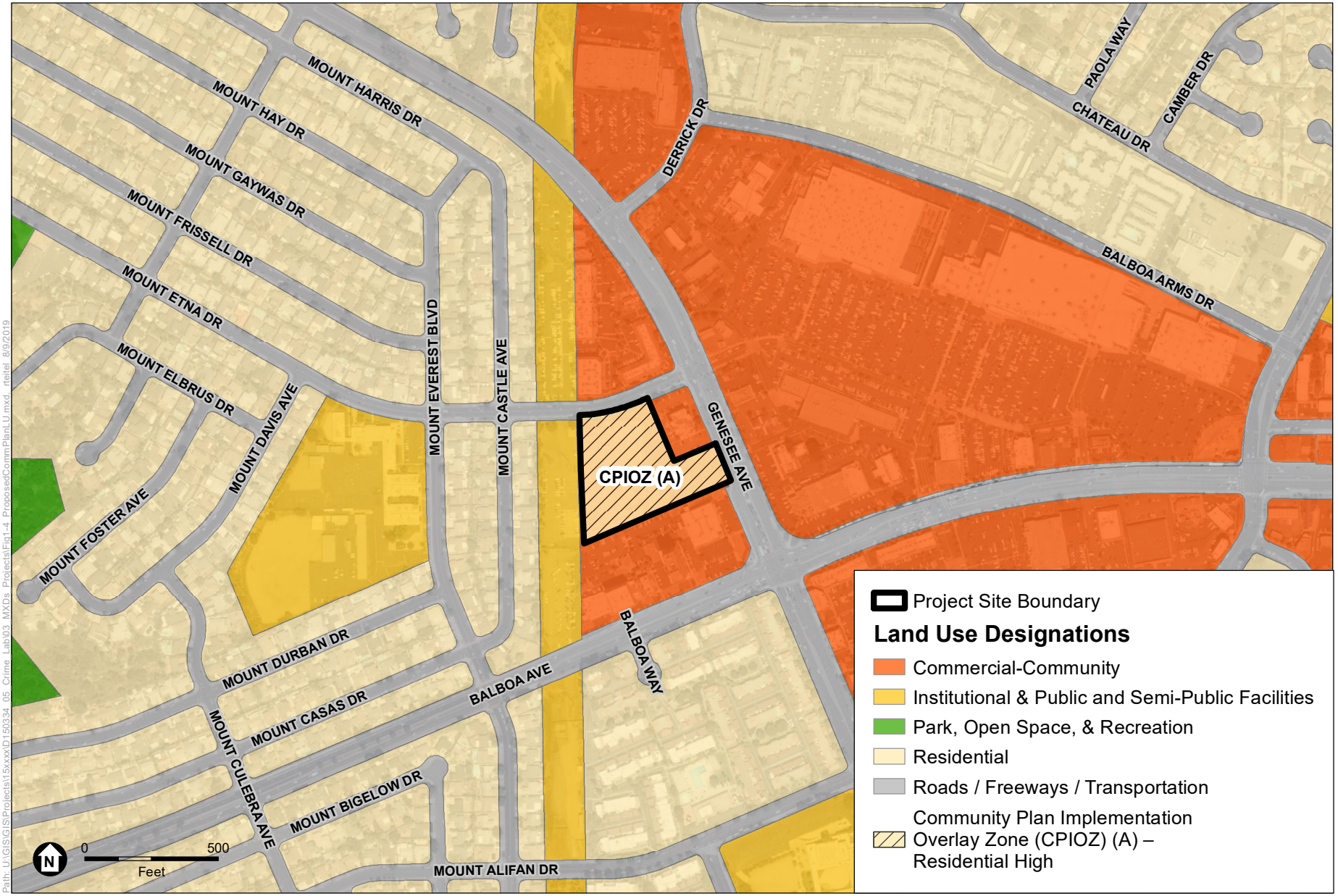


SOURCE: Google Earth, 2019; SanGIS, 2018; ESA, 2019.

Mt. Etna Community Plan Amendment and Rezone Project

Figure 1-3
Existing Clairemont Mesa Community Plan
Land Use Designations

ESA



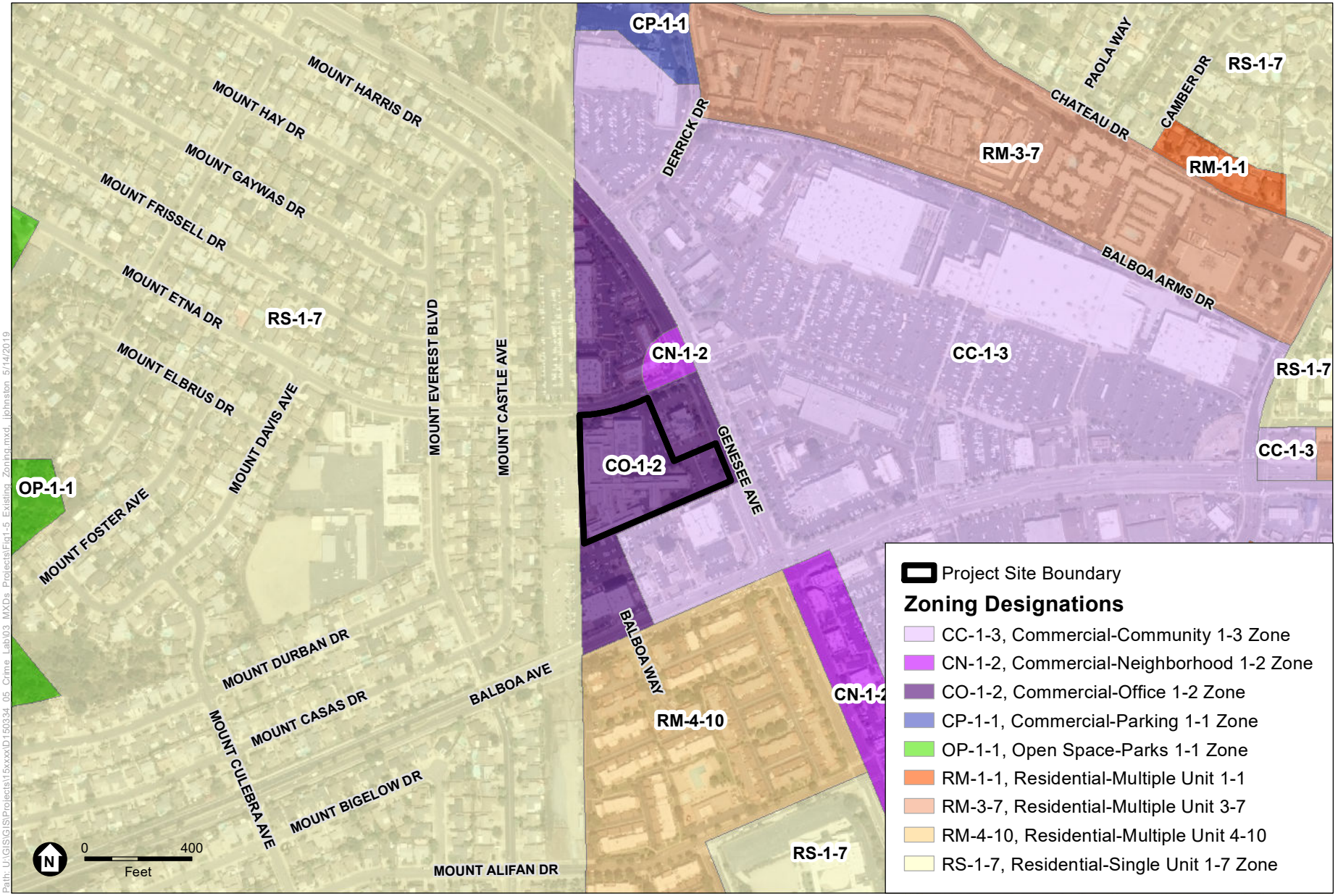
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SOURCE: Google Earth, 2019; SanGIS, 2018; ESA, 2019.

Mt. Etna Community Plan Amendment and Rezone Project

Figure 1-4
Proposed Clairemont Mesa Community Plan
Land Use Designations

ESA

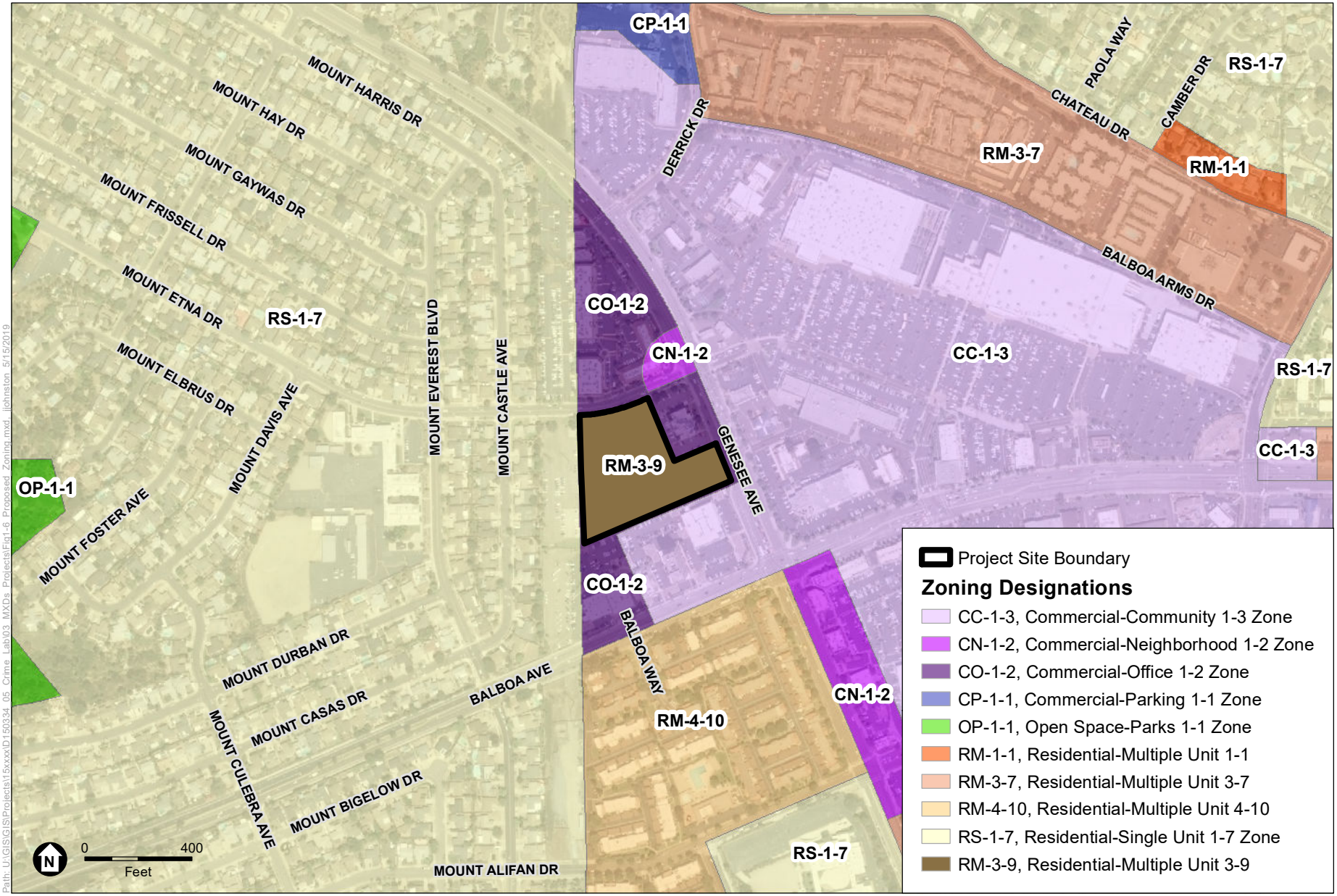


SOURCE: Google Earth, 2019; SanGIS, 2019; ESA, 2019.

Mt. Etna Community Plan Amendment and Rezone Project

Figure 1-5
Existing Zoning

ESA



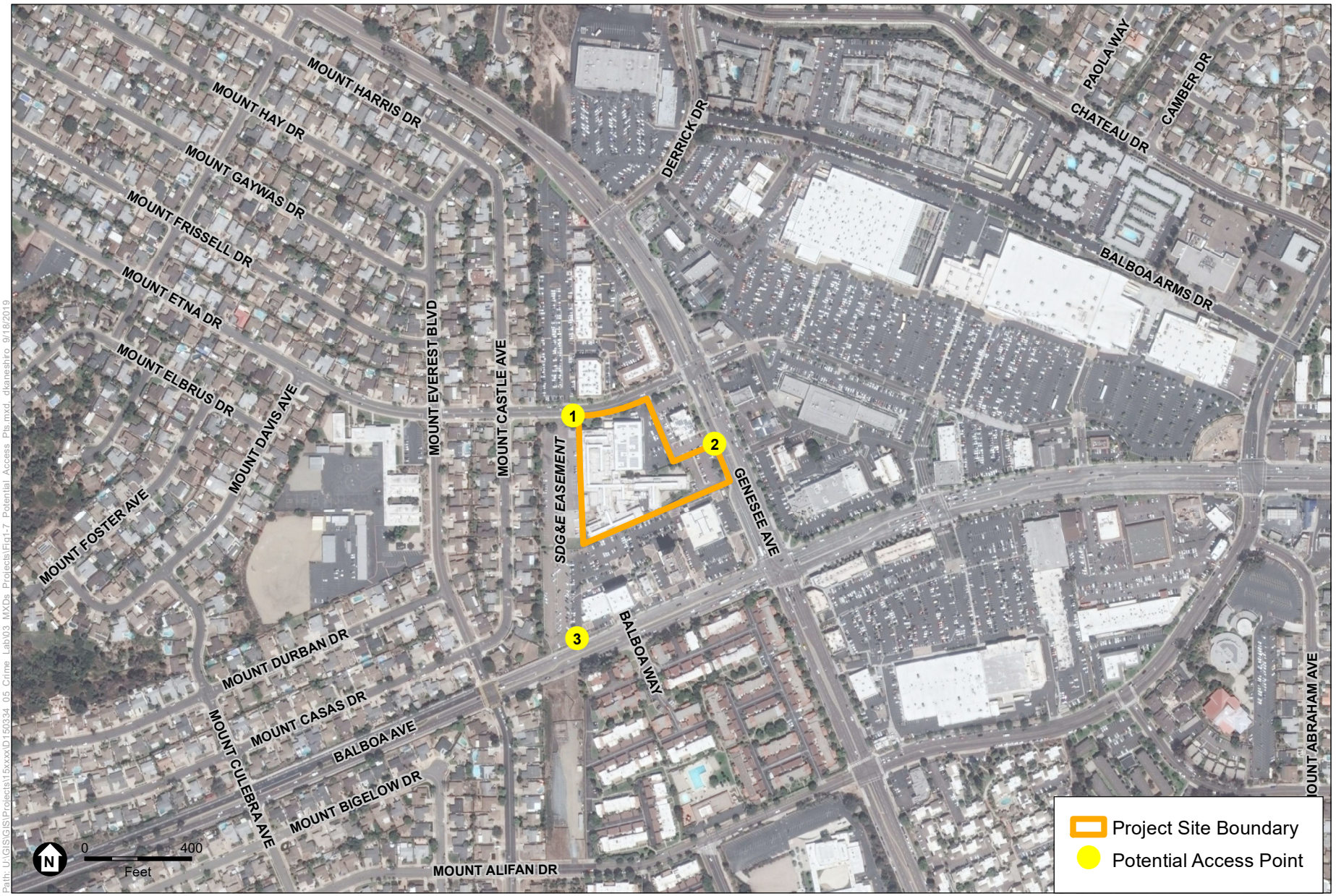
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SOURCE: Google Earth, 2019; SanGIS, 2019; ESA, 2019.

Mt. Etna Community Plan Amendment and Rezone Project

Figure 1-6
Proposed Zoning

ESA



SOURCE: Google Earth, 2019; ESA, 2019.

Mt. Etna Community Plan Amendment and Rezone Project

Figure 1-7
Potential Access Points

ESA

CHAPTER 2.0 SIGNIFICANT ENVIRONMENTAL EFFECTS OF THE PROJECT

This chapter of the EIR provides discussions of those issue areas for which project implementation would result in either (1) significant impacts that cannot be avoided and/or (2) significant impacts that can be avoided, reduced, or minimized through mitigation measures that would be implemented by the proposed project. Sections include Section 2.1, Air Quality; 2.2, Hazards and Hazardous Materials; 2.3, Noise and Vibration; and 2.4, Transportation.

Transportation and Traffic would result in significant and unavoidable impacts. Air Quality, Hazards and Hazardous Materials, Noise and Vibration, and Transportation and Traffic include mitigation that would reduce project impacts to less than significant.

Each environmental issue area describes the following topics.

- Existing conditions
- Regulatory framework
- Analysis of project effects and determination as to significance
- Cumulative impacts
- Significance of impacts prior to mitigation
- Mitigation (if applicable)
- Conclusion

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2.1 Air Quality

This section addresses air emissions generated by construction and operation of the proposed project. The analysis also addresses consistency of the project with air quality policies set forth by the San Diego County Air Pollution Control District (SDAPCD) and the City of San Diego (City). The analysis of project-generated air emissions focuses on whether the project would cause an exceedance of an ambient air quality standard or a SDAPCD significance threshold. Details regarding the air quality analysis are provided in Appendix D of this EIR.

Comments related to air quality received during the public comment period for the Notice of Preparation (NOP) included concerns related to dust from construction and pollution from the rezone of the project site. These concerns have been considered and addressed, as applicable, in the following evaluation of the project's potential to create air quality impacts. The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

2.1.1 Existing Conditions

The project site is located in the San Diego Air Basin (Air Basin), which is within the jurisdiction of SDAPCD. The Air Basin is located in the southwest portion of California and encompasses San Diego County. The Air Basin covers 4,260 square miles with topography varying from beaches on the west coast to mountains and desert in the eastern portion.

The Pacific Ocean influences the weather in the San Diego region with semi-permanent high-pressure systems resulting in dry, warm summers and mild, occasionally wet winters. The average temperature ranges from the mid-40s to the high-90s with most of the County's precipitation falling between November and April. Average precipitation ranges from approximately 10 inches at the coast to over 30 inches in the mountains with the desert regions of the County receiving between 4 to 6 inches annually (County of San Diego 2007).

2.1.1.1 Criteria Air Pollutants

Certain air pollutants have been recognized to cause notable health problems and consequential damage to the environment either directly or in reaction with other pollutants, due to their presence in elevated concentrations in the atmosphere. These air pollutants have been identified and regulated as "criteria air pollutants" by the United States Environmental Protection Agency (USEPA) as a result of the specific standards, or criteria which have been adopted for them, and are subject to emissions control requirements adopted by Federal, State and local regulatory agencies. The criteria air pollutants include ozone (O_3), volatile organic compounds (VOCs), nitrogen dioxide (NO_2), carbon monoxide

(CO) sulfur dioxide (SO_2): respirable particulate matter (PM10) and fine particulate matter (PM2.5), and lead (Pb).

A brief description of the criteria air pollutants and their health effects are provided below:

- **Ozone**: Ozone is considered a photochemical oxidant, which is a chemical that is formed when VOCs and nitrogen oxides (NO_X), both by-products of fuel combustion, react in the presence of ultraviolet light. Ozone is considered a respiratory irritant and prolonged exposure can reduce lung function, aggravate asthma, and increase susceptibility to respiratory infections. Children and those with existing respiratory diseases are at greatest risk from exposure to ozone.
- **Volatile Organic Compounds**: VOCs are organic chemical compounds of carbon and are not "criteria" pollutants themselves; however, some VOCs contribute, with NOx, to form ozone, and are regulated to prevent the formation of ozone (USEPA 2017a). Other sources of VOCs include evaporative emissions from paints and solvents, the application of asphalt paving, and the use of household consumer products such as aerosols (CARB 2016a). Adverse effects on human health are not caused directly by VOCs, but rather by reactions of VOCs to form secondary pollutants, such as ozone.
- **Nitrogen Dioxide:** NO_2 is also a by-product of fuel combustion and is formed both directly as a product of combustion and in the atmosphere through the reaction of nitrogen oxide (NO) with oxygen. NO_2 is a respiratory irritant and may affect those with existing respiratory illness, including asthma. NO_2 can also increase the risk of respiratory illness.
- **Carbon Monoxide:** CO is a product of fuel combustion. CO is an odorless, colorless gas. It affects red blood cells in the body by binding to hemoglobin and reducing the amount of oxygen that can be carried to the body's organs and tissues. CO can cause health effects to those with cardiovascular disease and can also affect mental alertness and vision.
- **Sulfur Dioxide:** SO_2 is a colorless, reactive gas that is produced from the burning of sulfur-containing fuels such as coal and oil and by other industrial processes. Generally, the highest concentrations of SO_2 are found near large industrial sources. SO_2 is a respiratory irritant that can cause narrowing of the airways leading to wheezing and shortness of breath. Long-term exposure to SO_2 can cause respiratory illness and aggravate existing cardiovascular disease.
- **Particulate Matter (PM10 and PM2.5):** Particulate matter (PM) is a mixture of solid particles and liquid droplets found in the air (USEPA 2018b). Some particles, such as dust, dirt, soot, or smoke, are large or dark enough to be seen with the naked eye while other particles are so

small they can only be detected using an electron microscope (USEPA 2018b). PM10 are inhalable respirable particles with diameters that are generally 10 micrometers and smaller; PM2.5 are fine inhalable particles with diameters that are generally 2.5 micrometers and smaller (PM2.5) (USEPA 2018b). Thus, PM2.5 comprises a portion or a subset of PM10. Sources of PM10 emissions include dust from construction sites, landfills and agriculture, wildfires and brush/waste burning, industrial sources, and wind-blown dust from open lands (CARB 2017a). Sources of PM2.5 emissions include combustion of gasoline, oil, diesel fuel, or wood (CARB 2017a). PM10 and PM2.5 may be either directly emitted from sources (primary particles) or formed in the atmosphere through chemical reactions of gases (secondary particles) such as SO_2, NO_X, and certain organic compounds (CARB 2017a). PM_{10} and $PM_{2.5}$ can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases such as asthma and chronic bronchitis. $PM_{2.5}$ is considered to have the potential to lodge deeper in the lungs. Diesel particulate matter is classified a carcinogen.

- **Lead (Pb):** Lead (Pb) in the atmosphere occurs as particulate matter. With the phase-out of leaded gasoline, large manufacturing facilities are the sources of the largest amounts of lead emissions. Lead has the potential to cause gastrointestinal, central nervous system, kidney and blood diseases upon prolonged exposure. Lead is also classified as a probable human carcinogen.

National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) have been set at levels considered safe to protect public health, including the health of sensitive populations such as asthmatics, children, and the elderly with a margin of safety; and to protect public welfare, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings. **Table 2.1-1** shows the current NAAQS and CAAQS for each criteria pollutant.

2.1.1.2 Toxic Air Contaminants

Toxic air contaminants (TACs) are generally known or suspected to cause serious health problems, with no corresponding ambient air quality standard. TACs are also defined as an air pollutant that may increase a person's risk of developing cancer and/or other serious health effects. Other factors, such as the chemical's amount, toxicity, how it is released into the air, weather, and terrain, all influence whether hazardous to human health. TACs are emitted by a variety of industrial processes such as petroleum refining, electric utility and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust and may exist as PM10 and PM2.5 or as vapors (gases). TACs include metals, other particles, gases absorbed by particles, and certain vapors from fuels and other sources.

Table 2.1-1
Ambient Air Quality Standards

Pollutant	Average Time	California Standards[a]		National Standards[b]		
		Concentration[c]	Method[d]	Primary[c,e]	Secondary[c,f]	Method[g]
O_3[h]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
NO_2[i]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemi-luminescence	100 ppb (188 µg/m^3)	None	Gas Phase Chemi-luminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		53 ppb (100 µg/m^3)	Same as Primary Standard	
CO	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	None	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10mg/m^3)		9 ppm (10 mg/m^3)		
SO_2[j]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)[g]
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[j]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[j]	—	
PM10[k]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
PM2.5[k]	24 Hour	No Separate State Standard		35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3 [k]	15 µg/m^3	

Pollutant	Average Time	California Standards[a]		National Standards[b]		
		Concentration[c]	Method[d]	Primary[c,e]	Secondary[c,f]	Method[g]
Lead[l,m]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[m]	Same as Primary Standard	
	Rolling 3-Month Average[m]	—		0.15 µg/m^3		
Visibility Reducing Particles[n]	8 Hour	Extinction coefficient of 0.23 per kilometer — visibility of 10 miles or more (0.07 — 30 miles or more for Lake Tahoe) due to particles when relative humidity is less than 70 percent. Method: Beta Attenuation and Transmittance through Filter Tape.		No Federal Standards		
Sulfates (SO_4)	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[l]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

NOTES:

a California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

b National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 micrograms/per cubic meter (µg/m^3) is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

c Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

d Any equivalent procedure which can be shown to the satisfaction of the California Air Resources Board to give equivalent results at or near the level of the air quality standard may be used.

e National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

f National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

Pollutant	Average Time	California Standards[a]		National Standards[b]		
		Concentration[c]	Method[d]	Primary[c,e]	Secondary[c,f]	Method[g]

g Reference method as described by the USEPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the USEPA.

h On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

i To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb.

j On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated non-attainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

k On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m^3 to 12.0 µg/m^3.

l The California Air Resources Board has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

m The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m^3 as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated non-attainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

n In 1989, the California Air Resources Board converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

SOURCE: CARB 2016.

TAC emissions can be damaging to human health and to the environment. Human exposure to TAC emissions at sufficient concentrations and durations can result in cancer, poisoning, and rapid onset of sickness, such as nausea or difficulty in breathing. Other less measurable effects include immunological, neurological, reproductive, developmental, and respiratory problems. TACs deposited onto soil or into water bodies affect ecological systems and eventually human health through consumption of contaminated food. The carcinogenic potential of TACs is a particular public health concern because many scientists currently believe that there is no "safe" level of exposure to carcinogens. Any exposure to a carcinogen poses some risk of contracting cancer.

The public's exposure to TACs is a significant public health issue in California. The Air Toxics "Hotspots" Information and Assessment Act is a State law requiring facilities to report emissions of TACs to air districts including the amounts of TACs emissions, the location, the concentrations to which the public is exposed, and the resulting health risks.

The State Air Toxics Program (Assembly Bill 2588) identified over 200 TACs, including the 188 TACs identified in the Clean Air Act. USEPA has assessed this expansive list of toxics and identified 21 TACs as Mobile Source Air Toxics (MSATs). MSATs are compounds emitted from highway vehicles and non-road equipment. Some toxic compounds are present in fuel and are emitted to the air when the fuel evaporates or passes through the engine unburned. Other toxics are emitted from the incomplete combustion of fuels or as secondary combustion products. Metal air toxics also result from engine wear or from impurities in oil or gasoline. USEPA also extracted a subset of these 21 MSAT compounds that it now labels as the six priority transportation MSATs: benzene, formaldehyde, acetaldehyde, diesel particulate matter/diesel exhaust organic gases, acrolein, and 1,3-butadiene.

Within the San Diego Air Basin, excluding diesel particulates, the incremental cancer risk from air toxics has been reduced by approximately 70 percent since 1989. As of 2014, the estimated risk was 345-in-one million for Chula Vista and 394-in-one million for El Cajon, down from 481- and 545-in-one million, respectively, in 1989 (SDAPCD 2018).

Diesel Particulate Matter

According to the 2006 California Almanac of Emissions and Air Quality, the majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being particulate matter from the exhaust of diesel-fueled engines, i.e., diesel particulate matter (DPM). DPM differs from other TACs in that it is not a single substance, but rather a complex mixture of hundreds of substances.

Diesel exhaust is composed of two phases, gas and particle, and both phases contribute to the health risk. The gas phase is composed of many of the urban hazardous air pollutants, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde and polycyclic aromatic hydrocarbons. The particle phase is also composed of many different types of particles by size or composition. Fine and ultra-fine diesel particulates are of the greatest health concern, and may be composed of elemental carbon with adsorbed compounds such as organic compounds, sulfate, nitrate, metals and other trace elements. Diesel exhaust is emitted from a broad range of diesel engines; the on road diesel engines of trucks, buses and cars and the off-road diesel engines that include locomotives, marine vessels and heavy-duty equipment. Although DPM is emitted by diesel-fueled internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present.

The most common exposure to DPM is breathing the air that contains diesel exhaust. The fine and ultra-fine particles are respirable (similar to PM2.5), which means that they can avoid many of the human respiratory system defense mechanisms and enter deeply into the lung. Exposure to DPM comes from both on-road and off-road engine exhaust that is either directly emitted from the engines or lingering in the atmosphere.

Diesel exhaust causes health effects from both short-term or acute exposures, and long-term chronic exposures. The type and severity of health effects depends upon several factors including the amount of chemical exposure and the duration of exposure. Individuals also react differently to different levels of exposure. There is limited information on exposure to just DPM but there is enough evidence to indicate that inhalation exposure to diesel exhaust causes acute and chronic health effects.

Acute exposure to diesel exhaust may cause irritation to the eyes, nose, throat and lungs, some neurological effects such as lightheadedness. Acute exposure may also elicit a cough or nausea as well as exacerbate asthma. Chronic exposure to DPM in experimental animal inhalation studies have shown a range of dose-dependent lung inflammation and cellular changes in the lung and immunological effects. Based upon human and laboratory studies, there is considerable evidence that diesel exhaust is a likely carcinogen. Human epidemiological studies demonstrate an association between diesel exhaust exposure and increased lung cancer rates in occupational settings.

DPM contributes significantly to ambient air risk levels but cannot be measured directly since it is comprised of many individual compounds and cannot be analyzed as a single compound. However, CARB has estimated the excess

cancer risk from diesel particulate matter in California in 2014 as 460 in a million (down 68% from the 1990 risk of 1600 in a million). (SDAPCD 2018).

2.1.1.3 Regional Air Quality

The project site is located in the Air Basin, within the jurisdiction of SDAPCD, which is required, pursuant to the federal and state Clean Air Acts, to reduce emissions of criteria air pollutants which do not meet federal and state ambient air quality standards (NAAQS and CAAQS) in the Air Basin. Areas that do not meet the NAAQS or the CAAQS for a particular pollutant are considered to be "nonattainment areas" for that pollutant. **Table 2.1-2** provides a summary of the attainment status of the San Diego Air Basin with respect to the federal and state standards.

Table 2.1-2
San Diego Air Basin Attainment Status

Pollutant	Federal Designation	State Designation
O_3 (1-hour standard)	Attainment[a]	Nonattainment
O_3 (8-hour – 2008)	Nonattainment	Nonattainment
CO	Attainment	Attainment
PM10	Unclassified[b]	Nonattainment
PM2.5	Attainment	Nonattainment
NO_2	Attainment	Attainment
SO_2	Attainment	Attainment
Lead (Pb)	Attainment	Attainment
Sulfates	(no federal standard)	Attainment
Hydrogen Sulfide	(no federal standard)	Unclassified
Visibility Reducing Particles	(no federal standard)	Unclassified

NOTES:

[a] The federal 1-hour standard of 0.12 ppm was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in state implementation plans is designated unclassifiable/attainment.

[b] At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassified in this table.

SOURCE: CARB 2018.

As shown in Table 2.1-2, the Air Basin is currently classified as a nonattainment area for the 2008 federal 8-hour ozone standard. In addition, the Air Basin is classified as a nonattainment area for the California standards for ozone (8-hour ozone standard and 1-hour ozone standard), PM10, and PM2.5.

2.1.1.4 Local Air Quality

SDAPCD maintains a network of ten air quality monitoring stations located throughout the Air Basin to measure ambient pollutant concentrations. The San Diego - Kearny Villa Road Station is the closest station to the project site, located approximately 3.85 miles southwest of the project site, and therefore, is considered most representative station for the project site. The station provides concentrations of 8-hour and 1-hour ozone, PM2.5, PM10, and NO_2. CO and SO_2 have not been monitored in San Diego County since 2012 due to their continued attainment status. The most recent five years of pollutant concentration data available from this monitoring station is from years 2014 to 2018, as summarized in **Table 2.1-3**.

2.1.1.5 Sensitive Receptors

Certain population groups, such as children, elderly, and acutely and chronically ill persons (especially those with cardio-respiratory diseases), are considered more sensitive to the potential effects of air pollution than others. The nearest sensitive land uses to the project site include the following:

- Residences located 150 feet west of the project site across the SDG&E easement parking lot,
- Residences located 170 feet northwest of the project site north of Mount Etna Drive and to the west of the commercial plaza,
- Residences located 400 feet south of the project site south of Balboa Avenue,
- The nearest school, Mount Everest Academy, is located 550 feet west of the project site, west of Mount Everest Boulevard, and
- Horizon Christian Academy is located 1,100 feet south of the project site, south of Mount Alifan Drive.

Other air quality sensitive receptors located father away from the project site would be less impacted by Project emissions because pollutant concentrations reduce with distance from the source (CARB 2017) (i.e., project demolition and building construction at the project site).

Table 2.1-3
Ambient Air Quality Data (San Diego – Kearny Villa Road Station)

Pollutant/Standard	2014	2015	2016	2017	2018
O_3 (1-hour)					
Maximum Concentration (ppm)	0.099	0.077	0.087	0.097	0.102
Days > CAAQS (0.09 ppm)	1	0	0	2	1
O_3 (8-hour)					
Maximum Concentration (ppm)	0.082	0.070	0.075	0.084	0.077
Days > CAAQS (0.070 ppm)	4	0	3	6	5
Days > NAAQS (0.070 ppm)	4	0	3	6	5
NO_2 (1-hour)					
Maximum Concentration (ppm)	0.051	0.051	0.053	0.054	0.045
98th Percentile Concentration (ppm)	0.045	0.044	0.042	0.041	0.038
Days > CAAQS (0.18 ppm)	0	0	0	0	0
NO_2 (Annual)					
Annual Arithmetic Mean (0.030 ppm)	0.010	0.009	0.009	0.009	0.008
PM10 (24-hour)					
Maximum Concentration (µg/m^3)	39	37	35	47	38
Days > CAAQS (50 µg/m^3)	0	0	0	0	0
Days> NAAQS (150 µg/m^3)	0	0	0	0	0
PM10 (Annual)					
Annual Arithmetic Mean (20 µg/m^3)	19.5	16.7	*	17.6	18.4
PM2.5 (24-hour)					
Maximum Concentration (µg/m^3)	20.2	25.7	19.4	27.5	32.2
98th Percentile Concentration (µg/m^3)	17.2	15.7	13.0	17.6	21.6
Days > NAAQS (35 µg/m^3)	0	0	0	0	0
PM2.5 (Annual)					
Annual Arithmetic Mean (12 µg/m^3)	8.1	7.2	7.5	7.9	8.3

ppm = parts per million; µg/m^3 = micrograms per cubic meter
* means there was insufficient data to determine the value.
CO and SO_2 concentrations are not available for San Diego County between 2013 and 2017.
SOURCE: CARB 2019.

2.1.2 Regulatory Setting

2.1.2.1 Federal

Clean Air Act

The federal Clean Air Act of 1963 was the first federal legislation regarding air pollution control and has been amended numerous times in subsequent years,

with the most recent amendments occurring in 1990. At the federal level, USEPA is responsible for implementation of certain portions of the Clean Air Act including mobile source requirements. Other portions of the Clean Air Act, such as stationary source requirements, are implemented by state and local agencies.

The Clean Air Act establishes NAAQS and specifies future dates for achieving compliance. The Clean Air Act also mandates that the state submit and implement a State Implementation Plan for areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met. The 1990 amendments to the Clean Air Act identify specific emission reduction goals for areas not meeting the NAAQS. These amendments require both a demonstration of reasonable further progress toward attainment and incorporation of additional sanctions for failure to attain or to meet interim milestones.

The sections of the Clean Air Act which are most applicable to the project include Title I (Nonattainment Provisions) and Title II (Mobile Source Provisions). Title I requirements are implemented for the purpose of attaining NAAQS for the following criteria pollutants: O_3, NO_2, CO, SO_2, PM10, PM2.5, and lead.

In addition to criteria pollutants, Title I also includes air toxics provisions which require USEPA to develop and enforce regulations to protect the public from exposure to airborne contaminants that are known to be hazardous to human health. In accordance with Section 112, USEPA established National Emission Standards for Hazardous Air Pollutants (NESHAPs). The list of hazardous air pollutants (HAPs), or air toxics, includes specific compounds that are known or suspected to cause cancer or other serious health effects.

Title II requirements pertain to mobile sources, such as cars, trucks, buses, and planes. Reformulated gasoline, automobile pollution control devices, and vapor recovery nozzles on gas pumps are a few of the mechanisms USEPA uses to regulate mobile air emission sources. The provisions of Title II have resulted in tailpipe emission standards for vehicles which have strengthened in recent years to improve air quality. For example, the standards for NO_X emissions have been lowered substantially, and the specification requirements for cleaner burning gasoline are more stringent.

2.1.2.2 State

California Clean Air Act

The California Clean Air Act, signed into law in 1988, requires all areas of the State to achieve and maintain the CAAQS by the earliest practical date. The CAAQS apply to the same criteria pollutants as the federal Clean Air Act but also include State-identified criteria pollutants, which include sulfates, visibility-

reducing particles, hydrogen sulfide, and vinyl chloride. The California Air Resources Board (CARB) has primary responsibility for ensuring the implementation of the California Clean Air Act, responding to the federal Clean Air Act planning requirements applicable to the state, and regulating emissions from motor vehicles and consumer products within the state. Table 2.1-1 shows the CAAQS currently in effect for each of the criteria pollutants, as well as, the other pollutants recognized by the state. As shown in Table 2.1-1, the CAAQS are more stringent than the NAAQS for most of the criteria air pollutants.

Health and Safety Code Section 39607(e) requires CARB to establish and periodically review area designation criteria. Table 2.1-3 provides a summary of the attainment status of the San Diego Air Basin with respect to the state standards. The Air Basin is designated as attainment for the California standards for CO, NO_2, SO_2, sulfates, and lead, and unclassified for hydrogen sulfide and visibility-reducing particles.

California Air Resources Board Air Quality and Land Use Handbook

CARB published the *Air Quality and Land Use Handbook* in April 2005 to serve as a general guide for considering impacts to sensitive receptors from facilities that emit TAC emissions (CARB 2005). In 2017, as a technical supplement to the Handbook, CARB published *Technical Advisory; Strategies to Reduce Air Pollution Exposure Near High-Volume Roadways* (CARB 2017b). The recommendations provided therein are voluntary and do not constitute a requirement or mandate for either land use agencies or local air districts. The goal of the guidance document is to protect sensitive receptors, such as children, the elderly, acutely ill, and chronically ill persons, from exposure to TAC emissions. Some examples of CARB's siting recommendations include the following: (1) avoid siting sensitive receptors within 500 feet of a freeway, urban road with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day; (2) avoid siting sensitive receptors within 1,000 feet of a distribution center (that accommodates more than 100 trucks per day, more than 40 trucks with operating transport refrigeration units per day, or where transport refrigeration unit operations exceed 300 hours per week); and (3) avoid siting sensitive receptors within 300 feet of any dry cleaning operation using perchloroethylene and within 500 feet of operations with two or more machines.

California Air Resources Board On-Road and Off-Road Vehicle Rules

In 2004, CARB adopted an Airborne Toxic Control Measure (ATCM) to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel PM and other TACs. The measure applies to diesel-fueled commercial vehicles with gross vehicle weight ratings greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. This

measure does not allow diesel-fueled commercial vehicles to idle for more than 5 minutes at any given time.

In 2008, CARB approved the Truck and Bus regulation to reduce NO_X, PM10, and PM2.5 emissions from existing diesel vehicles operating in California. The requirements were amended in 2010 and apply to nearly all diesel fueled trucks and busses with a gross vehicle weight rating greater than 14,000 pounds. For the largest trucks in the fleet, those with a gross vehicle weight rating greater than 26,000 pounds, there are two methods to comply with the requirements. The first way is for the fleet owner to retrofit or replace engines, starting with the oldest engine model year, to meet 2010 engine standards, or better. This is phased over 8 years, starting in 2015 and would be fully implemented by 2023, meaning that all trucks operating in the State subject to this option would meet or exceed the 2010 engine emission standards for NO_X and PM by 2023. The second option, if chosen, requires fleet owners, starting in 2012, to retrofit a portion of their fleet with diesel particulate filters achieving at least 85 percent removal efficiency, so that by January 1, 2016 their entire fleet is equipped with diesel particulate filters. However, diesel particulate filters do not typically lower NO_X emissions. Thus, fleet owners choosing the second option must still comply with the 2010 engine emission standards for their trucks and busses by 2020.

In addition to limiting exhaust from idling trucks, in 2007, CARB promulgated emission standards for off-road diesel construction equipment of greater than 25 horsepower such as bulldozers, loaders, backhoes and forklifts, as well as many other self-propelled off-road diesel vehicles. The regulation aims to reduce emissions by installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission-controlled models. Implementation is staggered based on fleet size (which is the total of all off-road horsepower under common ownership or control), with the largest fleets to begin compliance by 2014. Each fleet must demonstrate compliance through one of two methods. The first option is to calculate and maintain fleet average emissions targets, which encourages the retirement or repowering of older equipment and rewards the introduction of newer cleaner units into the fleet. The second option is to meet the Best Available Control Technology (BACT) requirements by turning over or installing Verified Diesel Emission Control Strategies (e.g., engine retrofits) on a certain percentage of its total fleet horsepower. The compliance schedule requires that BACT turn overs or retrofits be fully implemented by 2023 in all equipment in large and medium fleets and across 100 percent of small fleets by 2028.

2.1.2.3 Regional

San Diego County Air Pollution Control District

SDAPCD has the primary responsibility for the control of air pollution from all sources other than emissions from motor vehicles, which falls under the responsibility of CARB and USEPA. Each air district must prepare and adopt an air quality management plan (AQMP) or regional air quality strategy (RAQS) to demonstrate how the district will achieve attainment for the CAAQS and NAAQS. SDAPCD first prepared and submitted the 1991 RAQS to address San Diego County's nonattainment status for ozone; the latest revision was in 2016. The RAQS relies on information from the CARB, San Diego Association of Governments (SANDAG), and the SANDAG Transportation Control Measures Plan (TCM) (County of San Diego 2007). The 2016 Revision of the RAQS contains an overview of statutory requirements, air quality assessment, recent and projected future emission reduction rates, adopted and proposed control measures, overview of incentive programs, review of TCM, and reaffirmation of state emission offset repeal. The RAQS focuses on VOC and NOx, which are both ozone precursors. If a five percent per year reduction of ozone precursors is not feasible, then alternative strategies must be identified and every feasible control measure implemented (SDAPCD 2016).

SDAPCD is responsible for planning, implementing, and enforcing federal and state ambient standards in the Air Basin. The following rules and regulations would apply to construction that occurs pursuant to SPAPCD and relevant to the proposed project:

> ***Regulation II: Permits; Rule 20.2: New Source Review – Non-Major Sources.*** Applies to any new or modified stationary source, to any new or modified emission unit and to any relocated emission unit that is not considered a major stationary source. As applied to new or modified sources, the rule requires (1) the use of BACT, where the emissions of PM10, NOx, VOC, or SOx would increase by 10 pounds per day or more; (2) an air quality impact analysis if the emissions of PM10, NOx, VOC, SOx, or lead exceed designated trigger levels; and (3) establishes public noticing requirements prior to issuance of a permit.
>
> ***Regulation IV: Prohibitions; Rule 50: Visible Emissions.*** Prohibits any activity causing air contaminant emissions darker than 20 percent opacity for more than an aggregate of 3 minutes in any consecutive 60-minute time period. In addition, Rule 50 prohibits any diesel pile-driving hammer activity causing air contaminant emissions for a period or periods aggregating more than 4 minutes during the driving of a single pile.
>
> ***Regulation IV: Prohibitions; Rule 51: Nuisance.*** Prohibits the discharge, from any source, of such quantities of air contaminants or other

materials that cause or have a tendency to cause injury, detriment, nuisance, annoyance to people and/or the public, or damage to any business or property.

Regulation IV: Prohibitions; Rule 55: Fugitive Dust. Regulates fugitive dust emissions from any commercial construction or demolition activity capable of generating fugitive dust emissions, including active operations, open storage piles, and inactive disturbed areas, as well as track-out and carry-out onto paved roads beyond a project site.

Regulation IV: Prohibitions; Rule 67.0: Architectural Coatings. Architectural coatings are regulated under Rule 67.0.1 (Architectural Coatings). Rule 67.0.1 incorporates the tighter VOC limits of the CARB's 2007 Suggested Control Measures and is estimated to reduce VOC emissions in San Diego County by 839.5 tons per year (2.3 tons per day) with a cost-effectiveness of $1.12 per pound of VOC reduced (SDAPCD 2016). Requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

Regulation XI: National Emission Standards for Hazardous Air Pollutants; Subpart M, Rule 361.145: Standard for Demolition and Renovation*.* Requires owners and operators of a demolition or renovation activity to provide written notification of planned asbestos stripping or removal to the Control Officer no less than 10 days prior to demolition and/or asbestos removal. A Notification of Demolition and Renovation Form and fee is required with written notification. Procedures for asbestos emission control are provided under Rule 361.145 and must be followed in accordance with this regulation.

Rule 361.145: Requires notification and work practice standards for asbestos removal and demolition, as specified under Rule 40, Code of Federal Regulations 61, Subpart M.

<u>San Diego County Grading, Clearing and Watercourses Ordinance: Section 87.428 Dust Control Measures.</u>

Requires all clearing and grading to be carried out with dust control measures adequate to prevent creation of a nuisance to persons or public or private property. Clearing, grading or improvement plans shall require that measures such as the following be undertaken to achieve this result: watering, application of surfactants, shrouding, control of vehicle speeds, paving of access areas, or other operational or technological measures to reduce dispersion of dust. These project design measures are to be incorporated into all earth disturbing activities to minimize the amount of PM emissions from construction (County of San Diego 2007).

San Diego Association of Governments San Diego Forward: The Regional Plan

In 2015, the SANDAG Board of Directors adopted San Diego Forward: The Regional Plan. This plan combines the Regional Comprehensive Plan (RCP) with the 2050 Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS), adopted in 2012. The Regional Plan identifies the five following strategies to move the San Diego region toward sustainability:

- Focus housing and job growth in urbanized areas where there is existing and planned transportation infrastructure, including transit,
- Protect the environmental and help ensure the success of smart growth land use policies by preserving sensitive habitat, open space, cultural resources, and farmland,
- Invest in a transportation network that gives people transportation choices and reduces greenhouse gas emissions,
- Address the housing needs of all economic segments of the population, and
- Implement the Regional Plan through incentives and collaboration.

Air quality has improved significantly over the past four decades as measured by the decreasing trend in the number of days with an Air Quality Index (AQI) over 100. In particular, the number of days exceeding the federal 2008 ozone standard has dropped from 179 days in 1981 to 12 days in 2014 (SANDAG 2015).

2.1.2.4 Local

City of San Diego General Plan

The Conservation Element of the City of San Diego's General Plan includes goals and policies to improve the air quality conditions within the City and the Air Basin (City of San Diego 2012). Air Quality goals applicable to the proposed project include: "Regional air quality which meets state and federal standards." Applicable policies include:

> **Policy CE-F.4:** Preserve and plant trees, and vegetation that are consistent with habitat and water conservation policies and that absorb carbon dioxide and pollutants.

2.1.3 Analysis of Project Effects and Determination of Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in the City of San Diego's CEQA Significance Determination Thresholds (City of San Diego 2016). Accordingly, a significant air quality impact would occur if the project would:

Issue 1: Conflict with or obstruct implementation of the applicable air quality plan;

Issue 2: Violate any air quality standard or contribute substantially to an existing or projected air quality violation;

Issue 3: Result in a cumulatively considerable new increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including release emissions which exceed quantitative thresholds for ozone precursors);

Issue 4: Expose sensitive receptors to substantial pollutant concentrations including air toxics such as diesel particulates. As adopted by the South Coast Air Quality Management District (SCAQMD) in their CEQA Air Quality Handbook (Chapter 4), a sensitive receptor is a person in the population who is particularly susceptible to health effects due to exposure to an air contaminant than is the population at large. Sensitive receptors (and the facilities that house them) in proximity to localized CO sources, toxic air contaminants or odors are of particular concern;

Issue 5: Create objectionable odors affecting a substantial number of people.

2.1.3.1 Conflict with Air Quality Plan

Issue 1: Conflict with or obstruct implementation of the applicable air quality plan.

Impact Analysis

Community Plan Amendment and Rezone

All areas designated as nonattainment are required to prepare plans showing how the area would meet the state and federal air quality standards by its attainment dates. The San Diego RAQS is the region's applicable air quality plan for improving air quality in the Air Basin and attaining federal and state air quality standards. The RAQS relies on information from CARB and SANDAG, including projected growth in the County, which is based in part on local general plans. Therefore, the future development allowed under the Community Plan Amendment and rezone portion of the project would be required to be consistent with the air quality standards outlined in the RAQS.

Air pollutant emissions generated from the construction and operation of future residential development would have the potential to affect implementation of the RAQS. Emissions from construction activities of the future residential development would be minimal, as shown under Issue 2, below. In addition, project construction would comply with SDAPCD Rules and Regulations, including Rules 50, 51, and 55, which forbid visible emissions, nuisance activities, and require fugitive dust control measures, respectively.

The proposed project would allow for a future development that would add 404 dwelling units to the Clairemont Mesa community. Since a CPA is needed, future development would not be consistent with the existing General Plan, and it would not be consistent with the existing assumptions in the RAQS. However, the project is intended to provide an affordable housing option for residents already residing in the area and not draw new residents to the area. The project is intended to accommodate the existing population in accordance with the goals established by the Regional Housing Needs Assessment (RHNA). As discussed in Section 2.8, Population and Housing, the project would result in population growth, however, this growth is accounted for in the City's Housing Element and SANDAG's growth projections, and therefore the project would be consistent with the assumptions in the RAQS. Furthermore, as shown in Issue 2 below, construction and operational emissions of the future development would be minimal, would comply with Rule 67.0, and would be consistent with RAQS. As such, the proposed project would not conflict with or obstruct the implementation of the San Diego RAQS, and impacts would be less than significant.

Site Demolition and Preparation

Air pollutant emissions generated from the demolition of existing structures on the project site and preparation of the site for future residential development would have the potential to affect implementation of the RAQS. However, emissions from site demolition and preparation would be minimal, as shown under Issue 2, below. In addition, project construction would comply with SDAPCD Rules and Regulations, including Rules 50, 51, and 55, which forbid visible emissions, nuisance activities, and require fugitive dust control measures, respectively. As such, the proposed project would not conflict with or obstruct the implementation of the San Diego RAQS, and impacts would be less than significant.

2.1.3.2 Air Quality Standards

Issue 2: Violate any air quality standard or contribute substantially to an existing or projected air quality violation

Ozone, NOx, VOC, CO, SOx, PM10, and PM2.5 are pollutants of concern established by SDAPCD for analysis. SDAPCD does not provide quantitative thresholds for determining the significance of construction or mobile source-related impacts. However, the district does specify Air Quality Impact Analysis (AQIA) trigger levels for new or modified stationary sources (APCD Rules 20.2 and 20.3). If these incremental levels for stationary sources are exceeded, an AQIA must be performed for the proposed new or modified source. Although these trigger levels do not generally apply to mobile sources or general land development projects, for comparative purposes these levels may be used to evaluate the increased emissions which would be discharged to the Air Basin from proposed land development projects. Project-related air quality impacts estimated in this environmental analysis would be considered significant if:

- Regional construction and operational emissions from both direct and indirect sources would exceed any of the following prescribed daily emissions thresholds (City of San Diego 2012):
  - 100 pounds per day for PM10
  - 55 pounds per day for PM2.5
  - 250 pounds per day for NO_X
  - 250 pounds per day for SO_X
  - 550 pounds per day for CO
  - 75 pounds per day for VOC[1]

There are currently no localized significance thresholds for San Diego County.

Impact Analysis

Community Plan Amendment and Rezone

Construction

Construction of the future residential development would have the potential to temporarily generate criteria air pollutants from the operation of heavy-duty construction equipment, such as backhoe, cement mixer, compactor, crane, forklifts, grader, paver, roller, and sweepers; and from vehicle trips generated from workers and haul trucks traveling to and from the project site. In addition, fugitive dust emissions would result from various building construction activities. Construction emissions can vary substantially from day-to-day, depending on the intensity and specific type of construction activity. The maximum daily regional emissions are predicted values for the worst-case day and do not represent the emissions that would actually occur during every day of construction.

Construction of the future development is estimated to begin in June 2021 and continue through October 2022. Project construction activities would include foundations/concrete pour, building construction, paving, and architectural coating. Construction air pollutant emissions were estimated using CalEEMod (Version 2016.3.2) software, an emissions inventory software program. Where project specific information was not provided, CalEEMod defaults were used to determine construction equipment based on the type of construction. The modeling assumes that the proposed future 404 apartment units would include 354 parking spaces. Landscaping and architectural coating would occur during the finishing activities.

Daily regional criteria air pollutant emissions for the different phases of construction were forecasted based on construction activities, on-road and off-road mobile sources, and fugitive dust emission factors associated with the specific construction activity. Off-road mobile source emissions would result from

[1] Threshold for VOCs based on the threshold of significance for VOCs from the South Coast Air Quality Management District for the Coachella Valley.

the use of heavy-duty construction equipment listed above. The emissions of off-road equipment were estimated using CalEEMod. CalEEMod is based on outputs from the OFFROAD model and EMission FACtor (EMFAC) model, which are emissions estimation models developed by CARB and used to calculate emissions from construction activities, heavy-duty off-road equipment, and on-road vehicles. Activities parameters, such as number of equipment and equipment usage hours were provided by the applicant.

Fugitive dust emissions (using PM10 as a surrogate) during construction activities were estimated in CalEEMod, which are based on the methods described in USEPA's AP-42 Compilation of Air Pollutant Emission Factors. During the application of architectural coatings, evaporation of solvents contained in surface coatings result in VOC emissions. CalEEMod was used to calculate VOC emissions based on the building surface area and the default VOC content provided by SCAQMD or CARB's statewide limits. Asphalt paving of parking areas are another source of VOC emissions. CalEEMod was used to calculate VOC off-gassing emissions based on the parking lot size and default emission factor.

On-road mobile sources also have the potential to generate temporary criteria air pollutant emissions through workers and haul trucks traveling to and from the project site during building construction. Mobile source emissions were calculated using the 2017 EMFAC model (EMFAC2017), recently approved by USEPA. EMFAC2017 "represents [CARB's] current understanding of motor vehicle travel activities and their associated emission levels." Although CARB restricts idling times to no more than 5 minutes at any one location, it was conservatively assumed that truck idling activities would total 15 minutes per trip, representing three separate 5-minute idling occurrences: check-in to the project site or queuing at the site boundary upon arrival, on-site idling during loading/unloading, and check-out of the project site or queuing at the site boundary upon departure.

The results of the criteria air pollutant calculations for the construction of the future residential development under the CPA are presented in **Table 2.1-4**. Detailed calculations for all individual phases are included in Appendix D. As shown, construction emissions do not exceed SDAPCD screening thresholds and therefore regional impacts from construction emissions would be less than significant.

Operation

Operation of the future development would have the potential to generate criteria air pollutants from mobile, stationary, and area (e.g., coatings, consumer products, landscaping) sources, which were calculated for the project's full buildout year. Detailed emissions calculations are provided in Appendix D of this EIR.

Table 2.1-4
Community Plan Amendment and Rezone Maximum Regional Construction Emissions (lbs/day)

Phase	VOC	NOx	CO	SO2	PM10	PM2.5
Foundations/ Concrete Pour	1	6	7	<1	1	<1
Building Construction	1	15	12	<1	3	1
Architectural Coating	62	2	3	<1	1	<1
Paving	2	15	15	<1	1	1
BC/AC/Paving (overlap)	65	33	31	<1	4	2
Max Daily Emissions	**65**	**33**	**31**	**<1**	**4**	**2**
SDAPCD Thresholds	**75**	**250**	**550**	**520**	**100**	**55**
Exceed Thresholds?	No	No	No	No	No	No

Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Appendix D.

SOURCE: ESA 2019.

Daily trip generation rates and VMT for the project were provided by the project-specific Transportation Impact Analysis (Appendix I) and include trips associated with the proposed multi-family residences (Chen-Ryan 2019). The VMT estimate takes into consideration the project's locational characteristics, as an infill project near high quality transit (i.e., transit priority area [TPA]). Natural gas usage factors are based on commercial and residential data from the California Energy Commission, and landscape equipment emissions are based on off-road emission factors from CARB. Emissions from the use of consumer products and the reapplication of architectural coatings are based on data provided in CalEEMod.

The results of the regional operational criteria pollutant emission calculations for VOC, NO_X, CO, SO_X, PM10, and PM2.5 are presented in **Table 2.1-5**. As shown in Table 2.1-5, the operational emissions would not exceed the SDAPCD significance thresholds for any of the criteria pollutants. The majority of emissions come from mobile sources as residents and visitors would travel to and from the project site. Therefore, impacts would be less than significant with regard to the violation of any air quality standards.

Table 2.1-5
Community Plan Amendment and Rezone Estimated Maximum Regional Operational Emissions (pounds per day)

Emission Sources	VOC	NO_X	CO	SO_2	PM10	PM2.5
Area	13	<1	33	<1	<1	<1
Energy	<1	2	1	<1	<1	<1
Mobile	8	8	59	<1	12	3
Total Project	**21**	**10**	**93**	**<1**	**12**	**4**
SDAPCD Thresholds	**75**	**250**	**550**	**250**	**100**	**55**
Exceeds Thresholds?	No	No	No	No	No	No

Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Appendix D of this EIR.

SOURCE: ESA 2019.

Site Demolition and Preparation

The site demolition and preparation portion of the proposed project includes the demolition of the existing unoccupied buildings and related facilities on-site, disposal of the demolition debris, grading of the site, and existing utilities stubbed out to the project site boundary. Site demolition and preparation would have the potential to temporarily generate criteria air pollutants through the operation of heavy-duty construction equipment, such as backhoes, compactors, dumpers, excavators, generators, graders, haul trucks, loaders, rollers, and scrapers; and through vehicle trips generated from workers and haul trucks traveling to and from the project site. In addition, fugitive dust emissions would result from demolition and various earthmoving activities. Construction emissions can vary substantially from day-to-day, depending on the intensity and specific type of construction activity. The maximum daily regional emissions are predicted values for the worst-case day and do not represent the emissions that would actually occur during every day of construction.

Site demolition and preparation is estimated to begin in March 2021 and continue through July 2021. Project construction activities would include demolition, site preparation, grading, drainage/utilities/trenching, foundations/concrete pour, building construction, paving, and architectural coating. Site demolition and preparation air pollutant emissions were estimated using CalEEMod (Version 2016.3.2). The modeling assumes that the existing, vacant 103,500 square-foot (SF) building on-site would be demolished. Where project specific information was not provided, CalEEMod defaults were used to determine construction equipment based on the type of construction.

The results of the criteria air pollutant calculations are presented in **Table 2.1-6**. Detailed calculations for all individual phases are included in Appendix D. As shown, construction emissions do not exceed SDAPCD screening thresholds and therefore regional impacts from construction emissions would be less than significant.

Table 2.1-6
Site Demolition and Preparation Maximum Regional Construction Emissions (lbs/day)

Phase	VOC	NOx	CO	SO2	PM10	PM2.5
Demolition	4	52	26	<1	7	3
Site Preparation	3	31	21	<1	2	1
Grading	2	21	15	<1	1	1
Drainage/Utilities/Trenching	2	14	14	<1	1	1
Max Daily Emissions	**11**	**118**	**76**	**1**	**11**	**6**
SDAPCD Thresholds	**75**	**250**	**550**	**520**	**100**	**55**
Exceed Thresholds?	No	No	No	No	No	No

Totals may not add up exactly due to rounding in the modeling calculations. Detailed emissions calculations are provided in Appendix D.

SOURCE: ESA 2019.

2.1.3.3 Cumulative Increase

Issue 3: Result in a cumulatively considerable new increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including release emissions which exceed quantitative thresholds for ozone precursors)

The project would be considered to be cumulatively considerable if mitigated emissions of ozone precursors (VOC and NOx), PM10, and PM2.5 would exceed City of San Diego's screening thresholds for these pollutants.

Impact Analysis

Community Plan Amendment and Rezone

As detailed under Issue 2 above, the future residential development construction and operation emissions of non-attainment pollutants would be significantly below regulatory thresholds (see Tables 2.1-4 and 2.1-5, respectively, above). Therefore, the project would not result in a cumulatively considerable increase in criteria pollutant emissions related to construction and operation of the future development.

Site Demolition and Preparation

As detailed under Issue 2 in above, site demolition and preparation construction emissions of non-attainment pollutants would be significantly below regulatory thresholds, as shown in Table 2.1-6 above. Therefore, the project would not result in a cumulatively considerable increase in criteria pollutant emissions related to site demolition and preparation.

2.1.3.4 Sensitive Receptors

Issue 4: Expose sensitive receptors to substantial pollutant concentrations including air toxics such as diesel particulates. As adopted by the South Coast Air Quality Management District (SCAQMD) in their CEQA Air Quality Handbook (Chapter 4), a sensitive receptor is a person in the population who is particularly susceptible to health effects due to exposure to an air contaminant than is the population at large. Sensitive receptors (and the facilities that house them) in proximity to localized CO sources, toxic air contaminants or odors are of particular concern.

Impact Analysis

Community Plan Amendment and Rezone

Toxic Air Contaminants

Construction activities would emit DPM from the use of off-road and on-road equipment and haul and vendor trucks. Because DPM is not independently monitored or reported, the analysis uses PM10 as a surrogate for DPM. If the project would emit carcinogenic materials or TACs that exceed the maximum incremental increase in cancer risk of ten-in-one million or an acute or chronic hazard index of 1.0, impacts to sensitive receptors would be significant.

To assess the potential health risk impacts (i.e., cancer, or other acute or chronic conditions) related to TACs exposure from airborne emissions during the project's construction, a refined quantitative health risk assessment (HRA) was prepared. The HRA evaluated the potential for increased health risks for off-site sensitive receptors due to the project construction activities. As health risk is cumulative over the whole construction and operational period, significance is based on the total risk from both the Community Plan Amendment and rezone (and associated future residential development) and site demolition and preparation phases. However, each phase is discussed individually as well as cumulatively below.

The greatest potential for TAC emissions during the project's building construction would be related to DPM tailpipe emissions associated with the operation of heavy-duty equipment during demolition, excavation and grading

activities, building construction, paving and architectural coating. Minor DPM emissions from haul and vendor trucks are also taken into account in the analysis. Construction activities associated with the project would be sporadic, transitory, and short-term in nature.

The operation of the future residential building is not anticipated to result in health risk from operational activities. During long-term operations, TACs could be emitted as part of the periodic maintenance operations, cleaning, painting, etc., periodic visits to the project site from delivery trucks and service vehicles. TAC emissions from periodic maintenance operations, cleaning, painting, etc., are expected to be occasional and result in minimal exposure to off-site and on-site sensitive receptors. Therefore, operational health impacts were evaluated qualitatively in the impact analysis.

Construction-Related Health Risk

The construction HRA was performed in accordance with the revised OEHHA *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA Guidance) (OEHHA 2015). The analysis incorporates the estimated construction emissions and dispersion modeling using the USEPA AMS/EPA Regulatory Model (AERMOD) model with meteorological data from the closest SDAPCD meteorological monitoring station (San Diego – Kearny Villa Road Station).

For this risk assessment, AERMOD dispersion model output was converted into specific cancer risks and non-cancer chronic health hazard impacts. Health impacts addressed construction and operational DPM emissions and the effects on nearby sensitive uses (residential). Detailed assumptions, methodology, AERMOD dispersion modeling and HRA calculations are included in Appendix D.

Health risk was calculated for the offsite residential and school receptors within approximately 1,000 feet of the project site. AERMOD was used to quantify concentrations at the offsite receptors. Health risk calculations were performed using a spreadsheet tool consistent with the OEHHA guidance. The spreadsheet tool incorporates the algorithms, equations, and a variable described above as well as in the OEHHA guidance, and incorporates the results of the AERMOD dispersion model. Detailed risk assessment is included as Appendix D.

Table 2.1-7 summarizes the carcinogenic risk and non-carcinogenic risk for the maximum impacted sensitive receptors. As shown in Table 2.1-7, the maximum incremental increase in cancer risk would be up to approximately 14-in-one million for construction risk for residential receptors and 0.4-in-one million for school receptors. Health risk for residential receptors would exceed the SCAQMD significance threshold of 10-in-one million for residential receptors, and therefore, impacts would be potentially significant (**Impact AIR-1**), and

Mitigation Measure AIR-1, detailed below, would be required. The chronic health risk from construction of the project is 0.03 for residential and 0.01 for school receptors, well below the significance threshold of 1. The maximum exposed residential receptor is located in the residential development directly west of the project site. The maximum exposed school receptor is located on the Mount Everest Academy campus located west of the project site across Mount Everest Boulevard. Because health risk is cumulative, the Maximum Impacted Sensitive Receptor represents the cumulative risk from both the CPA and rezone of the project site (including the future residential development) and the site demolition and preparation activities. Table 2.1-7 also provides a breakdown of maximum risk per construction phase and total risk for the CPA and rezone.

Table 2.1-7
Community Plan Amendment and Rezone Maximum Unmitigated Incremental Increase in Risk for Off-Site Sensitive Receptors

Sensitive Receptor	Maximum Cancer Risk (#-in-one million) [a]		Chronic Risk Hazard Index (HI) [b]	
	Residential	**School**	**Residential**	**School**
Foundations/ Concrete Pour	0.73	0.02	0.007	0.001
Building Construction	5.93	0.22	0.011	0.002
Architectural Coating	1.35	0.04	0.003	<0.001
Paving	0.84	0.03	0.016	0.003
Max CPAR[c]	8.82	0.31	0.036	0.007
Cumulative Risk[d]	14.28	0.47	0.03	0.01
Significance Threshold	10	10	1.0	1.0
Exceeds Threshold?	**Yes**	No	No	No

a. Cancer risk values based on actual exposure over the duration of construction activities. The construction risk was calculated assuming a child was born at the beginning of the project construction, and would be exposed during the duration of construction activities. The third trimester exposure was excluded as construction is anticipated to take less than two years and exposure from birth to two years results in greater cancer risk, therefore excluding the third trimester exposure results in a more conservative risk analysis.

b. Chronic risk HI values based on the annual maximum levels of DPM divided by the corresponding DPM reference exposure levels (RELs).

c. Note, totals may not add due to rounding and the fact that for each construction phase the maximum impacted receptor may be different. CPAR = Community Plan Amendment and Rezone

d. Cumulative risk is the total risk from the Community Plan Amendment and Rezone and the Site Demolition and Preparation. Totals from Max CPAR and Max D&P may not add due to rounding and the fact that each individual construction phase may have a different maximum impacted receptor.

SOURCE: ESA 2019. (See Appendix D)

The process of assessing health risks and impacts includes a degree of uncertainty. The level of uncertainty is dependent on the availability of data and the extent to which assumptions are relied upon in cases where the data are

incomplete or unknown. All HRAs rely upon scientific studies in order to reduce the level of uncertainty; however, it is not possible to completely eliminate uncertainty from the analysis. Where assumptions are used to substitute for incomplete or unknown data, it is standard practice in performing HRAs to err on the side of health protection in order to avoid underestimating or underreporting the risk to the public by assessing risk on the most sensitive populations, such as children and the elderly.

Operational-Related Health Risk

TACs could be emitted as part of the periodic maintenance operations, cleaning, painting, etc., periodic visits to the project site from delivery trucks and service vehicles. TAC emissions from periodic maintenance operations, cleaning, painting, etc., are expected to be occasional and result in minimal exposure to off-site and on-site sensitive receptors. If operation of the project requires the use of a stationary emission source (such as an emergency back-up generator), such sources are permitted by SDAPCD, and therefore, would result in risk levels below regulatory thresholds. Therefore, operational TAC emissions are anticipated to be less than significant, and no mitigation is required.

Criteria Air Pollutants

Aside from DPM, the operation of heavy-duty vehicles and construction equipment during the grading and building phases of construction can produce substantial amounts of criteria air pollutants, primarily pre-cursor ozone pollutants (ROG and NOX), CO, NO2, and particulate matter. Since none of these criteria air pollutants would be emitted in sufficient quantity to potentially exceed NAAQS and CAAQS in Table 2.1-4, the emissions are considered minimal, and an ambient air quality analysis was not preformed. Therefore, the project would not expose nearby sensitive receptors to a substantial increase in long-term localized pollutant concentrations and the possible chronic impact on human health would be less than significant.

CO Hotspots

Although the San Diego Air Basin is currently an attainment area for CO, environmental review should also consider the localized health effect of CO. The primary mobile-source pollutant of localized concern is CO. CO is a product of incomplete combustion of fossil fuel; unlike ozone, CO is emitted directly out of a vehicle exhaust pipe. Local mobile-source CO emissions near roadway intersections are a direct function of traffic volume, speed, and delay. Transport of CO is limited since it disperses rapidly with distance from the source under normal meteorological conditions. However, under specific meteorological conditions, CO concentrations near roadways and/or intersections may reach unhealthy levels related to local sensitive land uses such as residential units, hospitals, schools, playgrounds, and childcare facilities. Therefore, CO exhaust

emissions can potentially cause a direct, localized CO “hotspot” impact at or near sensitive receptors. A project would expose sensitive receptors to substantial pollutant concentrations if sensitive receptors are placed near CO hotspots, or if it creates CO hotspots near sensitive receptors; i.e., would result in CO emissions that, when added to the ambient concentrations, would exceed a 1-hour concentration of 20 parts per million (ppm) or an 8-hour average of 9 ppm.

According to the City’s Significance Determination Thresholds (City of San Diego 2016), CO hotspot screening should follow current accepted protocol by CARB and/or SDAPCD. SDAPCD does not have localized significance threshold methodology. Given there are no localized adopted thresholds for CO hotspots, guidance was drawn from the County of San Diego Guidelines for Determining Significance, in that, CO hotspots are found to occur at signalized intersections that operate at or below level of service (LOS) E with peak-hour trips for that intersection exceeding 3,000 trips (County of San Diego 2007). However, the project-specific traffic study (Chen-Ryan 2019) identified that existing and future signalized intersections (without the project) operate at LOS E with peak-hour volumes exceeding 3,000 peak-hour volumes for these intersections. The project, in comparison, would contribute minimal additional peak-hour trips for these intersections (Chen-Ryan 2019). Therefore, the potential for the project to cause or contribute to the formation of off-site CO hotspots are evaluated based on prior dispersion modeling of the four busiest intersections in the South Coast Air Basin that has been conducted by the South Coast Air Quality Management District (SCAQMD) for its CO Attainment Demonstration Plan in the SCAQMD Air Quality Management Plan (AQMP) (SCAQMD 2003).

This analysis compares the project intersections with the greatest peak-hour traffic volumes that would be impacted by the project to the intersections modeled by SCAQMD. Project-impacted intersections with peak-hour traffic volumes that are lower than the intersections modeled by SCAQMD, in conjunction with lower background CO levels, would result in lower overall CO concentrations compared to the SCAQMD modeled values in its AQMP.

SCAQMD conducted CO modeling for the 2003 AQMP for the four worst-case intersections in the Air Basin: (a) Wilshire Boulevard and Veteran Avenue; (b) Sunset Boulevard and Highland Avenue; (c) La Cienega Boulevard and Century Boulevard; and (d) Long Beach Boulevard and Imperial Highway. In the 2003 AQMP CO attainment demonstration, SCAQMD notes that the intersection of Wilshire Boulevard and Veteran Avenue is the most congested intersection in Los Angeles County, with an average daily traffic volume of about 100,000 vehicles per day (SCAQMD 2003). This intersection is located near the on- and off-ramps to Interstate 405 in West Los Angeles. Relevant information from the 2003 AQMP CO attainment demonstration relied upon in this assessment is provided in Appendix D of this EIR. The evidence provided in Table 4-10 of

Appendix V of the 2003 AQMP shows that the peak modeled CO concentration due to vehicle emissions at these four intersections was 4.6 ppm (one-hour average) and 3.2 (eight-hour average) at Wilshire Boulevard and Veteran Avenue.

Based on the proposed project's traffic study (Appendix I) (Chen-Ryan 2019) under future plus project conditions, the intersection of Balboa Avenue and Charger Boulevard would have a maximum traffic volume of approximately 61,846 ADT, which are assumed to operate at very low or idling speeds at a congested roadway intersection. As a result, CO concentrations are expected to be approximately 2.8 (one-hour average) and 2.0 (eight-hour average), which would not exceed the numerical indicators of significance. Total traffic volumes at the maximum impacted intersection would likely have to double to cause or contribute to a CO hotspot impact given that vehicles operating today have reduced CO emissions as compared to vehicles operating in year 2003 when the SCAQMD conducted the AQMP attainment demonstration modeling (SCAQMD 2003). This comparison demonstrates that the project would not contribute to the formation of CO hotspots and that no further CO analysis is required. The impact would be less than significant.

Site Demolition and Preparation

Toxic Air Contaminants

As previously stated, the greatest potential for TAC emissions during the project's building construction would be related to DPM tailpipe emissions associated with the operation of heavy-duty equipment during demolition, excavation and grading activities, building construction, paving and architectural coating. Minor DPM emissions from haul and vendor trucks are also taken into account in the analysis. Construction activities associated with the project would be sporadic, transitory, and short-term in nature.

Construction-Related Health Risk

Table 2.1-8 provides a breakdown of maximum risk per construction phase and total risk for site demolition and preparation activities. As discussed above, significance is based on the cumulative combined risk from site demolition and preparation activities and the CPA and rezone activities (the future residential development). As previously stated and shown in Table 2.1-7, the maximum incremental increase in cancer risk would be up to approximately 14-in-one million for construction risk for residential receptors and 0.4-in-one million for school receptors. Health risk for residential receptors would exceed the SCAQMD significance threshold of 10-in-one million for residential receptors, and therefore, impacts would be potentially significant (**Impact AIR-1**), and **Mitigation Measure AIR-1**, detailed below, would be required.

Table 2.1-8
Site Demolition and Preparation Maximum Unmitigated Incremental Increase in Risk for Off-Site Sensitive Receptors

	Maximum Cancer Risk (#-in-one million)[a]		Chronic Risk Hazard Index (HI)[b]	
Sensitive Receptor	**Residential**	**School**	**Residential**	**School**
Demolition	1.21	0.036	0.035	0.0060
Site Preparation	1.89	0.056	0.028	0.0048
Grading	1.30	0.038	0.019	0.0033
Trenching	1.06	0.031	0.016	0.0028
Max D&P[c]	5.45	0.16	0.098	0.017
Cumulative Risk[d]	14.28	0.47	0.03	0.01
Significance Threshold	10	10	1.0	1.0
Exceeds Threshold?	**Yes**	No	No	No

NOTES:

a. Cancer risk values based on actual exposure over the duration of construction activities. The construction risk was calculated assuming a child was born at the beginning of the project construction, and would be exposed during the duration of construction activities. The third trimester exposure was excluded as construction is anticipated to take less than two years and exposure from birth to two years results in greater cancer risk, therefore excluding the third trimester exposure results in a more conservative risk analysis.

b. Chronic risk HI values based on the annual maximum levels of DPM divided by the corresponding DPM reference exposure levels (RELs).

c. Note, totals may not add due to rounding and the fact that for each construction phase the maximum impacted receptor may be different. D&P = Site Demolition and Preparation

d. Cumulative risk is the total risk from the Community Plan Amendment and Rezone and the Site Demolition and Preparation. Totals from Max CPAR and Max D&P may not add due to rounding and the fact that each individual construction phase may have a different maximum impacted receptor. See discussion for Table 2.1-7 for details

SOURCE: ESA 2019. (See Appendix D)

The process of assessing health risks and impacts includes a degree of uncertainty. The level of uncertainty is dependent on the availability of data and the extent to which assumptions are relied upon in cases where the data are incomplete or unknown. All HRAs rely upon scientific studies in order to reduce the level of uncertainty; however, it is not possible to completely eliminate uncertainty from the analysis. Where assumptions are used to substitute for incomplete or unknown data, it is standard practice in performing HRAs to err on the side of health protection in order to avoid underestimating or underreporting the risk to the public by assessing risk on the most sensitive populations, such as children and the elderly.

Criteria Air Pollutants

Aside from DPM, the operation of heavy-duty vehicles and construction equipment during the grading and building phases of construction can produce

substantial amounts of criteria air pollutants, primarily pre-cursor ozone pollutants (ROG and NOX), CO, NO2, and particulate matter. Since none of these criteria air pollutants would be emitted in sufficient quantity to potentially exceed NAAQS and CAAQS in Table 2.1-6, the emissions are considered minimal, and an ambient air quality analysis was not preformed. Therefore, the project would not expose nearby sensitive receptors to a substantial increase in long-term localized pollutant concentrations, and the possible chronic impact on human health would be less than significant.

2.1.3.5 Odor Analysis

Issue 5: Create objectionable odors affecting a substantial number of people.

Impact Analysis

Community Plan Amendment and Rezone

Construction

Potential sources that may emit odors during construction activities of the future residential building include the use of architectural coatings and solvents. SDAPCD Rule 67.0 (Architectural Coatings) limits the amount of VOCs from architectural coatings and solvents. Construction equipment typically is not a source of odors. Odors from the combustion of diesel fuel would be minimized by complying with the CARB ATCM that limits diesel-fueled commercial vehicle idling to 5 minutes at any given location. The project would also comply with SDAPCD Rule 51 (Nuisance), which prohibits the emissions of nuisance air contaminants or odorous compounds. Through adherence with mandatory compliance with SDAPCD Rules and State measures, project construction activities and materials would not create objectionable or nuisance odors at nearby air quality sensitive receptors. Impacts with respect to odors during construction of the future development would be less than significant.

Operation

Potential sources that may emit odors during operation of the future development include consumer products and architectural coatings. As mentioned above, the project is subject to SDAPCD Rules 51 and 67.0 to limit the emissions of nuisance air contaminants and VOCs. Through compliance with mandatory SDAPCD Rules, operations would not create objectionable odors and impacts would be less than significant.

Site Demolition and Preparation

The proposed project includes the demolition of the existing unoccupied buildings and related facilities on-site, disposal of the demolition debris, mass grading of the site, and existing utilities stubbed out to the project site boundary. As

previously detailed, construction equipment typically is not a source of odors. Odors from the combustion of diesel fuel would be minimized by complying with the CARB ATCM that limits diesel-fueled commercial vehicle idling to 5 minutes at any given location. The project would also comply with SDAPCD Rule 51 (Nuisance), which prohibits the emissions of nuisance air contaminants or odorous compounds. Through adherence with mandatory compliance with SDAPCD Rules and State measures, site demolition and preparation activities and materials would not create objectionable or nuisance odors at nearby air quality sensitive receptors. Impacts with respect to odors during site demolition and preparation would be less than significant.

2.1.4 Cumulative Impact Analysis

Cumulative impacts with respect to air quality assess the project's contribution to the cumulative increase in pollutants for which the San Diego Air Basin is listed as non-attainment for State and Federal AAQS. Specifically, these include PM10, PM2.5 and ozone precursors of NOx and VOCs.

A project that has a significant direct impact on air quality with regard to emissions of PM10, PM2.5, NOx and/or VOCs, would also have a significant cumulatively considerable net increase. In the event direct impacts from a proposed project are less than significant, a project may still have a cumulatively considerable impact on air quality, if the emissions of concern from the proposed project, in combination with the emissions of concern from other proposed projects or reasonably foreseeable future projects within the vicinity of the proposed project*,* have the potential to contribute to a significant cumulative impact (County of San Diego 2007). When combined with reasonably foreseeable cumulative projects within the vicinity of the project site*,* the project has the potential to contribute to a significant cumulative impact. As indicated in Issue 2 (see section 2.1.2 above), construction and operational emissions for the proposed project would have a less than significant impact to air quality. Additionally, with the implementation of **Mitigation Measure AIR-1**, criteria pollutant emissions associated with the operation of off road emissions would be further reduced below regional thresholds. Therefore, the project would not substantially contribute to a cumulatively considerable impact. The project would have a less than cumulative considerable impacts to air quality.

2.1.5 Significance of Impacts Prior to Mitigation

The following significant impact related to air quality would occur with project implementation:

> **Impact AIR-1**: Health risk for residential receptors would exceed the SCAQMD significance threshold of 10-in-one million for residential

receptors associated with both future building construction and site demolition and preparation for the proposed project.

2.1.6 Mitigation

AIR-1: Construction Equipment: The project shall require all off-road diesel equipment greater than 50 horsepower (hp) used during construction activities to meet USEPA Tier 4 final off-road emission standards or equivalent. Such equipment shall be outfitted with Best Available Control Technology (BACT) devices including a CARB-certified Level 3 Diesel Particulate Filter or equivalent.

2.1.7 Conclusion

The incorporation of **Mitigation Measure AIR-1** would reduce potential cancer and non-cancer risk to offsite sensitive receptors through minimization of DPM emissions from onsite construction equipment. **Table 2.1-9** summarizes the carcinogenic risk and non-carcinogenic risk for the maximum impacted sensitive receptors after implementation of mitigation. As shown in Table 2.1-9, the maximum incremental increase in cancer risk would be up to approximately 3-in-one million for construction risk for residential receptors and 0.1-in-one million for school receptors. With mitigation, risk for residential receptors would not exceed the SCAQMD significance threshold of 10-in-one million for residential or school receptors. The chronic health risk from construction of the project is 0.007 for residential and 0.001 for school receptors, well below the significance threshold of 1. The maximum exposed residential receptor remains located in the residential development directly west of the project site. The maximum exposed school receptor is located on the Mount Everest Academy campus located west of the project site across Mount Everest Boulevard. With the incorporation of Mitigation Measure AIR-1, impacts from air quality would be reduced to less than significant levels.

Table 2.1-9
Maximum Mitigated Incremental Increase in Risk for Off-Site Sensitive Receptors

	Maximum Cancer Risk (#-in-one million)[a]		Chronic Risk Hazard Index (HI)[b]	
Sensitive Receptor	**Residential**	**School**	**Residential**	**School**
Community Plan Amendment and Rezone				
Foundations/Concrete Pour	0.03	0.001	0.0003	0.0001
Building Construction	2.88	0.09	0.006	0.0011
Architectural Coating	0.06	0.002	0.0001	<0.0001
Paving	0.05	0.001	0.001	0.0002
Max CPAR[c]	2.94	0.10	0.007	0.001
Site Demolition and Preparation				
Demolition	0.05	0.001	0.001	0.0002
Site Preparation	0.11	0.003	0.002	0.0003
Grading	0.07	0.001	0.001	0.0002
Trenching	0.05	0.002	0.001	0.0001
Max D&P[c]	0.27	0.01	0.005	0.001
Cumulative Risk[d]	3.06	0.10	0.007	0.001
Significance Threshold	10	10	1.0	1.0
Exceeds Threshold?	No	No	No	No

NOTES:

a. Cancer risk values based on actual exposure over the duration of construction activities. The construction risk was calculated assuming a child was born at the beginning of the project construction, and would be exposed during the duration of construction activities. The third trimester exposure was excluded as construction is anticipated to take less than two years and exposure from birth to two years results in greater cancer risk, therefore excluding the third trimester exposure results in a more conservative risk analysis.

b. Chronic risk HI values based on the annual maximum levels of DPM divided by the corresponding DPM reference exposure levels (RELs).

c. Note, totals may not add due to rounding and the fact that for each construction phase the maximum impacted receptor may be different. CPAR = Community Plan Amendment and Rezone; D&P = Site Demolition and Preparation

d. Cumulative risk is the total risk from the Community Plan Amendment and Rezone and the Site Demolition and Preparation. Totals from Max CPAR and Max D&P may not add due to rounding and the fact that each individual construction phase may have a different maximum impacted receptor.

SOURCE: ESA 2019. (See Appendix D)

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2.2 Hazards and Hazardous Materials

This section provides an assessment of potential impacts related to hazards and hazardous materials that could result from project implementation. Potential impacts addressed in this section include exposure of people or structures to wildland fires, hazardous materials, and interference with emergency response plans.

Comments related to hazards and hazardous materials received during the public comment period for the Notice of Preparation (NOP) include concerns regarding the existing power and gas lines located near the project site. The NOP and all comment letter received in response to the NOP are included in Appendix A of this EIR.

2.2.1 Existing Conditions

2.2.1.1 Historic Property Uses

According to the Phase I Environmental Site Assessment (ESA) (Appendix G) that was prepared for the proposed project, historical aerial photographs of the project site date back to 1903 (Ninyo & Moore 2019). The project site was vacant and undeveloped from as early as 1903 until 1964, when a portion of the present-day single-story building on the western portion of the site was constructed. From 1964, various roads and structures were constructed in the project area, including Mount Etna Drive, Genesee Avenue, and the SDG&E natural gas pipeline followed by two commercial structures south of the project site and single family residences to the west. By 1966, three gasoline service stations operated at the northwest, northeast, and southeast corners of the Mount Etna Drive and Genesee Avenue intersection. In the 1970s, there was additional commercial development along Genesee Avenue, and in 1975 an addition was added to the southeastern portion of the single-story building at the project site. In the 1980s, the adjacent properties to the north and northwest of the site were developed with commercial uses and office buildings. In 1994, the attached garage is present at the southwestern portion of the project site, and in 1996, the two-story warehouse portion of the site is visible in aerial photographs. The project site has maintained its current configuration since 1996.

2.2.1.2 Hazardous Materials Evaluation

The Phase I ESA prepared for the project site included a review of information and documents pertaining to the site, an evaluation of federal, state, and local databases, a site reconnaissance of the subject property and surrounding areas, interviews, a review of prior reports, aerial photographs, and topographic, geologic, and hydrogeologic maps. The Phase I ESA found no evidence of any

existing recognized environmental conditions in connection with the project site. The results of the Phase I ESA are summarized below.

Database Evaluation of the Project Site

An environmental database record search was completed for the project site and surrounding area as to identify information pertaining to documented and/or suspected releases of regulated hazardous substances and/or petroleum products within specified search distances (up to one mile). The records search determined that the project site was listed in several environmental databases searched, as detailed in **Table 2.2-1**.

Table 2.2-1
Environmental Database Listing for the Project Site

Former Occupants	Database	Summary
San Diego County Regional Crime Lab	ECHO FINDS LOP LUST RCRA-SQG SAM SWEEPS UST UST	The project site was occupied by the Crime Lab from 1980 to 2018. The facility has a closed unauthorized release case (H14261-001) associated with a diesel fuel release that impacted soil only. The case was opened in September 1991 and closed in May 1995. The facility is also listed as a small quantity generator of waste and is listed as having an active 1,000-gallon motor fuel underground storage tank (UST).
Clairemont Hospital	Hist Cortese	Prior to the County's acquisition of the property, the site was occupied by Clairemont Hospital. This occupant is listed in the database; however, no other information is provided.

Source: Ninyo & Moore 2019

According to the Phase I ESA, County of San Diego Department of Environmental Health (DEH) documentation shows that a 1,000-gallon diesel UST and associated contaminated soil was removed from the project site in 1991. A 500-gallon UST was removed in 1992 and replaced with a 4,000-gallon diesel UST. This 4,000-gallon UST currently remains on the project site. During UST testing, no failed tests were found or other evidence of release.

Records for the project site include DEH compliance inspection reports from 1996 to 2019. According to the December 2018 compliance inspection report, the San Diego County Regional Crime Lab (Crime Lab) moved to a new facility in August 2018 and the facility's hazardous and medical wastes were disposed of in August and November 2018.

Database Evaluation of Off-Site Properties

Off-site properties appeared on various regulatory agency databases. Off-site properties were evaluated as to their potential to impact soil and/or groundwater at the project site. The following five properties were interpreted to represent a potential environmental concern to the project site, based on their proximity to the project site, the nature of the database on which they were listed, and/or the southwest direction of groundwater flow in the site vicinity.

1. Rite Aid #5653 is located at 5270 Balboa Avenue, approximately 146 feet southeast from the project site. The property is a conditionally exempt small quantity generator that generates pharmaceutical and photo-processing type wastes. Inspection reports did not indicate evidence of a spill or release at the property. Based on the type of business (retail) and the absence of spills or releases, this property is not a concern to the project site at this time.
2. Mobil T0220/Former Mobil Station is located at 4302 Genesee Avenue, approximately 168 feet northeast of the project site. The property was a former gasoline station which has a closed unauthorized release case, which was closed in October 1986. Four underground storage tanks (USTs) were removed in August 1986. Based on the case close status, the medium affected (soil), and that the primary sources of the release were removed (USTs), this property does not represent an environmental concern to the project site at this time.
3. Genesee Shell/Shell Oil Service Station/Cagles Genesee Shell is located at 4303 Genesee Avenue, approximately 327 feet northeast of the project site. The former gasoline service station is listed under multiple databases regarding a UST release that impacted soil and groundwater. USTs were removed, along with impacted soil and water. Multiple groundwater monitoring wells were installed to monitor groundwater and soil vapor. The case was closed in August 2018 with residual soil and groundwater contamination left in place under a Low Threat UST Case Closure Policy.
4. Circle K Store is located at 4360 Genesee Avenue, approximately 449 feet north of the project site. The property includes an active gasoline station with a closed unauthorized release case. Groundwater monitoring wells and remedial wells were installed on the property. Based on the case closure and distance from the project site, this property does not represent a concern to the project site at this time.
5. Chevron/Balboa Avenue is located at 5401 Balboa Avenue, approximately 489 feet southeast of the project site. The property contains a former gasoline service station with four closed unauthorized release cases that impacted soil and groundwater. Based on the case closed status, remediation performed, and the distance to the project site, this property does not represent a concern to the project site at this time.

According to the project-specific Phase I ESA, the properties listed above were not considered to be environmental concerns to the project site because of the distance and orientation between the off-site properties and the project site, direction of groundwater flow, and the case status (Ninyo & Moore 2019).

Site Reconnaissance

A physical inspection of the project site was conducted on March 20, 2019. The following on-site observations were made:

- Petroleum products observed include hydraulic fluid in the elevator equipment reservoir and diesel fuel associated with the backup generator. Hazardous substances include cooling tower chemicals and refrigerants used for the cooling system.
- Access covers associated with a 4,000-gallon UST were observed adjacent to the emergency generator.
- A pad-mounted transformer was observed on the south-central portion of the project site. No evidence of leaks was observed.
- A sump and pump were observed in a landscaped area near the main entrance to the building.
- The warehouse portion of the project site contains a hydraulic freight elevator. No leaks or staining were observed adjacent to the hydraulic reservoir.
- Three 55-gallon poly drums were observed adjacent to the cooling towers.

2.2.1.3 Airports

The nearest public airport is Montgomery Field Airport, located approximately 2 miles east of the project site. The nearest private airstrip is the Marine Corps Air Station (MCAS) Miramar, located approximately 2.9 miles northeast of the project site. According to the Montgomery Field Airport Land Use Compatibility Plan (ALUCP) and the MCAS Miramar ALUCP, the project site is not within any safety zones for either airport (ALUC 2010; ALUC 2008). However, the project site is located within Montgomery Field and MCAS Miramar's Airport Influence Area denoted as Review Area 2 (ALUC 2010; 2008). According to both airport's ALUCPs, Review Area 2 encompasses the portions of the airspace protection and overflight notification areas not included in Review Area 1. For both airports, Review Area 2 would not require any ALUC review, nor is it subject to any noise or safety zone standards. However, any new construction would need a "determination of no hazard to air navigation" from the FAA prior to issuance of a building permit by the City of San Diego.

2.2.1.4 Wildfires

Both the State of California and County of San Diego map the Fire Hazard Severity Zones within San Diego County. According to the California Department of Forestry and Fire Protection (CALFIRE), the Fire Hazard Severity Zones are based on an evaluation of fire history, existing and potential fuel, flame length, blowing embers, terrain, weather, and the likelihood of buildings igniting. The project site is not within a Local Responsibility Area Fire Hazard Severity Zone, also referred to as “very high fire hazard severity zone” (CALFIRE 2009).

2.2.1.5 Electric Magnetic Fields

The project site is adjacent to a 50-foot wide SDG&E easement with two sets of overhead transmission lines. Extremely low frequency (ELF) electric and magnetic fields (EMF) include alternating current (AC) fields and other electromagnetic, nonionizing radiation from 1 Hz to 300 Hz. Power lines, like electrical wiring and electrical equipment, produce ELF fields at 60 Hz (OSHA 2016). This EIR does not consider EMF in the context of the CEQA analysis of potential environmental impacts because: [1] there is no agreement among scientists that EMF creates a potential health risk, and [2] there are no defined or adopted CEQA standards for defining health risk from EMF.

2.2.2 Regulatory Setting

2.2.2.1 Federal

Resource Conservation and Recovery Act

The Resource Conservation and Recovery Act (RCRA) establishes a framework for national programs to achieve environmentally sound management of both hazardous and non-hazardous wastes. RCRA was designed to protect human health and the environment, reduce/eliminate the generation of hazardous waste, and conserve energy and natural resources. RCRA also promotes resource recovery techniques. The Hazardous and Solid Waste Amendments of 1984 both expanded the scope of RCRA and increased the level of detail in many of its provisions. The Hazardous Waste Management subchapter of the RCRA deals with a variety of issues regarding the management of hazardous materials including the export of hazardous waste, State programs, inspections of hazardous waste disposal facilities, enforcement, and the identification and listing of hazardous waste.

Comprehensive Environmental Response, Compensation, and Liability Act

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 was enacted to protect water, air, and land resources from the risks created by past chemical disposal practices such as abandoned and

historical hazardous waste sites. Through the act, the U.S. Environmental Protection Agency (EPA) was given power to seek out the parties responsible for any release and assure their cooperation in the cleanup. CERCLA created a tax on the chemical and petroleum industries that went to a trust fund for cleaning up abandoned or uncontrolled hazardous waste sites, commonly known as the Superfund. CERCLA also authorized the revision of the National Contingency Plan, which provided the guidelines and procedures needed to respond to releases and threatened releases of hazardous substances, pollutants, or contaminants. The National Contingency Plan also established the National Priority List of sites, which are known as Superfund sites.

Superfund Amendments and Reauthorization Act

The Superfund Amendments and Reauthorization Act (SARA) is intended primarily to address the emergency management of accidental releases, and to establish State and local emergency planning committees responsible for collecting hazardous material inventory, handling and transportation data. Specifically, under Title III of SARA, a nationwide emergency planning and response program established reporting requirements for businesses that store, handle or produce significant quantities of hazardous or acutely toxic substances as defined under federal laws. Title III of SARA also requires each state to implement a comprehensive system to inform federal authorities, local agencies and the public when significant quantities of hazardous or acutely toxic substances are stored or handled at a facility. These data are made available to the community at large under the “right-to-know” provision, with SARA also requiring annual reporting of continuous emissions and accidental releases of specified compounds.

Toxic Substances Control Act

The Toxic Substances Control Act of 1976 was enacted by Congress to give the U.S. EPA the ability to track over 75,000 industrial chemicals currently produced or imported into the United States. The U.S. EPA repeatedly screens these chemicals and can require reporting or testing of any that may pose an environmental or human health hazard. It can ban the manufacture and import of those chemicals that pose an unreasonable risk. The U.S. EPA also has mechanisms in place to track the thousands of new chemicals that industry develops each year with either unknown or dangerous characteristics and it control these chemicals as necessary to protect human health and the environment. The act supplements other federal statutes, including the CAA and the Toxics Release Inventory under Emergency Planning and Community Right-to-Know Act.

U.S. Department of Transportation Hazardous Materials Transport Act (49 USC 5101)

The United States Department of Transportation (USDOT), in conjunction with the United States Environmental Protection Agency (USEPA), is responsible for enforcement and implementation of federal laws and regulations pertaining to transportation of hazardous materials. The Hazardous Materials Transportation Act of 1974 directs the USDOT to establish criteria and regulations regarding the safe storage and transportation of hazardous materials. Code of Federal Regulations (CFR) 49, 171–180, regulates the transportation of hazardous materials, types of material defined as hazardous, and the marking of vehicles transporting hazardous materials.

2.2.2.2 State

California Division of Occupational Safety and Health

The California Division of Occupational Safety and Health (Cal/OSHA) is responsible for developing and enforcing workplace safety standards and assuring worker safety in the handling and use of hazardous materials. Among other requirements, Cal/OSHA requires many entities to prepare injury and illness prevention plans and chemical hygiene plans and provides specific regulations to limit exposure of construction workers to lead. Under Cal/OSHA, contractors are required to comply with handling and use requirements to increase worker safety and reduce the possibility of spills, and to prepare an emergency response plan to respond to accidental spills.

Government Code Section 65962.5, Cortese List

The provisions in Government Code Section 65962.5 are commonly referred to as the “Cortese List” (after the Legislator who authored and enacted the legislation). The list, or a project site’s presence on the list, has bearing on the local permitting process, as well as on compliance with CEQA. The comprehensive “Cortese List” includes the following facilities or sites:

- Hazardous waste and substances sites from Department of Toxic Substances Control’s (DTSC’s) EnviroStor database.
- Leaking UST (LUST) sites from State Water Resources Control Board’s (SWRCB’s) GeoTracker database.
- Solid-waste disposal sites identified by SWRCB with waste constituents above hazardous waste levels outside the waste management unit.
- “Active” Cease and Desist Orders and Cleanup and Abatement Orders sites from the SWRCB.
- Hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code, identified by DTSC.

California Fire Code

The California Fire Code, Article 80, includes specific requirements for the safe storage and handling of hazardous materials. These requirements reduce the potential for a release of hazardous materials and for mixing of incompatible chemicals, and specify the following design features to reduce the potential for a release of hazardous materials that could affect public health or the environment:

- Separation of incompatible materials with a noncombustible partition.
- Spill control in all storage, handling, and dispensing areas.
- Separate secondary containment for each chemical storage system.

The California Fire Code, Article 79, includes specific requirements for the safe storage and handling of flammable and combustible liquids. Specific requirements address fire protection; prevention and assessment of unauthorized discharges; labeling and signage; protection from sources of ignition; specifications for piping, valving, and fittings; maintenance of above-ground tanks; requirements for storage vessels, vaults, and overfill protection; and requirements for dispensing, using, mixing, and handling of flammable and combustible liquids.

Title 22 of the California Code of Regulations & Hazardous Waste Control Law, Chapter 6.5

Department of Toxic Substances Control (DTSC) is responsible for implementing the RCRA program as well as California's own hazardous waste laws, which are collectively known as the Hazardous Waste Control Law. Under the Certified Unified Program Agency (CUPA) program, California Environmental Protection Agency (CalEPA) has in turn delegated enforcement authority of State law to the County for regulating hazardous waste producers or generators. The DTSC regulates the generation, transportation, treatment, storage and disposal of hazardous waste under RCRA and the California Hazardous Waste Control Law. Like RCRA, Title 22 imposes "cradle to grave" regulatory systems for handling hazardous waste in a manner that protects human health and the environment. CalEPA has delegated some of its authority under the Hazardous Waste Control Law to county health departments and other CUPAs, including the DEH.

California Health and Safety Code

The CalEPA/DTSC has established rules governing the use of hazardous materials and the management of hazardous wastes. California Health and Safety Code Section 25531, et seq., incorporate the requirements of SARA and the federal CAA as they pertain to hazardous materials. Under the California Accidental Release Prevention Program (CalARP), California Health and Safety

Code Section 25531 to 25545.3), certain businesses that store or handle more than 500 pounds, 55 gallons or 200 cubic feet (for gases) of acutely hazardous materials at their facilities are required to develop and submit a Risk Management Plan (RMP) to the appropriate local authorities, the designated local administering agency and the USEPA for review and approval. The RMP is intended to satisfy federal "right-to-know" requirements and provide basic information to regulators and first responders, including identification/ quantification of regulated substances used or stored on site, operational and safety mechanisms in place (including employee training), potential on- and off-site consequences of a release and emergency response provisions.

Pursuant to California Health and Safety Code Chapter 6.11, CalEPA established the Unified Hazardous Waste and Hazardous Materials Management Regulatory Program (Unified Program), which consolidated a number of existing State programs related to hazards and hazardous materials. The Unified Program also allows the designation of Certified Unified Program Agencies (CUPAs) to implement associated State regulations within their jurisdiction. For businesses within the County, Hazardous Materials Business Plans (HMBPs) are submitted to and approved by the County of San Diego Hazardous Materials Division, which is the local CUPA as outlined below under County requirements.

California Human Health Screening Levels

The California Human Health Screening Levels (CHHSLs) are concentration thresholds established by CalEPA for 54 hazardous chemicals in soil or soil gas of concern for risks to human health. The CHHSLs were developed using standard exposure assumptions and chemical toxicity values published by the USEPA and CalEPA. The CHHSLs can be used to screen sites for potential human health concerns where releases of hazardous chemicals to soils have occurred. Under most circumstances, the presence of a chemical in soil, soil gas, or indoor air at concentrations below the corresponding CHHSL can be assumed to not pose a significant health risk to people who may live or work at the site.

2.2.2.3 Local

San Diego County Office of Emergency Services

The San Diego County Office of Emergency Services is the designated lead agency for emergency response within the County and coordinates the implementation of the San Diego County Emergency Operations Plan. The County of San Diego has instituted a regional notification system that will be able to send telephone notifications to residents and businesses within San Diego County impacted by, or in danger of being impacted by, an emergency or disaster. This system, called AlertSanDiego, will be used by emergency response personnel to notify those homes and businesses at risk with

information on the event and/or actions to take, such as evacuation (AlertSanDiego 2016).

Multi-Jurisdictional Hazard Mitigation Plan

The Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) is a countywide plan that identifies risks and ways to minimize damage by natural and manmade disasters. The MJHMP is a comprehensive resource document that serves many purposes, including enhancing public awareness, creating a decision tool for management, promoting compliance with state and federal program requirements, enhancing local policies for hazard mitigation capability, and providing inter-jurisdictional coordination. The MJHMP identifies goals and objectives for each of the 21 participating jurisdictions, including the City of San Diego. The following City of San Diego goals and objectives from the MJHMP are relevant to the proposed project.

> **Goal 1:** Promote public understanding, support, and demand for hazard mitigation.
>
> **Goal 2:** Improve hazard mitigation coordination and communication with federal, state, local, and tribal governments.
>
> **Objective 2.B:** Encourage other organizations to incorporate hazard mitigation activities.

City of San Diego General Plan

The City of San Diego General Plan Public Facilities, Services and Safety Element addresses facilities and services that are publicly managed and have a direct influence on the location of land uses, including fire-rescue, waste management, and disaster preparedness. The following policies from the Public Facilities, Services and Safety Element are relevant to the proposed project.

> **Policy PF-P.4:** Coordinate the development and implementation of a City business continuity plan to ensure the continuity of operations and government in the event of a major disaster or emergency.
>
> **Policy PF-P.6:** Coordinate citywide emergency management and disaster planning and response through the integration of key City departments into the preparedness and decision-making process.

2.2.3 Analysis of Project Effects and Determination as to Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in the City of San Diego's California Environmental Quality Act (CEQA) Significance Determination Thresholds (City of San Diego 2016).

Accordingly, a significant utilities and service systems impact would occur if the project would:

> Issue 1: Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including when wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands; or
>
> Issue 2: Result in hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within a quarter-mile of an existing or proposed school; or
>
> Issue 3: Impair implementation of, or physically interfere with an adopted emergency response plan or emergency evacuation plan; or
>
> Issue 4: Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, create a significant hazard to the public or environment; or
>
> Issue 5: Expose people to toxic substances, such as pesticides and herbicides, some of which have long-lasting ability, applied to the soil during previous agricultural uses; or
>
> Issue 6: Result in a safety hazard for people residing or working in a designated airport influence area; or
>
> Issue 7: Result in a safety hazard for people residing or working within two miles of a private airstrip or a private airport or heliport facility that is not covered by an adopted Airport Land Use Compatibility Plan.

2.2.3.1 Wildland Fires

Issue 1: Would the project expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including when wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

Impact Analysis

Community Plan Amendment and Rezone

The project includes an amendment to the CMCP and a rezone of the project site that would allow for a residential development with a maximum of 404 units. According to CALFIRE, the project site is not within a very high fire hazard severity zone (CALFIRE 2009). The project site itself is developed with the vacant Crime Lab facility and is immediately surrounded by existing development. The future development would be required to be developed consistent with the California Fire Code, as adopted by the City, and would be

constructed with a protective system of sprinklers and fire hydrant services. As detailed in Chapter 1.0, Project Description, the future development would include three potential access options. All driveways would be constructed per the City Fire Marshal's Standards and would provide adequate access throughout the project site for emergency responders. As the future development would be required to demonstrate consistency with all applicable California Fire Code regulations and would be reviewed by the City Fire Code Official prior to permit issuance, impacts regarding risk of loss, injury, or death involving wildland fires would be less than significant.

Site Demolition and Preparation

In addition to the amendments to the CMCP and rezone, the proposed project also includes the demolition of the existing unoccupied buildings and related facilities on-site, disposal of the demolition debris, mass grading of the site, and existing utilities stubbed out to the project site boundary. As previously stated, the project site is not within a very high fire hazard severity zone (CALFIRE 2009). Demolition and site preparation activities would be required to adhere to all state and local construction standards, including Cal/OSHA and the California Fire Code. Therefore, impacts related to risk of loss, injury, or death involving wildland fires would be less than significant.

2.2.3.2 Hazards Near Schools

Issue 2: Would the project result in hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within a quarter-mile of an existing or proposed school?

Impact Analysis

Community Plan Amendment and Rezone

The closest school to the project site is Mount Everest Academy, an independent study K through 12 school located approximately 0.1 mile to the west of the project site. The project includes amendments to the CMCP and a rezone of the project site that would allow for a future residential development. Construction of the future residential development would likely involve the transport, storage, use, and disposal of small amounts of hazardous materials, including fuels (e.g., gasoline, diesel), hydraulic fluids, oils, lubricants, paint, and other similarly related materials in varying quantities on the project site. Operation of the future development would include the storage, use, and disposal of a variety of commonly used hazardous chemicals, such as toners, lubricants, and kitchen and restroom cleaners as well as relatively small quantities of fuels, oils, and other petroleum-based products. While the project site is located within one-quarter mile of a school, the anticipated use, transport, and disposal of

hazardous materials during construction and operation would be in relatively small quantities commonly associated with typical home, landscaping, and commercial uses. The use of these hazardous materials would typically be sporadic in frequency and localized, with limited exposure such that there would be no substantive emissions of hazardous materials that would adversely affect students or staff. In addition, the proposed project would be required to comply with all applicable federal, state, and local regulations and guidelines for storing and handling hazardous materials. Therefore, impacts related to exposure of schools to hazardous materials would be less than significant. The potential for hazardous emissions exposure during construction of the future residential development is addressed in Section 2.1, Air Quality, of this EIR.

Site Demolition and Preparation

The proposed project includes the demolition of the existing unoccupied buildings and related facilities on-site, disposal of the demolition debris, mass grading of the site, and existing utilities stubbed out to the project site boundary. As detailed in Chapter 1.0, Project Description, the proposed site demolition and preparation would include the removal of the existing 4,000-gallon UST. Any required soil remediation would be completed following demolition activities, in compliance with applicable federal, state, and local regulations. A portion of the existing single-story building on the western portion of the site was constructed in 1964. Asbestos and lead materials were phased out in the mid to late 1970s, and therefore, due to the age of the existing building, asbestos and lead materials could be present in the structure. As detailed in Chapter 1.0, Project Description, demolition of the existing structure would require administrative approvals, including but not limited to a Debris Management Plan, Haul Route Plan, Asbestos Abatement Plan, and Lead Hazards Notification. Due to removal of the UST and potential to encounter contaminated media, including asbestos and lead materials, the proposed project would result in a potentially significant impact related to handling hazardous materials within a quarter-mile of a school (**Impact HAZ-1**). In accordance with the Phase I ESA (Appendix G), **Mitigation Measure HAZ-1,** detailed below, would be required, ensuring that handled hazardous materials during construction would not adversely affect nearby students or staff. The potential for hazardous emissions exposure during site demolition and preparation is addressed in Section 2.1, Air Quality, of this EIR.

2.2.3.3 Emergency Plans

Issue 3: Would the project impair implementation of, or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Impact Analysis

Community Plan Amendment and Rezone

The project site is located in a developed area with existing access to major roads that provide routes for emergency evacuation. Primary evacuation routes consist of the major interstates, highways, and prime arterials within the City. The project site is served by the San Diego Police Department (SDPD) and San Diego Fire-Rescue Department (SDFD). As further detailed within Section 3.6, Public Services, of this EIR, SDPD and SDFD would continue to serve the project site under the proposed project. The future development would be required to meet all requirements for access and ingress/egress of emergency vehicles, in accordance with the California Fire Code and City Municipal Code requirements. However, construction of the future development could include driveway reconfiguration, which could require lane closures and interfere with emergency response services and evacuation routes. Therefore, due to the potential for lane closures, the proposed project would result in a potentially significant impact related to interfering, even temporarily, with emergency access (**Impact HAZ-2**), and **Mitigation Measure HAZ-2**, detailed below, would be required.

Site Demolition and Preparation

The proposed project would include demolition of existing buildings and site preparation. These activities would not require lane closures, and is not anticipated to interfere, even temporarily, with emergency access. As previously stated, SDPD and SDFD would continue to serve the project site during site demolition and preparation. Therefore, the proposed project would not impair implementation of, or physically interfere with, the City's emergency evacuation plan, and impacts would be less than significant.

2.2.3.4 Hazardous Sites

Issue 4: Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section

65962.5 and, as a result, create a significant hazard to the public or environment?

Impact Analysis

Community Plan Amendment and Rezone

A project-specific Phase I ESA was prepared for the project site (Appendix G). As discussed above in Section 2.2.1.2, the project site was identified on several environmental databases searched due to previous uses on the project site. The project site was first occupied by the Clairemont Hospital, which was listed in the databases searched, but no other information on hazardous materials was provided. From 1980 to 2018, the project site was occupied by the Crime Lab facility. According to the database search, the facility has a closed unauthorized release case associated with a diesel fuel release that impacted soil only. The case was opened in September 1991 and closed in May 1995. In addition, DEH documentation shows that a 1,000-gallon diesel UST and associated contaminated soil was removed from the project site in 1991. A 500-gallon UST was removed in 1992 and replaced with a 4,000-gallon diesel UST. This 4,000-gallon UST currently remains on the project site. During UST testing, no failed tests were found or other evidence of release. The Phase I ESA found no evidence of any existing recognized environmental conditions in connection with the project site.

Off-site properties were also evaluated in the Phase I ESA, which appeared on various regulatory agency databases. Neighboring properties were not considered to be environmental concerns to the project site due to the distance and orientation between the off-site properties and the project site, direction of groundwater flow, and the case status. Future development of the project site would require compliance with all applicable federal, state, and local standards related to hazardous materials sites. Therefore, future development of the project site would result in a less than significant impact related to being located on a site which is included on a list of hazardous materials sites.

Site Demolition and Preparation

As previously detailed, the project site was identified on several environmental databases searched due to previous uses on the project site, including the Clairemont Hospital and Crime Lab facility. As detailed in Chapter 1.0, Project Description, the proposed site demolition and preparation would include the removal of the existing 4,000-gallon UST. Any required soil remediation would be completed following demolition activities, in compliance with applicable federal, state, and local regulations. However, since the project site is listed on several database searches and includes areas of known previous contamination, grading and other soil disturbance activities could encounter contaminated media or other

unknown contamination or hazards. Therefore, due to removal of the UST and potential to encounter contaminated media, the proposed project would result in a potentially significant impact related to being located on a site which is included on a list of hazardous materials site compiled pursuant to Government Code Section 65962.5 (**Impact HAZ-3**). In accordance with the Phase I ESA (Appendix G), **Mitigation Measure HAZ-1,** detailed below, ould be required.

2.2.3.5 Pesticides and Herbicides

Issue 5: Would the project expose people to toxic substances, such as pesticides and herbicides, some of which have long-lasting ability, applied to the soil during previous agricultural uses?

Impact Analysis

Community Plan Amendment and Rezone and Site Demolition and Preparation

As detailed above in Section 2.2.1.1, according to the project-specific Phase I ESA, historical aerial photographs of the project site date back to 1903. From 1903 until 1964, the project site was vacant and undeveloped until a portion of the present-day single-story building on the western portion of the site was constructed. In 1975 an addition was added to the southeastern portion of the single-story building at the project site, and in the mid-1990s the project site was constructed in its current configuration with an attached garage and two-story warehouse. No history of agricultural use is documented on the project site. Therefore, the proposed project would not expose people to toxic substances, such as pesticides and herbicides applied to the soil during previous agricultural uses, and no impact would occur.

2.2.3.6 Airport Influence Area

Issue 6: Would the project result in a safety hazard for people residing or working in a designated airport influence area?

Issue 7: Would the project result in a safety hazard for people residing or working within two miles of a private airstrip or a private airport or heliport facility that is not covered by an adopted Airport Land Use Compatibility Plan?

Impact Analysis

Community Plan Amendment and Rezone and Site Demolition and Preparation

As detailed above in Section 2.2.1.3, the nearest public airport is Montgomery Field Airport, located approximately 2 miles east of the project site. The nearest private airstrip is the MCAS Miramar, located approximately 2.9 miles northeast of the project site. According to the Montgomery Field ALUCP and the MCAS

Miramar ALUCP, the project site is not within any safety zones for either airport (ALUC 2010; ALUC 2008). However, the project site is located within Montgomery Field and MCAS Miramar's Airport Influence Area denoted as Review Area 2 (ALUC 2010; ALUC 2008). For both airports, Review Area 2 would not require any ALUC review, nor is it subject to any noise or safety zone standards. However, the future development would be required to have a determination of no hazard to air navigation from the FAA prior to issuance of a building permit by the City of San Diego. Compliance with FAA regulations would be required, therefore, impacts regarding safety hazards for people residing or working in the vicinity of a public or private airport would be less than significant.

2.2.4 Cumulative Impact Analysis

The cumulative context for hazardous materials consists of the areas that could be affected by proposed project activities as well as areas affected by other cumulative projects whose activities could directly or indirectly affect the activities on the surrounding area.

Future cumulative development could require the use, transport, storage, and disposal of hazardous materials. However, hazardous materials releases tend to be largely limited in geographic extent to the project site and cumulative impacts would only occur at adjacent sites. In addition, all cumulative projects would be required to comply with all relevant and applicable federal, state, and local laws and regulations that pertain to the transport, storage, and disposal of hazardous materials and waste. Impacts to related school sites, listing on a hazardous materials site, surrounding airports, and wildland fires are site-specific and not cumulative in nature because impacts related to individual projects would be site specific and not additive. Potential risks identified for the proposed project or on cumulative project sites would not affect potential risks elsewhere in the project area. Therefore, the proposed project would not be cumulatively considerable, and impacts would be less than significant.

A cumulative impact related to emergency evacuation plans would occur if development on the project site and surrounding developments would not provide adequate access to regional evacuation routes. As discussed above, the proposed project would not interfere with the implementation of any regional response to evacuation plans. Demolition activities and construction of the future development would not require road closures, or affect any of the existing road networks surrounding the project site. Therefore, the proposed project would not be cumulatively considerable, and impacts would be less than significant.

2.2.5 Significance of Impacts Prior to Mitigation

The following significant impacts related to hazards and hazardous materials would occur with project implementation:

Impact HAZ-1: Due to removal of the UST and potential to encounter contaminated media, including asbestos and lead materials, the proposed project would handle hazardous materials within a quarter-mile of a school.

Impact HAZ-2: Due to the potential for lane closures during construction of the future development, the proposed project could temporarily interfere with emergency access.

Impact HAZ-3: The project site is listed on several database searches pursuant to Government Code Section 65962.5 and includes areas of known previous contamination. Grading and other soil disturbance activities could encounter contaminated media or other unknown contamination or hazards.

2.2.6 Mitigation

HAZ-1: Soil Contamination, Lead, and Asbestos Recommendations. Demolition of the existing building and construction of the future development shall follow the findings and recommendations of the Phase I ESA, including:

- In future development of the project site, preparation and implementation of a soil management plan shall be used during construction activities near areas of known contamination. Where contamination is known or suspected, and where grading or other soil disturbance activities could encounter contaminated media, undocumented USTs, or other unknown contamination or hazards, implementation of a soil management plan provides protocols to address hazardous conditions, if encountered, in accordance with local, state, and federal regulations.
- Soil sampling shall be performed at the time of the UST removal to evaluate whether an unauthorized release has occurred.
- A worker health and safety plan shall be prepared and implemented.
- Asbestos-containing materials and lead-based paint shall be evaluated prior to razing of the site building.

HAZ-2: Traffic Control Plan. Prior to the start of construction of the future development, the construction contractor shall prepare a Traffic

Control Plan to the satisfaction of the City Engineer. The Traffic Control Plan shall show all signage, striping, delineated detours, flagging operations, and any other devices that will be used during construction to guide motorists, pedestrians, and bicyclists through the construction area and allow for adequate access and circulation to the satisfaction of the City Engineer. The Traffic Control Plan shall be prepared in accordance with the City's traffic control guidelines and shall be prepared to ensure that emergency access will be continuously provided.

2.2.7 Conclusion

The proposed project would not result in impacts related to risk of loss, injury, or death involving wildland fires. In addition, the project site has no history of previous agricultural uses, and no impact would occur related to exposing people to toxic substances such as pesticides and herbicides. Compliance with FAA regulations would be required, therefore, impacts regarding safety hazards for people residing or working in the vicinity of a public or private airport would be less than significant.

Due to removal of the existing UST and potential to encounter contaminated media, including asbestos and lead materials, the proposed project would result in a potentially significant impact related to handling hazardous materials within 0.25 miles of a school (**Impact HAZ-1**). In addition, since the project site is listed on several database searches and includes areas of known previous contamination, grading and other soil disturbance activities could encounter contaminated media or other unknown contamination or hazards. Therefore, due to removal of the UST and potential to encounter contaminated media, the proposed project would result in a potentially significant impact related to being located on a site which is included on a list of hazardous materials site compiled pursuant to Government Code Section 65962.5 (**Impact HAZ-3**). However, with implementation of **Mitigation Measure HAZ-1**, demolition of the existing building and construction of the future development would implement recommendations of the Phase I ESA, and impacts would be reduced to less than significant.

Construction of the future development could include driveway reconfiguration, which could require lane closures and interfere with emergency response services and evacuation routes. Due to the potential for lane closures during construction of the future development, the proposed project could temporarily interfere with emergency access (**Impact HAZ-2**). However, with implementation of **Mitigation Measure HAZ-2**, a Traffic Control Plan would be required to be prepared and implemented.

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2.3 Noise and Vibration

This section characterizes the ambient noise environment and identifies potential noise and vibration impacts associated with implementation of the proposed project, particularly on any nearby sensitive receptors. The analyses in this section are based on existing conditions, applicable policies, as well as the noise modeling conducted for the project, which is included in Appendix H of this EIR.

Comments related to noise and vibration received during the public comment period for the Notice of Preparation (NOP) included concerns regarding increased ambient noise levels during construction and operation of the project and that the future residential building allowed by the project would generate noise that would interfere with rights for quiet enjoyment within the community of Clairemont Mesa. These concerns have been considered and addressed, as applicable, in the following evaluation of the project's potential to result in noise and vibration impacts. The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

2.3.1 Existing Conditions

Noise is generally defined as unwanted sound (i.e., loud, unexpected, or annoying sound). Sound is measured in decibels (dB), on a logarithmic scale ranging from 0 dB corresponding roughly to the threshold of human hearing to 120 to 140 dB corresponding to the threshold of pain. Further, the typical human ear is not equally sensitive to all frequencies of the audible sound spectrum, and as such dB levels are weighted to the human ear's decreased sensitivity to extremely low and extremely high frequencies, expressed as A-weighted decibels (dBA). Noise exposure is a measure of noise over a period of time; a noise level is a measure of noise at a given instant in time. The maximum, instantaneous noise level experienced during a given period of time is expressed as L_{max}. The equivalent sound level (L_{eq}) is used to describe noise over a specified period of time (typically 1-hour), which may also be referred to as the average sound level. The Community Noise Equivalent Level (CNEL) is the average A-weighted noise level during a 24-hour day adjusted with penalties for evening and nighttime noise. Noise attenuates with distance at a rate of – 6 dBA per doubling of distance for stationary point sources (typically including construction noise sources) and – 3 dBA per doubling of distance for mobile line sources (e.g., vehicle traffic on roadways).

The project site is located in the City of San Diego, within the Clairemont Mesa community. The project site is near the intersection of two major roads, Balboa Avenue and Genesee Avenue, and approximately 1.22 miles west of Interstate 805 (I-805), approximately 2.10 miles northeast of I-5, and approximately 1.78 miles south of Highway 52. The project site is currently unoccupied and contains the former San Diego County Regional Crime Lab (Crime Lab) building, with a

surface parking lot previously used for employee parking adjacent to the project site to the west. Areas surrounding the project site are mostly developed with residential, commercial and office uses. The project site is bounded by Mount Etna Drive and single-family residential to the north; commercial development and Genesee Avenue to the east; commercial development, Balboa Avenue, and multi-family residential to the south; and SDG&E surface parking with transmission towers with overhead power lines and single-family residences fronting Mount Castle Avenue, to the west.

The primary existing noise source in the project area is vehicle traffic noise from surrounding and nearby roadways. The nearest airport to the project site is Montgomery Field Airport, approximately 2 miles east of the project site, and Marine Corps Air Station (MCAS) Miramar, approximately 2.9 miles northeast of the project site. Secondary noise sources including activity at adjacent residences; general commercial activities including loading dock/delivery truck activities trash truck pickups, commercial and residential air-conditioning units; and landscape activities.

The existing residences to the west and south of the project site are considered noise-sensitive land uses (NSLU), which are land uses associated with indoor and/or outdoor activities that may be subject to stress and/or significant interference from noise, such as residential dwellings, mobile homes, hotels, motels, hospitals, nursing homes, educational facilities, and libraries. Mount Everest Academy is located approximately 550 feet west of the project site. Industrial and commercial land uses are generally not considered sensitive to noise.

To characterize the existing noise environment at noise sensitive receptors near the project site, one long-term (LT) and four short-term (ST) (15-minute) ambient noise level measurements were conducted at various locations surrounding the project site, as shown in **Figure 2.3-1**. A 15-minute measurement is a reasonable duration for sampling ambient noise levels where vehicle traffic is the dominant source, as traffic noise generally does not vary significantly within an hour. Ambient sound measurements were conducted on Monday and Tuesday, August 5 and 6, 2019 at the following locations:

- LT-1: At the western edge of the SDG&E easement west of the project site and approximately 10 feet east of the 6-foot-high privacy wall of the backyard of single-family residences, approximately 270 feet south of Mount Etna Drive, approximately 150 feet west of the project site.
- ST-1: At the single-family residence along Mount Etna Drive, approximately 100 feet east of the intersection with Mount Castle Avenue, approximately 150 feet northwest of the project site.

- ST-2: At single-family residences along Mount Castle Avenue, approximately 340 feet south of Mount Etna Drive, approximately 320 feet west of the project site.
- ST-3: On the northwestern edge of the commercial parking lot southwest of the project site and approximately 10 feet east of the 6-foot-high privacy wall of the backyard of single-family residences, approximately 500 feet south of Mount Etna Drive, approximately 175 feet southwest of the project site.
- ST-4: At the multi-family residences along the southern side of Balboa Avenue, approximately 500 feet west of its intersection with Genesee Avenue, approximately 450 feet south of the project site.

The results of the short-term and long-term ambient sound measurements are summarized in **Table 2.3-1** and **Table 2.3-2**, respectively. As shown in Table 2.3-1, the measured noise levels ranged from 53.2 dBA L_{eq} at ST2 to 65.7 dBA L_{eq} at ST4, in which the primary noise source was vehicle traffic along the roadways surrounding the project site (Balboa Avenue, Genesee Avenue, and Mount Etna Drive).

Table 2.3-1
Short-Term Measurement Summary

Measurement Locations	Date	Time	Measured Level (Leq (1), dBA)	Primary Noise Sources
ST1	8/6/2019	14:19-14:34	56.9	Vehicle traffic
ST2	8/6/2019	14:38-14:53	53.2	Vehicle traffic
ST3	8/6/2019	14:59-15:14	58.5	Vehicle traffic
ST4	8/6/2019	15:21-15:36	65.7	Vehicle traffic

SOURCE: ESA 2019 (Appendix H)

Table 2.3-2
Long-Term Measurement Summary

Measurement Locations	Start Date and Time	End Date and Time	Measured Level (Leq (24), dBA)
LT1	8/5/2019 14:42	8/6/2019 16:00	50.9

SOURCE: ESA 2019 (Appendix H)

Vibration can be interpreted as energy transmitted in waves through the ground or man-made structures. These energy waves generally dissipate with distance from the vibration source mostly due to geometric spreading. In contrast to noise, ground-borne vibration is not a common environmental problem. Some common sources of ground-borne vibration are trains, heavy trucks on rough roads, and construction activities, such as blasting, pile-driving, and operation of heavy earth-moving equipment.

There are several different methods that are used to quantify vibration. The peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal. The PPV is most frequently used to describe vibration impacts to buildings; i.e., structural damage. The root mean square (RMS) amplitude is most frequently used to describe the effect of vibration on the human body; i.e., perception and annoyance. The RMS amplitude is defined as the average of the squared amplitude of the signal. Decibel notation (VdB) is commonly used to measure RMS vibrational motion. The relationship of PPV to RMS velocity is expressed in terms of the “crest factor,” defined as the ratio of the PPV amplitude to the RMS amplitude. PPV is typically a factor of 1.7 to 6 times greater than RMS vibration velocity (Ibid). The decibel notation acts to compress the range of numbers required to describe vibration. Typically, ground-borne vibration generated by man-made activities attenuates rapidly with distance from the source of the vibration.

Sensitive receptors for vibration include structures (especially older masonry structures), people, and vibration sensitive equipment. The effects of ground-borne vibration include movement of the building floors, rattling of windows, shaking of items on shelves or hanging on walls, and rumbling sounds. In extreme cases, the vibration can cause structural damage to buildings, however, is not a factor for most projects, with the occasional exception of blasting and pile-driving during construction. Human annoyance from vibration often occurs when the vibration levels exceed the threshold of human perception by only a small margin, which would be well below the structural damage threshold for normal buildings.

2.3.2 Regulatory Setting

2.3.2.1 Federal

Federal Transit Administration

Although the FTA standards are intended for federally funded mass transit projects, the impact assessment procedures and criteria included in the FTA Transit Noise and Vibration Impact Assessment Manual (May 2018) are routinely used for projects proposed by local jurisdictions, including the County and City of San Diego. The potential for vibration damage can vary depending on the

building category of the nearest buildings to the potential construction area. For example, for a building that is constructed with reinforced concrete with no plaster, the FTA guidelines show that a vibration level of up to 0.5 inch per second (in/sec) peak particle velocity (PPV) is considered safe and would not result in any construction vibration damage. For a non-engineered timber and masonry building, the construction vibration damage criterion is 0.2 in/sec PPV.

2.3.2.2 State

California Noise Control Act

Sections 46000-46080 of the California Health and Safety Code find that excessive noise is a serious hazard to the public health and welfare and that exposure to certain levels of noise can result in physiological, psychological, and economic damage. It also finds that there is a continuous and increasing bombardment of noise in the urban, suburban, and rural areas. The California Noise Control Act declares that the State of California has a responsibility to protect the health and welfare of its citizens by the control, prevention, and abatement of noise. It is the policy of the State to provide an environment for all Californians free from noise that jeopardizes their health or welfare.

California Code of Regulations

Interior noise levels for habitable rooms are regulated by Title 24 of the California Code of Regulations (CCR), California Noise Insulation Standards. Title 24, Chapter 12, Section 1207.4, of the California Building Code (CBC) requires that interior noise levels attributable to exterior sources not exceed 45 CNEL in any habitable room within a residential structure. A habitable room is a room used for living, sleeping, eating, or cooking. Bathrooms, closets, hallways, utility spaces, and similar areas are not considered habitable rooms for this regulation (24 CCR 1207 2016).

For nonresidential structures, Title 24, Chapter 12, Section 1207.5 refers to 2016 California Green Building Standards (CALGreen), Chapter 5 – Nonresidential Mandatory Measures, Division 5.5 – Environmental Quality, Section 5.507 – Environmental Comfort, Subsection 5.507.4 – Acoustical Control. Pursuant to these standards, all nonresidential building construction shall employ building assemblies and components that achieve a composite sound transmission class rating of at least 50 or shall otherwise demonstrate that exterior noise shall not result in interior noise environment where noise levels exceed 50 A-weighted equivalent decibels (dB(A) L_{EQ}) in occupied areas during any hour of operation (24 CCR 1207.5 2016).

California Department of Health Services

The State of California does not have statewide standards for environmental noise, but the California Department of Health Services (DHS) has established guidelines for evaluating the compatibility of various land uses as a function of community noise exposure. The purpose of these guidelines is to maintain acceptable noise levels in a community setting for different land use types. Noise compatibility by different land use types is categorized into four general levels: "normally acceptable," "conditionally acceptable," "normally unacceptable," and "clearly unacceptable." For instance, a noise environment ranging from 50 dBA to 65 dBA CNEL is considered to be "normally acceptable" for multi-family residential uses, while a noise environment of 75 dBA CNEL or above is considered to be "clearly unacceptable" for multi-family residential uses.

In addition, California Government Code Section 65302(f) requires each county and city in the state to prepare and adopt a comprehensive long-range general plan for its physical development, with Section 65302(g) requiring a noise element to be included in its general plan. The noise element must: identify and appraise noise problems in the community; recognize Office of Noise Control guidelines; and analyze and quantify current and projected noise levels.

The state has also established noise insulation standards for new multi-family residential units, hotels, and motels that would be subject to relatively high levels of transportation-related noise. These requirements are collectively known as the California Noise Insulation Standards (Title 24, California Code of Regulations). The noise insulation standards set forth an interior standard of 45 dBA CNEL in any habitable room. Where such units are proposed in areas subject to exterior noise levels greater than 60 dBA CNEL, the standards require an acoustical analysis demonstrating how dwelling units have been designed to meet the interior standard. Title 24 standards are typically enforced by local jurisdictions through the building permit application process.

California Department of Transportation

While there are no state or California Department of Transportation (Caltrans) regulatory vibration standards, the *Caltrans Transportation and Construction Vibration Guidance Manual* (Caltrans 2013) provides guidance and procedures that "should be treated as screening tools for assessing the potential for adverse vibration effects related to human perception, structural damage, and equipment. This document is not an official policy, standard, specification, or regulation, and should not be used as such." The Caltrans vibration criteria for assessing structural damage and human perception are shown in **Table 2.3-3** and **Table 2.3-4***,* respectively (Caltrans 2013).

Table 2.3-3
Caltrans Vibration Structural Damage Potential Criteria

Structure and Condition	Maximum PPV (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Extremely fragile historic buildings, ruins, ancient monuments	0.12	0.08
Fragile buildings	0.2	0.1
Historic and some old buildings	0.5	0.25
Older residential structures	0.5	0.3
New residential structures	1.0	0.5
Modern industrial/commercial buildings	2.0	0.5

NOTE: Transient sources create a single isolated vibration event, such as blasting or drop balls. Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.

SOURCE: Caltrans 2013.

Table 2.3-4
Caltrans Vibration Perception Potential Criteria

Structure and Condition	Maximum PPV (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Barely perceptible	0.04	0.01
Distinctly perceptible	0.25	0.04
Strongly perceptible	0.9	0.10
Severe	2.0	0.4

NOTE: Transient sources create a single isolated vibration event, such as blasting or drop balls. Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.

SOURCE: Caltrans 2013.

2.3.2.3 Local

City of San Diego General Plan

The Noise Element of the City's General Plan provides goals and policies to guide compatible land uses and incorporate of noise attenuation measures for

new uses, which was amended by the City's 2015 General Plan Amendments (City of San Diego 2015). The overall goal of the Noise Element is controlling noise to acceptable levels at its source. However, when this is not feasible, the City applies additional measures to limit the effect of noise on future land uses, which include spatial separation, site planning, and building design techniques that address noise exposure and the insulation of buildings to reduce interior noise levels.

Specific policies of the Noise Element applicable to the project include noise and land use compatibility; motor vehicle traffic noise; commercial and mixed-use activity noise; construction, refuse vehicles, parking lot sweepers, and public activity noise, and noise attenuating measures.

NE-A.1. Separate excessive noise-generating uses from residential and other noise-sensitive land uses with a sufficient spatial buffer of less sensitive uses.

NE-A.2. Assure the appropriateness of proposed developments relative to existing and future noise levels by consulting the guidelines for noise-compatible land use (shown on Table 3.10-6) to minimize the effects on noise-sensitive land uses.

NE-A.3. Limit future residential and other noise-sensitive land uses in areas exposed to high levels of noise.

NE-A.4. Require an acoustical study consistent with acoustical study guidelines or proposed developments in areas where the existing or future noise level exceeds or would exceed the "compatible" noise level thresholds as indicated on the Land Use - Noise Compatibility Guidelines, so that noise mitigation measures can be included in the project design to meet the noise guidelines.

NE-B.1. Encourage noise-compatible land uses and site planning adjoining existing and future highways and freeways.

NE-B.3. Require noise reducing site design, and/or traffic control measures for new development in areas of high noise to ensure that the mitigated levels meet acceptable decibel limits.

NE-B.4. Require new development to provide facilities which support the use of alternative transportation modes such as walking, bicycling, carpooling and, where applicable, transit to reduce peak-hour traffic.

NE-B.7. Promote the use of berms, landscaping, setbacks, and architectural design where appropriate and effective, rather than conventional wall barriers to enhance aesthetics.

NE-E.1. Encourage the design and construction of commercial and mixed-use structures with noise attenuation methods to minimize excessive noise to residential and other noise-sensitive land uses.

NE-E.2. Encourage mixed-use developments to locate loading areas, parking lots, driveways, trash enclosures, mechanical equipment, and other noisier components away from the residential component of the development.

NE-E.3. Encourage daytime truck deliveries to commercial uses abutting residential uses and other noise-sensitive land uses to minimize excessive nighttime noise unless there is no feasible alternative or there are overriding transportation benefits by scheduling deliveries at other hours.

NE-E.4. Encourage commercial/entertainment uses to utilize operational measures that minimize excessive noise where it affects abutting residential and other noise-sensitive uses.

NE-E.5. Implement night and daytime on-site noise level limits to address noise generated by commercial uses where it affects abutting residential and other noise-sensitive uses.

NE-E.6. Encourage disclosure of potential noise problems for mixed-use and residential developments adjacent to commercial/entertainment uses at the time of sale.

NE-G.1. Implement limits on the hours of operation for non-emergency construction and refuse vehicle and parking lot sweeper activity in residential areas and areas abutting residential areas.

NE-G.2. Implement limits on excessive public noises that a person could reasonably consider disturbing and/or annoying in residential areas and areas abutting residential areas.

NE-I.1. Require noise attenuation measures to reduce the noise to an acceptable noise level for proposed developments to ensure an acceptable interior noise level, as appropriate, in accordance with California's noise insulation standards (CCR Title 24).

NE-I.2. Apply CCR Title 24 noise attenuation measures requirements to reduce the noise to an acceptable noise level for proposed single-family, mobile homes, senior housing, and all other types of residential uses not addressed by CCR Title 24 to ensure an acceptable interior noise level, as appropriate.

NE-I.3. Consider noise attenuation measures and techniques addressed by the Noise Element, as well as other feasible attenuation measures not addressed as potential mitigation measures, to reduce the effect of noise on future residential and other noise-sensitive land uses to an acceptable noise level.

Land use and noise compatibility guidelines are provided for proposed land use development projects. **Table 2.3-5** specifies land use compatibility and exterior/interior noise standards for the land uses included in the project. As

shown in Table 2.3-5, multiple dwelling units are “compatible” with exterior noise levels up to 60 dBA CNEL, and “conditionally compatible” in areas with exterior noise levels of 60 to 70 dBA CNEL, provided that the building structure attenuates interior noise levels to 45 dBA CNEL.

Table 2.3-5
Land Use and Noise Compatibility Guidelines

Land Use Category	Exterior Noise Exposure (dBA CNEL) 60	65	70	75
Residential - Multiple Dwelling Units		45	45	
Institutional – Educational facilities other than Kindergarten through Grade 12 educational facilities		45	45	
Retail/Commercial/Offices			50	50

	Compatible	Indoor Uses	Standard construction methods should attenuate exterior noise to an acceptable indoor noise level.
		Outdoor Uses	Activities associated with the land use may be carried out.
	Conditionally Compatible	Indoor Uses	Building structure must attenuate exterior noise to the indoor noise level indicated by the number (45 or 50) for occupied areas.
		Outdoor Uses	Feasible noise mitigation techniques should be analyzed and incorporated to make the outdoor activities acceptable.
	Incompatible	Indoor Uses	New construction should not be undertaken.
		Outdoor Uses	Severe noise interference makes outdoor activities unacceptable.

SOURCE: City of San Diego 2015.

The City assumes that standard construction techniques would provide a 15 dB reduction of exterior noise levels to an interior receiver (City of San Diego [2008] 2015). With these criteria, standard construction could be assumed to result in interior noise levels of 45 dBA CNEL or less when exterior sources are 60 dBA CNEL or less. When exterior noise levels are greater than 60 dBA CNEL, and the interior threshold is 45 dBA CNEL, consideration of specific construction techniques is required.

The City of San Diego does not address vibration in the Noise Element of the General Plan.

City of San Diego Noise Ordinance

Section 59.5.0401 (Noise Ordinance) of the San Diego Municipal Code (SDMC) prohibits noise exceeding the applicable 1-hour average sound level limits for various land uses in the city on or beyond the boundaries of a property on which the noise is produced. **Table 2.3-6** presents the applicable noise limits.

Table 2.3-6
City of San Diego Applicable Noise Limits

Land Use	One-Hour Average Sound Level (dB)		
	7 a.m. to 7 p.m.	7 p.m. to 10 p.m.	10 p.m. to 7 a.m.
Single Family Residential	50	45	40
Multi-Family Residential (Up to a maximum density of 1/2000)	55	50	45
All other Residential	60	55	50
Commercial	65	60	60
Industrial or Agricultural	75	75	75

SOURCE: City of San Diego 2019.

Section 59.5.0404(a) states that it shall be unlawful for any person, between the hours of 7:00 p.m. of any day and 7:00 a.m. of the following day, or on legal holidays as specified in Section 21.04 of the SDMC, with exception of Columbus Day and Washington's Birthday, or on Sundays, to erect, construct, demolish, excavate for, alter, or repair any building or structure in such a manner as to create disturbing, excessive, or offensive noise unless a permit has been applied for and granted beforehand by the Noise Abatement and Control Administrator.

Additionally, Section 59.5.404(b) states that it shall be unlawful for any person, including the City of San Diego, to conduct any construction activity so as to cause, at or beyond the property lines of any property zoned residential, an average sound level greater than 75 decibels during the 12-hour period from 7 a.m. to 7 p.m.

The City of San Diego does not address vibration in its Municipal Code.

City of San Diego Significance Determination Thresholds

The City's CEQA Significance Determination Thresholds outline the criteria and thresholds used to determine whether project impacts are significant (City of San Diego 2016). Thresholds applicable to the project include traffic noise, stationary

noise generators, sensitive wildlife, construction noise, and noise/land use compatibility, which have been used in this analysis for identifying significant noise impacts applicable to the project.

Traffic Noise Significance Thresholds are provided for structures affected by traffic noise to determine interior and exterior noise impacts from traffic-generated noise in the City's Table K-2 (City of San Diego 2016), as shown in **Table 2.3-7**.

Table 2.3-7
Traffic Noise Significance Thresholds (dBA CNEL)

Structure of Proposed Use That Would Be Impacted by Traffic Noise	Interior Space	Exterior Usable Space[a]	General Indication of Potential Significance
Single-family detached	45 dB	65 dB	Structure or outdoor usable area[b] is <50 feet from the center of the closest (outside) lane on a street with existing or future ADTs >7,500
Multi-family, school, library, hospital, day care center, hotel, motel, park, convalescent home	Development Services Department (DSD) ensures 45 dB pursuant to Title 24	65 dB	
Office, church, business, professional uses	n/a	70 dB	Structure or outdoor usable area is <50 feet from the center of the closest lane on a street with existing or future ADTs >20,000
Commercial, retail, industrial, outdoor spectator sports uses	n/a	75 dB	Structure or outdoor usable area is <50 feet from the center of the closest lane on a street with existing or future ADTs >40,000

[a] If a project is currently at or exceeds the significance thresholds for traffic noise described above and noise levels would result in less than a 3-dB increase, then the impact is not considered significant.

[b] Exterior usable areas do not include residential front yards or balconies unless the areas such as balconies are part of the required useable open space calculation for multi-family units.

SOURCE: City of San Diego 2016.

As shown in Table 2.3-7, the noise level at exterior usable open space for single- and multi-family residences should not exceed 65 dBA CNEL and for commercial or retail space should not exceed 75 dBA CNEL. Table 2.3-7 further specifies that outdoor usable areas would generally indicate a significant noise impact if located closer than 50 feet from the centerline of the closest traffic lane of a street with existing or future daily traffic volumes greater than 20,000 ADT.

Noise significance thresholds for noise generated by adjacent stationary sources such as heating, ventilation, and air conditioning (HVAC) units are identified in the City's Noise Ordinance. A project that would generate noise levels at the

property line that exceed the City's Noise Ordinance Standards, Property Line Noise Level Limits (Table 2.3-6), is considered potentially significant. Although noise levels could be consistent with the City's Noise Ordinance Standards, a noise level above 65 dBA CNEL at the residential property line could be considered a significant environmental impact.

Noise Significance Thresholds for construction noise are provided by the construction hours and noise level limits identified in the City's Noise Ordinance (City of San Diego 2019). Construction activity is prohibited between the hours of 7:00 p.m. of any day and 7:00 a.m. of the following day, or on legal holidays. Construction noise levels measured at or beyond the property lines of any property zoned residential shall not exceed an average sound level greater than 75 dB during the 12-hour period from 7:00 a.m. to 7:00 p.m. (City of San Diego 2010). Additionally, where temporary construction noise would substantially interfere with normal business communication, or affect sensitive receptors, such as day care facilities, a significant noise impact may be identified.

Noise Significance Thresholds for noise/land use compatibility are provided in Table K-4 (City of San Diego 2016), which shows multi-family residential exterior incompatible above 60 dBA CNEL, and updated in the City's General Plan Noise Element (City of San Diego 2015), as shown in Table 2.3-4, exterior "compatible" noise level standard for multi-family residential uses as and as compatible up to 60 dBA CNEL, and conditionally compatible up to 70 dBA CNEL. The City assumes that standard construction design techniques would provide a 15-dB reduction of exterior noise levels to interior noise levels of 45 dBA CNEL or less when exterior sources are 60 dBA CNEL or less. When exterior noise levels are greater than 60 dBA CNEL, consideration of specific construction techniques is required. Multifamily dwelling units with exterior noise levels of up to 70 dBA CNEL are "conditionally compatible" provided that the building structure attenuates interior noise levels to 45 dBA CNEL (City of San Diego 2015).

2.3.3 Analysis of Project Effects and Determination as to Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in the City of San Diego's California Environmental Quality Act (CEQA) Significance Determination Thresholds (City of San Diego 2016). Accordingly, a significant noise impact would occur if the project would:

Issue 1: Result in a significant increase in the existing ambient noise levels; or

Issue 2: Result in the exposure of people to noise levels which exceed the City's adopted noise ordinance or are incompatible with Table K-4; or

Issue 3: Expose people to current or future transportation noise levels that exceed standards established in the Transportation Element of the General Plan; or

Issue 4: Expose people to, or generate excessive groundborne vibration or groundborne noise levels; or

Issue 5: Result in land uses which are not compatible with aircraft noise levels as defined by an adopted airport Comprehensive Land Use Plan

2.3.3.1 Ambient Noise

Issue 1: Would the project result in a significant increase in the existing ambient noise levels?

Impact Analysis

Community Plan Amendment and Rezone

Construction

The proposed project includes an amendment to the Clairemont Mesa Community Plan (CMCP) and rezone of the project site that would allow for a future residential development. Construction of the future development would include construction noise that is considered temporary and short term (i.e., its effect on the environment ceases upon conclusion of construction activities). A substantial temporary increase in ambient noise levels is defined as a direct project-related increase of 10 dBA L_{eq} or greater, based on the noise standard that a 10 dBA increase is perceived by the human ear as twice as loud (FTA 2018). This FTA threshold is used for evaluating the project's impacts on ambient noise levels.

Construction of the future development would require the use of heavy equipment during foundation concrete pour, building construction/architectural coating, and paving stages at the project site. During each stage of building development, a variety of equipment would be used. As such, construction activity noise levels on and near the project site would fluctuate depending on the type, number, and duration of use of various pieces of construction equipment operating at a given time. Multiple pieces of construction equipment would not operate at the same point on the project site at all times. Accordingly, and to present a conservative analysis, instead of assuming the equipment is on average located in the center of the project construction area (which is a typical assumption in construction noise analyses), it has been assumed that the various equipment types would operate at different distances from the sensitive receptors to represent equipment operating across the entire site (see Appendix H for construction noise calculations).

Types of construction equipment expected to be used during project construction could produce maximum noise levels of 75 dBA L_{max} to 90 dBA L_{max} at a reference distance of 50 feet from the noise source according to the Federal Highway Administration (FHWA) reference noise levels. **Table 2.3-8** lists the construction equipment type assumed for project construction and FHWA reference noise levels (L_{max}) at 50 feet. These maximum noise levels would occur when equipment is operating at full power. Construction equipment does not typically operate at full power consistently throughout the duration of a given construction stage. The estimated usage factor for the equipment is also shown in Table 2.3-8 and represents the percentage of the time during a given construction stage that a piece of equipment is expected to be operational. The usage factors are based on FHWA's RCNM User's Guide (FHWA 2006).

Table 2.3-8
Project Construction Equipment and Associated Noise Levels

Type of Equipment	Reference Noise Level at 50 Feet, Lmax	Estimated Usage Factor (%)
Air Compressor	78	40
Backhoe	78	40
Concrete Saw	90	20
Cranes	81	16
Excavator	81	40
Forklift	75	10
Front End Loader	79	40
Generator Sets	81	50
Graders	85	40
Other Equipment	85	50
Paver	77	50
Pumps	81	50
Roller	80	20
Rubber Tired Loader	79	40
Scraper	84	40
Tractor/Loader/Backhoe	80	25
Vacuum Street Sweeper	82	10

SOURCE: FHWA 2006.

Over the course of a construction day, the highest noise levels would be generated when multiple pieces of construction equipment would be being operated concurrently. The project's estimated construction noise levels were calculated for a scenario in which all construction equipment was assumed to be operating simultaneously and located at the construction area nearest the affected receptors to present a conservative impact analysis. The estimated noise levels at the off-site sensitive receptors were calculated using the FHWA's RCNM, and were based on a maximum concurrent operation of construction equipment (i.e., air compressors, cranes, tractor/loader/backhoe, forklift, generator sets, welders, etc.), which is considered a worst-case evaluation because the project would typically use less overall equipment on a daily basis, and as such would generate lower noise levels. In addition, the noise levels were estimated including the assumption that the building construction phase (i.e., air compressors, cranes, forklift, street sweeper) would overlap into the paving phase (i.e., grader, paver, roller) and the architectural coating phase (i.e., air compressor). **Table 2.3-9** shows the estimated construction noise levels that would attenuate with distance at the nearest off-site sensitive uses during a peak day of construction activity at the project site, including, the existing 6-foot-high privacy wall at the backyard of the single-family residences and the surface parking lot on the SDG&E easement to the west of the project site, which provides barrier attenuation estimated at approximately 5 dBA for the residences west of the project site.

As shown in Table 2.3-9, daytime construction noise levels would result in predicted increases in ambient noise levels ranging from approximately 0 to 14.1 dBA Leq at the receptor locations. As previously discussed, the increase (i.e., net change) in ambient levels determined at the nearest noise sensitive receptors (e.g., residences) is typically considered substantial when the increase is 10 dBA Leq or greater, as a change in sound level of 10 dB is recognized as "twice as loud" (FTA, 2018). Therefore, the increases at ST-1, ST-2, and ST-3 of approximately 14.1, 11.8, and 11.5 dBA Leq, respectively, would be greater than a 10 dBA increase by approximately 4.1, 1.8, and 1.5 dBA Leq, respectively. Therefore, the temporary significant increases in ambient noise levels above existing conditions during construction of the future development would potentially occur at ST-1, ST-2, and ST-3, and would be considered significant impact (**Impact NOI-1**).

Table 2.3-9
Construction Phase Noise Levels – Community Plan Amendment and Rezone

Off-Site Sensitive Land Uses[a]	Location	Existing Noise Level (dBA L_{eq})	Nearest Distance from Construction Activity to Noise Receptor (ft.)[b]	Estimated Construction Noise Levels (dBA L_{eq}) at Residential boundary	Net Change from Existing Noise Levels (dBA L_{eq})	Significant Increase (>10 dBA)?
ST-1	Northwest of the Project Site along Mount Etna Drive	56.9	150	71	14.1	Yes
ST-2	West of the Project Site along Mount Castle Ave	53.2	320	65	11.8	Yes
ST-3	Southwest of the Project Site at property line of adjacent homes	58.5	175	70	11.5	Yes
ST-4	South of the Project Site at corner of Balboa Avenue and Balboa Way	65.7	450	62	0	No

[a] The distance represents the nearest construction area on the project site to the property line of the off-site receptor.

[b] The daytime construction noise levels were estimated including assumption that there will be some building construction phase overlap into the Paving phase. Concrete pour noise levels provided for occurring off-hours without daytime construction.

SOURCE: ESA 2019 (Appendix H)

Operation

Operational noise generated by the future residential development would mainly result from mobile sources and stationary sources, such as rooftop HVAC units. As discussed in Issue 3 below, operational noise from mobile sources would not increase noise levels by greater than 3 dBA at any roadway segment and the difference in noise level would be indistinguishable. Furthermore, any rooftop mechanical units would be subject to the SDMC Section 59.5.0401 of the Noise Ordinance, which specifies maximum one-hour average sound level limits that are the maximum noise levels allowed at any point on or beyond the property boundaries due to activities occurring on the property. Future building design of rooftop HVAC units including orientation and shielding would be subject to the Noise Ordinance regulations and therefore would be limited to the noise levels established in the ordinance. Therefore, project operation of the future residential development would not increase the overall ambient noise levels and impacts would be less than significant.

Site Demolition and Preparation

Prior to the redevelopment of the project site in accordance with the CPA and rezone, the County would demolish the existing unoccupied buildings and related facilities on-site, dispose of demolition debris, conduct rough grading of the site, and stub out all existing utilities connections (i.e., capping of utility lines with protective plugs or caps) to the project site boundary. Site demolition and preparation activities would require the use of heavy equipment, grading/excavation, drainage/utilities/trenching, foundation concrete pour, building construction/architectural coating, and paving stages at the project site. During each stage of demolition and site preparation activities, a variety of equipment would be used. As such, construction activity noise levels on and near the project site would fluctuate depending on the type, number, and duration of use of various pieces of construction equipment operating at a given time. Multiple pieces of construction equipment would not operate at the same point on the project site at all times. Accordingly, and to present a conservative analysis, instead of assuming the equipment is on average located in the center of the project construction area (which is a typical assumption in construction noise analyses), it has been assumed that the various equipment types would operate at different distances from the sensitive receptors to represent equipment operating across the entire site (see Appendix H for construction noise calculations).

The types of construction equipment expected to be used during site demolition and preparation could produce maximum noise levels of 75 dBA L_{max} to 90 dBA L_{max} at a reference distance of 50 feet from the noise source according to FHWA reference noise levels. Table 2.7-8 above lists the construction equipment type assumed for site demolition and preparation activities (except pavers) and FHWA reference noise levels (L_{max}) at 50 feet. As previously detailed, these maximum noise levels would occur when equipment is operating at full power. Construction equipment does not typically operate at full power consistently throughout the duration of a given construction stage. The estimated usage factor for the equipment is also shown in Table 2.7-8 and represents the percentage of the time during a given construction stage that a piece of equipment is expected to be operational. The usage factors are based on FHWA's RCNM User's Guide (FHWA 2006).

As previously detailed, the estimated noise levels at the off-site sensitive receptors were calculated using the FHWA's RCNM, and were based on a maximum concurrent operation of equipment, which is considered a worst-case evaluation because the project would typically use less overall equipment on a daily basis, and as such would generate lower noise levels.

Table 2.3-10 shows the estimated construction noise levels that would attenuate with distance at the nearest off-site sensitive uses during a peak day of construction activity at the project site. In addition, the 6-foot-high privacy wall at

the backyard of single-family residences and the surface parking lot to the west of the project site was estimated to provide barrier attenuation of approximately 5 dBA for the residences west of the project site.

Table 2.3-10
Construction Phase Noise Levels – Site Demolition and Preparation

Off-Site Sensitive Land Uses[a]	Location	Existing Noise Level (dBA L_{eq})	Nearest Distance from Construction Activity to Noise Receptor (ft.)[b]	Estimated Construction Noise Levels (dBA L_{eq}) at Residential Boundary	Net Change from Existing Noise Levels (dBA L_{eq})	Significant Increase (>10 dBA)?
ST-1	Northwest of the Project Site along Mount Etna Drive	56.9	150	69	12.1	Yes
ST-2	West of the Project Site along Mount Castle Ave	53.2	320	64	10.8	Yes
ST-3	Southwest of the Project Site at property line of adjacent homes	58.5	175	68	9.5	No
ST-4	South of the Project Site at corner of Balboa Avenue and Balboa Way	65.7	450	61	0	No

[a] The distance represents the nearest construction area on the project site to the property line of the off-site receptor.

[b] The daytime construction noise levels were estimated including assumption that there will be some phase overlap.

SOURCE: ESA 2019 (Appendix H)

As shown in Table 2.3-10, daytime construction noise levels would result in predicted increases in ambient noise levels ranging from 0 to 12.1 dBA Leq at receptor locations. As previously discussed, the increase (i.e., net change) in ambient levels determined at the nearest noise sensitive receptors (e.g., residences) is typically considered substantial when the increase is 10 dBA Leq or greater, as a change of 10 dB is recognized as “twice as loud.” (FTA 2018). Therefore, the increases of at ST-1 and ST-2 of 12.1 and 10.8 dBA Leq, respectively, as shown in Table 2.3-10, exceeds a 10 dBA increase by 2.1 and 0.8 dBA Leq, respectively. Therefore, the temporary significant increases in ambient noise levels above existing conditions during site demolition and preparation would potentially occur at ST-1 and ST-2, and would be considered a significant impact (**Impact NOI-1**).

2.3.3.2 Noise Ordinance

Issue 2: Would the project result in the exposure of people to noise levels which exceed the City's adopted noise ordinance or are incompatible with Table K-4?

Noise impacts may be significant if the project would expose people to noise levels that exceed the City's adopted Noise Ordinance for construction and operation. The City's Noise Ordinance limits construction noise levels to not exceed 75 dBA L_{eg} at the affected residential property line during the allowable construction hours of 7 a.m. to 7p.m., and 45 dBA L_{eg} from 7 p.m. to 10 p.m.).

Impact Analysis

Community Plan Amendment and Rezone and Site Demolition and Preparation

Construction

Project construction (including both construction of the future development and site demolition and preparation activities) would occur during the hours specified in the SDMC, between 7:00 a.m. and 7:00 p.m. Construction activity is prohibited on legal holidays as specified in Section 21.04 of the SDMC, with exception of Columbus Day and Washington's Birthday, and on Sundays.

Construction activities occurring under each of the construction phases (i.e., demolition and clearing, excavation, foundation, erection, and finishing) would require the use of heavy equipment (e.g., excavators, backhoes, loaders, graders, bore/drill rigs, compactors, cranes, etc.) along with the use of smaller power tools, generators, and other sources of noise. During each construction phase there would be a different mix of equipment operating and noise levels would vary based on the amount of equipment in operation and the location of each activity. Construction activity noise levels at the site would therefore fluctuate depending on the particular type, number, and duration of use of the various pieces of construction equipment. Table 2.3-9 and Table 2.3-10 above presents the typical maximum noise levels (dBA L_{eq}) generated by construction phases.

The closest noise-sensitive receiver (single-family residence) is located approximately 150 feet from the project site. The construction phases generating the highest noise levels would be approximately 71 dBA L_{eq} at ST-1, as shown in Table 2.3-9. Construction noise levels at all other receptors would also be below the City's 75 dBA L_{eq} significance threshold established by the City's Noise Ordinance. Therefore, construction noise would not exceed the City's adopted Noise Ordinance and impacts would be less than significant.

Operation

As discussed in Issue 1, above, operation of the future development would be subject to the City's Noise Ordinance standards that limit operational noise to a maximum level within the property boundaries. Roadway noise levels would increase noise levels by a maximum of 1.2 dBA and ambient noise level changes would be indistinguishable by the human ear. Therefore, operational noise associated with the future development would not exceed the City's Noise Ordinance and impacts would be less than significant.

2.3.3.3 General Plan

Issue 3: Would the project expose people to current or future transportation noise levels that exceed standards established in the Transportation Element of the General Plan?

Noise impacts may be significant if the project would expose people to current or future transportation noise levels that exceed standards established in the Transportation Element of the General Plan (interior standard of 45 dBA CNEL residential; exterior standard of 65 dBA CNEL residential).

Impact Analysis

Community Plan Amendment and Rezone and Site Demolition and Preparation

Off-Site Construction

Construction truck trips associated with construction of the future development and associated with site demolition and preparation activities would occur throughout the construction period. Haul trucks would travel on approved truck routes designated within the city. Given the project site's proximity to I-5 and I-805, heavy truck traffic would take the most direct route to the appropriate freeway ramps. An estimated maximum of approximately 170 daily worker vehicle trips and approximately 79 concrete truck trips would occur per day (up to approximately 21 worker trips and 10 concrete truck trips per hour) during the building construction activities. The building construction activities would generate the maximum number of trucks trips. Trucks would exit the project site from Genesee Avenue and turn right and head southbound, head east on Balboa Avenue, and merge on to the I-805 on-ramp. Alternatively, vehicles could head west on Balboa Avenue and merge onto the I-5 on-ramp. Construction worker vehicle trips would be dispersed along various roadways and would contribute a very small number of vehicle trips when compared to existing traffic volumes on these same roadways and compared to the truck trips along the route. However, for the purposes of this analysis, it was conservatively assumed that construction worker vehicle trips would travel on the same roadway segments as the heavy trucks to evaluate maximum potential offsite noise impacts.

As shown in **Table 2.3-11** the project's truck trips and worker trips would generate maximum noise levels of approximately 55.7 dBA L_{eq} along Genesee Avenue and Balboa Avenue. Therefore, construction of the proposed project would not expose people to transportation noise levels that exceed standards established in the General Plan.

Table 2.3-11
Estimated Off-Site Construction Traffic Noise Levels

	Calculated Traffic Noise Levels On Roadway dBA L_{eq}		
Roadway Segment	**Construction Traffic**	**Significance Threshold[a]**	**Exceed Threshold?**
Genesee Ave between Mount Etna Drive and Balboa Ave	55.7	71.7	No
Balboa Ave between Genesee Ave and Shopping Center Driveway	55.7	72.8	No

[a] The significance thresholds are the calculated roadway noise levels for the applicable traffic segments

SOURCE: ESA 2019 (Appendix H)

Off-Site Operational Traffic Noise

Operational noise is typically considered permanent, i.e., for the duration of the operation of the constructed facility. A significant permanent increase is conservatively defined as a direct project-related permanent ambient increase of 3 dBA L_{eq} or greater, where exterior noise levels currently exceed the City's Noise Ordinance noise level limits (i.e., 50 dBA L_{eq} daytime for single-family residential land uses). An increase of 3 dBA is perceived by the human ear as a barely perceptible increase.

Existing roadway noise levels were calculated along various arterial segments adjacent to the project site. Roadway noise attributable to operation of the future residential development was calculated using the traffic noise model previously described and was compared to existing noise levels in the vicinity.

Operational traffic noise levels associated with existing conditions are shown in **Table 2.3-12**. As indicated in the table, the maximum increase in project-related traffic noise levels over existing traffic noise levels would be 1.7 dBA CNEL, which would occur at the roadway segment of Mount Everest Drive south of Mount Alifan Drive. This increase in sound level would be below the significance threshold of 3 dBA CNEL. The increase in sound levels would be lower at the remaining roadway segments analyzed. Accordingly, the project-related noise increases would be less than the applicable threshold. Therefore, operation of the project compared to existing conditions would not result in off-site traffic-

related noise impacts in excess of City standards and impacts would be less than significant.

Table 2.3-12
Estimated Off-Site Traffic Noise Levels – Existing with Project Conditions

		CNEL (dBA)			
		Existing	Existing with Project	Project Increment	
Roadway Segment	Existing Land Uses Located along Roadway Segment	(A)	(B)	(B–A)	Exceed Threshold?
Genesee Avenue					
n/o Clairemont Mesa Boulevard	Residential/ Commercial	71.9	71.9	0.1	No
between Clairemont Mesa Boulevard and Bannock Avenue	Residential/ Commercial	71.4	71.4	0.1	No
between Bannock Avenue and Chateau Drive	Residential	71.6	71.7	0.1	No
between Chateau Drive and Mount Herbert Avenue	Residential	71.5	71.6	0.1	No
between Mount Herbert Avenue and Derrick Drive	Residential/ Commercial	71.3	71.4	0.1	No
between Derrick Drive and Mount Etna Drive	Commercial	71.6	71.8	0.2	No
between Mount Etna Drive and Balboa Avenue	Commercial	71.7	71.9	0.3	No
between Balboa Avenue and Mount Alifan Drive	Residential/ Commercial	71.1	71.1	0.1	No
s/o Mount Alifan Drive	Residential/ Commercial/ Educational	72.0	72.1	0.1	No
Mount Everest Drive					
s/o Mount Alifan Drive	Residential	62.2	63.9	1.7	No
Balboa Avenue					
between Clairemont Drive and Mount Everest Boulevard	Residential	73.1	73.1	0.1	No
between Mount Everest Boulevard and Genesee Avenue	Residential/ Commercial	72.6	72.6	0.0	No
between Genesee Avenue and Shopping Center Driveway	Commercial	72.8	72.9	0.1	No
between Shopping Center Driveway and Mount Abernathy Avenue	Commercial	73.2	73.3	0.1	No

Roadway Segment	Existing Land Uses Located along Roadway Segment	CNEL (dBA) Existing (A)	Existing with Project (B)	Project Increment (B–A)	Exceed Threshold?
between Mount Abernathy Avenue and Cannington Drive	Residential/ Commercial	73.7	73.8	0.1	No
between Cannington Drive and Charger Boulevard	Residential/ Educational	73.9	74.0	0.1	No
between Charger Boulevard and I-805 Southbound Ramps	Residential/ Religious	74.8	74.9	0.1	No
between I-805 Southbound Ramps and I-805 Northbound Ramps	Freeway Overpass	74.4	74.4	0.0	No
e/o I-805 Northbound Ramps	Commercial	74.6	74.6	0.0	No

ESA 2019, Chen Ryan 2019.

Operational traffic noise levels associated with buildout year conditions are shown in **Table 2.3-13**. As indicated in the table, the maximum increase in project-related traffic noise levels over buildout year traffic noise levels would be 1.7 dBA CNEL, which would occur at the roadway segment of Mount Everest Drive south of Mount Alifan Drive. This increase in sound level would be below the significance threshold of 3 dBA CNEL. The increase in sound levels would be lower at the remaining roadway segments analyzed. Accordingly, the project-related noise increases would be less than the applicable threshold. Therefore, operation of the project at the buildout year would not result in off-site traffic-related noise impacts in excess of City standards and impacts would be less than significant.

Operational traffic noise levels associated with future year conditions (2050) are shown in **Table 2.3-14**. As indicated, the maximum increase in project-related traffic noise levels over existing traffic noise levels would be 1.4 dBA CNEL, which would occur at the roadway segment of Mount Everest Drive south of Mount Alifan Drive. This increase in sound level would be below the significance threshold of 3 dBA CNEL. The increase in sound levels would be lower at the remaining roadway segments analyzed. Accordingly, the project-related noise increases would be less than the applicable threshold. Therefore, operation of the project at the future year (2050) would not result in off-site traffic-related noise impacts in excess of City standards and impacts would be less than significant.

Table 2.3-13
Estimated Off-Site Traffic Noise Levels – Buildout Year with Project Conditions

Roadway Segment	Existing Land Uses Located along Roadway Segment	CNEL (dBA) Existing (A)	CNEL (dBA) Existing with Project (B)	CNEL (dBA) Project Increment (B–A)	Exceed Threshold?
Genesee Avenue					
n/o Clairemont Mesa Boulevard	Residential/ Commercial	71.9	72.0	0.1	No
between Clairemont Mesa Boulevard and Bannock Avenue	Residential/ Commercial	71.4	71.5	0.1	No
between Bannock Avenue and Chateau Drive	Residential	71.7	71.8	0.1	No
between Chateau Drive and Mount Herbert Avenue	Residential	71.5	71.7	0.1	No
between Mount Herbert Avenue and Derrick Drive	Residential/ Commercial	71.4	71.5	0.1	No
between Derrick Drive and Mount Etna Drive	Commercial	71.7	71.9	0.2	No
between Mount Etna Drive and Balboa Avenue	Commercial	71.8	72.0	0.3	No
between Balboa Avenue and Mount Alifan Drive	Residential/ Commercial	71.6	71.7	0.1	No
s/o Mount Alifan Drive	Residential/ Commercial/ Educational	72.2	72.2	0.1	No
Mount Everest Drive					
s/o Mount Alifan Drive	Residential	62.2	63.9	1.7	No
Balboa Avenue					
between Clairemont Drive and Mount Everest Boulevard	Residential	73.2	73.3	0.1	No
between Mount Everest Boulevard and Genesee Avenue	Residential/ Commercial	72.7	72.7	0.0	No
between Genesee Avenue and Shopping Center Driveway	Commercial	73.0	73.2	0.1	No
between Shopping Center Driveway and Mount Abernathy Avenue	Commercial	73.4	73.5	0.1	No
between Mount Abernathy Avenue and Cannington Drive	Residential/ Commercial	74.0	74.1	0.1	No

Roadway Segment	Existing Land Uses Located along Roadway Segment	CNEL (dBA) Existing (A)	Existing with Project (B)	Project Increment (B–A)	Exceed Threshold?
between Cannington Drive and Charger Boulevard	Residential/ Educational	74.1	74.2	0.1	No
between Charger Boulevard and I-805 Southbound Ramps	Residential/ Religious	75.2	75.3	0.1	No
between I-805 Southbound Ramps and I-805 Northbound Ramps	Freeway Overpass	74.4	74.5	0.0	No
e/o I-805 Northbound Ramps	Commercial	74.6	74.6	0.0	No

SOURCES: ESA 2019, Chen Ryan 2019.

Table 2.3-14
Estimated Off-Site Traffic Noise Levels – Future (2050) with Project Conditions

Roadway Segment	Existing Land Uses Located along Roadway Segment	CNEL (dBA) Existing (A)	Existing with Project (B)	Project Increment (B–A)	Exceed Threshold?
Genesee Avenue					
n/o Clairemont Mesa Boulevard	Residential/ Commercial	73.0	73.0	0.0	No
between Clairemont Mesa Boulevard and Bannock Avenue	Residential/ Commercial	72.0	72.1	0.1	No
between Bannock Avenue and Chateau Drive	Residential	72.2	72.2	0.1	No
between Chateau Drive and Mount Herbert Avenue	Residential	71.9	72.0	0.1	No
between Mount Herbert Avenue and Derrick Drive	Residential/ Commercial	71.8	71.9	0.1	No
between Derrick Drive and Mount Etna Drive	Commercial	72.2	72.4	0.1	No
between Mount Etna Drive and Balboa Avenue	Commercial	72.4	72.6	0.2	No

Roadway Segment	Existing Land Uses Located along Roadway Segment	CNEL (dBA) Existing (A)	Existing with Project (B)	Project Increment (B–A)	Exceed Threshold?
between Balboa Avenue and Mount Alifan Drive	Residential/ Commercial	71.7	71.7	0.1	No
s/o Mount Alifan Drive	Residential/ Commercial/ Educational	72.7	72.7	0.1	No
Mount Everest Drive					
s/o Mount Alifan Drive	Residential	63.4	64.8	1.4	No
Balboa Avenue					
between Clairemont Drive and Mount Everest Boulevard	Residential	73.7	73.7	0.1	No
between Mount Everest Boulevard and Genesee Avenue	Residential/ Commercial	73.5	73.5	0.0	No
between Genesee Avenue and Shopping Center Driveway	Commercial	73.4	73.5	0.1	No
between Shopping Center Driveway and Mount Abernathy Avenue	Commercial	73.7	73.8	0.1	No
between Mount Abernathy Avenue and Cannington Drive	Residential/ Commercial	74.1	74.2	0.1	No
between Cannington Drive and Charger Boulevard	Residential/ Educational	74.1	74.2	0.1	No
between Charger Boulevard and I-805 Southbound Ramps	Residential/ Religious	75.0	75.1	0.1	No
between I-805 Southbound Ramps and I-805 Northbound Ramps	Freeway Overpass	74.5	74.5	0.0	No
e/o I-805 Northbound Ramps	Commercial	74.8	74.8	0.0	No

ESA 2019, Chen Ryan 2019.

2.3.3.5 Groundborne Vibration

Issue 4: Would the project expose people to, or generate excessive groundborne vibration or groundborne noise levels?

Noise impacts may be significant if the project would expose people or structures to construction vibration levels which exceed vibration guidelines for structural

damage and human annoyance. Vibration would have a significant impact if project construction activities cause groundborne vibration levels to exceed the building damage threshold of 0.2 in/sec PPV at receiving structures. Caltrans defines vibration levels of 0.035 in/sec PPV as barely perceptible and is used as the threshold for human annoyance.

Impact Analysis

Community Plan Amendment and Rezone and Site Demolition and Preparation

Groundborne vibration would be generated from heavy construction equipment operation at the project site, which could potentially affect the existing sensitive land uses surrounding the site. The closest vibration-sensitive land use to the project site is the commercial building located approximately 50 feet to the southeast of the project boundary. The nearest residence is located approximately 150 feet to the west of the project boundary.

Project construction (including both construction of the future development and site demolition and preparation activities) would generate varying degrees of ground vibration, depending on the construction procedures and the construction equipment used. The PPV vibration velocities for several types of construction equipment measured at increasing distances are identified in **Table 2.3-15**.

Table 2.3-15
Vibration Source PPV Levels for Construction Equipment

	Approximate PPV (in/sec)			
Equipment	**50 Feet**	**75 Feet**	**100 Feet**	**150 Feet**
Large Bulldozer	0.031	0.017	0.011	0.006
Bore/Drill Rig	0.031	0.017	0.011	0.006
Loaded Trucks	0.027	0.015	0.010	0.005
Jackhammer	0.012	0.007	0.004	0.002
Small Bulldozer	0.001	0.0006	0.0004	0.0002

SOURCE: FTA 2018, ESA 2019.

As shown in Table 2.3-15, the maximum vibration levels at the nearest sensitive receptor 50 feet southeast of the site would be 0.031 in/sec. This is well below the structural damage threshold of 0.2 in/sec and below the barely perceptible level for human annoyance of 0.035 in/sec. Therefore, vibration impacts from project construction would be less than significant.

Project operation would not result in operational sources of vibration causing appreciable groundborne vibration on site or in proximity to structures or people, and impacts would be less than significant.

2.3.3.5 Aircraft Noise Levels

Issue 5: Would the project result in land uses which are not compatible with aircraft noise levels as defined by an adopted airport Comprehensive Land Use Plan?

Community Plan Amendment and Rezone and Site Demolition and Preparation

As previously detailed, the nearest public airport is Montgomery Field Airport, located approximately 2 miles east of the project site. The nearest private airstrip is the MCAS Miramar, located approximately 2.9 miles northeast of the project site. According to the Montgomery Field Airport Land Use Compatibility Plan (ALUCP) and the MCAS Miramar ALUCP, the project site is not within any safety zones for either airport (ALUC 2010; ALUC 2008). However, the project site is located within Montgomery Field and MCAS Miramar's Airport Influence Area denoted as Review Area 2 (ALUC 2010; ALUC 2008). For both airports, Review Area 2 would not be subject to any noise standards. Therefore, the proposed project would not result in land uses which are incompatible with aircraft noise levels. No impact would occur.

2.3.4 Cumulative Impact Analysis

Construction

The potential for cumulative construction noise impacts from on-site construction activities to occur is based on the distance between the project and each of the related cumulative projects. As listed in Table 1-3 of Chapter 1.0, Project Description, of this EIR, there are six related projects identified in the vicinity of the project site. The two closest related projects are the High Tech High Clairemont Campus CUP at 5331 Mount Alifan Drive approximately 1,300 feet from the project site and the Lindbergh-Schweitzer Elementary School project at 4133 Mount Albertine Avenue approximately 3,800 feet from the project site. All other related projects are located at further distances away from the project site and thus would have lesser effects.

The High Tech High Clairemont Campus project involves occupying an already existing building and would not require any construction and thus would not contribute to cumulative noise levels. The Lindberg-Schweitzer Elementary School project involves relocating a charter school campus to the existing campus and would include construction extending through January 1, 2024. At a distance of 3,800 feet, the Lindberg-Schweitzer Elementary School project would not contribute to cumulative noise levels at sensitive receptors near the project

site. Therefore, cumulative impacts from construction noise would be less than significant.

Operations

Cumulative off-site operational noise impacts would occur primarily as a result of increased traffic on local roadways due to operation of the project and cumulative projects, as traffic is the greatest source of operational noise in the project area. Cumulative off-site traffic-generated noise impacts were assessed based on a comparison of the future cumulative base traffic volumes (2050) with the project compared to the existing base traffic volumes without the project. The future cumulative base traffic volumes with the project represent an estimate of the ambient background growth, related projects traffic, and the project traffic volumes. Thus, cumulative increase represents the increment by the ambient background growth, related project traffic, and the project traffic volumes over the existing conditions. The results of that comparison are provided in **Table 2.3-16**. Table 2.3-16 shows the project's contribution to the cumulative noise levels. The maximum cumulative noise increase from the project plus related project traffic would be 2.5 dBA CNEL, which would occur along Mount Everest Drive south of Mount Alifan Drive. This increase in sound level would not exceed the significance thresholds of an increase of 3 or 5 dBA CNEL. As a result, the project's contribution to off-site traffic-related noise would not be cumulatively considerable and impacts would be less than significant.

Table 2.3-16
Off-Site Traffic Noise Impacts – Future 2050 Cumulative Increment

		CNEL (dBA)			
Roadway Segment	Existing Land Uses Located along Roadway Segment	Existing (A)	Future with Project (2050) (B)	Cumulative Increment (B–A)	Exceed Threshold?
Genesee Avenue n/o Clairemont Mesa Boulevard	Residential/ Commercial	71.9	73.0	1.2	No
between Clairemont Mesa Boulevard and Bannock Avenue	Residential/ Commercial	71.4	72.1	0.7	No
between Bannock Avenue and Chateau Drive	Residential	71.6	72.2	0.6	No
between Chateau Drive and Mount Herbert Avenue	Residential	71.5	72.0	0.5	No
between Mount Herbert Avenue and Derrick Drive	Residential/ Commercial	71.3	71.9	0.6	No

Roadway Segment	Existing Land Uses Located along Roadway Segment	CNEL (dBA)			
		Existing	Future with Project (2050)	Cumulative Increment	Exceed Threshold?
		(A)	(B)	(B–A)	
between Derrick Drive and Mount Etna Drive	Commercial	71.6	72.4	0.7	No
between Mount Etna Drive and Balboa Avenue	Commercial	71.7	72.6	1.0	No
between Balboa Avenue and Mount Alifan Drive	Residential/ Commercial	71.1	71.7	0.7	No
s/o Mount Alifan Drive	Residential/ Commercial/ Educational	72.0	72.7	0.7	No
Mount Everest Drive s/o Mount Alifan Drive	Residential	62.2	64.8	2.5	No
Balboa Avenue between Clairemont Drive and Mount Everest Boulevard	Residential	73.1	73.7	0.7	No
between Mount Everest Boulevard and Genesee Avenue	Residential/ Commercial	72.6	73.5	0.8	No
between Genesee Avenue and Shopping Center Driveway	Commercial	72.8	73.5	0.7	No
between Shopping Center Driveway and Mount Abernathy Avenue	Commercial	73.2	73.8	0.6	No
between Mount Abernathy Avenue and Cannington Drive	Residential/ Commercial	73.7	74.2	0.5	No
between Cannington Drive and Charger Boulevard	Residential/ Educational	73.9	74.2	0.4	No
between Charger Boulevard and I-805 Southbound Ramps	Residential/ Religious	74.8	75.1	0.3	No
between I-805 Southbound Ramps and I-805 Northbound Ramps	Freeway Overpass	74.4	74.5	0.2	No
e/o I-805 Northbound Ramps	Commercial	74.6	74.8	0.3	No

ESA 2019, Chen Ryan 2019.

As is true for the project, cumulative projects would be subject to compliance with SDMC Section 59.5.0401 of the Noise Ordinance, which specifies maximum one-hour average sound level limits are the maximum noise levels allowed at any point on or beyond the property boundaries due to activities occurring on the property. Cumulative projects would be subject to the Noise Ordinance

regulations and therefore would be limited to the noise levels established in the ordinance. Therefore, cumulative project operation would not increase the overall ambient noise levels and cumulative impacts would be less than significant.

Groundborne Vibration

Due to the rapid attenuation characteristics of groundborne vibration and distance from each of the cumulative projects to the project site, there is no potential for cumulative construction- or operational-period impacts with respect to groundborne vibration. Therefore, potential cumulative groundborne vibration impacts would be less than significant.

2.3.5 Significance of Impacts Prior to Mitigation

The following significant impact related to ambient noise levels would occur during construction of the proposed project:

> **Impact NOI-1**: A temporary increase in ambient noise levels 10 dBA or more above existing (ambient) conditions at off-site sensitive receivers during construction of the future residential housing project would occur (during both construction of the future development and during site demolition and preparation activities), and impacts would be considered significant.

2.3.6 Mitigation

> **NOI-1: Construction Noise.** The following construction noise abatement techniques shall be implemented by the construction contractor to reduce construction-related noise to less than a 10 dBA increase in existing ambient noise levels at nearby noise-sensitive receivers:
>
> - Temporary noise barriers shall be placed to block the line-of-sight between construction equipment operation and the residential land uses in proximity to the proposed project's property line to the north and west. One of the following two options shall be implemented by the construction contractor:
>
> a. A temporary noise barrier shall be placed along the entire western property line of the project site and approximately 50 feet to the north from the northwestern corner at a height of 14 feet with noise blankets capable of achieving sound level reductions of at least 8 dBA to block the line-of-sight between construction equipment operations and the offsite noise-sensitive receivers to the south and southwest; or
>
> b. A temporary 50-by-50-foot "L-shaped" noise barrier shall be constructed for each small construction area at a height of

14 feet with noise blankets capable of achieving sound level reductions of at least 8 dBA to block the line-of-sight between construction equipment operations and the offsite noise-sensitive receivers.

2.3.7 Conclusion

The proposed project would not result in impacts related to exposure of people or noise levels that exceed the City's adopted Noise Ordinance, exposure of people to current or future transportation noise levels that exceed standards of the General Plan, exposure of people to excessive groundborne vibration, or exposure to incompatible aircraft noise levels.

A temporary substantial increase in ambient noise levels above existing conditions (greater than a 10 dBA increase) at specified off-site sensitive receivers during project construction would potentially occur (during both construction of the future development and during site demolition and preparation activities). However, with implementation of **Mitigation Measure NOI-1**, construction noise levels would be reduced by 8 dBA Leq at the source, thereby, reducing the noise levels at all of the sensitive receptor locations to acceptable levels. With implementation of this mitigation measure, impacts related to construction noise would result in a less than significant impact.



SOURCE: ESA, 2019

Mount Etna Community Plan Amendment and Rezone Project

Figure 2.3-1
Noise Measurement Locations

ESA

2.4 Transportation and Traffic

This section provides an assessment of potential impacts related to transportation that could result from implementation of the proposed project. Information used in this section is from the Transportation Impact Study (TIS), the TIS Addendum, and the VMT Addendum, prepared by Chen Ryan for the proposed project (Chen Ryan 2019), which are included as Appendix I of this EIR.

Comments related to traffic received during the public comment period for the Notice of Preparation (NOP) included concerns related to traffic congestion on surrounding streets and intersection delays. These concerns have been considered and addressed, as applicable, in the following evaluation of the project's potential to create transportation and traffic impacts. The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

2.4.1 Existing Conditions

2.4.1.1 Traffic Study Area

The study area represents the most likely locations to be impacted by project traffic. Identification of the traffic study area was based on the criteria identified in the City of San Diego's (City's) Traffic Impact Study Manual (1998). Specifically, these criteria require that a traffic study include the following:

- All intersection and roadway segments where the project would add 50 or more peak hour trips in either direction;
- Mainline freeway locations where the project would add 150 or more peak hour trips in either direction; and
- Metered freeway ramps where the Project would add 20 or more peak hour trips.

As shown on **Figure 2.4-1**, the project study area includes 20 intersections (two of which include metered freeway ramps) and 20 roadway segments including Genesee Avenue, Mount Everest Boulevard, Mount Etna Drive, and Balboa Avenue. The proposed project would not contribute enough traffic (150 peak hour trips in a single direction) to require analysis of any mainline freeways.

Traffic counts were conducted at the study area roadway segments and study area intersections in January 2019 when all schools were in session and the weather was dry and normal. This section describes existing daily traffic volumes (24-hour volume counts) and LOS for study area roadway segments and the AM/PM peak hour traffic volumes and LOS for the study area intersections.

Level of Service

Level of Service (LOS) is a quantitative measure describing operational conditions within a traffic stream, and the motorist's and/or passengers' perception of operations. A LOS definition generally describes these conditions in terms of such factors as delay, speed, travel time, freedom to maneuver, interruptions in traffic flow, queuing, comfort, and convenience. LOS designations range from A to F, with LOS A representing the best operating conditions (i.e., little to no delay) and LOS F representing the worst operating conditions (i.e., lengthy delay). LOS designation is reported differently for signalized and unsignalized intersections, as well as for roadway segments. The City of San Diego considers LOS D or better during the AM and PM peak hours to be acceptable for intersection and roadway segment LOS.

2.4.1.2 Existing Circulation System

The project site is located in the Clairemont Mesa Community Planning (CMCP) Area in the City, where regional access is provided primarily by I-805. Local access is provided via Genesee Avenue, Mount Everest Boulevard, Balboa Avenue, and Mount Etna Drive, which are described below.

Interstate 805 (I-805) is a north-south freeway that is located approximately one and a half miles east of the project site. Access from I-805 to the study area is provided by the Balboa Avenue interchange.

Genesee Avenue is a 4-lane roadway that widens to 6 lanes between Derrick Drive and Mount Etna Drive, transitions to 5 lanes (3 northbound, 2 southbound) between Mount Etna Drive to Mount Alifan, and narrows again back to 4 lanes after Mount Alifan. Genesee Avenue has a raised median throughout the study area with exception to the roadway segment between Clairemont Mesa Boulevard and Bannock Avenue. The posted speed limit along Genesee Avenue is 35 mph with exception of the roadway segment between Sauk Avenue and Derrick Drive which is 40 mph. Sidewalks are present on both sides of the roadway within the Project study area. On-street parallel parking is allowed along Genesee Avenue on segments south of Mount Alifan Drive and north of Sauk Avenue within the study area. Also, within the study area, Genesee Avenue has class II bike lanes throughout with exception of the class III bike route between Sauk Avenue and Appleton Street. The CMCP classifies this roadway as a 4-Lane Major Arterial. San Diego Metropolitan Transit System (MTS) Bus Route #41 operates along Genesee Avenue.

Mount Everest Boulevard is a 2-lane undivided roadway with sidewalks and on-street parallel parking present on both sides of the roadway. There are no bicycle facilities along Mount Everest within the Project study area. Mount Everest Boulevard has a posted speed limit of 25 mph within the Project study area. The

CMCP classifies Mount Everest Boulevard, south of Balboa Avenue as a 2-lane Collector. There are not transit routes that run along Mount Everest Boulevard; however, transit stops exist for bus route #27 at the Balboa Avenue and Mount Everest Boulevard intersection.

Balboa Avenue is currently constructed as a four to six-lane roadway within the Clairemont Mesa community. San Diego MTS Bus Route #27 operates along Balboa Avenue. Within the project study area, Balboa Avenue has a posted speed limit of 45 mph with the following geometric features:

- 4-lane roadway with a raised median between Clairemont Drive and Genesee Avenue. Sidewalks are located intermittently on the northern side of the roadway. Class II bike lanes are present on both side of the roadway. On-street parking is prohibited along this segment. The CMCP classifies this segment as a 4-Lane Major Arterial.
- 6-lane roadway with a raised median between Genesee Avenue and east of I-805. Sidewalk and Class II bike lanes are present on both side of the roadway. On-street parking is prohibited along this segment. The CMCP classifies this segment as a 6-Lane Major Arterial.

Mount Etna Drive is a 2-lane undivided roadway with sidewalks on both sides without bicycle facilities. On-street parallel parking is allowed throughout the segment with exception of the commercial fronting property extending 430 feet west of Genesee Avenue and across a portion of the project frontage. The posted speed limit is 25 mph, between Genesee Avenue and 500 feet west of Genesee Avenue where the posted speed limit of 15 mph per hour begins paired with roadway speed bumps. There are no transit routes that run along Mount Etna Drive; however, transit stops exist for bus route #41 at the Genesee Avenue & Mount Etna Drive intersection.

Roadway Segments

The following 20 roadway segments comprise the project study area for transportation:

1. Genesee Avenue between Appleton Street & Clairemont Mesa Boulevard;
2. Genesee Avenue between Clairemont Mesa Boulevard & Bannock Avenue;
3. Genesee Avenue between Bannock Avenue & Chateau Drive;
4. Genesee Avenue between Chateau Drive & Mount Herbert Avenue;
5. Genesee Avenue between Mount Herbert Avenue & Derrick Drive;
6. Genesee Avenue between Derrick Drive & Mount Etna Drive;

7. Genesee Avenue between Mount Etna Drive & Balboa Avenue;
8. Genesee Avenue between Balboa Avenue & Mount Alifan Drive;
9. Genesee Avenue between Mount Alifan Drive & Genesee Court;
10. Mount Everest Boulevard between Mount Etna Drive & Balboa Avenue;
11. Mount Etna Drive between Mount Everest Boulevard & Genesee Avenue;
12. Balboa Avenue between Clairemont Drive & Mount Everest Boulevard;
13. Balboa Avenue between Mount Everest Boulevard & Genesee Avenue;
14. Balboa Avenue between Genesee Avenue & Shopping Center Driveway;
15. Balboa Avenue between Shopping Center Driveway & Mount Abernathy Avenue;
16. Balboa Avenue between Mount Abernathy Avenue & Cannington Drive;
17. Balboa Avenue between Cannington Drive & Charger Boulevard;
18. Balboa Avenue between Charger Boulevard & I-805 Southbound Ramps;
19. Balboa Avenue between I-805 Southbound & I-805 Northbound Ramps; and
20. Balboa Avenue between I-805 Northbound Ramps and Ruffner Street.

Intersections

The following 20 intersections are located within the project study area for transportation (note that intersection locations 19 and 20 do not exist today but are future intersections associated with the proposed project):

1. Genesee Avenue & Clairemont Mesa Boulevard (Signal);
2. Genesee Avenue & Bannock Avenue (Signal);
3. Genesee Avenue & Chateau Drive (Signal);
4. Genesee Avenue & Mount Herbert Avenue (Signal);
5. Genesee Avenue & Derrick Drive (Signal);
6. Mount Everest Boulevard & Mount Etna Drive (All-Way Stop Controlled);
7. Genesee Avenue & Mount Etna Drive (Signal);
8. Clairemont Drive & Balboa Avenue (Signal);
9. Mount Everest Boulevard & Balboa Avenue (Signal);
10. Genesee Avenue & Balboa Avenue (Signal);
11. Shopping Center Driveway & Balboa Avenue (Signal);
12. Mount Abernathy Avenue & Balboa Avenue (Signal);
13. Cannington Drive & Balboa Avenue (Signal);

14. Charger Boulevard & Balboa Avenue (Signal);
15. I-805 Southbound Ramps & Balboa Avenue (Signal);
16. I-805 Northbound Ramps & Balboa Avenue (Signal);
17. Genesee Avenue & Mount Alifan Drive (Signal);
18. Mount Etna Drive & Project Driveway (Side-Street Stop Controlled)[1];
19. Genesee Avenue & Project Driveway (Side-Street Stop Controlled)[1]; and
20. Balboa Avenue & Project Driveway (Side-Street Stop Controlled)[1].

2.4.1.3 Existing Traffic Conditions

Intersections

Table 2.4-1 displays intersection level of service and average vehicle delay results for the key study area intersections under Existing Conditions. Level of service calculation worksheets for Existing Conditions are provided in Appendix I. As shown in the table, all of the study area intersections are currently operating at acceptable LOS D or better during both the AM and PM peak hours, with the exception of the following four intersections:

1. Genesee Avenue & Clairemont Mesa Boulevard – LOS E during the PM peak hour, primarily due to the heavy volume in the southbound through direction;
8. Clairemont Drive & Balboa Avenue – LOS E during the PM peak hour, primarily due to the southbound left movement which experiences a particularly high delay compared to all other movements at the intersection;
9. Mount Everest Boulevard & Balboa Avenue – LOS E during the AM and PM peak hours, primarily due to the high delay from the northbound and southbound directions, each serviced by a single lane in the respective directions; and
10. Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour primarily due to the heavy volumes on all approaches of the intersection.

[1] Driveway does not currently exist; would be developed as part of Access Option 1, 2, or 3.

Table 2.4-1
Peak Hour Intersection Level of Service – Existing Conditions

Intersection	Control	AM Peak Hour		PM Peak Hour	
		Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	42.6	D	59.9	**E**
2. Genesee Avenue & Bannock Avenue	Signal	19.7	B	10.5	B
3. Genesee Avenue & Chateau Drive	Signal	11.0	B	4.7	A
4. Genesee Avenue & Mt Herbert Avenue	Signal	13.7	B	7.8	A
5. Genesee Avenue & Derrick Drive	Signal	16.9	B	50.9	D
6. Mt Everest Boulevard & Mt Etna Drive	AWSC	9.0	A	10.6	B
7. Genesee Avenue & Mt Etna Drive	Signal	20.1	C	24.5	C
8. Clairemont Drive & Balboa Avenue	Signal	37.7	D	60.1	**E**
9. Mt Everest Boulevard & Balboa Avenue	Signal	73.7	**E**	58.7	**E**
10. Genesee Avenue & Balboa Avenue	Signal	36.3	D	59.1	**E**
11. Shopping Center Driveway & Balboa Avenue	Signal	20.9	C	15.4	B
12. Mt Abernathy Avenue & Balboa Avenue	Signal	35.8	D	41.6	D
13. Cannington Drive & Balboa Avenue	Signal	10.6	B	24.0	C
14. Charger Boulevard & Balboa Avenue	Signal	43.4	D	33.3	C
15. I-805 Southbound Ramps & Balboa Avenue	Signal	9.5	A	7.5	A
16. I-805 Northbound Ramps & Balboa Avenue	Signal	8.8	A	9.1	A
17. Genesee Avenue & Mt Alifan Drive	Signal	47.6	D	50.5	D
18. Project Driveway & Mt Etna Drive	DNE	—	—	—	—

NOTES:
Bold letter indicates unacceptable LOS E or F.
AWSC = all-way stop controlled; SSSC = side-street stop controlled; DNE = does not exist

SOURCE: Chen Ryan 2019 (Appendix I-1)

Roadway Segments

Table 2.4-2 displays the LOS analysis results for key study area roadway segments under Existing Conditions. As shown in the table, all of the key study area roadway segments are currently operating at acceptable LOS D or better, with the exception of the following five roadway segments:

12. Balboa Avenue, between Clairemont Drive and Mount Everest Boulevard (LOS E);

Table 2.4-2
Roadway Segment Level of Service – Existing Conditions

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	V/C	LOS
Genesee Avenue	Between Appleton Street & Clairemont Mesa Boulevard	4-Lane Major Arterial	Raised Median	23,097	40,000	0.577	C
	Between Clairemont Mesa Boulevard & Bannock Avenue	4-Lane Major Arterial	Undivided	24,483	40,000	0.612	C
	Between Bannock Avenue & Chateau Drive	4-Lane Major Arterial	Raised Median	25,244	40,000	0.631	C
	Between Chateau Drive & Mt Herbert Avenue	4-Lane Major Arterial	Raised Median	24,958	40,000	0.624	C
	Between Mt Herbert Avenue & Derrick Drive	4-Lane Major Arterial	Raised Median	23,242	40,000	0.581	C
	Between Derrick Drive & Mt Etna Drive	6-Lane Major Arterial	Raised Median	25,645	50,000	0.513	B
	Between Mt Etna Drive & Balboa Avenue	5-Lane Major Arterial	Raised Median	27,743	45,000	0.617	C
	Between Balboa Avenue & Mt Alifan Drive	5-Lane Major Arterial	Raised Median	23,259	45,000	0.517	B
	Between Mt Alifan Drive & Genesee Court	4-Lane Major Arterial	Raised Median	23,742	40,000	0.594	C
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Lane Collector w/o CLTL	Undivided	4,206	8,000	0.526	C
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Lane Collector w/o CLTL	Undivided	4,090	8,000	0.511	C
Balboa Avenue	Between Clairemont Drive & Mt Everest Boulevard	4-Lane Major Arterial	Raised Median	35,014	40,000	0.875	**E**
	Between Mt Everest Boulevard & Genesee Avenue	4-Lane Major Arterial	Raised Median	32,421	40,000	0.811	D

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	V/C	LOS
	Between Genesee Avenue & Shopping Center Driveway	6-Lane Major Arterial	Raised Median	32,231	50,000	0.645	C
	Between Shopping Center Driveway & Mt Abernathy Avenue	6-Lane Major Arterial	Raised Median	35,984	50,000	0.720	C
	Between Mt Abernathy Avenue & Cannington Drive	6-Lane Major Arterial	Raised Median	47,147	50,000	0.943	**E**
	Between Cannington Drive & Charger Boulevard	6-Lane Major Arterial	Raised Median	49,421	50,000	0.988	**E**
	Between Charger Boulevard & I-805 Southbound Ramps	6-Lane Major Arterial	Raised Median	61,846	50,000	1.237	**F**
	Between I-805 Southbound Ramps & I-805 Northbound Ramps*	8-Lane Prime Arterial	Raised Median	49,153	80,000	0.614	B
	Between I-805 Northbound Ramps & Ruffner Street	6-Lane Major Arterial	Raised Median	51,228	50,000	1.025	**F**

NOTES:

Bold letter indicates unacceptable LOS E or F.

ADT = average daily traffic; V/C = volume-to-capacity ratio; LOS = level of service; Ln = lane; CLTL = continuous left-turn lane

* The Balboa Ave segment between the southbound and northbound I-805 ramps is classified as a 6-lane major according to the CMCP; however, the actual roadway cross-section includes eight lanes (two of which are auxiliary ramp lanes).

SOURCE: Chen Ryan 2019 (Appendix I-1)

16. Balboa Avenue, between Mount Abernathy Avenue and Cannington Drive (LOS E);
17. Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS E); and
18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F).

Ramp Meters

A ramp metering analysis was conducted to calculate delays and queues at the study area freeway on-ramps. Within the project study area, the I-805 northbound on-ramp at Balboa Avenue (study intersection no. 16) and the I-805 southbound on-ramp at Balboa Avenue (study intersection no. 15) have activated ramp meters. **Table 2.4-3** summarizes the freeway ramp metering analysis results under Existing Conditions. As shown in the table, the anticipated peak hour demand does not exceed the average meter rate at either of the study ramp meter locations.

Table 2.4-3
Ramp Metering Analysis – Existing Conditions

On-Ramp	# of Lanes SOV	# of Lanes HOV	Peak Hour	Demand[a] (veh/hr) per lane	Meter Rate[b] (veh/hr) per lane	Excess Demand[c] (veh/hr) per lane	Delay[d] (min)	Queue[e] (ft)	Storage Length (ft)	Excess Queue (ft)
I-805 SB On-Ramp @ Balboa Ave EB	1	1	PM	384	423	0	0	0	1,000	0
I-805 NB Ramp @ Balboa Ave EB	1	1	AM	314	511	0	0	0	410	0

NOTES:

SOV = single-occupancy vehicle; HOV = high-occupancy vehicle

a Demand is the peak hour demand expected to use the on-ramp.

b Meter Rate is the peak hour capacity expected to be processed through the ramp meter. This value was obtained from Caltrans.

c Excess Demand = (Demand) – (Meter Rate) or zero, whichever is greater.

d Delay = (Excess Demand / Meter Rate) X 60 min/hr.

e Queue = (Excess Demand) X 29 ft/veh.

SOURCE: Chen Ryan 2019 (Appendix I-1)

2.4.1.4 Existing Pedestrian Conditions

Sidewalks are provided on both sides of Mount Etna Drive along the project frontage. The sidewalk along Mount Etna Drive on the north side fronts a commercial plaza across from the project site. Heading west, the sidewalk then

continues to the nearby residential neighborhoods. Crosswalks are present on all four legs of the Genesee Avenue and Mount Etna Drive intersection less than 150 feet northeast from the project site.

Mount Etna Drive provides east/west connectivity from the project site to nearby residential neighborhoods, as well as to nearby commercial shopping centers such as the Genesee Plaza Shopping Center and the Liberty Park Plaza shopping center. A pedestrian-friendly speed limit of 15 mph is posted at the entrance to the residential neighborhood accompanied by road speed bumps that end at the Mount Everest and Mount Etna Drive intersection.

All streets immediately surrounding the project site include sidewalks. All signalized intersections within the project study area include striped crosswalks, pedestrian signal heads, and American with Disabilities Act (ADA)-compliant ramps, where crossings are allowed, with the exception of the following:

Pedestrian crossing is not allowed at the following locations:

- The south leg of Genesee Avenue & Chateau Drive
- The west leg of Cannington Drive and Balboa Avenue
- The east leg of Charger Boulevard & Balboa Avenue

ADA-compliant ramps are not present at the following locations:

- The southwest corner of the Genesee Avenue & Derrick Drive intersection
- The southwest corner of the Genesee Avenue & Mount Alifan Drive intersection

The north leg of the I-805 southbound Ramps and Balboa Avenue intersection does not have ADA-compliant ramps at either crossing point. The south leg of this intersection as well as the two loop ramps currently lack pedestrian signal heads and ADA-compliant ramps.

The south leg of the I-805 northbound Ramps and Balboa Avenue intersection does not have ADA-compliant ramps at either crossing point. The north leg of this intersection as well as the two loop ramps currently lack pedestrian signal heads and ADA-compliant ramps.

2.4.1.5 Existing Bicycle Conditions

There are currently no bicycle facilities directly accessing the project site on Mount Etna Drive; however, Class II bike lanes are present on both sides of Genesee Avenue and Balboa Avenue. The southbound Class II bike lane on Genesee Avenue to the east of the project site is painted green for high visibility

as the lane approaches the Genesee Avenue and Balboa Avenue intersection and is located adjacent to a right-turn pocket.

2.4.1.6 Existing Transit Conditions

The project site is not directly served by transit. However, San Diego MTS Bus Route #27 and #41, described below, have multiple stops within a mile of the project site. The transit lines are illustrated in **Figure 2.4-2**.

MTS Bus Route #27 connects Pacific Beach to the west and the Kearny Mesa Transit Center to the east. The Balboa Avenue and Genesee Avenue bus stop is the closest bus stop to the project site within 400 feet. MTS Bus Route #27 runs every 30 minutes during peak periods and hourly during off-peak period on weekdays and hourly on Saturdays. MTS Bus Route #27 does not operate on Sundays. MTS Bus Route #27 runs from approximately from 5:30 AM to 10:00 PM on weekdays and 6:00 AM and 8:30 PM on Saturdays.

MTS Bus Route #41 connects the University of California San Diego (UCSD)/University Towne Centre (UTC) to the north and Fashion Valley to the south. The Genesee Avenue and Mount Etna Drive bus stop is the closest bus stop to the project site within 400 feet. MTS Bus Route #41 runs every 15 minutes during peak periods and every 30 minutes during off-peak period on weekdays. When UCSD is in session, MTS Bus Route #41 runs every 6 minutes between 6:47 AM and 9:32 AM towards UCSD/UTC and between 2:59 PM and 5:29 PM towards Fashion Valley. MTS Bus Route #41 also runs every 30 minutes during peak periods and hourly during off-peak periods on the weekends. MTS Bus Route #41 runs from approximately 5:20 AM and 11:40 PM on weekdays, 6:30 AM and 10:00 PM on Sundays, and 6:00 AM and 10:30 PM on Saturdays.

2.4.2 Regulatory Setting

2.4.2.1 State

California Department of Transportation

The California Department of Transportation (Caltrans) is the primary state agency responsible for transportation issues. One of its duties is the construction and maintenance of the state highway system. Caltrans has established standards for street traffic flow and has developed procedures to determine if intersections require improvements. For projects that may physically affect facilities under its administration, Caltrans requires encroachment permits before any construction work may be undertaken. For projects that would not physically affect facilities but may influence traffic flow and levels of services at such facilities, Caltrans may recommend measures to mitigate the traffic impacts of such projects.

Senate Bill 743

On September 27, 2013, Senate Bill (SB) 743 was signed into law. SB 743 started a process that could fundamentally change transportation impact analysis as part of California Environmental Quality Act (CEQA) compliance. These changes include the elimination of auto delay, LOS, and other similar measures of vehicular capacity or traffic congestion as a basis for determining significant impacts in many parts of California (if not statewide). SB 743 required the Governor's Office of Planning and Research (OPR) to propose revisions to the CEQA Guidelines establishing new criteria to "promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses." (Public Resources Code Section 21099(b)(1).)

The latest CEQA Guidelines Section 15064.3, subdivision (b) was adopted in December 2018 by the California Natural Resources Agency. These revisions to the CEQA Guidelines criteria for determining the significance of transportation impacts are primarily focused on projects within transit priority areas (TPAs), and shifts the focus from driver delay to reduction of greenhouse gas emissions, creation of multimodal networks, and promotion of a mix of land uses (which in turn reduces vehicle trips). Vehicle miles traveled (VMT) is a measure of the total number of miles driven to or from a development and is sometimes expressed as an average per trip or per person.

The adopted guidance provides that a lead agency may elect to be governed by the provisions of this section immediately. Beginning on July 1, 2020, the provisions of this section shall apply statewide. The City is currently engaged in this process and has not yet formally adopted its updated transportation significance thresholds or its updated transportation impact analysis procedures. Since the regulations of SB 743 have not been finalized or adopted by the City, automobile delay remains the measure used to determine the significance of a traffic impact. However, a VMT analysis was conducted for the proposed project, and is summarized in the discussion of project impacts for informational purposes.

2.4.2.2 Regional

San Diego Forward: The Regional Plan

The San Diego Association of Governments (SANDAG) is the regional authority that creates regional specific documents to provide guidance to local agencies, as SANDAG does not have land use authority. SANDAG's San Diego Forward: The Regional Plan (Regional Plan) was adopted by the SANDAG Board of Directors on October 9, 2015 (SANDAG 2015). The Regional Plan combines two of the region's existing planning documents: the Regional Comprehensive Plan (RCP) for the San Diego Region and the Regional Transportation

Plan/Sustainable Communities Strategy (RTP/SCS). The RCP, adopted in 2004, laid out key principles for managing the region's growth while preserving natural resources and limiting urban sprawl. The plan covered eight policy areas, including urban form, transportation, housing, health environment, economic prosperity, public facilities, our borders, and social equity. These policy areas were addressed in the 2050 RTP/SCS and are now fully integrated into the Regional Plan. The project site is located within a planned (2035) TPA identified on the TPA map contained in the SANDAG's San Diego Forward: The Regional Plan (City of San Diego 2019).

2.4.2.3 Local

San Diego County General Plan

The San Diego County General Plan Mobility Element provides a framework for a balanced, multi-modal transportation system within the unincorporated areas of the County of San Diego. The Mobility Element includes a description of the County's transportation network and the goals and policies that address safety, efficiency, maintenance, and management of the transportation network.

City of San Diego General Plan

The Mobility Element of the City of San Diego General Plan defines the policies regarding traffic flow and transportation facility design. The purpose of the Mobility Element is "to improve mobility through development of a balanced, multi-modal transportation network." The main goals of the Mobility Element pertain to walkable communities, transit first, street and freeway system, intelligent transportation systems (ITS), Transportation Demand Management (TDM), bicycling, parking management, airports, passenger rail, goods movement/freight, and regional transportation coordination and financing

Clairemont Mesa Community Plan

The primary goal for transportation as stated in the CMCP is to "[P]rovide a safe and efficient transportation system that maximizes access to community activity centers and to destinations within the City, minimizing adverse environmental effects" (CMCP page 12).

2.4.3 Analysis of Project Effects and Determination as to Significance

The following thresholds have been established by the City to determine significance under CEQA related to traffic impacts:

1. If any intersection or roadway segment affected by a project would operate at LOS E or F under either direct or cumulative conditions, the impact would be significant if the project exceeds the thresholds shown in **Table 2.4-4**;

2. At any ramp meter location with delays above 15 minutes, the impact would be significant if the project exceeds the thresholds shown in Table 2.4-4;
3. If a project would add a substantial amount of traffic as shown in Table 2.4-4 to a congested freeway segment, interchange, or ramp, the impact may be significant;
4. If a project would increase traffic hazards to motor vehicles, bicyclists, or pedestrians due to proposed non-standard design features (e.g., poor sight distance, proposed driveway onto an access-restricted roadway), the impact would be significant;
5. If a project would result in the construction of a roadway which is inconsistent with the General Plan and/or a community plan, the impact would be significant if the proposed roadway would not properly align with other existing or planned roadways;
6. If a project would result in a substantial restriction in access to publicly or privately owned land, the impact would be significant;

Table 2.4-4
City of San Diego Traffic Thresholds

	Allowable Change Due to Project Impact**					
	Freeways		Roadway Segments		Intersections	Ramp Metering
Level of Service with Project*	V/C	Speed (mph)	V/C	Speed (mph)	Delay (sec.)	Delay (min.)
E (or ramp meter delays above 15 min.)	0.010	1.0	0.02	1.0	2.0	2.0
F (or ramp meter delays above 15 min.)	0.005	0.5	0.01	0.5	1.0	1.09

* All level of service (LOS) measurements are based upon HCM procedures for peak-hour conditions. However, vehicle to capacity (V/C) ratios for roadway segments may be estimated on an ADT/24-hour traffic volume basis (using Table 2.1 or a similar LOS chart for each jurisdiction). The acceptable LOS for freeways, roadways, and intersections is generally “D” (“C” for undeveloped or not densely developed locations per jurisdiction definitions). For metered freeway ramps, LOS does not apply. However, ramp meter delays above 15 minutes are considered excessive.

** If a Proposed Project’s traffic causes the values shown in the table to be exceeded, the impacts are determined to be significant. These impact changes may be measured from appropriate computer programs or expanded manual spreadsheets. The project applicant shall then identify feasible mitigation (within the Traffic Impact Study report) that would maintain the traffic facility at an acceptable LOS. If the LOS with the Proposed Project becomes unacceptable (see above * note), or if the project adds a significant amount of peak-hour trips to cause any traffic queues to exceed on- or off-ramp storage capacities, the project applicant shall be responsible for mitigating significant impact changes.

In addition, the following criterion from Appendix G of the CEQA Guidelines was used for the evaluation of VMT impacts:

- Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3 subdivision (b)?

However, as stated above in the Section 2.4.2, Regulatory Setting, the City has not yet adopted VMT thresholds and, therefore, this the evaluation of VMT impacts is provided for informational purposes only.

2.4.3.1 Traffic Generation and Existing Capacity

Issue 1: Would the project result in traffic generation that would cause an intersection, roadway segment, freeway segment, interchange or ramp to operate at LOS E or F under either direct or cumulative conditions and exceed the significance thresholds detailed in Table 2.4-4?

The analysis of impacts under Issue 1 addresses Significance Determination Thresholds 1, 2, and 3 as detailed in Section 2.4.3, above. The analysis includes three traffic condition scenarios: Existing Plus Project; Year 2021 Plus Project; and Year 2050 Plus Project, and includes an evaluation of each of the three access options. It should be noted that freeway segments did not warrant evaluation because the proposed project would contribute less than 150 peak hour trips to nearby freeways. The analysis is for the proposed Community Plan Amendment (CPA) and rezone of the project site. The site demolition and preparation phase of the proposed project would not produce permanent traffic requiring analysis under the City Significance Determination Thresholds.

Information used in this section is from the Transportation Impact Study (TIS), the TIS Addendum, and the VMT Addendum, prepared by Chen Ryan for the proposed project (Chen Ryan 2019), which are included as Appendix I of this EIR. At the time the TIS was prepared, the future residential project consisted of 448 affordable housing units with site access provided via one driveway on Mount Etna Drive. The future project was subsequently limited to 404 affordable dwelling units and three site access options: (1) one driveway on Mount Etna Drive; (2) two driveways: one on Mount Etna Drive and one on Genesee Avenue; and (3) three driveways: one on Mount Etna Drive, one on Genesee Avenue, and one on Balboa Avenue). For these reasons, the TIS Addendum was prepared. As such, the transportation and traffic analysis and impact evaluation summarized below is based on the results described in the TIS Addendum and not the TIS.

Impact Analysis

Trip Generation, Distribution, and Assignment

The proposed project trip generation estimates were derived utilizing the trip generation rates outlined in Table 1 of the *City of San Diego Land Development Code – Trip Generation Manual 2003*. Additionally, trip reductions from the City's Traffic Impact Study Manual were applied to the trip generation estimates to account for its location in a TPA with high-frequency transit service on Genesee Avenue and high frequency transit service planned along Balboa Avenue by 2035.

Consequently, the following trip reductions were applied to the project's trip generation estimates to take credit for future residents using transit in lieu of driving:

- Daily trips = 5 percent
- AM Peak Hour trips = 9 percent
- PM Peak Hour trips = 6 percent

Taking into account these trip reductions, the proposed project is anticipated to generate a total of 2,018 daily trips, including 138 AM peak hour trips and 169 PM peak hour trips. The trip distribution for the proposed project was developed based on a SANDAG Series 13 Transportation Forecast Select Zone Assignment. This model was developed and is being used for the on-going CMCP Update. Additionally, the project's traffic analysis zone (TAZ) land use was updated to include the proposed land use.

Based on the assumed project trip distribution and the three access options, daily, AM peak hour, and PM peak hour estimates were added onto the project driveway(s), as well as the roadways and intersections immediately adjacent to the project driveway(s).

Existing plus Project

The Existing plus Project traffic scenario represents an analysis of existing traffic conditions with the addition of trips generated by the proposed project. Under this scenario, the proposed project's traffic volumes were added to the existing traffic volumes.

Table 2.4-5 displays intersection level of service and average vehicle delay results for the key study area intersections under Existing plus Project conditions with all three access options. **Table 2.4-6** displays the level of service and volume-to-capacity (v/c) analysis results for key study area roadway segments under Existing plus Project conditions. **Table 2.4-7** summarizes the ramp metering analysis for Existing plus Project conditions at the two study intersections (no. 15 and no. 16) with activated ramp meters. Level of service calculation worksheets and ramp meter analysis details for Existing plus Project conditions are provided in Appendix I.

Table 2.4-5
Peak Hour Intersection Level of Service – Existing plus Project

		No Project				With Access Option 1				With Access Option 2				With Access Option 3			
Intersection	**Control**	**Avg. Delay (sec) AM**	**LOS AM**	**Avg. Delay (sec) AM**	**LOS PM**	**Avg. Delay (sec) AM**	**LOS AM**	**Avg. Delay (sec) AM**	**LOS PM**	**Avg. Delay (sec) AM**	**LOS AM**	**Avg. Delay (sec) AM**	**LOS PM**	**Avg. Delay (sec) AM**	**LOS AM**	**Avg. Delay (sec) AM**	**LOS PM**
1: Genesee Ave & Clairemont Mesa Blvd	Signal	42.6	D	59.9	**E**	42.90	D	61.80	**E**	42.90	D	61.80	**E**	42.90	D	61.80	**E**
2: Genesee Ave & Bannock Ave	Signal	19.7	B	10.5	B	19.80	B	10.50	B	19.80	B	10.50	B	19.80	B	10.50	B
3: Genesee Ave & Chateau Dr	Signal	11.0	B	4.7	A	11.20	B	4.70	A	11.20	B	4.70	A	11.20	B	4.70	A
4: Mt Herbert Ave & Genesee Ave	Signal	13.7	B	7.8	A	13.70	B	7.70	A	13.70	B	7.70	A	13.70	B	7.70	A
5: Genesee Ave & Derrick Dr	Signal	16.9	B	50.9	D	16.80	B	51.80	D	16.80	B	51.80	D	16.80	B	51.80	D
6: Mt Everest Blvd & Mt Etna Dr	AWSC	9.0	A	10.6	B	9.20	A	11.00	B	9.10	A	10.90	B	1.20	A	2.30	A
7: Genesee Ave & Mt Etna Dr	Signal	20.1	C	24.5	C	22.50	C	25.40	C	21.20	C	25.10	C	21.10	C	25.00	C
8: Clairemont Dr & Balboa Ave	Signal	37.7	D	60.1	**E**	38.00	D	61.70	**E**	38.00	D	61.70	**E**	38.00	D	61.70	**E**
9: Balboa Ave & Mt Everest Blvd	Signal	73.7	**E**	58.7	**E**	80.10	**F**	59.50	**E**	75.00	**E**	59.20	**E**	78.70	**E**	62.70	**E**
10: Genesee Ave & Balboa Ave	Signal	36.3	D	59.1	**E**	36.90	D	59.40	**E**	37.00	D	59.80	**E**	37.80	D	63.20	**E**
11: Balboa Ave & Shopping Center Drwy	Signal	20.9	C	15.4	B	21.10	C	15.20	B	21.10	C	15.20	B	21.10	C	15.20	B
12: Mt Alifan Dr/Mt Abernathy Ave & Balboa Ave	Signal	35.8	D	41.6	D	36.90	D	41.80	D	36.90	D	41.80	D	36.90	D	41.80	D
13: Mt Albertine Ave/Cannington Dr & Balboa Ave	Signal	10.6	B	24.0	C	10.50	B	25.60	C	10.50	B	25.60	C	10.50	B	25.60	C
14: Eckstrom Ave/Charger Blvd & Balboa Ave	Signal	43.4	D	33.3	C	44.60	D	33.30	C	44.60	D	33.30	C	44.60	D	33.30	C
15: I-805 SB Ramps & Balboa Ave	Signal	9.5	A	7.5	A	10.60	B	8.60	A	10.60	B	8.60	A	10.60	B	8.60	A
16: I-805 NB Ramps & Balboa Ave	Signal	8.8	A	9.1	A	9.80	A	10.10	B	9.80	A	10.10	B	9.80	A	10.10	B
17: Genesee Ave & Mt Alifan Dr	Signal	47.6	D	50.5	D	47.60	D	50.50	D	47.60	D	50.50	D	47.60	D	50.50	D
18: Project Driveway #1 & Mt Etna Dr	SSSC	DNE	DNE	DNE	DNE	9.90	A	10.50	B	9.50	A	10.10	B	9.30	A	9.70	A
19: Genesee Ave & Project Driveway #2	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	11.90	B	17.30	C	11.70	B	16.80	C
20: Balboa Ave & Project Driveway #3	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.70	B	16.80	C

NOTES:

Bold letter indicates unacceptable LOS E or F and significant impact.

AWSC = all-way stop controlled; SSSC = side-street stop controlled; DNE = does not exist.

SOURCE: Chen Ryan 2019

Table 2.4-6
Roadway Segment Level of Service – Existing plus Project

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Access Option 1			With Access Option 2			With Access Option 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Genesee Avenue	Appleton Street & Clairemont Mesa Boulevard	4M	40,000	23,097	0.577	C	23,379	0.584	C	23,379	0.584	C	23,379	0.584	C
Genesee Avenue	Clairemont Mesa Boulevard & Bannock Avenue	4M	40,000	24,483	0.612	C	24,847	0.621	C	24,847	0.621	C	24,847	0.621	C
Genesee Avenue	Bannock Avenue & Chateau Drive	4M	40,000	25,244	0.631	C	25,608	0.640	C	25,608	0.640	C	25,608	0.640	C
Genesee Avenue	Chateau Drive & Mount Herbert Avenue	4M	40,000	24,958	0.624	C	25,342	0.634	C	25,342	0.634	C	25,342	0.634	C
Genesee Avenue	Mount Herbert Avenue & Derrick Drive	4M	40,000	23,242	0.581	C	23,626	0.591	C	23,626	0.591	C	23,626	0.591	C
Genesee Avenue	Derrick Drive & Mount Etna Drive	6M	50,000	25,645	0.513	B	26,189	0.524	B	26,189	0.524	B	26,189	0.524	B
Genesee Avenue	Mount Etna Drive & Balboa Avenue	5M	45,000	27,743	0.617	C	28,691	0.638	C	28,911	0.642	C	28,573	0.635	C
Genesee Avenue	Balboa Avenue & Mount Alifan Drive	5M	45,000	23,259	0.517	B	23,541	0.523	B	23,541	0.523	B	23,540	0.523	B
Genesee Avenue	Mount Alifan Drive & Genesee Court	4M	40,000	23,742	0.594	C	23,984	0.600	C	23,984	0.600	C	23,984	0.600	C
Mount Everest Boulevard	Mount Etna Drive & Balboa Avenue	2C	8,000	4,206	0.526	C	4,630	0.579	C	4,528	0.566	C	4,482	0.560	C
Mount Etna Drive	Mount Everest Boulevard & Genesee Avenue	2C	8,000	4,090	0.511	C	6,108	0.764	D	5,286	0.661	D	5,129	0.641	D
Balboa Avenue	Clairemont Drive & Mount Everest Boulevard	4M	40,000	35,014	0.875	**E**	35,398	0.885	**E**	35,398	0.885	**E**	35,398	0.885	**E**
Balboa Avenue	Mount Everest Boulevard & Genesee Avenue	4M	40,000	32,421	0.811	D	32,421	0.811	D	32,523	0.813	D	32,643	0.816	D
Balboa Avenue	Genesee Avenue & Shopping Center Driveway	6M	50,000	32,231	0.645	C	32,897	0.658	C	32,897	0.658	C	32,897	0.658	C

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Access Option 1			With Access Option 2			With Access Option 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Balboa Avenue	Shopping Center Driveway & Mount Abernathy Avenue	6M	50,000	35,984	0.720	C	36,650	0.733	C	36,650	0.733	C	36,650	0.733	C
Balboa Avenue	Mount Abernathy Avenue & Cannington Drive	6M	50,000	47,147	0.943	**E**	47,793	0.956	**E**	47,793	0.956	**E**	47,793	0.956	**E**
Balboa Avenue	Cannington Drive & Charger Boulevard	6M	50,000	49,421	0.988	**E**	50,067	1.001	**F**	50,067	1.001	**F**	50,067	1.001	**F**
Balboa Avenue	Charger Boulevard & I-805 Southbound Ramps	6M	50,000	61,846	1.237	**F**	62,492	1.250	**F**	62,492	1.250	**F**	62,492	1.250	**F**
Balboa Avenue	I-805 Southbound & I-805 Northbound Ramps	8P	80,000	49,153	0.614	B	49,638	0.620	B	49,638	0.620	B	49,638	0.620	B
Balboa Avenue	I-805 Northbound Ramps and Ruffner Street	6M	50,000	51,228	1.025	**F**	51,550	1.031	**F**	51,550	1.031	**F**	51,550	1.031	**F**

NOTES:

Bold letter indicates unacceptable LOS E or F. ADT = Average Daily Traffic.

V/C = volume-to-capacity ratio; LOS = level of service

SOURCE: Chen Ryan 2019 (Appendix I-4)

Table 2.4-7
Ramp Metering Analysis – Existing plus Project

On-Ramp	# of Lanes SOV	# of Lanes HOV	Peak Hour	Demand[a] (veh/hr) per lane	Meter Rate[b] (veh/hr) per lane	Excess Demand[c] (veh/hr) per lane	Delay[d] (min)	Queue[e] (ft)	Storage Length (ft)	Excess Queue (ft)	Delay w/o Project (min)	Δ Delay (min)	S?
I-805 SB On-Ramp @ Balboa Ave EB	1	1	PM	395	423	0	0	0	1,000	0	0	0.0	No
I-805 NB Ramp @ Balboa Ave EB	1	1	AM	316	511	0	0	0	410	0	0	0.0	No

NOTES:

SOV = single-occupancy vehicle; HOV = high-occupancy vehicle

Based upon field observation it is estimated that 20% of the vehicles at these ramp meters use the HOV lane when available. Since the majority of trips existing the school during the PM Peak hour would be parents picking up students, it is assumed that 90% of the Proposed Project trips during the PM peak hours would use the HOV lane.

[a] Demand is the peak hour demand expected to use the on-ramp.

[b] Meter Rate is the peak hour capacity expected to be processed through the ramp meter. This value was obtained from Caltrans.

[c] Excess Demand = (Demand) – (Meter Rate) or zero, whichever is greater.

[d] Delay = (Excess Demand / Meter Rate) X 60 min/hr.

[e] Queue = (Excess Demand) X 29 ft/veh.

SOURCE: Chen Ryan 2019 (Appendix I-1)

Intersections – Access Option 1

As shown in Table 2.4-5, all of the study area intersections would operate at acceptable LOS D or better during both the AM and PM peak hours with Access Option 1 (one driveway on Mount Etna Drive), with the exception of the following four intersections:

1. Genesee Avenue & Clairemont Mesa Boulevard – LOS E during the PM peak hour;
8. Clairemont Drive & Balboa Avenue – LOS E during the PM peak hour;
9. Mount Everest Boulevard & Balboa Avenue – LOS F during the AM peak hour and LOS E during the PM peak hour; and
10. Genesee Avenue & Balboa Avenue – LOS E during the PM peak.

Based on the City's Significance Determination Thresholds, outlined above in Table 2.4-4, the traffic generated by Access Option 1 would result in a significant impact at the following study intersection:

9. Mount Everest Boulevard & Balboa Avenue

Intersections – Access Option 2

For Access Option 2 (two driveways: one full-access stop-controlled driveway on Mount Etna Drive and one right-turn-in, right-turn-out only stop-controlled driveway on Genesee Avenue), the same four intersections identified above for Access Option 1 would operate at an unacceptable LOS (i.e., LOS E or LOS F) during one or more of the peak hours. However, access Option 2 would not result in any significant intersection impacts.

Intersections – Access Option 3

For Access Option 3 (three driveways, one full-access stop-controlled driveway on Mount Etna Drive, one right-turn-in, right-turn-out only stop-controlled driveway on Genesee Avenue, and one right-turn-in, right-turn-out only stop-controlled driveway on Balboa Avenue), the same four intersections identified above for Access Option 1 would operate at an unacceptable LOS (i.e., LOS E or LOS F) during one or more of the peak hours. Access Option 3 would result in two significant intersection impacts:

9. Mount Everest Boulevard & Balboa Avenue
10. Genesee Avenue & Balboa Avenue

Roadway Segments

The roadway segment analysis results are the same for all three access options. As shown in Table 2.4-6, all of the key study area roadway segments would

operate at acceptable LOS D or better with all access options, with the exception of the following five roadway segments along Balboa Avenue:

12. Balboa Avenue, between Clairemont Drive and Mount Everest Boulevard (LOS E);
16. Balboa Avenue, between Mount Abernathy Avenue and Cannington Drive (LOS E);
17. Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS F);
18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F); and
20. Balboa Avenue, between I-805 Northbound Ramps and Ruffner Street (LOS F).

Of the five roadway segments projected to operate at substandard LOS E or F under Existing plus Project conditions, the two discussed below could potentially result in a significant impact based on the Significance Determination Thresholds outlined in Table 2.4-4. Daily roadway LOS is typically used only at the planning level and does not necessarily indicate true roadway operations. Therefore, to determine if the identified roadway segments operate at acceptable levels during peak times (worst case), peak hour HCM arterial analyses and peak hour intersection analyses were conducted to better understand the actual travel flow along the roadways. According to this methodology, if peak hour arterial LOS and the LOS at the intersections at either end of the roadway segment would operate at LOS D or better, and the roadway segment is built to its ultimate classification, then the impact would be considered to be less than significant, since the actual travel flow along the segment is consider to be acceptable.

17. Balboa Avenue, between Cannington Drive and Charger Boulevard.

    The proposed project would add 646 daily trips, resulting in an increase of 0.013 in V/C ratio. The arterial level of service analysis identifies this roadway segment to operate at LOS E and LOS D in the eastbound and westbound directions, respectively, during the AM peak hour, and LOS F and LOS D in the eastbound and westbound directions, respectively, during the PM peak hour. The intersections of Mount Albertine Avenue/Cannington Drive/Balboa Avenue and Eckstrom Avenue/Charger Boulevard/Balboa Avenue are projected to operate at LOS D or better during both AM and PM peak hours. Therefore, the proposed project would result in a significant impact to this roadway segment.

18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps.

    The proposed project would add 646 daily trips, resulting in an increase of 0.013 in V/C ratio. The arterial level of service analysis identifies this roadway segment to operate at LOS B and LOS C in the eastbound and

westbound directions, respectively, during the AM peak hour, and LOS B and LOS D in the eastbound and westbound directions, respectively, during the PM peak hour. The intersections of Eckstrom Avenue/Charger Boulevard/Balboa Avenue and I-805 Southbound Ramps/Balboa Avenue are projected to operate at LOS D or better during both AM and PM peak hours. Therefore, the proposed project would not result in a significant impact to this roadway segment.

Ramp Meters

The ramp meter analysis results are the same for all three access options. As shown in the Table 2.4-7, the anticipated peak hour demand under this traffic scenario would not exceed the average meter rate at either of the study ramp meter locations. Based upon the significance criteria presented in Table 2.4-4, the addition of project traffic would not cause a significant impact to either of the study ramp meter locations.

Near-Term plus Project (Year 2021)

The Near-Term plus Project traffic scenario represents an analysis of traffic conditions in Year 2021 (i.e., open year for the proposed project) with the addition of trips generated by the proposed project. Under this scenario, the proposed project's traffic volumes were added to baseline traffic volumes, which includes traffic generated by other nearby developments expected to be completed by Year 2021. Based on review of the City's "Open DSD" website and consultation with City staff, six projects were identified for inclusion in the Near-Term plus Project traffic impact analysis due to their potential to add traffic to the project study area. Those cumulative projects would include two new or relocated charter schools, a residential care facility, a 106-room hotel, approximately 670 residential units and approximately 20,000 square feet (SF) of retail space. The cumulative projects that have potential to affect the project study area are listed in Table 1-3 of this EIR and were estimated to generate approximately 8,103 daily trips, 1,431 AM peak hour trips, and 870 PM peak hour trips. It should be noted that those projects listed in the table that would have no potential for cumulative traffic impacts are not included in this analysis. Additional detail on the cumulative projects assumed for this traffic scenario is provided in Appendix I.

Table 2.4-8 displays intersection LOS and average vehicle delay results for the key study area intersections under Near-Term plus Project conditions. **Table 2.4-9** displays the LOS analysis results for key study area roadway segments under Near-Term plus Project conditions. **Table 2.4-10** summarizes the ramp metering analysis for Near-Term plus Project conditions at the two study intersections (no. 15 and no. 16) with activated ramp meters. Level of service calculation worksheets and ramp meter analysis details for Near-Term plus Project conditions are provided in Appendix I.

Table 2.4-8
Peak Hour Intersection Level of Service – Near-Term plus Project

Intersection	Control	No Project				With Access Option 1				With Access Option 2				With Access Option 3			
		Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM
1: Genesee Ave & Clairemont Mesa Blvd	Signal	43.0	D	61.5	**E**	43.40	D	63.40	**E**	43.40	D	63.40	**E**	43.40	D	63.40	**E**
2: Genesee Ave & Bannock Ave	Signal	20.0	B	10.4	B	20.10	C	10.40	B	20.10	C	10.40	B	20.10	C	10.40	B
3: Genesee Ave & Chateau Dr	Signal	11.4	B	4.6	A	11.60	B	4.60	A	11.60	B	4.60	A	11.60	B	4.60	A
4: Mt Herbert Ave & Genesee Ave	Signal	13.6	B	7.7	A	13.60	B	7.70	A	13.60	B	7.70	A	13.60	B	7.70	A
5: Genesee Ave & Derrick Dr	Signal	17.0	B	51.1	D	16.90	B	52.10	D	16.90	B	52.10	D	16.90	B	52.10	D
6: Mt Everest Blvd & Mt Etna Dr	AWSC	9.4	A	10.8	B	9.60	A	11.10	B	9.50	A	11.00	B	9.50	A	11.00	B
7: Genesee Ave & Mt Etna Dr	Signal	19.7	B	24.6	C	22.10	C	25.60	C	20.80	C	25.20	C	20.70	C	25.10	C
8: Clairemont Dr & Balboa Ave	Signal	48.0	D	68.2	**E**	48.60	D	69.70	**E**	48.60	D	69.70	**E**	48.60	D	69.70	**E**
9: Balboa Ave & Mt Everest Blvd	Signal	116.5	**F**	64.7	**E**	127.70	**F**	65.50	**E**	123.40	**F**	65.20	**E**	124.50	**F**	69.50	**E**
10: Genesee Ave & Balboa Ave	Signal	41.1	D	59.2	**E**	41.80	D	60.00	**E**	41.90	D	60.10	**E**	43.30	D	64.90	**E**
11: Balboa Ave & Shopping Center Drwy	Signal	21.1	C	15.1	B	21.30	C	14.90	B	21.30	C	14.90	B	21.30	C	14.90	B
12: Mt Alifan Dr/Mt Abernathy Ave & Balboa Ave	Signal	39.1	D	44.4	D	41.10	D	44.60	D	41.10	D	44.60	D	41.10	D	44.60	D
13: Mt Albertine Ave/Cannington Dr & Balboa Ave	Signal	10.5	B	28.9	C	10.50	B	31.20	C	10.50	B	31.20	C	10.50	B	31.20	C
14: Eckstrom Ave/Charger Blvd & Balboa Ave	Signal	64.7	**E**	42.9	D	67.10	**E**	42.80	D	67.10	**E**	42.80	D	67.10	**E**	42.80	D
15: I-805 SB Ramps & Balboa Ave	Signal	12.5	B	9.0	A	14.10	B	10.40	B	14.10	B	10.40	B	14.10	B	10.40	B
16: I-805 NB Ramps & Balboa Ave	Signal	8.8	A	9.1	A	9.90	A	10.10	B	9.90	A	10.10	B	9.90	A	10.10	B
17: Genesee Ave & Mt Alifan Dr	Signal	58.6	**E**	55.2	**E**	58.60	**E**	55.20	**E**	58.60	**E**	55.20	**E**	58.60	**E**	55.20	**E**
18: Project Driveway #1 & Mt Etna Dr	SSSC	DNE	DNE	DNE	DNE	9.90	A	10.50	B	9.50	A	10.10	B	9.30	A	9.70	A
19: Genesee Ave & Project Driveway #2	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	12.10	B	17.70	C	11.90	B	17.20	C
20: Balboa Ave & Project Driveway #3	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.90	B	17.20	C

NOTES:

Bold letter indicates unacceptable LOS E or F and significant impact.

AWSC = all-way stop controlled; SSSC = side-street stop controlled; DNE = does not exist

SOURCE: Chen Ryan 2019 (Appendix I-4)

Table 2.4-9
Roadway Segment Level of Service – Near-Term plus Project

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Access Option 1			With Access Option 2			With Access Option 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Genesee Avenue	Appleton Street & Clairemont Mesa Boulevard	4M	40,000	23,230	0.581	C	23,512	0.588	C	23,512	0.588	C	23,512	0.588	C
Genesee Avenue	Clairemont Mesa Boulevard & Bannock Avenue	4M	40,000	24,700	0.618	C	25,064	0.627	C	25,064	0.627	C	25,064	0.627	C
Genesee Avenue	Bannock Avenue & Chateau Drive	4M	40,000	25,460	0.637	C	25,824	0.646	C	25,824	0.646	C	25,824	0.646	C
Genesee Avenue	Chateau Drive & Mount Herbert Avenue	4M	40,000	25,180	0.630	C	25,564	0.639	C	25,564	0.639	C	25,564	0.639	C
Genesee Avenue	Mount Herbert Avenue & Derrick Drive	4M	40,000	23,460	0.587	C	23,844	0.596	C	23,844	0.596	C	23,844	0.596	C
Genesee Avenue	Derrick Drive & Mount Etna Drive	6M	50,000	25,880	0.518	B	26,424	0.528	B	26,424	0.528	B	26,424	0.528	B
Genesee Avenue	Mount Etna Drive & Balboa Avenue	5M	45,000	28,060	0.624	C	29,008	0.645	C	29,228	0.650	C	28,890	0.642	C
Genesee Avenue	Balboa Avenue & Mount Alifan Drive	5M	45,000	24,110	0.536	B	24,392	0.542	B	24,392	0.542	B	24,391	0.542	B
Genesee Avenue	Mount Alifan Drive & Genesee Court	4M	40,000	23,940	0.599	C	24,182	0.605	C	24,182	0.605	C	24,182	0.605	C
Mount Everest Boulevard	Mount Etna Drive & Balboa Avenue	2C	8,000	4,340	0.543	C	4,764	0.596	C	4,662	0.583	C	4,616	0.577	C
Mount Etna Drive	Mount Everest Boulevard & Genesee Avenue	2C	8,000	4,090	0.511	C	6,108	0.764	D	5,286	0.661	D	5,129	0.641	D
Balboa Avenue	Clairemont Drive & Mount Everest Boulevard	4M	40,000	36,120	0.903	**E**	36,504	0.913	**E**	36,504	0.913	**E**	36,504	0.913	**E**
Balboa Avenue	Mount Everest Boulevard & Genesee Avenue	4M	40,000	33,020	0.826	D	33,020	0.826	D	33,122	0.828	D	33,242	0.831	D
Balboa Avenue	Genesee Avenue & Shopping Center Driveway	6M	50,000	33,460	0.669	C	34,126	0.683	C	34,126	0.683	C	34,126	0.683	C
Balboa Avenue	Shopping Center Driveway & Mount Abernathy Avenue	6M	50,000	36,870	0.737	C	37,536	0.751	C	37,536	0.751	C	37,536	0.751	C

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Access Option 1			With Access Option 2			With Access Option 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Balboa Avenue	Mount Abernathy Avenue & Cannington Drive	6M	50,000	48,610	0.972	**E**	49,256	0.985	**E**	49,256	0.985	**E**	49,256	0.985	**E**
Balboa Avenue	Cannington Drive & Charger Boulevard	6M	50,000	50,930	1.019	**F**	51,576	1.032	**F**	51,576	1.032	**F**	51,576	1.032	**F**
Balboa Avenue	Charger Boulevard & I-805 Southbound Ramps	6M	50,000	63,430	1.269	**F**	64,076	1.282	**F**	64,076	1.282	**F**	64,076	1.282	**F**
Balboa Avenue	I-805 Southbound & I-805 Northbound Ramps	8P	80,000	50,180	.627	C	50,665	0.633	C	50,665	0.633	C	50,665	0.633	C
Balboa Avenue	I-805 Northbound Ramps and Ruffner Street	6M	50,000	51,430	1.029	**F**	51,752	1.035	**F**	51,752	1.035	**F**	51,752	1.035	**F**

NOTES:

Bold letter indicates unacceptable LOS E or F.

ADT = average daily traffic; V/C = volume-to-capacity ratio; LOS = level of service

SOURCE: Chen Ryan 2019 (Appendix I-4)

Table 2.4-10
Ramp Metering Analysis – Near-Term plus Project

On-Ramp	# of Lanes		Peak Hour	Demand[a] (veh/hr) per lane	Meter Rate[b] (veh/hr) per lane	Excess Demand[c] (veh/hr) per lane	Delay[d] (min)	Queue[e] (ft)	Storage Length (ft)	Excess Queue (ft)	Delay w/o Project (min)	Δ Delay (min)	S?
	SOV	HOV											
I-805 SB On-Ramp @ Balboa Ave EB	1	1	PM	395	423	0	0	0	1,000	0	0	0.0	No
I-805 NB Ramp @ Balboa Ave EB	1	1	AM	316	511	0	0	0	410	0	0	0.0	No

NOTES:

SOV = single-occupancy vehicle; HOV = high-occupancy vehicle

Based upon field observation, it is estimated that 20% of the vehicles at these ramp meters use the HOV lane when available.

[a] Demand is the peak hour demand expected to use the on-ramp.

[b] Meter Rate is the peak hour capacity expected to be processed through the ramp meter. This value was obtained from Caltrans.

[c] Excess Demand = (Demand) – (Meter Rate) or zero, whichever is greater.

[d] Delay = (Excess Demand / Meter Rate) X 60 min/hr.

[e] Queue = (Excess Demand) X 29 ft/veh.

SOURCE: Chen Ryan 2019 (Appendix I-1)

Intersections – Access Options 1 and 2

The intersection LOS analysis results are the same for Access Options 1 and 2. As shown in Table 2.4-8, all of the study area intersections would operate at acceptable LOS D or better during both the AM and PM peak hours with Access Options 1 and 2, with the exception of the following six intersections:

1. Genesee Avenue & Clairemont Mesa Boulevard – LOS E during the PM peak hour;
8. Clairemont Drive & Balboa Avenue – LOS E during the PM peak hour;
9. Mount Everest Boulevard & Balboa Avenue – LOS F during the AM peak hour and LOS E during the PM peak hour;
10. Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour;
14. Charger Boulevard & Balboa Avenue – LOS E during the AM peak hour; and
17. Genesee Avenue & Mount Alifan Drive – LOS E during both the AM and PM peak hours.

Based on the City's Significance Determination Thresholds, outlined above in Table 2.4-4, the traffic generated by Access Options 1 and 2 would result in a significant impact at the following two study intersections:

9. Mount Everest Boulevard & Balboa Avenue; and
14. Charger Boulevard & Balboa Avenue.

Intersections – Access Option 3

For Access Option 3, the same six intersections identified above for Access Option 1 would operate at an unacceptable LOS (i.e., LOS E or LOS F) during one or more of the peak hours. Access Option 3 would result in a significant intersection impact at the following three study intersections:

9. Mount Everest Boulevard & Balboa Avenue;
10. Genesee Avenue & Balboa Avenue; and
14. Charger Boulevard & Balboa Avenue.

Roadway Segments:

The roadway segment analysis results under Near-Term plus Project conditions are the same for all three access options. As shown in **Table 2.4-9**, all of the key

study area roadway segments would operate at acceptable LOS D or better, with the exception of the following five roadway segments:

12. Balboa Avenue, between Clairemont Drive and Mount Everest Boulevard (LOS E);
16. Balboa Avenue, between Mount Abernathy Avenue and Cannington Drive (LOS E);
17. Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS F);
18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F); and
20. Balboa Avenue, between I-805 Northbound Ramps and Ruffner Street (LOS F).

Of the five roadway segments projected to operate at substandard LOS E or F under Near-Term plus Project conditions, the two discussed below could potentially result in a significant impact based on the Significance Determination Thresholds outlined in Table 2.4-4. Daily roadway LOS is typically used only at the planning level and does not necessarily indicate true roadway operations. Therefore, to determine if the identified roadway segments operate at acceptable levels during peak times (worst case), peak hour aerial analyses and peak hour intersection analyses were conducted to better understand the actual travel flow along the roadways. If peak hour arterial LOS and the LOS at the intersections at either end of the roadway segment would operate at LOS D or better, and the roadway segment is built to its ultimate classification, then the impact would be considered to be less than significant, since the actual travel flow along the segment is considered to be acceptable.

17. Balboa Avenue, between Cannington Drive and Charger Boulevard.

    The proposed project would add 646 daily trips, resulting in an increase of 0.013 in V/C ratio. The arterial level of service analysis identifies this roadway segment to operate at LOS E and LOS D in the eastbound and westbound directions, respectively, during the AM peak hour, and LOS F and LOS D in the eastbound and westbound directions, respectively, during the PM peak hour. The intersections of Mount Albertine Avenue/Cannington Drive/Balboa Avenue and Eckstrom Avenue/Charger Boulevard/Balboa Avenue are projected to operate at LOS D or better during both AM and PM peak hours. Therefore, the proposed project would result in a significant impact to this roadway segment.

18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps.

    The proposed project would add 962 daily trips, resulting in an increase of 0.013 in V/C ratio. The arterial level of service analysis identifies this roadway segment to operate at LOS B and LOS C in the eastbound and westbound directions, respectively, during the AM peak hour, and LOS B and LOS D in the eastbound and westbound directions, respectively, during the PM peak hour. The intersection of Eckstrom Avenue/Charger Boulevard/Balboa Avenue is projected to operate at LOS E in the AM peak hour and LOS D in the PM peak hour, and the intersection of I-805 Southbound Ramps/Balboa Avenue is projected to operate at LOS B or better during both AM and PM peak hours. Therefore, the proposed project would result in a significant impact to this roadway segment.

Ramp Meters

The ramp meter analysis results are the same for all three access options. As shown in Table 2.4-10, the anticipated peak hour demand under this traffic scenario would not exceed the average meter rate at either of the study ramp meter locations. Based upon the Significance Determination Thresholds presented in Table 2.4-4, the addition of project traffic would not cause a significant impact to either of the study ramp meter locations.

Cumulative plus Project (Year 2050)

The Cumulative plus Project traffic scenario represents an analysis of traffic conditions at community buildout in Year 2050 with the addition of trips generated by the proposed project. Under this scenario, the proposed project's traffic volumes were added to baseline traffic volumes. Similar to the Select Zone analysis that was used for the project's trip distribution, the forecast model for the CMCP Update was used to develop the Year 2050 volumes. The peak hour intersection turning movements were developed by comparing existing and forecasted Year 2050 ADTs, as well as peak hour approach and departure volumes, then applying the respective growth factors. Manual adjustments were also made to ensure that traffic volumes among adjacent intersections are reasonably balanced.

Table 2.4-11 displays intersection LOS and average vehicle delay results for the key study area intersections under Cumulative plus Project conditions. **Table 2.4-12** displays the LOS analysis results for key study area roadway segments under Cumulative plus Project conditions. **Table 2.4-13** summarizes the ramp metering analysis for Cumulative plus Project conditions at the two study intersections (no. 15 and no. 16) with activated ramp meters. Level of service calculation worksheets and ramp meter analysis details for Cumulative plus Project conditions are provided in Appendix I.

Table 2.4-11
Peak Hour Intersection Level of Service – Cumulative plus Project

Intersection	Control	No Project				With Access Option 1				With Access Option 2				With Access Option 3			
		Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM
1: Genesee Ave & Clairemont Mesa Blvd	Signal	65.9	**E**	95.9	**F**	67.50	**E**	98.50	**F**	67.50	**E**	98.50	**F**	67.50	**E**	98.50	**F**
2: Genesee Ave & Bannock Ave	Signal	28.5	C	12.7	B	28.60	C	12.80	B	28.60	C	12.80	B	28.60	C	12.80	B
3: Genesee Ave & Chateau Dr	Signal	12.4	B	5.9	A	12.90	B	5.80	A	12.90	B	5.80	A	12.90	B	5.80	A
4: Mt Herbert Ave & Genesee Ave	Signal	18.7	B	10.9	B	18.80	B	10.80	B	18.80	B	10.80	B	18.80	B	10.80	B
5: Genesee Ave & Derrick Dr	Signal	18.0	B	51.0	D	17.90	B	52.10	D	17.90	B	52.10	D	17.90	B	52.10	D
6: Mt Everest Blvd & Mt Etna Dr	AWSC	10.8	B	13.9	B	11.10	B	14.60	B	11.00	B	14.40	B	11.00	B	14.30	B
7: Genesee Ave & Mt Etna Dr	Signal	21.7	C	26.6	C	23.60	C	27.40	C	22.80	C	27.30	C	22.60	C	27.20	C
8: Clairemont Dr & Balboa Ave	Signal	65.4	**E**	100.6	**F**	66.00	**E**	102.10	**F**	66.00	**E**	102.10	**F**	66.00	**E**	102.10	**F**
9: Balboa Ave & Mt Everest Blvd	Signal	107.9	**F**	110.4	**F**	110.90	**F**	112.70	**F**	109.80	**F**	112.30	**F**	112.10	**F**	120.20	**F**
10: Genesee Ave & Balboa Ave	Signal	42.1	D	80.2	**F**	44.70	D	83.40	F	44.90	D	84.30	**F**	47.30	D	90.20	**F**
11: Balboa Ave & Shopping Center Drwy	Signal	24.7	C	15.3	B	24.80	C	15.10	B	24.80	C	15.10	B	24.80	C	15.10	B
12: Mt Alifan Dr/Mt Abernathy Ave & Balboa Ave	Signal	43.5	D	52.5	D	45.80	D	52.80	D	45.80	D	52.80	D	45.80	D	52.80	D
13: Mt Albertine Ave/Cannington Dr & Balboa Ave	Signal	17.2	B	33.0	C	17.30	B	35.20	D	17.30	B	35.20	D	17.30	B	35.20	D
14: Eckstrom Ave/Charger Blvd & Balboa Ave	Signal	54.3	D	48.0	D	56.30	**E**	47.90	D	56.30	**E**	47.90	D	56.30	**E**	47.90	D
15: I-805 SB Ramps & Balboa Ave	Signal	11.1	B	9.2	A	11.20	B	9.40	A	11.20	B	9.40	A	11.20	B	9.40	A
16: I-805 NB Ramps & Balboa Ave	Signal	10.5	B	10.6	B	10.50	B	10.60	B	10.50	B	10.60	B	10.50	B	10.60	B
17: Genesee Ave & Mt Alifan Dr	Signal	50.2	D	58.4	E	50.20	D	58.50	**E**	50.20	D	58.50	**E**	50.20	D	58.40	**E**
18: Project Driveway #1 & Mt Etna Dr	SSSC	DNE	DNE	DNE	DNE	10.50	B	11.30	B	10.00	A	10.80	B	9.80	A	10.30	B
19: Genesee Ave & Project Driveway #2	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.00	B	16.70	C	12.70	B	16.30	C
20: Balboa Ave & Project Driveway #3	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	16.90	C	19.90	C

Intersection	Control	No Project				With Access Option 1				With Access Option 2				With Access Option 3			
		Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM

NOTES:

Bold letter indicates unacceptable LOS E or F and significant impact.

AWSC = all-way stop controlled; SSSC = side-street stop controlled; DNE = does not exist

SOURCE: Chen Ryan 2019 (Appendix I-4)

Table 2.4-12
Roadway Segment Level of Service – Cumulative plus Project

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Access Option 1			With Access Option 2			With Access Option 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Genesee Avenue	Appleton Street & Clairemont Mesa Boulevard	4M	40,000	31,900	0.798	D	32,182	0.805	D	32,182	0.805	D	32,182	0.805	D
Genesee Avenue	Clairemont Mesa Boulevard & Bannock Avenue	4M	40,000	30,000	0.750	C	30,364	0.759	D	30,364	0.759	D	30,364	0.759	D
Genesee Avenue	Bannock Avenue & Chateau Drive	4M	40,000	27,800	0.695	C	28,164	0.704	C	28,164	0.704	C	28,164	0.704	C
Genesee Avenue	Chateau Drive & Mount Herbert Avenue	4M	40,000	25,500	0.638	C	25,884	0.647	C	25,884	0.647	C	25,884	0.647	C
Genesee Avenue	Mount Herbert Avenue & Derrick Drive	4M	40,000	20,900	0.523	B	21,284	0.532	C	21,284	0.532	C	21,284	0.532	C
Genesee Avenue	Derrick Drive & Mount Etna Drive	6M	50,000	23,900	0.478	B	24,444	0.489	B	24,444	0.489	B	24,444	0.489	B
Genesee Avenue	Mount Etna Drive & Balboa Avenue	5M	45,000	25,000	0.556	C	25,948	0.577	C	26,168	0.582	C	25,830	0.574	C
Genesee Avenue	Balboa Avenue & Mount Alifan Drive	5M	45,000	22,100	0.491	B	22,382	0.497	B	22,382	0.497	B	22,381	0.497	B
Genesee Avenue	Mount Alifan Drive & Genesee Court	4M	40,000	21,900	0.548	C	22,142	0.554	C	22,142	0.554	C	22,142	0.554	C
Mount Everest Boulevard	Mount Etna Drive & Balboa Avenue	2C	8,000	5,900	0.738	D	6,324	0.791	D	6,222	0.778	D	6,176	0.772	D

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Access Option 1			With Access Option 2			With Access Option 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Mount Etna Drive	Mount Everest Boulevard & Genesee Avenue	2C	8,000	5,100	0.638	D	7,118	0.890	**E**	6,296	0.787	D	6,139	0.767	D
Balboa Avenue	Clairemont Drive & Mount Everest Boulevard	4M	40,000	33,800	0.845	D	34,184	0.855	D	34,184	0.855	D	34,184	0.855	D
Balboa Avenue	Mount Everest Boulevard & Genesee Avenue	4M	40,000	35,200	0.880	**E**	35,200	0.880	**E**	35,302	0.883	**E**	35,422	0.886	**E**
Balboa Avenue	Genesee Avenue & Shopping Center Driveway	6M	50,000	43,500	0.870	D	44,166	0.883	D	44,166	0.883	D	44,166	0.883	D
Balboa Avenue	Shopping Center Driveway & Mount Abernathy Avenue	6M	50,000	33,100	0.662	C	33,766	0.675	C	33,766	0.675	C	33,766	0.675	C
Balboa Avenue	Mount Abernathy Avenue & Cannington Drive	6M	50,000	47,400	0.948	**E**	48,046	0.961	**E**	48,046	0.961	**E**	48,046	0.961	**E**
Balboa Avenue	Cannington Drive & Charger Boulevard	6M	50,000	47,500	0.950	**E**	48,146	0.963	**E**	48,146	0.963	**E**	48,146	0.963	**E**
Balboa Avenue	Charger Boulevard & I-805 Southbound Ramps	6M	50,000	65,200	1.304	**F**	65,846	1.317	**F**	65,846	1.317	**F**	65,846	1.317	**F**
Balboa Avenue	I-805 Southbound & I-805 Northbound Ramps	8P	80,000	57,400	0.718	C	57,885	0.724	C	57,885	0.724	C	57,885	0.724	C
Balboa Avenue	I-805 Northbound Ramps and Ruffner Street	6M	50,000	62,400	1.248	**F**	62,722	1.254	**F**	62,722	1.254	**F**	62,722	1.254	**F**

NOTES:

Bold letter indicates unacceptable LOS E or F.

ADT = average daily traffic; V/C = volume-to-capacity ratio; LOS = level of service

SOURCE: Chen Ryan 2019 (Appendix I-4)

Table 2.4-13
Ramp Metering Analysis – Cumulative plus Project

On-Ramp	# of Lanes		Peak Hour	Demand[a] (veh/hr) per lane	Meter Rate[b] (veh/hr) per lane	Excess Demand[c] (veh/hr) per lane	Delay[d] (min)	Queue[e] (ft)	Storage Length (ft)	Excess Queue (ft)	Delay w/o Project (min)	Δ Delay (min)	S?
	SOV	HOV											
I-805 SB On-Ramp @ Balboa Ave EB	1	1	PM	435	423	12	1.7	348	1,000	0	0.1	0.16	No
I-805 NB Ramp @ Balboa Ave EB	1	1	AM	386	511	0	0	0	410	0	0	0.0	No

NOTES:

SOV = single-occupancy vehicle; HOV = high-occupancy vehicle

Based upon field observation, it is estimated that 20% of the vehicles at these ramp meters use the HOV lane when available.

[a] Demand is the peak hour demand expected to use the on-ramp.

[b] Meter Rate is the peak hour capacity expected to be processed through the ramp meter. This value was obtained from Caltrans.

[c] Excess Demand = (Demand) – (Meter Rate) or zero, whichever is greater.

[d] Delay = (Excess Demand / Meter Rate) X 60 min/hr.

[e] Queue = (Excess Demand) X 29 ft/veh.

SOURCE: Chen Ryan 2019 (Appendix I-1)

Intersections

The LOS results are the same for all three access options. As shown in Table 2.4-11, all of the study area intersections would operate at acceptable LOS D or better during both the AM and PM peak hours with all three access options, with the exception of the following six intersections:

1. Genesee Avenue & Clairemont Mesa Boulevard – LOS E during the AM peak hour and LOS F during the PM peak hour;
8. Clairemont Drive & Balboa Avenue – LOS E during the AM peak hour and LOS F during the PM peak hour;
9. Mount Everest Boulevard & Balboa Avenue – LOS F during both the AM and PM peak hours;
10. Genesee Avenue & Balboa Avenue – LOS F during the PM peak hour;
14. Charger Boulevard & Balboa Avenue – LOS E during the AM peak hour; and
17. Genesee Avenue & Mount Alifan Drive – LOS E during the PM peak hour.

Based on the City's Significance Determination Thresholds, outlined above in Table 2.4-4, the traffic generated by the proposed project would result in a significant impact at the following five study intersections for all three access options:

1. Genesee Avenue & Clairemont Mesa Boulevard;
8. Clairemont Drive & Balboa Avenue;
9. Mount Everest Boulevard & Balboa Avenue;
10. Genesee Avenue & Balboa Avenue; and
14. Charger Boulevard & Balboa Avenue.

Roadway Segments – Access Option 1

As shown in the Table 2.4-12, all of the key study area roadway segments would operate at acceptable LOS D or better with Access Option 1, with the exception of the following six roadway segments:

11. Mount Etna Drive, between Mount Everest Boulevard and Genesee Avenue (LOS E);
13. Balboa Avenue, between Mount Everest Boulevard and Genesee Avenue (LOS E);
16. Balboa Avenue, between Mount Abernathy Avenue and Cannington Drive (LOS E);

17. Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS E);
18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F); and
20. Balboa Avenue, between I-805 Northbound Ramps and Ruffner Street (LOS F).

Of the six roadway segments projected to operate at substandard LOS E or F under Cumulative plus Project conditions, the Access Option 1 could cause potentially significant impacts at the two roadway segments discussed below based on the Significance Determination Thresholds outlined in Table 2.4-4. Daily roadway LOS is typically used only at the planning level and does not necessarily indicate true roadway operations. Therefore, to determine if the identified roadway segments operate at acceptable levels during peak times (worst case), peak hour aerial analyses and peak hour intersection analyses were conducted to better understand the actual travel flow along the roadways. If peak hour arterial LOS and the LOS at the intersections at either end of the roadway segment would operate at LOS D or better, and the roadway segment is built to its ultimate classification, then the impact would be considered to be less than significant, since the actual travel flow along the segment is considered to be acceptable.

11. Mount Etna Drive, between Mount Everest Boulevard and Genesee Avenue.

    The proposed project would add 2,018 daily trips, resulting in an increase of 0.252 in V/C ratio. The arterial LOS analysis identifies this roadway segment to operate at LOS E in the eastbound and westbound directions during both the AM and PM peak hours. The intersections of Mount Everest Boulevard/Mount Etna Drive and Genesee Avenue/Mount Etna Drive are projected to operate at LOS C or better during both AM and PM peak hours. Therefore, Access Option 1 would result in a significant impact to this roadway segment.

18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps.

    The proposed project would add 646 daily trips, resulting in an increase of 0.013 in V/C ratio. The arterial level of service analysis identifies this roadway segment to operate at LOS B and LOS C in the eastbound and westbound directions, respectively, during the AM peak hour, and LOS B and LOS D in the eastbound and westbound directions, respectively, during the PM peak hour. The intersection of Eckstrom Avenue/Charger Boulevard/Balboa Avenue is projected to operate at LOS E in the AM peak hour and LOS D in the PM peak hour, and the intersection of I-805 Southbound Ramps/Balboa Avenue is projected to operate at LOS B or

better during both AM and PM peak hours. Therefore, Access Option 1 would result in a significant impact to this roadway segment.

Roadway Segments – Access Options 2 and 3

The roadway segment analysis results are the same for Access Options 2 and 3. As shown in the Table 2.4-12, all of the key study area roadway segments would operate at acceptable LOS D or better with Access Options 2 and 3, with the exception of the following five roadway segments:

13. Balboa Avenue, between Mount Everest Boulevard and Genesee Avenue (LOS E);
16. Balboa Avenue, between Mount Abernathy Avenue and Cannington Drive (LOS E);
17. Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS E);
18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F); and
20. Balboa Avenue, between I-805 Northbound Ramps and Ruffner Street (LOS F).

Of the five roadway segments projected to operate at substandard LOS E or F under Cumulative plus Project conditions, the one discussed below could potentially result in a significant impact based on the significance criteria outlined in Table 2.4-4.

18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps.

    The proposed project would add 646 daily trips, resulting in an increase of 0.013 in V/C ratio. The arterial level of service analysis identifies this roadway segment to operate at LOS B and LOS C in the eastbound and westbound directions, respectively, during the AM peak hour, and LOS B and LOS D in the eastbound and westbound directions, respectively, during the PM peak hour. The intersection of Eckstrom Avenue/Charger Boulevard/Balboa Avenue is projected to operate at LOS E in the AM peak hour and LOS D in the PM peak hour, and the intersection of I-805 Southbound Ramps/Balboa Avenue is projected to operate at LOS B or better during both AM and PM peak hours. Therefore, Access Options 2 and 3 would result in a significant impact to this roadway segment.

Ramp Meters

The ramp meter analysis results are the same for all three access options. As shown in Table 2.4-13, the anticipated peak hour demand is anticipated to

exceed the anticipated meter rate at the I-805 Southbound Ramp @ Balboa Avenue (eastbound) during the PM peak hour by 12 vehicles and result in a queue length of 348 feet. Based upon the significance criteria presented in Table 2.4-4, the addition of project traffic would not cause a significant impact to either of the study ramp meter locations.

2.4.3.2 Traffic Hazards

Issue 2: Would the project increase traffic hazards for motor vehicles, bicyclists, or pedestrians due to a proposed non-standard design features (e.g., poor sight distance or driveway onto an access-restricted roadway)?

This analysis of impacts under issue question 2 addresses Significance Determination Threshold 4 as detailed in Section 2.4.3, above.

Impact Analysis

The three access options considered in this analysis are described in detail in Chapter 1.0, Project Description. In all three access options, Mount Etna Drive would serve as the main entrance providing full access (i.e., all vehicular movements permitted) to the project site. Access at Genesee Avenue and/or Balboa Avenue would be restricted to right-in, right-out vehicular movements; in other words, no left turns into or out of the project site would be permitted. The driveway would be a side street stop-controlled intersection. All three driveways would operate at LOS C or better for all project study scenarios. All three roadways that would potentially provide access to and from the project site directly from adjacent roads and would be designed using standard geometries that conform to the requirements in the City Street Design Manual such that driveway sight distance would not be affected by roadway characteristics (i.e., horizontal or vertical curves).

As discussed in Section 2.2, Hazards and Hazardous Materials, construction of the future development could require lane closures and interfere with emergency response services and evacuation routes. However, with implementation of Mitigation Measure HAZ-2, a Traffic Control Plan would be required, reducing impacts related to interferences with an adopted emergency response plan or emergency evacuation plan to less than significant. The proposed project would meet all requirements for access and ingress/egress of emergency vehicles. Driveways and internal access roads would be constructed in accordance with California Fire Code and City of San Diego Municipal Code (SDMC) requirements. For the reasons discussed above, potential impacts related to traffic hazards would be less than significant.

2.4.3.3 Circulation Movements and Alternative Transportation

Issue 3: Would the project result in a substantial impact upon existing or planned transportation systems?

Issue 4: Would the project result in a conflict with adopted policies, plans or programs supporting alternative transportation models (e.g., bus turnouts, bicycle racks)?

Issue 5: Would the project result in substantial alterations to present circulation movements that restrict access to public or private land?

The analysis of impacts under Issue 3 are addressed by Significance Determination Thresholds 5 and 6 as detailed in Section 2.4.3, above.

Impact Analysis

Project implementation would not interfere or conflict with General Plan Mobility Element policies or with implementation of planned transportation improvements in the area, as detailed in the evaluation of transportation objectives of the CMCP Transportation Element in Table 2.6-1. The project would not require changes to the existing circulation network and would be consistent with the planned circulation network including mobility planning efforts identified in the CMCP. Additionally, the project site is located in an urbanized area and would not impact existing roadways that provide direct public access to beaches, parks, or other open space areas. Therefore, impacts related to circulation movements and inconsistency with existing or planned transportation systems would be less than significant.

As described above in Section 2.4.1, Existing Conditions, MTS Bus Route #27 and #41 have multiple stops within a mile of the project site. However, there are no bus stops located directly adjacent to the project site. Class II bike lanes are present on both sides of the roadway on Genesee Avenue and on Balboa Avenue near the project site. The San Diego Bicycle Master Plan does not call for any additional bicycle facilities on any of the other study area roadways (i.e., Mount Everest Boulevard, Mount Etna Drive) (City of San Diego, 2012). All streets immediately surrounding the project site include sidewalks and striped crosswalks are provided at major intersections. Pedestrian and bike lane access would continue to be provided during both construction and operation of the proposed project. The proposed project would not conflict with adopted policies, plans, or programs related to public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities. It would, however, encourage use of transit services in the project area by constructing affordable housing in a TPA. Therefore, impacts would be less than significant.

2.4.3.4 Vehicle Miles Traveled Analysis

Issue 6: Would the project conflict with or be inconsistent with CEQA Guidelines Section 15064.3 subdivision (b)?

As noted in Section 2.4.2, Regulatory Setting, CEQA Guidelines Section 15064.3, subdivision (b) provides that beginning on July 1, 2020, the provisions of this section shall apply statewide. The City is currently engaged in this process and has not yet formally adopted its updated transportation significance thresholds or its updated transportation impact analysis procedures to include VMT. Since the regulations of SB 743 have not been finalized or adopted by the City, automobile delay described above remains the measure used to determine the significance of a traffic impact. However, a VMT analysis was conducted for the proposed project for information purposes, and is summarized below. Additional detail is provided in Appendix I of this EIR.

Methodology

The VMT analysis for the proposed project was prepared in accordance with the County of San Diego's *Guidelines for Transportation Impact Studies in the San Diego Region*, January 22, 2019 (Regional TIS Guidelines).[2] The Regional TIS Guidelines were developed by a committee of transportation engineers, both public and private, currently operating within the San Diego Region and are primarily based on the standards set forth in OPR's Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018).[3] The intention of the guidelines is to address the new transportation analysis metrics and requirements, significance thresholds, and standards enacted by SB 743.

Impact Analysis

The Regional TIS Guidelines and OPR provides several screening thresholds to determine if a project is required to do a VMT analysis based on the project's land use and location. The proposed project would allow for 100 percent affordable housing units and would be located in a planned (2035) TPA, which are criteria for screening. Therefore, a more detailed VMT analysis is not required and the proposed project is presumed to have a less than significant impact on VMT.

2.4.4 Significance of Impacts Prior to Mitigation

Project impacts related to traffic hazards, circulation movements and alternative transportation, and VMT would be less than significant. The following significant

2 Institute of Transportation Engineers San Diego Section (ITE San Diego) Transportation Capacity and Mobility Task Force SB 743 Subcommittee.

3 http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf.

impacts related to traffic generation and capacity would occur with project implementation:

Impact TIA-1: Existing plus Project. The proposed project would result in significant direct impacts at the following two study intersections and one study roadway segment:

Intersections:

9. Mount Everest Boulevard & Balboa Avenue (Access Options 1 and 3)
10. Genesee Avenue & Balboa Avenue (Access Option 3)

Roadway Segments:

17. Balboa Avenue, between Cannington Drive and Charger Boulevard (all access options)

Impact TIA-2: Near-Term plus Project. The proposed project would result in significant direct impacts at the following three study intersections and two study roadway segments:

Intersections:

9. Mount Everest Boulevard & Balboa Avenue (all access options)
10. Genesee Avenue & Balboa Avenue (Access Option 3)
14. Charger Boulevard & Balboa Avenue (all access options)

Roadway Segments:

17. Balboa Avenue, between Cannington Drive and Charger Boulevard (all access options)
18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (all access options)

Impact TIA-3: Cumulative plus Project. The proposed project would result in significant impacts at the following five study intersections and two study roadway segments:

Intersections:

1. Genesee Avenue & Clairemont Mesa Boulevard (all access options)
8. Clairemont Drive & Balboa Avenue (all access options)
9. Mount Everest Boulevard & Balboa Avenue (all access options)
10. Genesee Avenue & Balboa Avenue (all access options)
14. Charger Boulevard & Balboa Avenue (all access options)

Roadway Segments:

11. Mount Etna Drive, between Mount Everest Boulevard and Genesee Avenue (Access Option 1)
18. Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (all access options)

2.4.5 Mitigation

Existing plus Project

The mitigation measures described below would be required to reduce the project's impact to intersections and roadway segments to a less-than-significant level. The effectiveness of the mitigation measures is shown in **Table 2.4-14**.

Intersections

TRA-1: Mount Everest Boulevard & Balboa Avenue Intersection Modifications (Access Options 1 and 3). Prior to issuance of the first building permit, Owner/Permittee shall assure by permit and bond the restriping of the northbound and southbound approaches on Mount Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing, satisfactory to the City Engineer. Improvements shall be completed and operational prior to first occupancy.

TRA-2: Genesee Avenue & Balboa Avenue Intersection Modifications (Access Option 3). Prior to issuance of the first building permit, Owner/Permittee shall assure by permit and bond the optimization of signal timing or installation of traffic systems management (TSM) strategies (e.g., adaptive signal technology) to maximize efficiency of the existing roadway through improved signal communications and operations satisfactory to the City Engineer. Improvements shall be completed and operational prior to first occupancy.

The City's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection of Genesee Avenue & Balboa Avenue is identified in the TSCMP as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Therefore, this impact would be reduced to a less than significant level for Access Option 3.

Table 2.4-14
Mitigated Peak Hour Intersection Level of Service – Existing plus Project

		No Project		With Access Option 1				With Access Option 2				With Access Option 3			
Intersection	**Control**	**Avg. Delay (sec) AM/PM**	**LOS AM/PM**	**Avg. Delay (sec) AM/PM**	**LOS AM/PM**	**Change in Delay (sec) AM/PM**	**M?**	**Avg. Delay (sec) AM/PM**	**LOS AM/PM**	**Change in Delay (sec) AM/PM**	**M?**	**Avg. Delay (sec) AM/PM**	**LOS AM/PM**	**Change in Delay (sec) AM/PM**	**M?**
9. Mt. Everest Boulevard & Balboa Avenue	Signal	73.7/ 58.7	**E/E**	37.5/ 29.5	D/C	-36.2/ -29.2	Y	Not Impacted				36.5/ 28.9	D/C	-37.2/ -29.8	Y
10. Genesee Avenue & Balboa Avenue	Signal	36.3/ 59.1	D/**E**	Not Impacted				Not Impacted				43.0/ 53.1	D/D	6.7/ -6.0	Y

NOTES:
Bold letter indicates unacceptable LOS E or F and significant impact.
LOS = Level of Service; M = Mitigated

SOURCE: Chen Ryan 2019 (Appendix I-4)

Roadway Segments

The segment of Balboa Avenue between Cannington Drive and Charger Boulevard is impacted by all three access options and is currently built to its ultimate classification per the currently adopted CMCP. Based on the existing land use fronting this roadway (i.e. residential and school uses) as well as right-of-way constraints, there are no feasible improvements that would expand the capacity of the roadway segment. The implementation of adaptive signal controls along the Balboa Avenue corridor, as well as signal modifications at the Charger Boulevard & Balboa Avenue intersection recommended in **Mitigation Measure TRA-3**, would partially mitigate the project's impacts. However, the County cannot assure that the City would implement adaptive signal controls along the Balboa Avenue corridor. Therefore, this impact would remain significant and unavoidable for all access options.

Near-Term plus Project

The mitigation measures described below would be required to reduce the project impact to a less-than-significant level. The effectiveness of the mitigation measures is shown in **Table 2.4-15**.

Intersections

Implementation of **Mitigation Measure TRA-1** at Mount Everest Boulevard & Balboa Avenue described under the Existing plus Project discussion would also mitigate the project's impact for all access options during the Near-Term plus Project condition.

Implementation of **Mitigation Measure TRA-2** described at Genesee Avenue & Balboa Avenue under the Existing plus Project discussion would also mitigate the project's Near-Term plus Project impact to a less-than-significant level for Access Option 3.

Implementing the following improvement at the Charger Boulevard & Balboa Avenue would reduce intersection delays to pre-project conditions and impacts would be less than significant for all access options (Table 2.4-15).

> **TRA-3: Charger Boulevard & Balboa Avenue Intersection Modifications (all access options).** Prior to issuance of the first building permit, Owner/Permittee shall assure by permit and bond the restriping of the northbound shared through-left turn lane into an exclusive through lane and convert the northbound and southbound signal from split phasing to protective phasing satisfactory to the City Engineer. Improvements shall be completed and operational prior to first occupancy.

Table 2.4-15
Mitigated Peak Hour Intersection Level of Service – Near-Term plus Project

Intersection	Control	No Project		With Access Option 1				With Access Option 2				With Access Option 3			
		Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?
9. Mt. Everest Boulevard & Balboa Avenue	Signal	116.5/ 64.7	**F/E**	59.9/ 27.0	**E**/C	-56.6/ -37.7	Y	58.3/ 26.6	**E**/C	-58.2/ -38.1	Y	57.6/ 26.4	**E**/C	-11.6/ -32.3	Y
10. Genesee Avenue & Balboa Avenue	Signal	41.1/ 59.2	D/**E**	Not Impacted				Not Impacted				42.0/ 57.0	D/**E**	0.9/ -2.2	Y
14. Charger Boulevard & Balboa Avenue	Signal	64.7/ 42.9	**E**/D	53.3/ 50.6	D/D	-11.4/ 7.7	Y	53.3/ 50.6	D/D	-11.4/ 7.7	Y	53.2/ 50.5	D/D	-11.5/ 7.6	Y

NOTES:

Bold letter indicates unacceptable LOS E or F and significant impact.

LOS = Level of Service; M = Mitigated

SOURCE: Chen Ryan 2019 (Appendix I-4)

Roadway Segments

The two impacted segments of Balboa Avenue, between Cannington Drive and Charger Boulevard, and between Charger Boulevard and I-805 Southbound Ramps, are currently built to their ultimate classification per the currently adopted CMCP. Based on the existing land use fronting this roadway (i.e. residential and school uses) as well as the right-of-way constraints, there are no feasible segment improvements that would expand the capacity of the roadway segment. The implementation of adaptive signal controls along the Balboa Avenue corridor, as well as signal modifications at the Charger Boulevard & Balboa Avenue intersection recommended in **Mitigation Measure TRA-3** would partially mitigate the project's impacts. However, the County cannot assure that the City would implement adaptive signal controls along the Balboa Avenue corridor. Therefore, the roadway segment impacts would remain significant and unavoidable for all access options.

Cumulative plus Project

The mitigation measures described below would be required to reduce the project impact to a less-than-significant level. The effectiveness of the mitigation measures is shown in **Table 2.4-16**.

Intersections

Implementation of **Mitigation Measure TRA-1** described under the Existing plus Project discussion would mitigate the impact at Mount Everest Boulevard & Balboa Avenue for all access options during the Cumulative plus Project traffic scenario.

Implementation of **Mitigation Measure TRA-2** described above under Existing plus Project traffic conditions would mitigate the project's Cumulative plus Project impacts to Genesee Avenue & Balboa Avenue for all access options.

Implementing of **Mitigation Measure TRA-3** described above under Near-Term plus Project discussion would reduce intersection delays at Charger Boulevard & Balboa Avenue to pre-project conditions and would reduce the Cumulative plus Project impacts to a less than significant level for all access options (Table 2.4-16).

> **TRA-4: Genesee Avenue & Clairemont Mesa Boulevard Adaptive Signal Control System (All Access Options).** Prior to issuance of the first building permit, Owner/Permittee shall pay its fair share toward optimizing signal timing or installing traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway through improved signal communications and operations, satisfactory to the City Engineer.

Table 2.4-16
Mitigated Peak Hour Intersection Level of Service – Cumulative plus Project

Intersection	Control	No Project		With Access Option 1				With Access Option 2				With Access Option 3			
		Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	65.9/ 95.9	**E/F**	45.6/ 60.0	D/**E**	-20.3/ -35.9	Y	45.6/ 60.0	D/**E**	-20.3/ -35.9	Y	45.6/ 60.0	D/**E**	-20.3/ -35.9	Y
8. Clairemont Drive & Balboa Avenue	Signal	65.4/ 100.6	**E/F**	63.9/ 96.5	**E/F**	-1.5/ -4.1	Y	63.9/ 96.5	**E/F**	-1.5/ -4.1	Y	63.9/ 96.5	**E/F**	-1.5/ -4.1	Y
9. Mt. Everest Boulevard & Balboa Avenue	Signal	107.9/ 110.4	**F/F**	89.6/ 53.6	**F**/D	-18.3/ -56.8	Y	86.2/ 52.3	**F**/D	-21.7/ -58.1	Y	84.7/ 52.0	**F**/D	-23.2/ -58.4	Y
10. Genesee Avenue & Balboa Avenue	Signal	42.1/ 80.2	D/**F**	49.7/ 73.1	D/**E**	7.6/ -7.1	Y	49.8/ 68.6	D/**E**	7.7/ -11.6	Y	49.8/ 68.9	D/**E**	7.7/ -11.3	Y
14. Charger Boulevard & Balboa Avenue	Signal	54.3/ 48.0	**E**/D	46.8/ 47.7	D/D	-7.5/ -0.3	Y	46.8/ 47.7	D/D	-7.5/ -0.3	Y	46.8/ 47.7	D/D	-7.5/ -0.3	Y

NOTES:
Bold letter indicates unacceptable LOS E or F and significant impact.
LOS = Level of Service; M = Mitigated

SOURCE: Chen Ryan 2019 (Appendix I-4)

TRA-5: Clairemont Drive & Balboa Avenue Adaptive Signal Control System (All Access Options). Prior to issuance of the first building permit, Owner/Permittee shall pay its fair share toward optimizing signal timing or installing traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway through improved signal communications and operations, satisfactory to the City Engineer.

Implementation of the improvements noted above in **Mitigation Measures TRA-4** and **TRA-5** would mitigate the project's Cumulative plus Project impact at the two study intersections listed above to a less-than-significant level for all access options. These intersections are identified in the TSCMP as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. However, there is no specific mitigation program established by the City that would ensure the improvements would be implemented. Therefore, unless and until a specific mitigation program is created by the City to accommodate proportionate contributions toward the implementation of adaptive signal controls or other improvements at these locations, the County cannot assume that payment of its fair share of the mitigation improvements would reduce or avoid the project's cumulative impact at the intersections of Genesee Avenue & Clairemont Mesa Boulevard and Clairemont Drive & Balboa Avenue. Therefore, Cumulative plus Project impacts to these two intersections would remain significant and unavoidable.

Roadway Segments

Similar to the Existing plus Project and Near-term plus Project conditions, the impacted segment of Balboa Avenue between Charger Boulevard and I-805 Southbound Ramps is currently built to its ultimate classification per the currently adopted CMCP. Based on the existing land use fronting this roadway (i.e. residential and school uses) as well as the right-of-way constraints, there are no feasible segment improvements that would expand the capacity of the roadway segment. The implementation of adaptive signal controls along the Balboa Avenue corridor, as well as signal modifications at the Charger Boulevard & Balboa Avenue intersection recommended in **Mitigation Measure TRA-3** would partially mitigate the project's impacts. However, the County cannot assure that the City would implement adaptive signal controls along the Balboa Avenue corridor. Therefore, this Cumulative plus Project roadway segment impact would remain significant and unavoidable for all access options.

Mount Etna Drive is currently built to its ultimate classification per the currently adopted CMCP. Based on the classification of this roadway, there is insufficient right-of-way and street parking removal limitations that would prevent any improvements to the capacity of the impacted roadway segment. Therefore, this

Cumulative plus Project impact would remain significant and unavoidable for Access Option 1.

2.4.6 Significance of Impacts After Mitigation

The significance of intersection and roadway segment impacts after implementation of mitigation measures is summarized in **Table 2.4-17**. As shown in the table, proposed mitigation measures would reduce all direct intersection impacts identified for the Existing plus Project and Near-Term plus Project traffic scenarios to less-than-significant levels. Two intersection impacts would remain significant and unavoidable in the Cumulative plus Project traffic scenario for all access options:

1. Genesee Avenue & Clairemont Mesa Boulevard
8. Clairemont Drive & Balboa Avenue

Significant and unavoidable impacts were identified for one roadway segment in the Existing plus Project traffic scenario, and two roadway segments in the Near-Term plus Project and Cumulative plus Project traffic scenarios.

2.4.8 Conclusions

The proposed project would not result in impacts related to traffic hazards, circulation movements and alternative transportation, and VMT. Direct and cumulative impacts would occur related to trip generation and capacity.

Project impacts to study intersections and roadway segments would occur during Existing plus Project (**Impact TIA-1**), which would be mitigated or partially mitigated by **Mitigation Measures TRA-1 and TRA-2**. However, significant and unavoidable roadway segment impacts would remain along Balboa Avenue.

Project impacts to study intersections and roadway segments would also occur as a result of the various access options during Near-term plus Project (**Impact TIA-2**), which would be mitigated or partially mitigated by **Mitigation Measures TRA-1, TRA-2 and TRA-3**. However, significant and unavoidable roadway segment impacts would remain along Balboa Avenue.

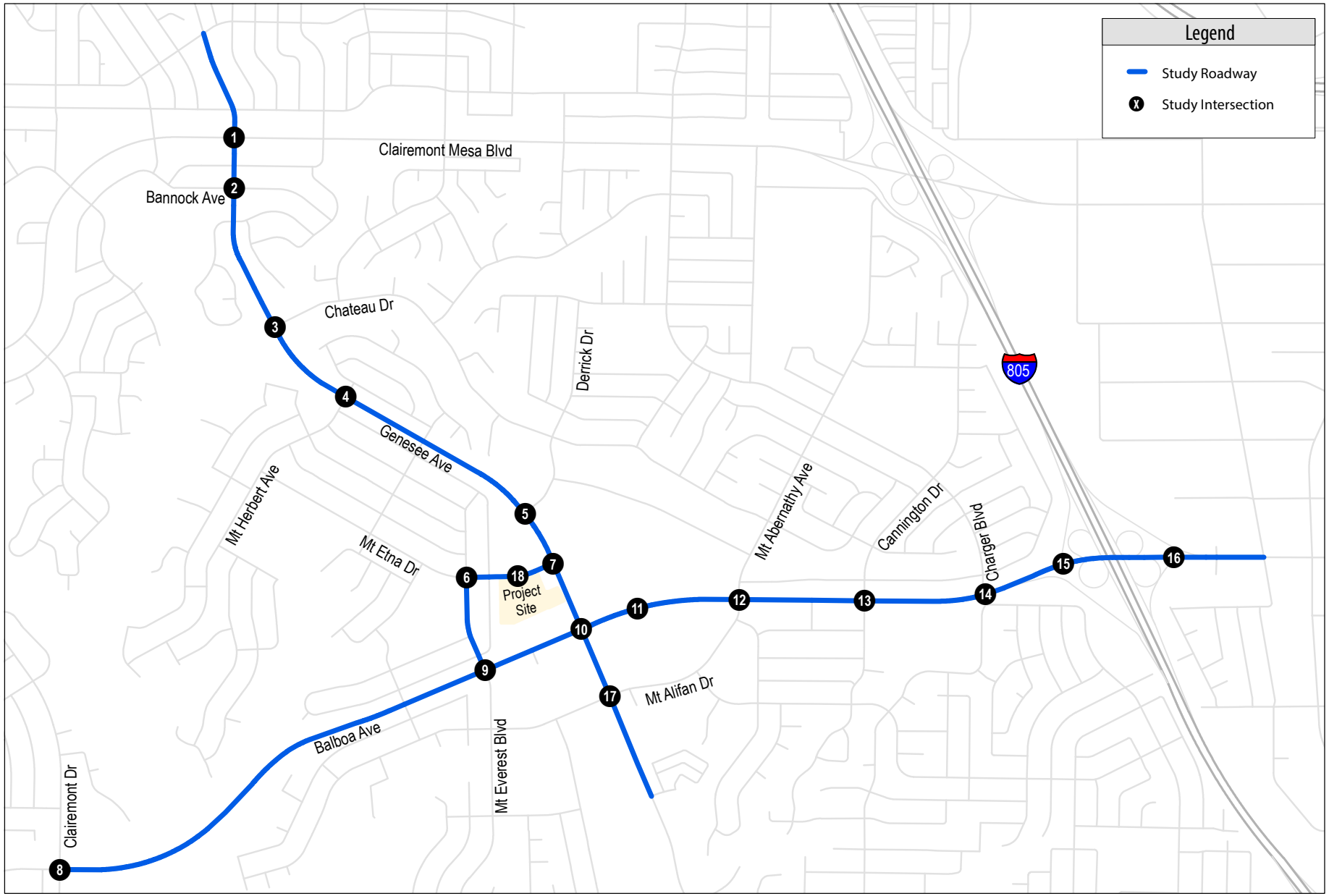
Project impacts to study intersections and roadway segments would also occur as a result of the various access options during Cumulative plus Project (**Impact TIA-3**), which would be mitigated or partially mitigated by **Mitigation Measures TRA-1, TRA-2 and TRA-3**. However, significant and unavoidable impacts would remain at two intersections and two roadway segments along Mount Etna Drive and Balboa Avenue because **Mitigation Measures TRA-4 and TRA-5** cannot be assured by the County and there are no other feasible improvements that can be implemented for the impacted roadway segments.

Table 2.4-17
Level of Significance after Mitigation

Impact Location	Existing plus Project			Near-Term plus Project			Cumulative plus Project		
	Access Option 1	Access Option 2	Access Option 3	Access Option 1	Access Option 2	Access Option 3	Access Option 1	Access Option 2	Access Option 3
Intersections									
1.Genesee Avenue & Clairemont Mesa Boulevard	NI	NI	NI	NI	NI	NI	SU2	SU2	SU2
8.Clairemont Drive & Balboa Avenue	NI	NI	NI	NI	NI	NI	SU2	SU2	SU2
9.Mount Everest Boulevard & Balboa Avenue	LTS	NI	LTS	LTS	LTS	LTS	LTS	LTS	LTS
10.Genesee Avenue & Balboa Avenue	NI	NI	LTS	NI	NI	LTS	LTS	LTS	LTS
14.Charger Boulevard & Balboa Avenue	NI	NI	NI	LTS	LTS	LTS	LTS	LTS	LTS
Roadway Segments									
11.Mount Etna Drive, between Mount Everest Boulevard and Genesee Avenue	NI	NI	NI	NI	NI	NI	SU1	NI	NI
17.Balboa Avenue, between Cannington Drive and Charger Boulevard	SU2	SU2	SU2	SU2	SU2	SU2	NI	NI	NI
18.Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps	NI	NI	NI	SU2	SU2	SU2	SU2	SU2	SU2

NOTES:

NI = No Impact; LTS = Impact would be less than significant after mitigation;
SU1 = Impact would remain significant and unavoidable because no feasible mitigation improvement is available;
SU2 = Impact would remain significant and unavoidable because mitigation cannot be assured by the County



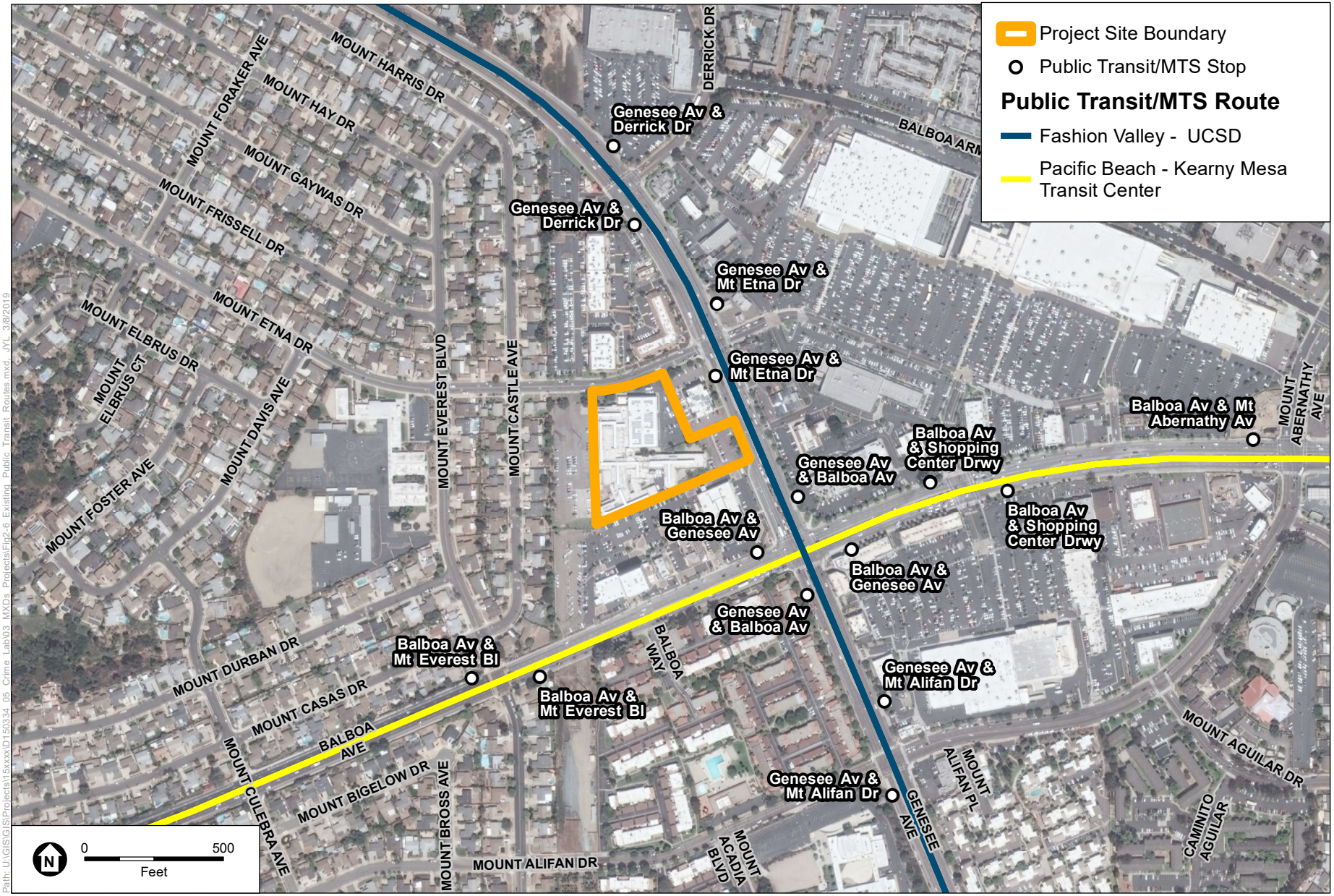
SAN15XXX\D150334.00 - County of San Diego General Services As-Needed\02 Active Tasks\D150334.05 -Crime Lab AH\05 Graphics-GIS-Modeling\Illustrator

SOURCE: Chen Ryan, 2019

Mount Etna Community Plan Amendment and Rezone Project

Figure 2.4-1
Traffic Study Area

ESA



SOURCE: SanGIS, 2018.

Mount Etna Community Plan Amendment and Rezone Project

Figure 2.4-2

Existing Public Transit/MTS Routes

ESA

CHAPTER 3.0 ENVIRONMENTAL EFFECTS FOUND NOT TO BE SIGNIFICANT

This chapter of the EIR discusses effects that were identified as not to be significant. These sections include 3.1 Aesthetics, 3.2 Energy, 3.3 Greenhouse Gas Emissions, 3.4 Land Use and Planning, 3.5 Population and Housing, 3.6 Public Services, 3.7 Recreation, and 3.8 Utilities and Service Systems.

Each environmental issue area describes the following topics.

- Existing conditions
- Regulatory framework
- Analysis of project effects and determination as to significance
- Cumulative impacts
- Conclusion

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3.1 Aesthetics

This section provides an assessment of potential impacts related to aesthetics and visual resources that could result from implementation of the proposed project. Potential impacts addressed in this section include impacts to scenic vistas, degradation of visual character, creation of a new source of light or glare, visual incompatibility with surrounding development, loss of distinctive trees, or a substantial change in the existing landform.

Comments related to aesthetics received during the public comment period for Notice of Preparation (NOP) included concerns regarding the maximum allowable height, shade and/or shadow of adjacent properties, incompatibility with surrounding development, new light and glare sources, spillover light pollution, and negative impacts on existing community character within Clairemont Mesa. These concerns have been considered and addressed, as applicable, in the following evaluation of the project's potential to impact aesthetics. The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

3.1.1 Existing Visual Landscape

The project site is located at the intersection of Genesee Avenue and Mount Etna Drive in the Clairemont Mesa community. The project site is surrounded by a mixture of commercial and residential development, with an assortment of commercial land uses and neighborhood amenities within a 0.5-mile radius of the project site. Figure 1-2 shows the existing land uses in the vicinity of the project site. **Figure 3.1-1** shows two views from north and south of the project site, showing the general commercial character of the project's vicinity. The project site is bound by Mount Etna Drive to the north of the project site with one- and two-story commercial and medical buildings further north (Viewpoint 1 on Figure 3.1-1). The project site is bound to the east by a three-story medical office building, with Genesee Avenue and a commercial shopping center located further east. South of the project site are commercial and medical office buildings ranging from one- to ten-stories, and their associated surface parking lots (Viewpoint 2 on Figure 3.1-1). A San Diego Gas and Electric (SDG&E) easement that currently serves as a parking lot for the previous use of the project site is located to the west of the project site, which also includes overhead power transmission lines. Single-story single-family residential uses are located further west of the SDG&E easement.

The project site is currently developed with the former San Diego County Regional Crime Lab (Crime Lab) facility. Existing structures onsite include a one-story, 66,000-square-foot (SF) building in the center of the project site, a 1,500 SF garage on the southwestern portion of the project site, and a two-story 36,000 SF warehouse building on the northeastern portion of the project site.

Two unconnected surface parking lots are located to the east of the Crime Lab buildings, one accessed from Genesee Avenue and the other from Mount Etna Drive. The project site includes minimal ornamental landscaping adjacent to the building along Mount Etna Drive and in courtyards on the eastern portion of the project site.

3.1.1.1 Views of the Project Site

Public views of the project site are available to motorists, cyclists, and pedestrians traveling along Mount Etna Drive, Genesee Avenue, and Balboa Avenue. An aerial map of key public views (Viewpoints 3 through 7) of the project site are shown in **Figure 3.1-2**.

Viewpoint 3 (shown on **Figure 3.1-3**) shows the view of the project site from the northeast looking southwest at the intersection of Genesee Avenue and Mount Etna Drive. From this intersection, existing views include the three-story medical office building located east of the project site, along with street trees along Mount Etna Drive largely screening the project site. The two-story Crime Lab building is partially visible behind street trees.

Viewpoint 4 (also shown on Figure 3.1-3) has views of the project site from the southeast. Viewpoint 4 is from the intersection of Balboa Avenue and Genesee Avenue looking northwest. Views of the project site are completely obstructed from Viewpoint 4, with the intersection in the foreground and the one-story, ten-story, and seven-story commercial buildings in the background obstructing the project site.

Viewpoint 5 is shown on **Figure 3.1-4**, showing the view of the project site from Balboa Avenue looking north. Existing views of the project site are largely screened by the one-story and ten-story commercial buildings. A portion of the existing one-story Crime Lab building is visible in between the commercial buildings, slightly obstructed from view due to street trees and the commercial building's associated surface parking lot.

Viewpoint 6 (Figure 3.1-4) includes the view of the project site from Mount Etna Drive looking southeast. The driveway entrance to the SDG&E easement is in the foreground, with the two-story Crime Lab building visible behind existing street trees.

Viewpoint 7 is shown on **Figure 3.1-5**, which is a view of the project site from Mount Davis Avenue west of the project site looking east. The project site is completely obstructed from view due to intervening single-family, one-story residential homes.

3.1.1.2 Neighborhood Visual Character

The Clairemont Mesa Community Plan (CMCP) describes the community as an attractive place to live, work and play because of the community's many attributes, including the visual aesthetics of the community's nearby canyons in an urban environment, which has contributed to the community's sense of place (City of San Diego 2011). The Community Plan lists distinctive features of the community as including low-density residential development adjacent to canyons and parks, and trees planted in the street medians and along sidewalks.

The project site is located along the western edge of the Community Core area of the larger Clairemont Mesa Community Planning Area. According to the CMCP, the Community Core area is the focal point of the community and provides commercial services within walking distances of residential neighborhoods. The Community Core area includes the project site and both the Balboa Mesa and Genesee Plaza shopping centers, located southeast and east of the project site, respectively. According to the CMCP, these centers are in fair condition and are underutilized with one-story buildings surrounded and separated by expansive parking and vacant land. The surrounding commercial development adjacent to and south of the project site includes the Balboa Towers, which are two medical buildings that are seven and ten stories in height. In addition, one-, two-, and three-story commercial buildings are located north and east of the project site. As previously detailed, the 50-foot SDG&E easement is located west of the project site, with single-family residential homes located further west of the easement.

3.1.1.3 Scenic Vistas

The City's General Plan and the CMCP do not include any formal designation of scenic vistas within the community. However, the CMCP states that many of the neighborhoods along the mesa area overlook Mission Bay and the Pacific Ocean to the west, Fortuna Mountain and Cowles Mountain to the east and the open space canyon system contain scenic vistas (City of San Diego 2011). To protect some of these views, the Clairemont Mesa Height Limitation Zone was established in 1989, maintaining a 30-foot height limit throughout the majority of the community. The project site itself does not feature any scenic resources or scenic views, such as to mountains, canyons, bays, or the Pacific Ocean.

3.1.1.4 Shade and Shadow

Shading from buildings and structures has the potential to block sunlight on adjacent properties. Although shading is common and expected in urban areas and can be considered a beneficial feature when it provides protection from excess sunlight and heat, shading can have an adverse impact if it interferes with activities that rely on sunlight to function properly, or to provide physical comfort, or to support commercial activity. Such uses include routinely usable outdoor

spaces associated with residential, recreational, and institutional uses (e.g., schools, convalescent homes), commercial pedestrian-oriented outdoor eating areas or other spaces, operations such as nurseries and solar collectors. The existing project site consists of one- and two-story buildings, which, due to their height, do not extend substantial shade or shadows onto offsite properties.

3.1.1.5 Light and Glare

Light introduction can be a nuisance to adjacent residential areas, diminish the view of the clear night sky, and if uncontrolled, can cause disturbances for motorists traveling in the area. Residences are considered light sensitive since occupants have expectations of privacy during evening hours and may be subject to disturbances by bright light sources. Light spill is typically defined as the presence of unwanted light on properties adjacent to a property being illuminated. Existing sources of light are present on the project site including existing street lamps in the surface parking lot and exterior security lighting on the existing building The area surrounding the project site consists of developed land with commercial, office, and residential uses, which emit nighttime light typical of an urban community. Off-site sources of night lighting include street lighting along Mount Etna Drive, Genesee Avenue, Balboa Avenue, and lighting within the adjacent SDG&E easement parking lot. In addition, the surrounding area includes illuminated street signage, commercial lighting from adjacent shopping centers, and vehicular lights from cars along adjacent roadways.

Glare is caused by the reflection of sunlight or artificial light by highlight polished surfaces such as windows or reflective materials and, to a lesser degree, from broad expanses of light-colored surfaces or vehicle headlights. Perceived glare is unwanted and potentially objectionable sensation as observed by a person as they look directly into the light source of a luminaire. Daytime glare generation in urban areas is typically associated with building with exterior facades largely or entirely comprised of highly reflective glass. Glare can also be produced during evening and nighttime hours by the reflection of artificial light sources, such as automobile headlights. Glare generation is typically related to either moving vehicles or sun angles, although glare resulting from reflected sunlight can occur regularly at certain times of the year. Glare-sensitive uses include residences and transportation corridors. The project site currently does not generate glare, as the existing building is made up of non-reflective materials without large expanses of glass.

3.1.2 Regulatory Setting

Federal

There are no federal regulations related to aesthetics.

State

California Scenic Highway Program

California adopted a Scenic Highway Program (Streets and Highways Code, Section 260 et seq,) in 1963 to preserve and protect scenic highway corridors from change that would diminish the visual quality of areas that are adjacent to highways. The scenic designation is based on the amount of natural landscape visible by motorists, the scenic quality of the landscape, and the extent to which development intrudes upon the motorist's enjoyment of the view.

Local

City of San Diego General Plan

The General Plan includes citywide design goals and policies regarding visual elements that complement the goals for pedestrian-oriented and walkable villages from the City of Villages strategy. A village environment includes high-quality public spaces, civic architecture, and the enhancement of visual quality of all types of development.

The Urban Design Element of the General Plan establishes a set of design principles from which future physical design decisions can be based. Policies call for respecting San Diego's natural topography and distinctive neighborhoods, providing public art, and encouraging the development of walkable, transit-oriented communities.

In its introduction, the Urban Design Element of the General Plan states:

> *As the availability of vacant land becomes more limited, designing infill development and redevelopment that builds upon our existing communities becomes increasingly important. A compact, efficient, and environmentally sensitive pattern of development becomes increasingly important as the City continues to grow. In addition, future development should accommodate and support existing and planned transit service (City of San Diego 2008).*

The General Plan Urban Design Element policies involve architectural and landscape elements, as well as the design of transit, parking, and residential. This element also contains policies related to public spaces and cultural amenities that contribute to the character of neighborhoods. Section 3.4 of this EIR, Land Use and Planning, analyzes the project's consistency with the General Plan's policies, including the Urban Design Element.

Clairemont Mesa Community Plan

The CMCP includes an Urban Design Element that identifies Clairemont Mesa's distinctive image and how this image can be preserved and translated into the built environment. The CMCP states that the community's distinctive attributes include the well-established single-family neighborhoods, low-scale character adjacent to canyons and parks, and a park setting with trees planted in street medians and along sidewalks. To protect the low-scale character of the community as well as vistas to Mission Bay and the Pacific Ocean, the Clairemont Mesa Height Limitation Zone was established in 1989, maintaining a 30-foot height limit throughout the majority of the community. The CMCP notes that with the lack of significant undeveloped land in the community, changes in housing will undoubtedly occur by the replacement of existing housing with new housing, probably at higher densities. In January 2017, the City initiated a comprehensive update to the CMCP, which is currently ongoing and is expected to allocate more residential housing to the community.

City of San Diego Municipal Code

The San Diego Municipal Code (SDMC) includes several regulations related to aesthetics and design, including but not limited to regulations on height (Section 131.0431); building setbacks (Section 131.0431); landscaping, planting, and irrigation standards (Section 142.0404, Section 142.0409, and Section 142.0403); and screening and fencing requirements (Section 142.0910).

3.1.3 Analysis of Project Effects and Determination as to Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in the City of San Diego's CEQA Significance Determination Thresholds (City of San Diego 2016). Accordingly, a significant aesthetics impact would occur if the project would:

> Issue 1: Result in a substantial obstruction of any vista or scenic view from a public viewing area as identified in the community plan;
>
> Issue 2: Result in the creation of a negative aesthetic site or project;
>
> Issue 3: Result in project bulk, scale, materials, or style which would be incompatible with surrounding development;
>
> Issue 4: Result in substantial alteration to the existing or planned character of the area, such as could occur with the construction of a subdivision in a previously undeveloped area. Note for substantial alteration to occur, new development would have to be of a size, scale, or design that would markedly contrast with the character of the surrounding area;

Issue 5: Result in the loss of any distinctive or landmark tree(s), or stand of mature trees as identified in the community plan;

Issue 6: Result in substantial change in the existing landform;

Issue 7: Result in substantial light or glare which would adversely affect daytime or nighttime views in the area.

3.1.3.1 Scenic Views and Vistas

Issue 1: Would the project result in substantial obstruction of any vista or scenic view from public viewing areas identified in the community plan?

Impact Analysis

Community Plan Amendment and Rezone and Site Demolition and Preparation

The proposed project includes an amendment to the CMCP and a rezone that would allow for a future development on the project site, including a maximum of 404 residential units with a height of up to 70 feet. In addition, the project would include site demolition and preparation activities. As previously detailed above, the City's General Plan and the CMCP do not include any formal designation of scenic vistas within the community. However, the CMCP states that many of the neighborhoods along the mesa area overlook Mission Bay and the Pacific Ocean to the west, Fortuna Mountain and Cowles Mountain to the east, and the open space canyon system. The project site itself does not feature any scenic views or contain other scenic resources, such as mountains, canyons, bays or the Pacific Ocean. The proposed project is located approximately 0.8 miles east of Tecolote Canyon, and approximately 4.5 miles east of the Pacific Ocean and Mission Bay. Due to the topography and distance, the project site is not within direct line of sight of Tecolote Canyon, Mission Bay, or the ocean. Therefore, there would be no impacts to scenic vistas with implementation of the proposed project, including both the future development and site demolition and preparation activities.

3.1.3.4 Adverse Effects to Visual Character

Issue 2: Would the project result in the creation of a negative aesthetic site or project?

Issue 4: Would the project result in substantial alteration to the existing or planned character of the area, such as could occur with the construction of a subdivision in a previously undeveloped area?

Impact Analysis

Community Plan Amendment and Rezone

The project site is currently occupied by the existing one- and two-story Crime Lab facility and associated surface parking lots. The Community Plan Amendment (CPA) and rezone of the project site would allow for the future development of a maximum of 404 residential units with a height of up to 70 feet. While the exact design of the future development is unknown at this time, the proposed Community Plan Implementation Overlay Zone (CPIOZ) Type A (CPIOZ-A) supplemental development regulations included in Appendix B of this EIR provide aesthetic regulations that would guide the design of the future development. Specifically, those regulations include, and are not limited to:

1) Community accessible active ground floor space oriented towards the fronting public streets;

2) Building setbacks intended to encourage pedestrian scale and compatibility with adjacent uses;

3) Landscape screening of any surface parking directly adjacent to public rights-of-way;

4) Landscaping of the project site, and the planting of street trees along public street frontages to provide a shaded pedestrian environment;

5) Building articulation that diminishes the appearance of mass and bulk, and that creates visual interest as viewed at the pedestrian scale;

6) Screening and fencing of storage areas, ground-level and rooftop mechanical equipment, and maintenance areas; and

7) Residential open space, including: private (balcony, patio, or roof terrace) exterior open space.

The project site is currently developed with typical office buildings that feature a minimum of articulation, landscaping, and urban design features. The proposed project would replace the existing building with new buildings with high quality architecture and articulation, along with pedestrian facilities, and landscaping and open space. The design of the future development would be subject to the standards in the CPIOZ-A and reviewed for compliance during the building permit process. In addition, the existing community does not have an established architectural theme, and therefore the proposed project would not be deviating from an established thematic character. While the height of the future on-site structure would be increased from one and two-story buildings to a maximum height of 70 feet, the proposed height would be consistent with the two existing

Balboa Towers that are located south of the project site, which are seven-stories and ten-stories in height. In addition, as the future development would be an affordable housing project, the development would be allowed to exceed the community's 30-foot height limit overlay, in accordance with the SDMC Section 101.0452.5.D. Although implementation of the proposed project would include new development that would change the use and visual characteristics of the project site, it would not substantially degrade the surrounding visual character or quality. As such, the proposed project would not result in the creation of a negative aesthetic site or project and would not result in substantial alteration to the existing character of the area. Therefore, impacts would be less than significant.

Site Demolition and Preparation

In addition to the CPA and a rezone of the project site, the proposed project also includes the demolition of the existing unoccupied buildings and related facilities on-site, disposal of the demolition debris, mass grading of the site, and existing utilities stubbed out to the project site boundary. Site demolition and preparation activities would include the temporary presence and use of heavy machinery including, but not limited to large trucks, bulldozers, and a construction staging area. However, construction activities are considered a temporary, short-term visual affect. Therefore, site demolition and preparation activities would not result in the creation of a negative aesthetic or result in a substantial alteration to the existing or planned character of the area, and impacts would be less than significant.

3.1.3.5 Incompatible with Surrounding Development

Issue 3: Would the project result in bulk, scale, materials, or style which would be incompatible with the surrounding development?

Impact Analysis

Community Plan Amendment and Rezone

As previously detailed, the proposed project would allow for the future development of a maximum of 404 residential units with a height of up to 70 feet. While the exact design of the future development is unknown at this time, the proposed CPIOZ-A supplemental development regulations included in Appendix B of this EIR provide urban design regulations applicable to the future residential development. These regulations include building setbacks, landscape and streetscape regulations, and building articulation standards to diminish overall mass of buildings and create variation from an exterior perspective. While building materials and style are unknown at this time, the project would be subject to the standards in the CPIOZ-A and reviewed for compliance during the

building permit process, which would ensure building materials and styles compatible with the surrounding development. In addition, the existing community does not have an established architectural theme, and therefore the proposed project would not be deviating from an established thematic character.

While the height of the structures on site would be increased from one and two-story buildings to a maximum height of 70 feet the proposed height would be consistent with the two existing Balboa Towers that are located south of the project site, which are seven stories and ten stories in height. Due to the proposed height of the future development, a shade and shadow analysis was completed to determine the future development's resulting shadows to determine incompatibility with the surrounding development.

As previously detailed, the consequences of shadows on land uses can be positive, including cooling effects during warm weather; or negative, such as loss of warmth during cooler weather and loss of natural light for landscaping and human activity. In order to determine the extent of any negative shading impacts on surrounding development, shading diagrams were prepared to demonstrate the extent shadows would be generated by the proposed project, assuming compliance with the CPIOZ-A supplemental development regulations. **Figure 3.1-6** shows the shade and shadow projections the project could produce during the winter solstice (December 21), when sun angles are angles are lowest, and shadows are at their longest. As shown in this figure, shadows from the project site would largely be cast onto surrounding streets, including Mount Etna Drive, Genesee Avenue, and the adjacent SDG&E easement. Shadows would be cast onto the three-story medical building east of the project site and onto a portion of the commercial buildings north of the project site. However, these shadows would largely be cast on driveways, parking lots, and ornamental landscaping fronting the buildings, where shadows would not interfere with pedestrians congregating or on uses that rely on sunlight. **Figure 3.1-7** shows the shadow projections during the spring equinox (March 21), which shows that shadows would largely be cast onto the SDG&E easement, Mount Etna Drive, and Genesee Avenue. The medical building east of the project site would have shadows cast on the structure, however, the shadows would be cast at various times and locations throughout the day. **Figure 3.1-8** shows the shadow projections during the summer solstice (June 21), when shadows are at their shortest. As shown on this figure, shadows would be cast onto the SDG&E easement and Genesee Avenue. Shadows would be cast on the medical building east of the project site only in the evening. **Figure 3.1-9** shows shadow projections during the fall equinox (September 21). Similar to Figure 3.1-7, shadows would largely be cast onto the SDG&E easement, Mount Etna Drive, and Genesee Avenue. The medical building east of the project site would have shadows cast on the structure, however, the shadows would be cast at various times and locations throughout the day. While shadows would be cast onto a

portion of the surrounding development, the shadows would not be cast on areas that rely on sunlight to function properly, such as pedestrian-oriented outdoor eating areas, schools, nurseries, or solar collectors.

With implementation of the proposed supplemental development regulations included in Appendix B of this EIR, the design of the future development would not be incompatible with the bulk, scale, materials, or style with the surrounding development. In addition, impacts associated with shade and shadow of the future development would not be visually incompatible with surrounding uses and character of the project area. Therefore, impacts would be less than significant.

Site Demolition and Preparation

Site demolition and preparation activities would include the temporary presence and use of heavy machinery including, but not limited to large trucks, bulldozers, and a construction staging area. However, construction activities are considered a temporary, short-term visual affect. Therefore, site demolition and preparation activities would not result in visual incompatibility with surrounding uses, and impacts would be less than significant.

3.1.3.6 Loss of Existing Visual Features

Issue 5: Would the project result in the loss of any distinctive or landmark tree(s), or stand of mature trees as identified in the community plan?

Issue 6: Would the project result in substantial change in the existing landform?

Impact Analysis

Community Plan Amendment and Rezone and Site Demolition and Preparation

The project site currently includes the vacant Crime Lab building, associated surface parking lots, and minimal ornamental landscaping adjacent to the building along Mount Etna Drive and in courtyards on the eastern portion of the project site. No distinctive or landmark trees or stand of mature trees currently exist on the project site. Therefore, implementation of the proposed project, including both the future residential development and site demolition activities, would not result in the loss of distinctive trees, and impacts would be less than significant.

The site demolition and preparation activities would deliver a rough graded pad for future development. The graded pad would include a maximum two percent slope to ensure that the pad drains correctly. Site preparation activities would include approximately 1,200 cubic yards of soil exported. According to the City of San Diego's CEQA Significance Determination Thresholds (City of San Diego 2016), projects that are considered to significantly alter the natural landform

would include altering more than 2,000 cubic yards of earth. Therefore, with implementation of the proposed project, no substantial change in the existing landform would occur, and impacts would be less than significant.

3.1.3.3 New Sources of Light and Glare

Issue 7: Would the project result in substantial light or glare which would adversely affect daytime or nighttime views in the area?

Impact Analysis

Community Plan Amendment and Rezone

The introduction of light can be a nuisance to adjacent residential areas and can diminish the view of the night sky. Currently, the project site consists of the Crime Lab facility, which includes existing street lamps in the surface parking lot and exterior security lighting on the existing buildings. The area surrounding the project site consists of developed land with commercial and residential uses, which emit nighttime light typical of an urban community. Implementation of the proposed project would result in the addition of potential lighting sources associated with the future residential development, including lighting from residential units, vehicular traffic, and parking lot lighting. While the proposed project would result in the addition of lighting sources, there are existing light sources already occurring on and surrounding the project site. Nighttime views near the project site already include existing urban light pollution, and the contribution from the project site would be minimal. Additionally, all lighting installed would be in compliance with the SDMC Section 142.0740 Outdoor Lighting Regulations. Therefore, the future development would not result in substantial new light sources, and impacts would be less than significant.

Daytime glare is typically caused by the reflection of sunlight or artificial light from highly polished surfaces, such as window glare or reflective materials. The project site currently does not generate glare, as the existing building is made up of non-reflective materials without large expanses of glass. While the design of the future development is unknown at this time, residential buildings typically use non-reflective building materials, such as stucco, wood, or stone veneer. While building materials are unknown at this time, the project would be subject to the standards in the CPIOZ-A and reviewed for compliance during the building permit process. In compliance with the SDMC Section 142.0730, the proposed project would be required to have less than 50 percent of the building's exterior comprised of reflective material that has a light reflectivity factor greater than 30 percent. Therefore, impacts related to glare would be less than significant with implementation of the proposed project.

Site Demolition and Preparation

Site demolition and preparation activities would include the presence and use of heavy machinery including, but not limited to large trucks, bulldozers, and a construction staging area, which would not include large amounts of lighting or reflective materials. No nighttime lighting is anticipated for the proposed project. Construction activities are considered a temporary, short-term visual affect. Therefore, site demolition and preparation activities would not result in substantial light or glare that would adversely affect daytime or nighttime views in the area.

3.1.4 Cumulative Impact Analysis

The geographic context for the analysis of cumulative impacts with regards to visual character and quality, and creation of substantial light and glare are public views of the project site and surrounding areas. The approved or planned cumulative projects within the surrounding area include commercial, residential, and educational land uses. The proposed project, when considered with other projects in the cumulative area, could have the potential to change the visual character of the surrounding area. However, because the area surrounding the project site is existing residential and commercial uses, the visual character or quality of the project site and surrounding area would not be substantially degraded. The proposed project would be consistent with the existing height of existing buildings to the south and would be required to adhere to proposed CPIOZ-A supplemental development regulations included in Appendix B of this EIR. Therefore, when considered with other projects, the project's incremental contribution to impacts on visual character or quality would not be cumulatively considerable.

While the proposed project would include daytime and nighttime exterior light in the form of residential lighting and headlights, the proposed project would be in compliance with applicable light and glare regulations. The proposed project, when considered with other projects, could have the potential to result in substantial light and glare impacts. However, the proposed project and the cumulative projects would be required to comply with the City's existing lighting and glare regulations. Therefore, the project's incremental contribution to impacts on light and glare would not be cumulatively considerable.

3.1.5 Significance of Impacts Prior to Mitigation

Impacts related to aesthetics and visual resources would be less than significant.

3.1.6 Mitigation

No mitigation measures are required.

3.1.7 Conclusion

Due to the topography and distance, the project site is not within direct line of sight of mountains, canyons, bays, or the Pacific Ocean. Therefore, impacts to scenic vistas with implementation of the proposed project, including both the future development and site demolition and preparation activities, would be less than significant.

Although implementation of the proposed project would include new development that would change the use and visual characteristics of the project site, it would not substantially degrade the surrounding visual character or quality. As such, the proposed project would not result in the creation of a negative aesthetic site or project and would not result in substantial alteration to the existing character of the area, such as a subdivision in a previously undeveloped area.

With implementation of the proposed CPIOZ-A supplemental development regulations included in Appendix B of this EIR, the design of the future development would not be incompatible with the bulk, scale, materials, or style with the surrounding development. In addition, impacts associated with shade and shadow of the future development would not be incompatible with surrounding uses.

Implementation of the proposed project would result in the addition of potential lighting sources. However, the proposed project would be in compliance with the SDMC related to lighting and glare. Therefore, impacts related to aesthetics and visual resources would be less than significant.



Viewpoint #1: Existing view of the project site from the northwest looking south



Viewpoint #2: Existing view of the project site from the southwest looking northeast

150334.05

SOURCE: ESA, 2019

Mount Etna Community Plan Amendment and Rezone Project

Figure 3.**1-1**
General Vicinity Viewpoints

ESA



SOURCE: Google Earth, 2019; ESA, 2019.

Mount Etna Community Plan Amendment and Rezone Project

Figure 3.1-2
Key Viewpoint Locations

ESA



Viewpoint #3: Existing view of the project site from the northeast looking southwest



Viewpoint #4: Existing view of the project site from the southeast looking northwest

150334.05

SOURCE: ESA, 2019

Mount Etna Community Plan Amendment and Rezone Project

Figure 3.1-3
Existing Views - Viewpoints 3 and 4

ESA



Viewpoint #5: Existing view of the project site from the south looking north



Viewpoint #6: Existing view of the project site from the northwest looking southeast

150334.05

SOURCE: ESA, 2019

Mount Etna Community Plan Amendment and Rezone Project

Figure 3.1-4
Existing Views - Viewpoints 5 and 6

ESA



Viewpoint #7: Existing view of the project site from the west looking east

150334.05

SOURCE: ESA, 2019

Mount Etna Community Plan Amendment and Rezone Project

Figure 3**.1-5**
Existing View - Viewpoint 7

ESA



SAN\15XXX\D150334.00 - County of San Diego General Services As-Needed\02 Active Tasks\D150334.05 -Crime Lab AH\05 Graphics-GIS-Modeling\Illustrator

SOURCE: ESA, 2019; Basemap Google Earth, 2019

Mount Etna Community Plan Amendment and Rezone Project

Figure 3.1-6
Winter Solstice (December 21) Shadows

ESA



SAN\15XXX\D150334.00 - County of San Diego General Services As-Needed\02 Active Tasks\D150334.05 -Crime Lab AH\05 Graphics-GIS-Modeling\Illustrator

SOURCE: ESA, 2019; Basemap Google Earth, 2019

Mount Etna Community Plan Amendment and Rezone Project

Figure 3.1-7
Spring Equinox (March 21) Shadows

ESA



SAN\15XXX\D150334.00 - County of San Diego General Services As-Needed\02 Active Tasks\D150334.05 -Crime Lab AH\05 Graphics-GIS-Modeling\Illustrator

SOURCE: ESA, 2019; Basemap Google Earth, 2019

Mount Etna Community Plan Amendment and Rezone Project

Figure 3.1-8
Summer Solstice (June 21) Shadows

ESA



SAN\15XXX\D150334.00 - County of San Diego General Services As-Needed\02 Active Tasks\D150334.05 -Crime Lab AH\05 Graphics-GIS-Modeling\Illustrator

SOURCE: ESA, 2019; Basemap Google Earth, 2019

Mount Etna Community Plan Amendment and Rezone Project

Figure 3.1-9
Fall Equinox (September 21) Shadows

ESA

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3.2 Energy

This section analyzes impacts on energy resources due to construction and operation of the project. This section provides a summary of the project's anticipated energy needs, impacts, and conservation measures. Information found herein, as well as other aspects of the project's energy implications, are discussed in greater detail elsewhere in this EIR, including in Chapter 1.0, Project Description, Location, and Environmental Setting, and Sections 2.1, Air Quality; 2.4, Transportation and Traffic; 3.3, Greenhouse Gas Emissions; and 3.4, Land Use and Planning.

There were no comments related to energy received during the public comment period for the Notice of Preparation (NOP). The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

3.2.1 Existing Conditions

3.2.1.1 Electrical Energy

San Diego Gas & Electric (SDG&E) is the electricity provider for the project area. SDG&E, a Sempra Energy Utility, is a regulated public utility that provides electrical services to approximately 3.6 million people in 25 communities and two counties (San Diego and southern Orange counties) over its 4,100-square-mile service area (SDG&E 2019). In 2017, SDG&E's total electricity sales in the County of San Diego was estimated to be 19,346 gigawatt hours (GWh) (CEC 2018a).

SDG&E produces and purchases their energy from a mix of conventional and renewable generating sources. **Table 3.2-1** shows the electric power mix that was delivered to retail customers for SDG&E compared to the statewide power mix for 2017, the most recent year in which data is available. Total electricity sales/usage for SDG&E is shown in Table 3.2-1 compared to the statewide electricity sales/usage from the most recent year for which data is available.

3.2.1.2 Natural Gas Supply

Natural gas is used for cooking, space heating, water heating, electricity generation, and as an alternative transportation fuel. SDG&E is responsible for providing natural gas supply to the project. In 2013, SDG&E's total natural gas sales in the County of San Diego was estimated to be 480 million therms or 47.9 trillion BTU (CEC 2018b).

Table 3.2-1
Electric Power Mix Delivered to Retail Customers in 2017

Energy Resource	2017 SDG&E (Percent)	2017 CA Power Mix (for comparison) (Percent)
Eligible Renewable [a]	**44**	**29**
Biomass & bio-waste	2	2
Geothermal	0	4
Small hydroelectric	0	3
Solar	21	10
Wind	21	10
Coal	**0**	**4**
Large Hydroelectric	**0**	**15**
Natural Gas	**39**	**34**
Nuclear	**0**	**9**
Other	**0**	**<1**
Unspecified sources of power[b]	**17**	**9**
Total	**100 Percent**	**100 Percent**

[a] The Eligible Renewables category is further delineated into the specific sources: biomass & waste, geothermal, small hydroelectric, solar, and wind.

[b] "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources.

SOURCES: CEC 2018c.

3.2.1.3 Transportation Energy

Transportation energy is calculated from fuels used to power on-road and off-road vehicles. Based on available fuel consumption data from the CEC, in 2017, residences and businesses in all of San Diego County (including incorporated municipalities) consumed a total of 1.23 billion gallons of gasoline and 92 million gallons of diesel fuel (CEC 2019).

SDG&E is required to commit to the use of renewable energy sources for compliance with the Renewables Portfolio Standard (RPS), which requires at least 33 percent of its energy portfolio to come from renewable sources by 2020. As of 2017, nearly 45 percent of SDG&E's generating capacity is from renewable energy sources, surpassing the original RPS goal. SB 350 (Chapter 547, Statutes of 2015) further increased the RPS to 50 percent by 2030 and included interim targets of 40 percent by 2024 and 45 percent by 2027. Eligible renewable resources are defined in the RPS to include biodiesel; biomass; hydroelectric and mall hydro (30 Mega Watts [MW] or less); aqueduct hydro power plants; digester gas; fuel cells; geothermal; landfill gas; municipal solid waste; ocean thermal, ocean wave, and tidal current technologies; renewable derived biogas; multi-fuel

facilities using renewable fuels; solar photovoltaic (PV); solar thermal electric; wind; and other renewables that may be defined later. SB 100 (Chapter 312, Statutes of 2018) further increases the RPS to 50 percent by December 31, 2026 and to achieve 60 percent by December 31, 2030. SB 100 also states that eligible renewable energy sources and zero-carbon resources supply 100 percent of retail sales of electricity and 100 percent of electricity procured to serve state agencies by December 31, 2045.

3.2.2 Regulatory Setting

3.2.2.1 Federal

Energy Independence and Security Act

Signed on December 19, 2007, the Energy Independence and Security Act (EISA) of 2007 aims to increase U.S. energy independence and security, develop renewable energy production, protect consumers, increase the efficiency of products, buildings, and vehicles, promote research on and deploy greenhouse gas capture and storage options, and improve the energy performance of the Federal Government. The three key provisions enacted are the Corporate Average Fuel Economy (CAFE) Standards, the Renewable Fuel Standard, and the appliance/lighting efficiency standards (USEPA 2007).

3.2.2.2 State

State of California Integrated Energy Policy

In 2002, the Legislature passed Senate Bill 1389, which required the California Energy Commission (CEC) to develop an integrated energy plan every two years for electricity, natural gas, and transportation fuels, for the California Energy Policy Report. The plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for Zero Emission Vehicles and their infrastructure needs, and encouragement of urban designs that reduce vehicle miles traveled and accommodate pedestrian and bicycle access.

The CEC has adopted the 2015 Integrated Energy Policy Report, which assesses major energy trends and issues facing the state's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources, protect the environment, ensure reliable, secure, and diverse energy supplies, enhance the state's economy, and protect public health and safety. The 2015 Integrated Energy Policy Report covers a broad range of topics, including

energy efficiency, building energy efficiency standards, achieving 50 percent renewables by 2030, and the California Energy Demand Forecast.

Title 24, Building Standards Code and California Green Building Standards (CALGreen) Code

The CEC first adopted the Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations (CCR), Title 24, Part 6) in 1978 in response to a legislative mandate to reduce energy consumption in the State. The standards are updated periodically to allow for the consideration and inclusion of new energy efficiency technologies and methods. The California Building Standards Commission (CBSC) adopted Part 11 of the Title 24 Building Energy Efficiency Standards, referred to as the California Green Building Standards (CALGreen) Code. The purpose of the CALGreen Code is to "improve public health, safety and general welfare by enhancing the design and construction of buildings through the use of building concepts having a positive environmental impact and encouraging sustainable construction practices in the following categories: (1) Planning and design; (2) Energy efficiency; (3) Water efficiency and conservation; (4) Material conservation and resource efficiency; and (5) Environmental air quality." The CALGreen Code establishes mandatory measures for new residential and non-residential buildings, which include requirements for energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. The CALGreen Code was most recently updated in 2016 to include new mandatory measures for residential as well as nonresidential uses. The new measures took effect on January 1, 2017. Buildings constructed under the project would be required to comply with the applicable provisions of Title 24 and the CALGreen Code in effect at the time of building permit issuance.

Senate Bill 375

SB 375 was signed into law in 2008 and is intended to provide a means for achieving AB 32 Greenhouse Gas Emissions target reduction goals from cars and light trucks through long-range regional growth strategies and transportation plans. SB 375 is directed toward California's 18 Metropolitan Planning Organizations (MPOs). The San Diego Association of Governments (SANDAG) is San Diego County's MPO. Under SB 375, each MPO is required to develop a "Sustainable Communities Strategy (SCS)," a newly required element of the Regional Transportation Plan (RTP). SB 375 does not take over local planning functions, and a SCS does not in any way supersede a General Plan, specific plan, or local zoning ordinance. Additionally, SB 375 does not require any consistency between the SCS and these planning and development regulatory documents. However, the MPOs are required to develop the SCS through integrated land use and transportation planning and demonstrate an ability to attain the proposed reduction targets by 2020 and 2035. See below the

discussion of SANDAG's San Diego Forward: The Regional Plan, which contains the SCS and RTP.

Executive Order B-55-18

On September 10, 2018, the governor issued Executive Oder B-55-18, which established a new statewide goal of achieving carbon neutrality by 2045 and maintaining net negative emissions thereafter. This goal is in addition to the existing statewide GHG reduction targets established by SB 375, SB 32, SB 1383, and SB 100.

3.2.2.3 Regional

San Diego Association of Governments San Diego Forward: The Regional Plan

On October 9, 2015, the SANDAG Board of Directors adopted San Diego Forward: The Regional Plan. This plan combines the Regional Comprehensive Plan from 2004 with the 2050 RTP/SCS, which was adopted in 2012. The Regional Plan identifies the five following strategies to move the San Diego region toward sustainability:

- Focus housing and job growth in urbanized areas where there is existing and planned transportation infrastructure, including transit,
- Protect the environmental and help ensure the success of smart growth land use policies by preserving sensitive habitat, open space, cultural resources, and farmland,
- Invest in a transportation network that gives people transportation choices and reduces greenhouse gas emissions,
- Address the housing needs of all economic segments of the population, and
- Implement the Regional Plan through incentives and collaboration.

SDG&E Individual Integrated Resource Plan

The Integrated Resource Plan (IIRP) process is the statewide approach to electric resource planning established by SB 350 intended to achieve California's GHG emissions reduction goals for the electric sector through and beyond 2030. In addition to addressing SDG&E's position relative to the GHG target, SDG&E's IIRP provides data and analysis describing its Disadvantaged Communities (DACs), including a comprehensive description of its current activities serving DAC customers, and a discussion on early prioritization of emissions in DACs. SDG&E current RPS position has around 45 percent from renewable energy and no coal. SDG&E identifies a need for additional GHG emission reduction activities to be conducted in the outer years of the planning horizon (2026–2030). In the forecast to 2030, the SDG&E Conforming Portfolio demonstrates that

SDG&E is providing energy to the system consistent with its customers' demand (SDG&E 2018.)

Sempra Energy 2017 Corporate Sustainability Report

Sempra Energy's annual corporate sustainability report includes year-over-year performance in GHG emissions, environmental compliance and water use. Sempra has made progress in reducing GHG emissions and increasing the amount of low-carbon energy in their power generation portfolio (Sempra Energy 2017):

- By 2021, Sempra Energy intends to achieve a power-generation emissions rate of 35 percent below our 2010 baseline,
- By 2022, their power generation portfolio is projected to be 69 percent emissions-free,
- Approximately 45 percent of the electricity SDG&E delivered to its customers in 2017 was from renewable energy sources – the utility is on track to meet the California target of 50 percent-renewable by 2030, and
- Only 1 percent of their water was withdrawn from freshwater sources; 7 percent was withdrawn from recycled/reclaimed sources; and 92 percent was withdrawn from seawater sources.

3.2.2.4 Local

City of San Diego Climate Action Plan

The City adopted its Climate Action Plan (CAP) in December 2015. With implementation of the CAP the City seeks to reduce emissions 15 percent below baseline emissions by 2020, 40 percent below by 2030, and 50 percent below by 2035. The City has identified the following five strategies to reduce their GHG emissions and meet their 2020, 2030, and 2035 targets:

1. Energy- and water-efficient buildings
2. Clean and renewable energy
3. Bicycling, walking, transit, and land use
4. Zero waste and waste management
5. Climate resiliency

These strategies are integral to reaching the City's target emission reductions and are implemented via the CAP Consistency Checklist. The checklist evaluates a project's consistency with the strategies and compares against three criteria:

1. Project's consistency with existing General Plan

2. Assessment of project's design features for compliance with CAP strategies
3. If a project is inconsistent with land use or zoning, then is the project in a transit priority area that allows for more intensive development than assumed under the CAP

The strategies and checklist developed under the CAP would encourage not only emissions reductions, but increases in building energy and transportation efficiency improvements.

3.2.4 Analysis of Project Effects and Determination as to Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in the City of San Diego's CEQA Significance Determination Thresholds (City of San Diego 2016). Accordingly, a significant energy impact would occur if the project would:

> Issue 1: Result in the use of excessive amounts of fuel or energy (e.g. natural gas) or
>
> Issue 2: Result in the use of excessive amounts of power.

3.2.3.1 Energy Resources

Issue 1: Would the proposed project result in the use of excessive amounts of fuel or energy (e.g. natural gas)?

Impact Analysis

Community Plan Amendment and Rezone and Site Demolition and Preparation

Construction

The proposed project includes an amendment to the Clairemont Mesa Community Plan (CMCP) and a rezone that would allow for a future residential development with a maximum of 404 units. During construction, (including both site demolition and preparation activities associated with the proposed project and anticipated construction of the future development) energy would be consumed predominantly in the form of electricity for water conveyance for dust control, as well as minor consumption from other onsite construction activities. Natural gas would not be consumed in any appreciable amount. Project construction would also consume energy in the form of petroleum-based fuels associated with the use of off-road construction vehicles and equipment on the project site, construction workers travel to and from the project site, and delivery and haul truck trips (e.g., hauling of demolition material to offsite reuse and disposal facilities). Site preparation and demolition of the existing site and construction of the future development were conservatively considered as a

combined construction action with no break in schedule between demolition and redevelopment. If the site redevelopment does not occur immediately following the demolition, construction impacts would be lower than those analyzed here due to the use of a more energy-efficient and cleaner burning construction vehicle fleet mix, pursuant to State regulations that require vehicle fleet operators to phase-in less polluting heavy-duty equipment. As a result, should project construction of the future development commence at a later date than analyzed in this EIR, energy impacts would be lower than the impacts disclosed herein.

Table 3.2-2 provides a summary of the annual average electricity, natural gas, gasoline fuel, and diesel fuel estimated to be consumed during both phases of construction for the proposed project. Each of these energy types is discussed and analyzed in greater detail in the sections below.

Table 3.2-2
Construction Average Annual Energy Use

Fuel Type	Quantity
Gasoline	**gallons**
On-Road Construction Equipment	13,491
Off-Road Construction Equipment	0
Total Gasoline	**13,491**
Annual County Gasoline Usage	**1,387,000,000**
% of County	**0.0010%**
Diesel	**gallons**
On-Road Construction Equipment	15,470
Off-Road Construction Equipment	22,497
Total Diesel	**37,967**
Annual County Diesel Usage	**214,580,000**
% of County	**0.018%**
Electricity	**GWh**
Water Conveyance for Dust Control	0.069
SDG&E Annual Usage (2018)	**18,767**
% of SDG&E	**0.0004%**
Project Length	**1.75 years**

SOURCE: ESA 2019 (See Appendix E)

Refer to Appendix E for detailed calculations

Natural Gas

As stated above, construction activities associated with the County's site preparation and demolition activities and the future construction of the residential development project would not consume appreciable amounts of natural gas during construction because a very limited amount of the equipment would rely

on natural gas for fuel. Therefore, impacts would not result in the use of excessive amounts of fuel or energy, resulting in a less than significant impact.

Transportation Energy

Table 3.2-2 above reports the amount of petroleum-based transportation energy that could potentially be consumed during construction associated with site demolition and preparation activities and the future construction of the residential development project based on the conservative set of assumptions provided in Appendix E of this EIR. Construction on- and off-road vehicles are anticipated to consume approximately 13,491 gallons of gasoline and 37,967 gallons of diesel annually. For comparison purposes only, and not for the purpose of determining significance, the fuel usage during project construction would represent approximately 0.001 percent of the 2018 annual on-road gasoline-related energy consumption and 0.04 percent of the 2018 annual diesel fuel-related energy consumption in San Diego County, as detailed in Appendix E of this EIR.

Transportation fuels (gasoline and diesel) are produced from crude oil, which can be domestic or imported from various regions around the world. Based on current proven reserves, crude oil production would be sufficient to meet over 50 years of worldwide consumption (BP Global 2018). The proposed project would be required to comply with Corporate Average Fuel Economy (CAFE) standards, which would result in more efficient use of transportation fuels (lower consumption). Project-related vehicle trips would also comply with Pavley and Low Carbon Fuel Standards (LCFS), which are designed to reduce vehicle GHG emissions, but would also result in fuel savings above and beyond compliance with CAFE standards.

Construction vehicles would utilize fuel-efficient equipment consistent with state and federal regulations, such as fuel efficiency regulations in accordance with the CARB Pavley Phase II standards, the anti-idling regulation in accordance with Section 2485 in Title 13 of the CCR, and fuel requirements for stationary equipment in accordance with Section 93115 (concerning Airborne Toxic Control Measures) in Title 17 of the CCR, and would comply with State measures to reduce the inefficient, wasteful, and unnecessary consumption of energy, such as petroleum-based transportation fuels. While these regulations are intended to reduce construction emissions, compliance with the anti-idling and emissions regulations discussed above would also result in fuel savings from the use of more fuel-efficient engines.

Based on the analysis above, construction would utilize energy only for necessary on-site activities and to transport construction materials and demolition debris to and from the project site. As discussed above, idling restrictions and the use of cleaner, energy-efficient equipment would result in less fuel combustion and energy consumption and thus minimize the proposed

project's construction-related energy use. Therefore, construction associated with both site demolition and preparation activities and with the future development would not result in the use of excessive amounts of fuel or energy.

Operation

During operation of the anticipated future residential development, energy would be consumed for multiple purposes, including, but not limited to, heating, ventilation, and air conditioning (HVAC), lighting, water usage, solid waste disposal, and vehicle trips. The future development project would be built as a Leadership in Energy and Environmental Design (LEED) Building Design Silver or equivalent.

As shown in **Table 3.2-3**, the proposed project's annual energy demand would be approximately 2.48 GWh of electricity, 6,310 MMBtu of natural gas, 187,528 gallons of gasoline, and 30,615 gallons of diesel fuel.

Table 3.2-3
Project Operational Energy Usage and Regional Energy Supply

Source	Electricity per Year	Natural Gas per Year	Gasoline Fuel per Year (gallons) [c]	Diesel Fuel per Year (gallons)[c]
SDG&E	(GWh)[a]	(MMBtu)[b]	—	—
San Diego County (Transportation Sector) (2017) [c]	18,767	48,249,720	1,387,000,000	214,580,000
Building Energy [d]	2.48	6,310	—	—
Mobile Sources [e]	—	389	187,528 [f]	30,615 [f]
Total	2.48	6,699	**187,528**	**30,615**
Percent of SDG&E	0.013%	0.014%	—	—
Percent of San Diego County (Transportation Sector)	—	—	0.014%	0.014%

NOTES:

[a] CEC: http://www.ecdms.energy.ca.gov/elecbyutil.aspx

[b] CEC: http://www.ecdms.energy.ca.gov/gasbyutil.aspx

[c] California Energy Commission; 2010-2018 CEC-A15 Results and Analysis

[d] CalEEMod v2016.3.2

[e] EMFAC2017

SOURCE: ESA 2019 (See Appendix E)
Refer to Appendix E for detailed calculations

The proposed project would comply with the applicable provisions of Title 24 and the CALGreen Code in effect at the time of building permit issuance to minimize energy demand. As such, the proposed project would minimize its energy demand in accordance with the regulations.

Natural Gas

The proposed project would increase the demand for natural gas resources related to heating systems, water systems, and compressed natural gas (CNG) vehicles. The project's estimated operational natural gas demand is provided in Table 3.2-3; the proposed project is projected to generate an annual demand for natural gas totaling approximately 6,310 MMBtu. As would be the case with electricity, the proposed project would comply with the applicable provisions of Title 24 and the CALGreen Code in effect at the time of building permit issuance to minimize natural gas demand. As such, the proposed project would minimize its energy demand in accordance with the regulations. Therefore, with the incorporation of these features, operation of the proposed project would not result in the use of excessive amounts of fuel or energy.

Transportation Fuel

The proposed project would increase the demand for fuel resources. The project's estimated operational gasoline and diesel fuel use is provided in Table 3.2-3; the proposed project is projected to generate an annual demand for gasoline totaling approximately 187,528 gallons per year and generate annual demand for diesel totaling approximately 30,615 gallons. The fuel consumption generated by the project represents 0.014 percent of the County's total gasoline use and 0.014 percent of the County's diesel use in 2018. The project is located in a planned transit priority area (TPA) with high frequency transit services immediately adjacent to the site on Genesee Avenue. Transit includes Bus Route #41 and Bus Route #27 which are both within 175 feet of the project site. The project's location near public transit would help reduce vehicle trips to and from the site and reduce the amount of fossil fuel used by the project. In addition, the project is walking distance from commercial centers offering retail, restaurants, and grocery stores that would limit the amount of fossil fuel used by residents and encourage pedestrian activity. Therefore, the project's location near public transit and commercial areas would minimize fossil fuel consumption and not result in the use of excessive amounts of fuel.

3.2.3.2 Power

Issue 2: Result in the use of excessive amounts of power

Impact Analysis

Community Plan Amendment and Rezone and Site Demolition and Preparation

Construction

During construction of both site demolition activities and the future residential development allowed under the proposed project, electricity would be supplied by SDG&E and would be obtained from the existing electrical lines that connect to the project site. As shown in Table 3.2-2, annual average construction electricity usage would be approximately 0.069 GWh. Although there is a minor temporary increase in electricity consumption during construction, the electrical consumption would be within the supply and infrastructure capabilities of SDG&E (18,767 GWh net energy for 2018), representing less than 0.001 percent of SDG&E's 2018 supply (CEC 2018d). The electricity demand at any given time would vary throughout the construction period based on the construction activities being performed, and would cease upon completion of construction. Electricity use from construction would be short-term, limited to working hours, used for necessary construction-related activities, and represent a small fraction of the proposed project's net annual operational electricity. Therefore, impacts from construction-related electrical demand would be less than significant and would not result in the use of excessive amounts of power.

Operation

As shown in Table 3.2-3, operation of the future residential development would result in a projected consumption of electricity totaling approximately 2.48 GWh per year and represent 0.013 percent of SDG&E's total sales in 2018. The project would increase demand for electricity including what is needed to support building operations and would be subject to regulations under the CALGreen Code. The CALGreen Code establishes mandatory standards that require new residential and non-residential uses to reduce electricity, water, and waste to a certain percentage beyond an established baseline level. For example, the project would be required to reduce indoor water use by 20 percent below baseline levels under CALGreen code. The project's commitment to LEED Silver or equivalent design would also increase the overall energy efficiency of the building and ensure efficient use of energy. Therefore, compliance with CALGreen code and commitment to LEED Silver or equivalent would ensure the project would not result in the use of excessive amounts of power.

3.2.4 Cumulative Impact Analysis

Natural Gas

The geographic context for the cumulative analysis of natural gas is the SDG&E service area. Growth within this geography is anticipated to increase the demand for natural gas and the need for infrastructure, such as new or expanded facilities.

Implementation of the project and related cumulative projects in the SDG&E service area is expected to increase natural gas consumption and the need for natural gas supplies. According to SDG&E data, natural gas sales have been relatively stable over the past five years with a slight increase from 45,099,250 MMBTU in 2014 to 48,249,720 MMBTU in 2018. Projected throughput in 2022 is approximately 53,200,000 MBTU. Based on the project's estimated natural gas consumption as shown in Table 3.2-3, the project would account for less than approximately 0.012 percent of SDG&E's total electrical energy usage for the project's buildout year (i.e., 2020).

Although future development projects would result in irreversible use of natural gas resources that could limit future availability, the use of such resources would be on a relatively small scale and would be consistent with regional and local growth expectations for the SDG&E service area. Further, like the project, other future development projects would be expected to incorporate energy conservation features, comply with applicable regulations including CALGreen and State energy standards in Title 24. Therefore, the project would not have a cumulatively considerable impact related to natural gas consumption, and impacts would be less than significant.

Transportation Fuel

Buildout of the project and related projects in the region would be expected to increase overall vehicle miles travelled (VMT); however, the siting of development near transit priority areas consistent with 2016 RTP/SCS goals would result in reduced VMT per capita and the effect on transportation fuel demand would be minimized by future improvements to vehicle fuel economy pursuant to Federal and State regulations. By 2025, vehicles are required to achieve 54.5 mpg (based on USEPA measurements), which is a 54 percent increase from the 35.5 mpg standard in the 2012-2016 standards. The project is located in a planned TPA with high frequency transit services immediately adjacent to the site on Genesee Avenue. The project's location near public transit would help reduce vehicle trips to and from the site and reduce the amount of fossil fuel used by the project. Siting land use development projects near transit facilities is consistent with the State's overall goals to reduce VMT pursuant to SB 375, and as outlined in the 2016 RTP/SCS for the region. Related projects

would need to demonstrate consistency with these goals and incorporate project design features or mitigation measures as required under CEQA that would also ensure related projects contribute to transportation energy efficiency. Furthermore, according to the U.S. Energy Information Administration's International Energy Outlook 2017, the global supply of crude oil, other liquid hydrocarbons, and biofuels is expected to be adequate to meet the world's demand for liquid fuels through 2040 (USEIA 2017). The project's location near public transit would help reduce vehicle trips to and from the site and reduce the amount of fossil fuel used by the project. Siting land use development projects near transit facilities is consistent with the State's overall goals to reduce VMT pursuant to SB 375, and as outlined in the 2016 RTP/SCS for the region. Cumulative projects would need to demonstrate consistency with these goals and incorporate project design features or mitigation measures as required under CEQA that would also ensure related projects contribute to transportation energy efficiency. Furthermore, according to the U.S. Energy Information Administration's International Energy Outlook 2017, the global supply of crude oil, other liquid hydrocarbons, and biofuels is expected to be adequate to meet the world's demand for liquid fuels through 2040 (USEIA 2017). Therefore, as the project would be located in a TPA near public transit and commercial/retail areas and incorporate a TDM program consistent with State goals for reducing VMT, the project would not have a cumulatively considerable impact related to transportation energy, and impacts would be less than significant.

Electricity

The geographic context for the cumulative analysis of electricity is SDG&E's service area. Growth within this area is anticipated to increase the demand for electricity and the need for infrastructure, such as new or expanded facilities.

Buildout of the proposed project, the related projects, and additional growth forecast to occur in the city would increase electricity consumption during project construction and operation, and may cumulatively increase the need for energy supplies. SDG&E forecasts that its electricity demand in 2022 would be approximately 19,500 GWh (CEC 2018d). As shown in Table 3.2-3, the proposed project's estimated net new electrical consumption would account for up to approximately 0.013 percent of SDG&E's projected electricity sales for 2018 and 0.013 percent of SDG&E's projected electricity sales for 2022.

Future development would result in the irreversible use of electricity resources that could limit future energy availability. However, the utility provider for the proposed project and related projects have determined that the use of such resources would be minor compared to the existing supply and infrastructure within the SDG&E service area and would be consistent with growth expectations for SDG&E's service area.

Furthermore, like the proposed project, other future development projects would be expected to incorporate energy conservation features, comply with applicable regulations including CALGreen and State energy standards under Title 24, and incorporate mitigation measures, as necessary. Furthermore, the proposed project would commit to LEED Silver or equivalent that would further reduce electricity consumption. As discussed above and based on evidence from SDG&E, the project would not have a cumulatively considerable impact on existing energy resources either individually or incrementally when considered with the anticipated growth in the service areas. Accordingly, the cumulative impacts related to electricity consumption would be considered less than significant.

3.2.6 Significance of Impacts Prior to Mitigation

Impacts related to energy would be less than significant.

3.2.7 Mitigation

No mitigation measures are required.

3.2.8 Conclusion

The proposed project would result in less than significant impacts related to energy use.

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3.3 Greenhouse Gas Emissions

This section analyzes the potential impacts related to greenhouse gas (GHG) emissions from implementation of the proposed project. Details regarding the greenhouse gas emissions analysis are provided in Appendix F of this EIR.

There were no comments related to greenhouse gas emissions received during the public comment period for the Notice of Preparation (NOP). The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

3.3.1 Existing Conditions

3.3.1.1 Existing Setting

Global climate change refers to changes in average climatic conditions on Earth as a whole, including changes in temperature, wind patterns, precipitation and storms. Historical records indicate that global climate changes have occurred in the past due to natural phenomena; however, data indicates that the current global conditions differ from past climate changes in rate and magnitude. The current changes in global climate have been attributed to anthropogenic (human-caused) activities by the Intergovernmental Panel on Climate Change (IPCC 2014). GHGs trap long-wave radiation or heat in the atmosphere, which heats the surface of the Earth. Without human intervention, the Earth maintains an approximate balance between GHG emissions in the atmosphere and the storage of GHGs in the oceans and terrestrial ecosystems. GHGs are the result of both natural and anthropogenic activities. Forest fires, decomposition, industrial processes, landfills, and consumption of fossil fuels for power generation, transportation, heating, and cooking are the primary sources of GHG emissions.

The Federal Government and State of California recognized that anthropogenic GHG emissions are contributing to changes in the global climate, and that such changes are having and will have adverse effects on the environment, the economy, and public health. While worldwide contributions of GHG emissions are expected to have widespread consequences, it is not possible to link particular changes to the environment of California or elsewhere to GHGs emitted from a particular source or location. In other words, emissions of GHGs have the potential to cause global impacts rather than local impacts. Increased concentrations of GHGs in the Earth's atmosphere have been linked to global climate change and such conditions as rising surface temperatures, melting icebergs and snowpack, rising sea levels, and the increased frequency and magnitude of severe weather conditions (IPCC 2014). Existing climate change models also show that climate warming portends a variety of impacts on agriculture, including loss of microclimates that support specific crops, increased pressure from invasive weeds and diseases, and loss of productivity due to

changes in water reliability and availability (OPR 2018, CNRA 2018). In addition, rising temperatures and shifts in microclimates associated with global climate change are expected to increase the frequency and intensity of wildfires (USGCRP 2018, OPR 2018).

State law defines GHGs to include the following compounds: carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6).[1] The most common GHG that results from human activity is CO_2, which represents 76 percent of total anthropogenic GHG emissions in the atmosphere (as of 2010 data) (IPCC 2014), followed by CH_4 and N_2O. Scientists have established a Global Warming Potential (GWP) to gauge the potency of each GHG's ability to absorb and re-emit long-wave radiation and these GWP ratios are available from IPCC. The GWP of a gas is determined using CO_2 as the reference gas with a GWP of 1 over 100 years. For example, a gas with a GWP of 10 is 10 times more potent than CO_2 over 100 years. The sum of each GHG multiplied by its associated GWP is referred to as carbon dioxide equivalents (CO_2e). The measurement unit CO_2e is used to report the combined potency of GHG emissions.

GHG emission inventories have been calculated using the GWPs from the IPCC's Assessment Reports, the Second Assessment Report (SAR) (IPPC 1995), the Fourth Assessment Report (AR4) (IPCC 2007), the most recent (2013) in its Fifth Assessment Report (AR5) (IPCC 2013). However, the United Nations Framework Convention on Climate Change (UNFCCC) reporting guidelines for national inventories require the use of GWP values from the AR4; therefore, official emission estimates for California and the U.S. are reported using AR4 GWP values, and statewide and national GHG inventories have not yet updated their GWP values to the AR5 values.

By applying the GWP ratios, project-related CO_2e emissions can be tabulated in metric tons per year. Typically, the GWP ratio corresponding to the warming potential of CO_2 over a 100-year period is used as a baseline. Compounds that are regulated as GHGs and their respective GWPs are discussed below and are summarized in Error! Reference source not found..

- **Carbon Dioxide:** CO_2 is the most abundant GHG in the atmosphere and is primarily generated from fossil fuel combustion from stationary and mobile sources. CO_2 is the reference gas (GWP of 1) for determining the GWPs of other GHGs.
- **Methane:** CH_4 is emitted from biogenic sources (i.e., resulting from the activity of living organisms), incomplete combustion in forest fires, landfills,

[1] CEQA Guidelines Section 15364.5; Health and Safety Code, Section 38505(g).

manure management, and leaks in natural gas pipelines. The GWP of CH_4 is 21 (SAR), 25 (AR4), and 28 (AR5).

- **Nitrous Oxide:** N_2O produced by human-related sources including agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuel, adipic acid production, and nitric acid production. The GWP of N_2O is 310 (SAR), 298 (AR4), and 265 (AR5).
- **Hydrofluorocarbons:** HFCs are fluorinated compounds consisting of hydrogen, carbon, and fluorine, and are typically used as refrigerants in both stationary refrigeration and mobile air conditioning systems. The GWPs of HFCs ranges from 140 for HFC-152a to 11,700 for HFC-23 (SAR), 124 for HFC-152a to 14,800 for HFC-23 (AR4), and 138 for HFC-152a to 12,400 for HFC-23 (AR5).
- **Perfluorocarbons:** PFCs are fluorinated compounds consisting of carbon and fluorine, and are primarily created as a byproduct of aluminum production and semiconductor manufacturing. The GWPs of PFCs range from 6,500 to 9,200 (SAR), 7,390 to 17,700 (AR4), and 6,630 to 17,400 (AR5).
- **Sulfur Hexafluoride:** SF_6 is a fluorinated compound consisting of sulfur and fluoride, and is a colorless, odorless, nontoxic, nonflammable gas, most commonly used as an electrical insulator in high voltage equipment that transmits and distributes electricity. SF_6 has a GWP of 23,900 (SAR), 22,800 (AR4), and 23,500 (AR5).

Table 3.3-1
Regulated Greenhouse Gas's Reported GWP Values

Regulated GHG Compound	IPCC SAR GWP	IPCC AR4 GWP	IPCC AR5GWP
Carbon Dioxide (CO_2)	1	1	1
Methane (CH_4)	21	25	28
Nitrous Oxide (N_2O)	310	298	265
Hydrofluorocarbons (HFCs)	140 to 11,700	124 to 14,800	138 to 12,400
Perfluorocarbons (PFCs)	6,500 to 9,200	7,390 to 17,700	6,630 to 17,400
Sulfur Hexafluoride (SF_6)	23,900	22,800	23,500

SOURCE: IPCC 2014.

CARB compiles the California Greenhouse Gas Emission Inventory, the most recent inventory is the 2019 edition, which reports the State's GHG emissions inventory for calendar year 2017 of 424.1 million metric tons of CO_2e ($MMTCO_2e$) including emissions resulting from imported electrical power (CARB 2019), which is 5 MMTCO2e lower than 2016 levels and 7 MMTCO2e below the 2020 GHG

Limit of 431 MMTCO2e. According to CARB, California is on track to meet the 2020 GHG reduction target of AB 32), as demonstrated by the declining trend coupled with implementation of the state's GHG reduction programs (such as the Renewables Portfolio Standard (RPS), Low Carbon Fuel Standard (LCFS), vehicle efficiency standards, and declining caps under the Cap and Trade Program) (CEC 2006a). Error! Reference source not found.**2** identifies and quantifies statewide anthropogenic GHG emissions and sinks (e.g., carbon sequestration due to forest growth) in 1990 and 2016. As shown in Table 3.3-2, the transportation sector is the largest contributor to statewide GHG emissions at 39 percent in 2016.

Table 3.3-2
State of California Greenhouse Gas Emissions

Category	Total 1990 Emissions ($MMTCO_2e$)	Percent of Total 1990 Emissions	Total Emissions ($MMTCO_2e$)	Percent of Total 2016 Emissions
Transportation	150.7	35%	169.86	40%
Electric Power	110.6	26%	62.39	14%
Commercial	14.4	3%	13.02	3%
Residential	29.7	7%	26.00	6%
Industrial	103.0	24%	89.40	21%
Recycling and Waste[a]	–	–	8.89	2%
High GWP/Non-Specified[b]	1.3	<1%	19.99	5%
Agriculture/Forestry	23.6	6%	32.42	8%
Forestry Sinks	-6.7	–	–[c]	–
Net Total (IPCC SAR)	**426.6**	**100%**	–	–
Net Total (IPCC AR4) [d]	**431**	**100%**	**424.1**	**100%**

[a] Included in other categories for the 1990 emissions inventory.
[b] High GWP gases are not specifically called out in the 1990 emissions inventory.
[c] Forestry sinks was not calculated for 2017 pending a revised methodology under development.
[d] CARB revised the State's 1990 level GHG emissions using GWPs from IPCC's AR4.
SOURCE: (CARB 2007; CARB 2019).

3.3.1.2 Effects of Global Climate Change

The scientific community's understanding of the fundamental processes responsible for global climate change has improved over the past decade, and its predictive capabilities are advancing. However, there remain significant scientific uncertainties in, for example, predictions of local effects of climate change, occurrence, frequency, and magnitude of extreme weather events, effects of aerosols, changes in clouds, shifts in the intensity and distribution of precipitation, and changes in oceanic circulation. Due to the complexity of the

Earth's climate system and inability to accurately model it, the uncertainty surrounding climate change may never be completely eliminated. Nonetheless, the IPCC's AR5 states that, "it is extremely likely that more than half of the observed increase in global average surface temperature from 1951 to 2010 was caused by the anthropogenic increase in greenhouse gas concentrations and other anthropogenic forc[es] [sic] together" (IPCC 2013). A report from the National Academy of Sciences concluded that 97 to 98 percent of the climate researchers most actively publishing in the field support the tenets of the IPCC in that climate change is very likely caused by human (i.e., anthropogenic) activity (Anderegg et al. 2010) According to CARB, the potential impacts in California due to global climate change may include: loss in snow pack; sea level rise; more extreme heat days per year; more high ozone days; more large forest fires; more drought years; increased erosion of California's coastlines and sea water intrusion into the Sacramento and San Joaquin Deltas and associated levee systems; and increased pest infestation (USGCRP 2018).

3.3.2 Regulatory Setting

3.3.2.1 Federal

Clean Air Act

In *Massachusetts v. Environmental Protection Agency* (2007) 549 U.S. 497, the U.S. Supreme Court held in 2007 that USEPA has statutory authority under Section 202 of the federal Clean Air Act to regulate GHGs. The court did not hold that USEPA was required to regulate GHG emissions; however, it indicated that USEPA must decide whether GHGs cause or contribute to air pollution that is reasonably anticipated to endanger public health or welfare. In 2009, the USEPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the CAA. USEPA adopted a Final Endangerment Finding for the six defined GHGs (CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6) on December 7, 2009. The Endangerment Finding is required before USEPA can regulate GHG emissions under Section 202(a)(1) of the CAA consistently with the United States Supreme Court decision. USEPA also adopted a Cause or Contribute Finding in which the USEPA Administrator found that GHG emissions from new motor vehicle and motor vehicle engines are contributing to air pollution, which is endangering public health and welfare. These findings do not, by themselves, impose any requirements on industry or other entities. However, these actions were a prerequisite for implementing GHG emissions standards for vehicles.

Light Duty Vehicle GHG and Fuel Efficiency Standards

In 2012, USEPA and USDOT adopted standards for model year 2017 through 2025 for passenger cars and light-duty trucks. By 2020, vehicles are required to achieve a combined standard of 41.7 mpg and 213 grams of CO_2 per mile. By

2025, vehicles are required to achieve 54.5 mpg (if GHG reductions are achieved exclusively through fuel economy improvements) and 163 grams of CO_2 per mile. According to USEPA, a model year 2025 vehicle would emit one-half of the GHG emissions from a model year 2010 vehicle. In 2017, USEPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025. In 2018, the USEPA Administrator signed the Mid-term Evaluation Final Determination that finds that the model year 2022-2025 GHG standards are not appropriate in light of the record before USEPA and, therefore, should be revised. While not a final USEPA action, the Mid-term Evaluation Final Determination initiates a rulemaking process whose outcome will be the final agency action, however until that rulemaking has been completed, the current standards remain in effect (USEPA 2018).

Energy Independence and Security Act

The Energy Independence and Security Act of 2007 (EISA) facilitates the reduction of national GHG emissions by requiring the following:

- Increasing the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard (RFS) that requires fuel producers to use at least 36 billion gallons of biofuel in 2022;
- Prescribing or revising standards affecting regional efficiency for heating and cooling products, procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances;
- Requiring approximately 25 percent greater efficiency for light bulbs by phasing out incandescent light bulbs between 2012 and 2014; requiring approximately 200 percent greater efficiency for light bulbs, or similar energy savings, by 2020; and
- While superseded by USEPA and NHTSA actions described above, (i) establishing miles per gallon targets for cars and light trucks and (ii) directing NHTSA to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for trucks.

Additional provisions of EISA address energy savings in government and public institutions, promote research for alternative energy, additional research in carbon capture, international energy programs, and the creation of green jobs.[2]

[2] A green job, as defined by the United States Department of Labor, is a job in business that produces goods or provides services that benefit the environment or conserve natural resources.

Voluntary Programs

USEPA is responsible for implementing federal policy to address GHGs. The federal government administers a wide array of public-private partnerships to reduce the GHG intensity generated in the U.S. These programs focus on energy efficiency, renewable energy, methane and other non-CO_2 gases, agricultural practices, and implementation of technologies to achieve GHG reductions. USEPA implements numerous voluntary programs that contribute to the reduction of GHG emissions. These programs (e.g., the ENERGY STAR labeling system for energy-efficient products) play a significant role in encouraging voluntary reductions from large corporations, consumers, industrial and commercial buildings, and many major industrial sectors.

3.3.2.2 State

California Air Resources Board

CARB, a part of the California Environmental Protection Agency (CalEPA), is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, CARB conducts research, sets California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

In 2004, CARB adopted an Airborne Toxic Control Measure (ATCM) to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other toxic air contaminants (Title 13 California Code of Regulations [CCR], Section 2485). ATCM applies to diesel-fueled commercial vehicles with gross vehicle weight ratings greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. ATCM generally does not allow diesel-fueled commercial vehicles to idle for more than 5 minutes at any given location with certain exemptions for equipment in which idling is a necessary function such as concrete trucks. While ATCM primarily targets diesel particulate matter emissions, it has co-benefits of minimizing GHG emissions from unnecessary truck idling.

In 2007, CARB adopted emission standards for off-road diesel construction equipment of greater than 25 horsepower such as bulldozers, loaders, backhoes and forklifts, as well as many other self-propelled off-road diesel vehicles. This regulation aims to reduce emissions by installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission controlled models. Additionally, in 2008, CARB approved the

Truck and Bus Regulation to reduce particulate matter and nitrogen oxide emissions from existing diesel vehicles operating in California (13 CCR, Section 2025, subsection (h)). In 2014, amendments to the Truck and Bus Regulation were approved by CARB to help ensure that the air quality benefits originally envisioned by the regulation will be achieved, by providing some additional compliance flexibility and options to vehicle owners (CARB 2014). Refer to Section 2.2, Air Quality, Regulatory Setting) of this EIR for additional details regarding these regulations. While these regulations primarily target reductions in criteria air pollutant emission, they have co-benefits of minimizing GHG emissions due to improved engine efficiencies.

California Greenhouse Gas Reduction Targets

Executive Order S-3-05

In 2005, Executive Order S-3-05 proclaimed that California is vulnerable to the impacts of climate change. Executive Order S-3-05 declares that increased temperatures could reduce snowpack in the Sierra Nevada Mountains; could further exacerbate California's air quality problems; and could potentially cause a rise in sea levels. In an effort to avoid or reduce the impacts of climate change, Executive Order S-3-05 calls for a reduction in GHG emissions to the year 2000 level by 2010, to year 1990 levels by 2020, and to 80 percent below 1990 levels by 2050. Executive Orders are binding on state agencies only.

Executive Order B-30-15

In 2015, Executive Order B-30-15 established a new interim Statewide reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030, ordered all State agencies with jurisdiction over sources of GHG emissions to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 reduction targets, and directed CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent.

Executive Order B-55-18

In 2018, Executive Order B-55-18 establishes an additional Statewide policy to achieve carbon neutrality by 2045 and maintain net negative emissions thereafter. As per Executive Order B-55-18, CARB is directed to work with relevant State agencies to develop a framework for implementation and accounting that tracks progress toward this goal and to ensure future Climate Change Scoping Plans identify and recommend measures to achieve the carbon neutrality goal.

California Global Warming Solutions Act of 2006 - Assembly Bill 32

In 2006, AB 32 (codified in the California Health and Safety Code [HSC], Division 25.5 – California Global Warming Solutions Act of 2006) focuses on reducing GHG emissions in California to 1990 levels by 2020. HSC Division 25.5 defines GHGs as CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6 and represents the first enforceable statewide program to limit emissions of these GHGs from all major industries with penalties for noncompliance. The law further requires that reduction measures be technologically feasible and cost effective. Under HSC Division 25.5, CARB has the primary responsibility for reducing GHG emissions. CARB is required to adopt rules and regulations directing state actions that would achieve GHG emissions reductions equivalent to 1990 statewide levels by 2020.

Senate Bill 32

In 2016, the California State Legislature adopted Senate Bill (SB) 32 and its companion bill AB 197, amended HSC Division 25.5 and established a new climate pollution reduction target of 40 percent below 1990 levels by 2030 and includes provisions to ensure the benefits of state climate policies reach into disadvantaged communities.

2008 Climate Change Scoping Plan

A specific requirement of AB 32 was to prepare a Climate Change Scoping Plan for achieving the maximum technologically feasible and cost-effective GHG emission reduction by 2020 (HSC Section 38561 (h)). CARB developed an AB 32 Scoping Plan that contains strategies to achieve the 2020 emissions cap (CARB 2013). The initial scoping plan was approved in 2008, and contained a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the State's long-range climate objectives (CARB 2013).

2014 Scoping Plan Update

In 2014, the first update to the Scoping Plan built upon the initial Scoping Plan with new strategies and recommendations (CARB 2013). As required by HSC Division 25.5, CARB approved the 1990 GHG emissions inventory, thereby establishing the emissions limit for 2020. CARB also updated the State's projected 2020 emissions estimate to account for the effect of the 2007–2009 economic recession, new estimates for future fuel and energy demand, and the reductions required by regulation that were recently adopted for motor vehicles and renewable energy.

2017 Climate Change Scoping Plan

The 2017 Climate Change Scoping Plan (CARB 2017b) outlines the strategies the State will implement to achieve the 2030 GHG reduction target of 40 percent below 1990 levels by 2030 established by SB 32. The 2017 Scoping Plan is also intended to "substantially advance" toward the EO S-3-05 2050 climate goal to reduce GHG emissions by 80 percent below 1990 levels by 2050.

The 2017 Scoping Plan builds on the Cap-and-Trade Regulation, the LCFS, improved vehicle, truck and freight movement emissions standards, increasing renewable energy, and strategies to reduce methane emissions from agricultural and other wastes by using it to meet our energy needs. The 2017 Scoping Plan also comprehensively addresses GHG emissions from natural and working lands of California, including the agriculture and forestry sectors. The 2017 Scoping Plan considered a number of different alternatives to achieve the 2030 GHG reduction goal. The "Scoping Plan Scenario" was ultimately adopted and relies on the continuation of ongoing and statutorily required programs and continuation of the Cap-and-Trade Program. The Scoping Plan Scenario was modified from the January 2017 Proposed Scoping Plan to reflect AB 398, including removal of the 20 percent GHG reduction measure for refineries (CARB 2017b).

CARB states that the Scoping Plan Scenario "is the best choice to achieve the State's climate and clean air goals" (CARB 2017b). Under the Scoping Plan Scenario, the majority of the reductions would result from continuation of the Cap-and-Trade regulation. Additional reductions are achieved from electricity sector standards (i.e., utility providers to supply 50 percent renewable electricity by 2030), doubling the energy efficiency savings at end uses, additional reductions from the LCFS, implementing the short-lived climate pollutant strategy (e.g., hydrofluorocarbons), and implementing the mobile source strategy and sustainable freight action plan.

Senate Bill 375

In 2008, SB 375 was intended to provide a means for achieving AB 32 Greenhouse Gas Emissions target reduction goals from cars and light trucks through long-range regional growth strategies and transportation plans. SB 375 is directed toward California's 18 Metropolitan Planning Organizations (MPOs). The San Diego Association of Governments (SANDAG) is San Diego County's MPO. Under SB 375, each MPO is required to develop a "Sustainable Communities Strategy," a newly required element of the Regional Transportation Plan (RTP). SB 375 does not take over local planning functions, and a Sustainable Community Strategy does not in any way supersede a General Plan, specific plan, or local zoning ordinance. Additionally, SB 375 does not require any consistency between the Sustainable Communities Strategy and these planning and development regulatory documents. However, the MPOs are required to develop the Sustainable Communities Strategies through integrated

land use and transportation planning and demonstrate an ability to attain the proposed reduction targets by 2020 and 2035.

Title 24, Part 6, California Code of Regulations (2005)

In 2005, California adopted new energy efficiency standards for residential and nonresidential buildings in order to reduce California's energy consumption. This program has been partially responsible for keeping California's per capita energy use approximately flat over the past 30 years.

Title 24, Part 11, California Code of Regulations (2018)

Part 11 of the Title 24 Building Energy Efficiency Standards is referred to as the California Green Building Standards (CALGreen) Code. The purpose of the CALGreen Code is to "improve public health, safety and general welfare by enhancing the design and construction of buildings through the use of building concepts having a positive environmental impact and encouraging sustainable construction practices in the following categories: (1) Planning and design; (2) Energy efficiency; (3) Water efficiency and conservation; (4) Material conservation and resource efficiency; and (5) Environmental air quality" (California Building Standards Commission 2010). In 2016, the CALGreen Code was updated to include new mandatory measures for residential and nonresidential uses including energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality (California Building Standards Commission 2010). In 2018, the CALGreen code was most recently updated with new measures taking effect in 2020.

SB X1-2, SB 350, and SB 100

In 2011, SB X1-2 increased California's RPS to 33 percent by 2020. SB 350 (Chapter 547, Statues of 2015) further increased the RPS to 50 percent by 2030. The legislation also included interim targets of 40 percent by 2024 and 45 percent by 2027, and doubled energy efficiency savings in electricity and natural gas final end uses. In 2018, SB 100 (Chapter 312, Statutes of 2018) established that 100 percent of all electricity in California must be obtained from renewable and zero-carbon energy resources by the end of 2045. SB 100 also creates new standards for the RPS, increasing required energy from renewable sources for both investor-owned utilities and publicly-owned utilities from 50 percent to 60 percent by the end of 2030. Incrementally, these energy providers must also have a renewable energy supply of 44 percent by the end of 2024, and 52 percent by the end of 2027. The updated RPS goals are considered achievable, since many California energy providers are already meeting or exceeding the RPS goals established by SB 350.

Assembly Bill 341

In 2011, AB 341 established the policy goal of no less than 75 percent of solid waste generated be source reduced, recycled or composted by the year 2020.

Senate Bill 1383

SB 1383 creates goals for short-lived climate pollutant (SLCP) reductions in various industry sectors. The SLCPs included under SB 1383 – including methane, fluorinated gases, and black carbon – are GHGs that are much more potent than carbon dioxide and can have detrimental effects on human health and climate change. SB 1383 requires CARB to adopt a strategy to reduce methane by 40 percent, hydrofluorocarbon gases by 40 percent, and anthropogenic black carbon by 50 percent below 2013 levels by 2030. The methane emission reduction goals include a 75 percent reduction in the level of statewide disposal of organic waste from 2014 levels by 2025.

3.3.2.3 Regional

San Diego Association of Governments San Diego Forward: Regional Plan

SANDAG is the MPO and regional transportation planning agency for the San Diego Region. SANDAG is the regional authority that creates region-specific documents to provide guidance to local agencies, as SANDAG does not have any land use authority. SANDAG's San Diego Forward: The Regional Plan (Regional Plan) combines two of the region's existing planning documents: the Regional Comprehensive Plan for the San Diego Region (RCP) and the Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS).

In 2004, the RCP laid out key principles for managing the region's growth while preserving natural resources and limiting urban sprawl. The RCP covered eight policy areas, including urban form, transportation, housing, health environment, economic prosperity, public facilities, our borders, and social equity. These policy areas were addressed in the 2050 RTP/SCS and are now fully integrated into the Regional Plan that was adopted by the SANDAG Board of Directors in 2015.

The SCS describes how the region will coordinate its land use development and transportation planning activities to reduce GHG emissions (in part by decreasing vehicular fuel use), and is integrated into the RTP. SANDAG's RTP/SCS identifies significant improvements to the City's and the region's transit systems, allows for more development in areas with better access to transit, and supports efficiency improvements to regional streets and highways.

3.3.2.4 Local

City of San Diego General Plan

The City's General Plan includes several climate change-related policies aimed at reducing GHG emissions from future development and City operations. The Conservation Element policy CE-A.2 aims to "reduce the City's carbon footprint" and to "develop and adopt new or amended regulations, programs, and incentives as appropriate to implement the goals and policies set forth" related to climate change. The Land Use and Community Planning Element, the Mobility Element, the Urban Design Element, and the Public Facilities, Services, and Safety Element also identify GHG reduction and climate change adaptation goals (City of San Diego 2015). These elements contain policy language related to sustainable land use patterns, alternative modes of transportation, energy efficiency, water conservation, waste reduction, and greater landfill efficiency. The overall intent of these policies is to support climate protection actions, while retaining flexibility in the design of implementation measures, which could be influenced by new scientific research, technological advances, environmental conditions, or state and federal legislation.

One specific concept introduced in the City's General Plan is the aforementioned City of Villages strategy, which proposes growth to be directed into pedestrian-friendly mixed-use activity centers linked to an improved regional transit system. The City of Villages strategy shifts the focus of land use policies to encourage infill development and reinvest in existing communities. Locating different land uses types near one another can decrease mobile emissions. Thus, the development of dense urban "villages" would generate less GHG emissions. The City of Villages strategy can be seen as an effort to avoid what is commonly referred to as "urban sprawl".

Cumulative impacts of GHG emissions were qualitatively analyzed and determined to be significant and unavoidable in the PEIR for the City's General Plan. A PEIR Mitigation Framework was included that indicated that "for each future project requiring mitigation (measures that go beyond what is required by existing programs, plans, and regulations), project-specific measures will [need to] be identified with the goal of reducing incremental project-level impacts to less than significant; or the incremental contributions of a project may remain significant and unavoidable where no feasible mitigation exists".

City of San Diego Climate Action Plan

In 2015, the City adopted its Climate Action Plan (CAP) (City of San Diego 2015), which identifies measures to meet GHG emissions reduction targets for 2020 and 2035. The CAP consists of a 2010 inventory of GHG emissions, a business-as-usual (BAU) projection for emissions in 2020 and 2035, state targets, and

emission reductions with implementation of the CAP. The City identifies GHG reduction strategies focusing on energy- and water-efficient buildings; clean and renewable energy; bicycling, walking, transit, and land use; zero waste; and climate resiliency. Accounting for future population and economic growth, the City projects GHG emissions to be approximately 15.9 million metric tons of carbon dioxide equivalent (MMT CO_2e) in 2020 and 16.7 MMT CO_2e in 2035. To achieve its proportional share of the state reduction targets for 2020 (AB 32) and 2050 (EO S-3-05), the City would need to reduce emissions below the 2010 baseline by 15 percent in 2020 and 50 percent by 2035. To meet these goals, the City must implement strategies that reduce emissions to approximately 11.0 MMT CO_2e in 2020 and 6.5 MMT CO_2e in 2035. Through implementation of the CAP, the City is projected to reduce emissions even further below targets by 1.2 MMT CO_2e by 2020 and 205,462 MT CO_2e by 2035.

As a means to implement the CAP, the City created a CAP Consistency Checklist utilized by projects to assure compliance with the measures identified in the CAP.

3.3.3 Analysis of Project Effects and Determination as to Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in the City of San Diego's CEQA Significance Determination Thresholds (City of San Diego 2016). Accordingly, a significant impact would occur to greenhouse gas emissions if the proposed project would:

> Issue 1: Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
>
> Issue 2: Conflict with the City's Climate Action Plan or another applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

3.3.3.1 GHG Emissions Generation

<u>Issue 1: Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?</u>

Impact Analysis

Community Plan Amendment and Rezone

The project includes an amendment to the Clairemont Mesa Community Plan (CMCP) and rezoning of the project site that would allow for a future residential development with a maximum of 404 units. Project construction activities of the future residential development would contribute GHG emissions as a result of off-road diesel equipment exhaust and emissions from employee, material delivery,

and haul truck travel. Primary emissions would occur as CO_2 from gasoline and diesel combustion, with more limited vehicle tailpipe emissions of N_2O and CH_4 as well as other GHG emissions related to vehicle cooling systems.

Construction-related GHG emissions for the anticipated future development were estimated using CalEEMod, version 2016.3.2. for onsite equipment and EMFAC2017 for on-road haul, vendor and worker trips, using the same assumptions used in the air quality emissions analysis (see Section 2.2, Air Quality, of this EIR). Total estimated construction-related GHG emissions are shown in **Table 3.3-3**.

Table 3.3-3
Estimated Total Construction GHG Emissions - Community Plan Amendment and Rezone

Emission Source	Estimated MT CO_2e Emissions
Foundations/ Concrete Pour	36
Building Construction	519
Architectural Coating	79
Paving	29
Total Construction Emissions	**663 (MT)**
Annual Construction (Amortized over 30 years)	**22 (MT CO_2e /yr)**

CO_2e= carbon dioxide equivalent; MT =metric tons; MT/yr = metric tons per year.

SOURCE: ESA CalEEMod Modeling 2019.

As shown in Table 3.3-3, the total estimated GHG emissions during construction of the future development would be approximately 663 MT of CO_2e, which amortized over a 30-year period would be approximately 22 MT of CO_2e/year, which was added to the project's annual operational emissions in Table 3.3-4.

Operation of the future residential development would contribute GHG emissions as a result of building energy usage (electricity and natural gas), mobile emissions, landscaping, waste, and water. Project operational emissions were estimated using CalEEMod, version 2016.3.2, for onsite sources and EMFAC2017 for mobile sources. Total estimated operational GHG emissions (including amortized construction emissions) are shown in **Table 3.3-4**, totaling 3,146 MT of CO_2e. As discussed in Issue 2, below, the project would meet the requirements for GHG reductions for project development under the City's CAP and would be consistent with the CAP's goals. Therefore, the project would not result in GHG emissions that have a significant impact on the environment.

Table 3.3-4
Estimated Total Operational GHG Emissions - Site Demolition and Preparation

Emission Source	Estimated MT CO_2e Emissions
Building Energy	968
Mobile	1,998
Landscaping	5
Waste	23
Water	130
Total Construction (Amortized)	22
Total Operational Emissions	**3,146**

CO_2e= carbon dioxide equivalent; MT =metric tons; MT/yr = metric tons per year.

SOURCE: ESA CalEEMod Modeling 2019.

Site Demolition and Preparation

Construction-related GHG emissions for the site demolition and preparation portion of the proposed project were estimated using CalEEMod, version 2016.3.2. for onsite equipment and EMFAC2017 for on-road haul, vendor and worker trips, using the same assumptions used in the air quality emissions analysis (see Section 2.2, Air Quality, of this EIR). Total estimated construction-related GHG emissions are shown in **Table 3.3-5**.

Table 3.3-5
Estimated Total Construction GHG Emissions

Emission Source	Estimated MT CO_2e Emissions
Demolition	81
Site Preparation	66
Grading	48
Drainage/Utilities/Trenching	34
Total Construction Emissions	**229 (MT)**
Annual Construction (Amortized over 30 years)	**8 (MT CO_2e /yr)**

CO_2e= carbon dioxide equivalent; MT =metric tons; MT/yr = metric tons per year.

SOURCE: ESA CalEEMod Modeling, 2019.

As shown in Table 3.3-5, the total estimated GHG emissions during site demolition and preparation of the project would be approximately 229 MT of CO_2e, which amortized over a 30-year period would be approximately 8 MT of

CO_2e/year. As discussed in Issue 2, below, the project would meet the requirements for GHG reductions for project development under the City's CAP and would be consistent with the CAP's goals. Therefore, the project would not result in GHG emissions that have a significant impact on the environment.

3.3.3.2 Greenhouse Gas Reduction Plans

Issue 2: Would the project conflict with the City's Climate Action Plan or another applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Impact Analysis

Community Plan Amendment and Rezone and Site Demolition and Preparation

Compliance with a GHG emissions reduction plan renders a less-than-significant impact. The analyses below demonstrate that the project is consistent with the applicable GHG emission reduction plans and policies included within the 2017 Climate Change Scoping Plan and the City's Climate Action Plan.

Consistency with the CARB Scoping Plan

At the State level, Executive Orders S-3-05 and B-30-15 are orders from the State's Executive Branch for the purpose of reducing GHG emissions. Executive Order S-3-05's goal to reduce GHG emissions to 1990 levels by 2020 was adopted by the Legislature as the 2006 Global Warming Solutions Act (AB 32) and codified into law in AB 32. Executive Order B-30-15's goal to reduce GHG emissions to 40 percent below 1990 levels by 2030 was adopted by the Legislature in SB 32 and also codified into law in AB 32.

In support of AB 32, the State has promulgated specific laws and strategies aimed at GHG reductions that are applicable to the project. The primary focus of many of the Statewide and regional plans, policies, and regulations is to address worldwide climate change. Due to the complex physical, chemical, and atmospheric mechanisms involved in global climate change, there is no basis for concluding that the project's increase in annual GHG emissions would cause a measurable change in global GHG emissions necessary to influence global climate change. Newer construction materials and practices, energy efficiency requirements, and newer appliances tend to emit lower levels of air pollutant emissions, including GHGs, as compared to those built years ago; however, the net effect is difficult to quantify. The GHG emissions of the project alone would not likely cause a direct physical change in the environment. According to CAPCOA, "GHG impacts are exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective (CAPCOA,

2008).” It is global GHG emissions in their aggregate that contribute to climate change, not any single source of GHG emissions alone.

There are several GHG reduction plans and programs that will be implemented at state and local levels which will indirectly reduce GHG emissions from the project. These plans, programs and regulations are beyond control of the project and will occur with or without the implementation of the project. These include:

- **California Renewables Portfolio Standard (RPS) program (SB 100):** The project complies with SB100 inasmuch as the project is served by San Diego Gas and Electric (SDG&E), which is which is required to obtain 33 percent renewable power by 2020. Furthermore, per the updated requirements of SB 100, signed by Governor Brown on September 10, 2018, SDG&E would be required to procure eligible renewable electricity for 44 percent of retail sales by December 31, 2024, 52 percent by December 31, 2027, and 60 percent by December 31, 2030 and should plan to achieve 100 percent eligible renewable energy resources and zero-carbon resources by December 31, 2045.
- **Assembly Bill 1109:** According to the California Energy Commission, energy savings from AB 1109 are achieved through codes and standards. Energy savings from AB 1109 are calculated as part of codes and standards savings (CEC 2014).
- **SB 1368, CCR Title 20, Cap and Trade Program**: Reduces GHG emissions from major sources (deemed “covered entities”) by setting a firm cap on Statewide GHG emissions and employing market mechanisms to achieve AB 32’s emission-reduction mandate of returning to 1990 levels of emissions by 2020. Under Cap-and-Trade program, an overall limit is established for GHG emissions from capped sectors (e.g., electricity generation) and declines over time, and facilities subject to the cap can trade permits to emit GHGs. The Statewide cap for GHG emissions from the capped sectors commenced in 2013 and declines over time, achieving GHG emission reductions throughout the Program’s duration and on July 17, 2017 the California legislature passed Assembly Bill 398, extending the Cap-and-Trade program through 2030. The project would be consistent with this regulation as the project’s GHG emissions associated with electricity usage are covered by the Cap-and-Trade Program as the Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether generated in-state or imported.
- **AB 1493 (Pavley Regulations):** Reduces GHG emissions in new passenger vehicles from model year 2012 through 2016 (Phase I) and model years 2017–2025 (Phase II). Also reduces gasoline consumption to a rate of 31 percent of 1990 gasoline consumption (and associated GHG emissions) by 2020. The project would be consistent with this regulation and would not conflict with implementation of the vehicle emissions

standards. GHG emissions related to vehicular travel by the project would benefit from this regulation because vehicle trips associated with the project would be affected by AB 1493. Mobile source emissions generated by the project would be reduced with implementation of AB 1493 consistent with reduction of GHG emissions under AB 32.

- **Low Carbon Fuel Standard (Executive Order S-01-07):** Establishes protocols for measuring life-cycle carbon intensity of transportation fuels and helps to establish use of alternative fuels. This executive order establishes a Statewide goal to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. The project would be consistent with this regulation and would not conflict with implementation of the transportation fuel standards. GHG emissions related to vehicular travel by the project would benefit from this regulation and mobile source emissions generated by the project would be reduced with implementation of LCFS consistent with reduction of GHG emissions under AB 32.
- **Advanced Clean Cars Program**: In 2012, CARB adopted the Advanced Clean Cars program to reduce criteria pollutants and GHG emissions for model year vehicles 2015 through 2025. The Advanced Clean Cars program includes the Low-Emission Vehicle regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle regulation, which requires manufacturers to produce an increasing number of pure Zero-Emission Vehicles (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles in the 2018 through 2025 model years. The standards would apply to all vehicles used by residents of the project.
- **SB 375:** SB 375 establishes mechanisms for the development of regional targets for reducing passenger vehicle GHG emissions. Under SB 375, CARB is required, in consultation with the State's Metropolitan Planning Organizations, to set regional GHG reduction targets for the passenger vehicle and light-duty truck sector for 2020 and 2035.
- **Senate Bill X7-7:** The Water Conservation Act of 2009 sets an overall goal of reducing per capita urban water use by 20 percent by December 31, 2020. Each urban retail water supplier shall develop water use targets to meet this goal. This is an implementing measure of the Water Sector of the AB 32 Scoping Plan. Reduction in water consumption directly reduces the energy necessary and the associated emissions to convene, treat, and distribute the water; it also reduces emissions from wastewater treatment. The project would utilize energy efficiency appliances and equipment and would meet the applicable energy standards in the 2019 Title 24 Building Energy Efficiency Standards and CALGreen Code, or applicable version at the time of building permit issuance.

- **California Integrated Waste Management Act (IWMA) of 1989 and Assembly Bill (AB) 341:** The IWMA mandated that State agencies develop and implement an integrated waste management plan which outlines the steps to be taken to divert at least 50 percent of their solid waste from disposal facilities. AB 341 directs CalRecycle to develop and adopt regulations for mandatory commercial recycling and sets a Statewide goal for 75 percent disposal reduction by the year 2020. GHG emissions related to solid waste generation from the project would benefit from this regulation as it would decrease the overall amount of solid waste disposed of at landfills. The decrease in solid waste would then in return decrease the amount of methane released from the decomposing solid waste.

Table 3.3-6 contains a list of GHG-reducing strategies applicable to the project. The analysis describes the consistency of the project with these laws and strategies outlined in the State's Climate Change Scoping Plan to reduce GHG emissions. The Climate Change Scoping Plan outlines a framework that relies on a broad array of GHG reduction actions, which include direct regulations, alternative compliance mechanisms, incentives, voluntary actions, and market-based mechanisms such as the Cap-and-Trade program. As a result, the project would not conflict with applicable Climate Change Scoping Plan strategies and regulations to reduce GHG emissions.

Table 3.3-6
Consistency with Applicable Climate Change Scoping Plan Greenhouse Gas Reduction Strategies

Sector / Source	Category / Description	Consistency Analysis
Energy		
CCR, Title 24, Building Standards Code	Energy Efficiency Standards for Residential and Nonresidential Buildings	**Compliant.** The project would meet or exceed the applicable requirements of the 2019 Title 24 Building Energy Efficiency Standards and CALGreen Code or applicable version at the time of building permit issuance.
California Green Building Standards Code Requirements	All bathroom exhaust fans shall be ENERGY STAR compliant.	**Compliant.** The project would utilize energy efficiency appliances and equipment and would meet the applicable energy standards in the 2019 Title 24 Building Energy Efficiency Standards and CALGreen Code, or applicable version at the time of building permit issuance. The 2019 Title 24 Building Code includes installation of ENERGY STAR compliant appliances.

Sector / Source	Category / Description	Consistency Analysis
	HVAC Systems will be designed to meet ASHRAE standards.	**Compliant.** The project would utilize energy efficiency heating, ventilation, and air conditioning (HVAC) Systems that would meet or exceed the applicable energy standards in ASHRAE 90.1-2013 Appendix G and the 2019 Title 24 Building Energy Efficiency Standards and CALGreen Code, or applicable version of these standards at the time of building permit issuance.
	Refrigerants used in newly installed HVAC systems shall not contain any CFCs.	**Compliant.** The project would meet this requirement as part of its compliance with the CALGreen Code for the use of HFCs in HVAC systems.
	Parking spaces shall be designed for carpool or alternative fueled vehicles. Up to eight percent of total parking spaces will be designed for such vehicles.	**Compliant.** The project would meet this requirement as part of its compliance with the CALGreen Code.
	Long-term and short-term bike parking shall be provided for up to five percent of vehicle trips.	**Compliant.** The project would meet this requirement as part of its compliance with the CALGreen Code.
	Stormwater Pollution Prevention Plan (SWPPP) required.	**Compliant.** The project would meet this requirement as part of its compliance with the CALGreen Code.
	Indoor water usage must be reduced by 20% compared to current California Building Code Standards for maximum flow.	**Compliant.** The project would meet this requirement as part of its compliance with the CALGreen Code.
	All irrigation controllers must be installed with weather sensing or soil moisture sensors.	**Compliant.** The project would meet this requirement as part of its compliance with the CALGreen Code.
	Wastewater usage shall be reduced by 20 percent compared to current California Building Standards.	**Compliant.** The project would meet this requirement as part of its compliance with the CALGreen Code.
	Requires a minimum of 50 percent recycle or reuse of nonhazardous construction and demolition debris.	**Compliant.** The project would meet this requirement as part of its compliance with the CALGreen Code.
	Requires documentation of types of waste recycled, diverted or reused.	**Compliant.** The project would meet this requirement as part of its compliance with the CALGreen Code.

Sector / Source	Category / Description	Consistency Analysis
Water		
CCR, Title 24	Title 24 includes water efficiency requirements for new residential and non-residential uses.	**Compliant.** The project would utilize energy efficiency appliances and equipment and would meet the applicable energy standards in the 2019 Title 24 Building Energy Efficiency Standards and CALGreen Code, or applicable version at the time of building permit issuance. The 2019 Title 24 Building Code includes installation of ENERGY STAR compliant appliances.
Other Sources		
Climate Action Team (CAT) works to coordinate Statewide efforts to implement global warming emission reduction programs and the State's Climate Adaptation Strategy.	Reduce diesel-fueled commercial motor vehicle idling.	**Consistent.** The project would be consistent with the CARB Air Toxics Control Measure to limit heavy duty diesel motor vehicle idling to no more than 5 minutes at any given time, most specifically during construction since the underlying Airborne Toxic Control Measure (ATCM) that limits heavy-duty diesel motor vehicle idling (Title 13 California Code of Regulations [CCR], Section 2485) was adopted by CARB in 2004.
	Implement efficient water management practices and incentives, as saving water saves energy and GHG emissions.	**Consistent.** The project would meet this requirement as part of its compliance with the CALGreen Code.
	Reduce GHG emissions from electricity by reducing energy demand. The California Energy Commission updates appliance energy efficiency standards that apply to electrical devices or equipment sold in California. Recent policies have established specific goals for updating the standards; new standards are currently in development.	**Consistent.** The project would meet or exceed the energy standards in the Title 24 Building Energy Efficiency Standards, and the CALGreen Code.
	Apply strategies that integrate transportation and land-use decisions, including but not limited to promoting jobs/housing proximity, high-density residential/commercial development along transit corridors, and implementing intelligent transportation systems.	**Consistent.** The project would incorporate physical and operational project characteristics that would reduce vehicle trips and VMT and encourage alternative modes of transportation. The project would reduce VMT as a result of its urban infill location, with nearby access to public transportation within a quarter-mile of the project Site, and its

Sector / Source	Category / Description	Consistency Analysis
		proximity to other destinations including off-site residential, retail, and entertainment.
	Reduce energy use in private buildings.	**Consistent.** The project would meet or exceed the energy standards in the Title 24 Building Energy Efficiency Standards, and the CALGreen Code.

SOURCE: ESA, 2019.

As described above in Table 3.3-6, the project is compliant with the applicable laws and regulations that serve to reduce GHG emissions. In addition to the project's consistency with applicable GHG reduction laws and strategies, the project would not conflict with the future anticipated Statewide GHG reductions goals as discussed under Impact 1. CARB has outlined a number of potential strategies for achieving the 2030 reduction target of 40 percent below 1990 levels, as mandated by SB 32. These potential strategies include renewable resources for half of the State's electricity by 2030, increasing the fuel economy of vehicles and the number of zero-emission or hybrid vehicles, reducing the rate of growth in VMT, supporting other alternative transportation options, and use of high-efficiency appliances, water heaters, and HVAC systems (E&E 2015). The project would benefit from Statewide and utility-provider efforts towards increasing the portion of electricity provided from renewable resources. The project would use energy-efficient appliances and equipment (e.g., ENERGY STAR rated), and water efficient fixtures.

Based on the analysis above, the project would be consistent with CARB's Scoping Plans (i.e., 2008 Scoping Plan, 2014 Scoping Plan, and 2017 Scoping Plan) and given the reasonably anticipated decline in project emissions once fully constructed and operational, the project would be consistent with the State's GHG reduction targets for 2030 and 2050. Therefore, impacts are less than significant.

The City adopted its CAP to identify GHG reduction strategies needed to achieve its proportional share of the state reduction targets for 2020 (AB 32) and 2050 (EO S-3-05). The City of San Diego CAP and Checklist were developed consistent with AB 32 (2020 target) and EO S-3-05 (2050 goal). The CAP Checklist was not developed consistent with the target reductions of Senate Bill 32; since it was EO B-30-15 at the time and CARB was in the process of updating its Scoping Plan to provide a framework for achieving the 2030 target.

As detailed in the CAP, the City would need to reduce emissions below the 2010 baseline by 15 percent in 2020 and 50 percent by 2035. Through implementation

of the CAP, the City is projected to reduce emissions below targets by 2020 and 2035. In order to ensure the CAP implementation, the City created a CAP Consistency Checklist to be utilized by projects. Therefore, projects consistent with the CAP would result in a less than significant impact.

The CAP Consistency Checklist was completed for the project (Appendix F). The project would meet the requirements for GHG reductions for project development under the City's CAP, and the future residential development would be required to complete a project-level CAP Consistency Checklist, as required in in the CPA (Appendix B). Therefore, the proposed project would be compliant with the City's CAP. Additionally, the project would be consistent with the CARB Climate Change Scoping Plan reduction goals. Thus, the project would not generate GHG emissions that would have a significant impact on the environment, nor would the project conflict with the City's CAP. Impacts would be less than significant.

3.3.4 Significance of Impacts Prior to Mitigation

Impacts related to project GHG emissions would be less than significant.

3.3.5 Mitigation

No mitigation measures are required.

3.3.6 Conclusion

The proposed project would not have any significant impacts related to GHG emissions.

3.4 Land Use and Planning

This section provides an assessment of potential impacts related to land use and planning which could occur from project implementation. This EIR section addresses the consistency of the project with the applicable land use goals, policies and regulations in these land use plans. In accordance with the California Environmental Quality Act (CEQA), the determination of significance regarding any identified inconsistencies is evaluated in terms of their potential to result in significant physical effects on the environment.

Comments related to land use received during the public comment period for the Notice of Preparation (NOP) included concerns that the project would differ from the goals expressed for the community of Clairemont Mesa within the city of San Diego and that the County should consider other land uses for the project site. These concerns have been considered and addressed, as applicable, in the following evaluation of the project's potential to impact land use and planning. The suggestion to consider land uses other than residential is addressed in Chapter 4.0, Alternatives. The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

3.4.1 Existing Conditions

The 4.09-acre project site is located within the Clairemont Mesa community of the city. The project site is currently developed with the former San Diego County Regional Crime Lab (Crime Lab) comprised of two buildings (one to two stories in height totaling approximately 103,500 square feet [SF]) and associated surface parking. The Crime Lab functions were relocated in 2018, with the existing buildings currently vacant except for some minimal storage.

The project site is located within a highly built environment surrounded by a mixture of commercial and residential development and within a designated planned 2035 transit priority area (TPA) (City of San Diego 2019).[1] Land uses immediately surrounding the project site include: retail and office uses to the north (across Mount Etna Drive); retail and office uses to the south; retail uses, including Genesee Shopping Center, to the east (across Genesee Avenue); and a 50-foot-wide San Diego Gas and Electric (SDG&E) electrical transmission line easement to the west with single-family residential uses further west on the other side of the easement area. A medical office building is located immediately

[1] The Transit Priority Areas map is based on the adopted SANDAG San Diego Forward Regional Plan. In accordance with SB 743, "Transit priority areas" means "an area within one-half mile of a major transit stop that is existing or planned, if the planned stop is scheduled to be completed within the planning horizon included in a Transportation Improvement Program adopted pursuant to Section 450.216 or 450.322 of Title 23 of the Code of Federal Regulations." "Major transit stop", as defined by Section 21064.3, means: "a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service of 15 minutes or less during the morning and afternoon peak commute periods." (City of San Diego 2019)

adjacent to the project site to the northeast (i.e., at the southwest corner of Mount Etna Drive and Genesee Avenue). Figure 1-2 in Chapter 1.0, Project Description, contains an aerial photograph of the project site and vicinity.

Vehicular access to the project site is provided via Genesee Avenue and Mount Etna Drive, with neighborhood access provided by Genesee Avenue and Balboa Avenue, and regional access provided by the I-805 freeway located approximately 1.1 miles to the east and the San Diego Freeway (I-5) located approximately 2.1 miles to the west. Montgomery Field Airport is located approximately 3 miles to the east. San Diego Metropolitan Transit System (MTS) bus routes 27 and 41 run along Genesee Avenue and Balboa Avenue in the project area, with the closest bus stop near the Mount Etna Drive/Genesee Avenue intersection, approximately 175 feet east of the project site.

3.4.2 Regulatory Setting

3.4.2.1 Federal

There are no federal land use regulations applicable to the project.

3.4.2.2 State

There are no State land use regulations applicable to the project.

3.4.2.2 Regional

San Diego Forward: The Regional Plan

The San Diego Association of Governments (SANDAG) is the region's metropolitan planning organization that has regional authority and creates regional-specific documents to provide guidance to local agencies. SANDAG does not have land use authority. SANDAG's San Diego Forward: The Regional Plan (Regional Plan) was adopted by the SANDAG Board of Directors on October 9, 2015 (SANDAG 2015). The Regional Plan combines two of the region's existing planning documents: the Regional Comprehensive Plan (RCP) for the San Diego Region and the Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). The RCP, adopted in 2004, laid out key principles for managing the region's growth while preserving natural resources and limiting urban sprawl. The plan covered eight policy areas, including urban form, transportation, housing, health environment, economic prosperity, public facilities, our borders, and social equity. These policy areas were addressed in the 2050 RTP/SCS and are now fully integrated into the Regional Plan.

The project site is located within an Urban Area Transit Strategy Boundary and Existing/Planned Community Center on the SANDAG Smart Growth Concept Map (SANDAG 2016a). The Urban Area Transit Strategy Boundary denotes more

heavily populated regional subareas where local transit operators focus high-frequency transit services as specified in the Regional Plan (SANDAG 2016b). Community Centers have minimum transit service that includes high-frequency local bus or streetcar/shuttle service within an Urban Area Transit Strategy Boundary, and a minimum residential target of 20 du/ac (SANDAG 2016b).

3.4.2.3 Local

City of San Diego General Plan

State law requires each city to adopt a general plan to guide its future development, and mandates that the plan be periodically updated to ensure its continuing relevance and value (State Planning and Zoning Law, California Government Code, Section 65300). State law also requires the inclusion of seven mandatory elements into the General Plan (land use, circulation, housing, conservation, noise, open space, and safety), but permits flexibility and the inclusion of optional elements to best meet the needs of a particular city.

The City's General Plan sets forth a comprehensive, long-term plan for development within the City. A comprehensive update of the City's General Plan was adopted March 10, 2008, and was based on a new planning strategy for the City developed in the 2002 Strategic Framework Element. Known as the City of Villages strategy, the General Plan aims to redirect development away from undeveloped lands and toward already urbanized areas and/or areas with conditions allowing the integration of housing, employment, civic, and transit uses. This development strategy mirrors regional planning and smart growth principles intended to preserve remaining open space and natural habitat and focus development within areas with available public infrastructure.

The Strategic Framework comprises the introductory chapter of the new General Plan, followed by 10 elements:

- Land Use and Community Planning
- Mobility
- Urban Design
- Economic Prosperity
- Public Facilities, Services, and Safety
- Historic Preservation
- Recreation
- Conservation
- Noise
- Housing

The **Land Use and Community Planning Element** (Land Use Element) provides policies to implement the City of Villages strategy within the context of the City's community planning program. The element addresses land use issues that apply to the City as a whole and identifies the community planning program as the mechanism to designate land uses, identify site-specific

recommendations, and refine citywide policies as needed. The Land Use Element establishes a structure for the diversity of each community and includes policy direction to govern the preparation of community plans. The element addresses zoning and policy consistency, the plan amendment process, airport-land use planning, balanced communities, equitable development, and environmental justice.

The General Plan Land Use and Street System Map (Figure LU-2 in the Land Use and Community Planning Element) designates the project site as Commercial Employment, Retail, and Services (City of San Diego 2015). In addition, the project site is located within an area identified as having a medium propensity for village development (City of San Diego 2015). Factors considered in locating village sites and ranking village propensity include community plan-identified capacity for growth; existing public facilities or an identified funding source for facilities; and an existing or identified funding source for transit service, community character, and environmental constraints. Village propensity also takes into consideration the location of parks, fire stations, and transit routes (City of San Diego 2015). By overlaying the facilities factors with the land uses, the Village Propensity Map of the General Plan illustrates existing areas that already exhibit village characteristics, and areas that may have a propensity to develop as village areas. (City of San Diego 2015)

The **Mobility Element** contains policies that promote a balanced, multi-modal transportation network while minimizing environmental and neighborhood impacts. In addition to addressing walking, streets, and transit, the element also includes policies related to regional collaboration, bicycling, parking, the movement of goods, and other components of the transportation system.

The **Urban Design Element** policies call for development that respects the City's natural setting; enhances the distinctiveness of neighborhoods; strengthens the natural and built linkages; and creates mixed-use, walkable villages throughout the City. The Urban Design Element addresses urban form and design through policies relative to the City's natural environment that work to preserve open space systems and target new growth into compact villages.

The **Economic Prosperity Element** identifies policies intended to improve economic prosperity by ensuring that the economy grows in ways that strengthen industries, retains and creates good jobs with self-sufficient wages, increases average income, and stimulates economic investment in communities.

The **Public Facilities, Services, and Safety Element** is directed at providing adequate public facilities through policies that address public financing strategies, public and developer financing responsibilities, prioritization, and the provision of specific facilities and services that must accompany growth. The

policies within the Public Facilities Element also apply to transportation and park and recreation facilities and services.

The **Conservation Element** contains policies to guide the conservation of resources that are fundamental components of the City's environment, that help define the City's identity, and that are relied upon for continued economic prosperity. The City's resources include, but are not limited to water, land, air, biodiversity, minerals, natural materials, recyclables, topography, viewsheds, and energy.

The **Historic Preservation Element** guides the preservation, protection, restoration, and rehabilitation of historical and cultural resources.

The **Noise Element** provides goals and policies to guide compatible land uses and the incorporation of noise attenuation measures for new uses to protect people living and working in the City from an excessive noise environment. The project's consistency with Noise Element requirements is addressed in Section 2.3, Noise, of this EIR.

The separately adopted 2013-2020 **Housing Element** is intended to assist with the provision of adequate housing to serve San Diegans of every economic level and demographic group. The updated housing element was adopted in March 2013.

Applicable land use goals and policies of the General Plan, and the project's consistency with them, are addressed in the impact analysis later in this section (see **Table 3.4-1** below).

Clairemont Mesa Community Plan

Community plans provide the level of information that is needed to review and assess proposed public and private development projects. As indicated in Figure LU-3 of the Land Use and Community Planning Element of the City's General Plan, the project site is located within the Clairemont Mesa Community Plan (CMCP) area. Originally approved in 1989, the CMCP was most recently revised in April 2011, and the City is currently in the process of completing a comprehensive update of the CMCP.

As indicated in Figure 1-3 in Chapter 1.0, Project Description, of this EIR, the project site is designated by the CMCP as Commercial-Community Center and is located within Community Plan Implementation Overlay Zone (CPIOZ) Type B (CPIOZ-B). Land uses permitted under the Commercial-Community Center designation include shopping areas with retail, service, civic, and offices uses for the community at large within three to six miles, with single-family residential prohibited, and a floor-area ratio (FAR) of 0.25-2.0 (City of San Diego 2015). The

purpose of the CPIOZ is to provide supplemental development regulations tailored to specific sites within community plan areas of the City to ensure that development proposals are reviewed for consistency with the use and development criteria that have been adopted for specific sites as part of the community plan update process (SDMC Section 132.1402(a)). According to the CMCP, only commercial uses should be permitted in the Community Core of the Clairemont Mesa Community; residential uses should not be permitted in order to preserve the core as the commercial center of the community (City of San Diego 2011). With regard to the CPIOZ-B designation, this designation requires proposed development to be processed under a Site Development Permit decided in accordance with the Decision Process 3 (e.g., staff level review, hearing officer hearing, decision to approve or deny) (SDMC Sections 112.0501 and 132.1402(b)). However, certain projects, such as affordable housing projects, may be processed under a Site Development Permit (SDP) decided in accordance with the Decision Process 2 (e.g., staff level review, staff decision to approve/deny) (SDMC Sections 112.0501 and 132.1402(b)).

In addition to identifying land use regulations applicable within specific CMCP land use designations and overlays, the CMCP includes goals and objectives established by residents, property owners, and business owners to guide development within the Clairemont Mesa community. The CMCP contains the following eight elements; those elements relative to the project are briefly described below.

- Urban Design
- Residential
- Commercial
- Industrial
- Transportation
- Open Space and Environmental Resources
- Population-Based Parks and Recreation
- Community Facilities

The **Urban Design Element** describes Clairemont Mesa as “an attractive place to live, work, and play” and key community attributes, including but not limited to, the visual aesthetics of nearby canyons, low-density residential development adjacent to canyons and parks, and well-established single-family neighborhoods on the mesa with views of Mission Bay, the Pacific Ocean, the mountains to the east, and the canyons. Although this element does not include specific goals and objectives, the CMCP has incorporated recommendations throughout other elements to achieve the Urban Design Element’s goal to preserve Clairemont Mesa’s identity for future generations.

The **Residential Element** seeks to maintain Claremont Mesa’s low-density character of predominately single-family neighborhoods and encourage rehabilitation where appropriate. This element presents objectives to guide future residential development within the Clairemont Mesa community in a manner that

would provide a diversity of housing options, ensure that future development is compatible with the existing neighborhood and does not overburden existing community or neighborhood facilities, and locate higher density housing near the commercial areas along transportation corridors. This element also seeks to provide adequate off-street parking.

The **Transportation Element** seeks to provide a safe and efficient transportation system that maximizes access to community activity centers and to destinations within the City while minimizing adverse environmental effects. This element contains objectives to improve the street system to accommodate future growth while minimizing adverse effects, develop a bicycle system, provide an efficient and high level of public transit, enhance pedestrian circulation, enhance the community's image through streetscape improvements, and minimize adverse noise impacts.

The **Open Space and Environmental Resources Element** seeks to provide an open space system that preserves existing canyon and hillsides and dedicate open space areas as infill development occurs within the community. Relevant objectives within this element include to reduce runoff and the alteration of the natural drainage system and to protect the resource value of artifacts and paleontological remains and the community's heritage for future generations.

The **Population-Based Parks and Recreation Element** seeks to provide a system of parks and recreation facilities to meet the recreational needs of the entire community in conformance with Progress Guide and General Plan standards. The relevant objective within this element is to increase recreational opportunities in new residential and commercial development.

The **Community Facilities Element** seeks to establish and maintain high level of public facilities and services to meet the needs of the community. Relevant objectives in this element include providing educational services, police and fire protection, and public utilities in accordance with City standards and maintaining water and sewer facilities to adequately serve the community.

Applicable land use goals and policies of the CMCP, and the project's consistency with them, are addressed in the impact analysis later in this section.

Land Development Code

Chapters 11 through 15 of the City's Municipal Code are referred to as the Land Development Code (LDC), as they contain the City's planning, zoning, subdivision, and building regulations that dictate how land is to be developed within the city. The LDC contains citywide base zones that specify permitted land use, density, floor- area ratio, and other development requirements for given

zoning classifications; as well as overlay zones and supplemental regulations that provide additional development requirements.

Chapters 13 (Zones) and 14 (General Regulations) are of particular relevance to development of the project. Chapter 13, Zones, includes the applicable development regulations for the base zones of the project site.

Chapter 14 of the LDC includes the general development regulations, supplemental development regulations, subdivision regulations, building regulations, and electrical/plumbing/mechanical regulations that govern all aspects of project development. The grading, landscaping, parking, signage, fencing, and storage requirements are all contained within the Chapter 14 general regulations.

As indicated in Chapter 1.0, Project Description, of this EIR, the project site is currently zoned Commercial Office (CO-1-2). The CO zone permits employment uses with limited, complementary retail uses and residential uses as specified, and is intended to apply in large-scale activity centers or in specialized areas where a full range of commercial activities is not desirable (SDMC Section 131.0504). The CO-1-2 zone is intended to accommodate a mix of office and residential uses that serve as an employment center and permits a maximum density of one dwelling unit for each 1,500 SF of lot area. Development at the project site is also subject to development regulations specific to this zone (and the CPIOZ-B overlay), as well as to many general development regulations pertaining to landscaping, lighting, grading, parking, signage, etc.

Applicable land use-related LDC requirements, and the project's consistency with them, are addressed in the impact analysis later in this section. Other applicable LDC requirements are discussed throughout this EIR, particularly in Chapters 1.0 (Project Description) and 2.0 (Significant Environmental Effects of the Project).

3.4.3 Analysis of Project Effects and Determination as to Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in the City of San Diego's California Environmental Quality Act CEQA Significance Determination Thresholds (City of San Diego 2016). A significant land use and planning impact would occur if there would be a/an:

> Issue 1: Inconsistency/conflict with an adopted land use designation or intensity leading to significant physical effects on the environment;
>
> Issue 2: Inconsistency/conflict with the environmental goals, objectives, or guidelines of a General or Community Plan;
>
> Issue 3: Substantial incompatibility with an adopted land use plan;

Issue 4: Inconsistency/conflict with adopted environmental plans for an area;

Issue 5: Incompatible uses as defined in an airport land use plan or inconsistency with an Airport Land Use Compatibility Plan (ALUCP) as adopted by the Airport Land Use Commission (ALUC);

Issue 6: Significant increase in the base flood elevation of downstream properties, or construction in a Special Flood Hazard Area or floodplain/wetland buffer zone; or

Issue 7: Physical division of an established community.

For a discussion on Issue 5, see Section 2.2, Hazards and Hazardous Materials, of this EIR. As detailed in Chapter 5.0, Other CEQA Considerations, of this EIR, the project has no potential for significant impacts regarding Issues 6 (base flood elevations) and 7 (physical division of an established community).

It is noted that a project inconsistency or conflict with a land use plan would not in and of itself constitute a significant environmental impact. The plan or policy inconsistency would have to result in a significant physical effect on the environment to be considered significant pursuant to the City's guidelines and CEQA.

3.4.3.1 General/Community Plan Land Use Designation and Zoning Consistency

Issue 1: Would the project result in an inconsistency/conflict with an adopted land use designation or intensity leading to significant physical effects on the environment?

Impact Analysis

Community Plan Amendment and Rezone

As indicated previously, the project site is designated by the General Plan as Commercial Employment, Retail, and Services, and is designated by the CMCP as Commercial-Community Center with a CPIOZ-B overlay. Additionally, western Clairemont Mesa has a height overlay that limits buildings at the site to 30 feet above finished grade (SDMC Section 101.0452.5). An exception to this overlay can be considered as long as the new structure is compatible with surrounding one, two, or three-story structures or is an affordable housing project, as described in SDMC Section 101.0452.5.D.

Under the proposed Community Plan Amendment (CPA), the site would be re-designated to Residential-High (45-73 du/ac), effectively changing its planned land use. The total maximum allowable residential development under the

proposed CPA and rezone (see discussion below) would be 404 multifamily development units, including all density bonus units, provided the future development project's setbacks and building height requirement are consistent with the proposed CPIOZ Type A (CPIOZ-A) supplemental development regulations proposed overlay.

The proposed CPIOZ-A overlay sets the framework for future residential development at the project site and provides site-specific design standards to ensure a high-quality development that provides needed affordable housing opportunities near transit, shopping, and employment. The proposed Mount Etna CPIOZ-A supplemental development regulations are intended to produce a development that is consistent with the existing and emerging plans for the adjacent Community Core, provides active and accessible ground floor uses, and strengthens community connectivity and identity.

The intent of the Mount Etna CPIOZ-A regulations contained in the CPA language (Appendix B) is to provide primarily for affordable homes that complement the surrounding Community Core and existing single-family residential uses. Additional uses that activate the ground floor and provide community benefit for residents and the surrounding community are also desired. The proposed CPIOZ-A supplemental development regulations, which outline specific requirements for ground floor for uses, height, setbacks, landscape/streetscape, architectural design guidelines, and open space are contained in Appendix B of this EIR.

While the project would require a CPA to allow for a future residential development, the associated land use change would not conflict with the environmental goals, objectives or recommendations of the General Plan and CMCP with approval of the proposed CPA. Furthermore, although designated for commercial use, the site has never been utilized as such. Instead, publicly serving uses have occupied the property for the last 50+ years. Specifically, the Clairemont General Hospital was constructed on the site in 1961 and operated until 1989 when the site was purchased for County use. On March 1, 1994, the Board of Supervisors authorized the relocation of the Sheriff's Criminal Investigations Division (a community serving facility) to the project site, which operated on the project site until 2018. No commercial development has every occurred on the project site.

Regarding the rezone, the project site is currently zoned CO-1-2 which permits commercial uses and one dwelling unit per 1,500 SF of site area. The proposed zone change to RM-3-9 would allow for multiple unit residential with a maximum building height of 70 feet. The CPIOZ-A supplemental development regulations would be consistent with the general intent of the RM-3-9 zone as modified by the regulations contained in Appendix B. The development would also be

consistent with the intent of the RM-3-9 zone as modified by these regulations and any incentives or waivers granted pursuant to Article 3: Supplemental Development Regulations, Division 7: Affordable Housing Regulations of the SDMC and any State allowed density bonus incentives.

Therefore, re-designating and rezoning the property as proposed would not result in less commercial development occurring in the community (County of San Diego 2018) and residential development of a former public-serving use site would not result in significant physical effects on the environment because: (1) the project site is already developed with urban uses; (2) the project site is surrounded by urban uses, (3) the project would allow for infill redevelopment to replace underutilized buildings with multifamily housing; (4) the project site is located within a TPA where higher urban density in close proximity to transit is encouraged; and (5) as an affordable housing project, the project would implement the housing goals expressed in the General Plan and CMCP. Therefore, the land use and planning impacts associated with the proposed project would be less than significant.

3.4.3.2 General/Community Plan Land Use Objective/Policy Consistency

Issue 2: Would the project result in an inconsistency/conflict with the environmental goals, objectives, or guidelines of a General or Community Plan, or a substantial incompatibility with an adopted land use plan?

Impact Analysis

The City's General Plan and CMCP identify goals and policies that guide growth and development Citywide and within the Clairemont Mesa community, respectively. Most of the General Plan's goals are implemented through policy established in the CMCP. General Plan Elements that include land use-related goals and policies that apply to the project include: Land Use; Mobility; Urban Design; Public Facilities, Services, and Safety; Recreation; and Noise. CMCP Elements that include land use-related goals and policies that apply to the project include: Residential; Transportation; Open Space and Environmental Resources; Population-Based Parks and Recreation; and Community Facilities. **Table 3.4-1** identifies the land-use related goals, objectives and policies in the City's General Plan and CMCP applicable to the project, and an analysis of project consistency with them.

As indicated therein, the project would be consistent with these goals, objectives and policies, and with the General Plan City of Villages strategy described in Subsection 2.6.2 above, for reasons that include, but are not limited to:

1. The project would provide for higher density infill redevelopment of an already developed underutilized site within an urbanized area near transit in the Community Core of Clairemont Mesa;
2. The project would intensify urban development, including providing high-density residential development, within an area identified by the City's General Plan Land Use Element as having a medium propensity for village development and an area identified by SANDAG as a Community Center within an Urban Area Transit Strategy Boundary;
3. The project would be developed in accordance with all applicable CPIOZ-A supplemental development standards (e.g., height, architectural, landscaping, lighting, urban design,); and
4. The project would provide the City with much needed affordable housing that is encouraged in the General Plan and Community Plan policies.

Additionally, the project would provide transit supportive residential densities that would have access to existing and planned transit.

Table 3.4-1
Project Consistency with Applicable Land Use-Related Goals, Objectives, and Policies

Goals/Objectives/Policies	Consistency Evaluation
City of San Diego General Plan	
Land Use and Community Planning Element Applicable goals: A. <u>City of Villages Strategy</u> • Mixed-use villages located throughout the City and connected by high-quality transit.	**Consistent:** The project proposes a CPA to change the General Plan/CMCP land use designation from Commercial-Community Center to Residential-High (45-73 du/ac), and the CPIOZ from CPIOZ-B to CPIOZ-A. The project would implement the General Plan City Villages Strategy by providing high-density residential uses at the project site, which is identified as having a medium propensity for village development in the General Plan Land Use Element, is within a TPA, and within a SANDAG identified Smart Growth Opportunity Area. The project would add density within an area with access to transit due to its location adjacent to a high-frequency bus stop along Genesee Avenue near Mount Etna Drive. Lastly, the project would represent infill redevelopment on a developed site already served by public services and utilities, and would develop housing within close proximity

Goals/Objectives/Policies	Consistency Evaluation
	to existing shopping and employment opportunities.
B. General Plan Land Use Categories • Land use categories and designations that remain consistent with the General Plan Land Use Categories as community plans are updated and/or amended. C. Community Planning Goals • Community plans that maintain or increase planned density of residential land uses in appropriate locations. • Community plans that are kept consistent with the future vision of the General Plan through comprehensive updates or amendments.	**Consistent:** The CPA would change the site use and increase the planned intensity of the project site consistent with the vision of the General Plan City of Villages strategy. Therefore, implementation of the proposed CPA would be consistent with these goals. See the Consistency Evaluation for Land Use Goal D below for further discussion.
D. Plan Amendment Process • Approve plan amendments that better implement the General Plan and community plan goals and policies. • Allow for changes that will assist in enhancing and implementing the community's vision.	**Consistent:** Land Use Goal D criteria require that initiation of an amendment be based on compliance with three initiation criteria: a) appears consistent with the goals and policies of the General Plan and community plan and any community plan specific amendment criteria; b) provides additional public benefit to the community as compared to the existing land use designation, density/intensity range, plan policy or site design; and c) public facilities appear to be available to serve the proposed increase in density/intensity, or their provision will be addressed as a component of the amendment process. On December 16, 2018, the City's Planning Commission approved Planning Commission Resolution No. 4979-PC authorizing the initiation of a General Plan Amendment (GPA)/CPA and rezone as requested by the County for this project. The CPA would be consistent with the community's goals and objectives for residential development (page 11 of the CMCP). The project site is adjacent to a variety of urban uses including commercial development, multi-story office towers, an SDG&E easement, and single-family residential development beyond the SDG&E easement. The proposed CPA would not involve any changes to existing single-family zoning within the community. In fact, the CPA would encourage rehabilitation of a currently developed underutilized site and would facilitate infill redevelopment near commercial

Goals/Objectives/Policies	Consistency Evaluation
	uses and within a designated TPA. The CPA would contribute to the community's residential development objectives to provide a diversity of housing options (Objective 1 of the CMCP) and locate higher density housing near commercial areas and along transportation corridors where there are adequate services (Objective 4 of the CMCP). Multifamily development allowed by the CPA would act as a buffer between commercial areas and single-family neighborhoods to ensure the development is compatible with the existing neighborhood (Objective 3 of the CMCP). Finally, future site development consistent with the CPA would be required to provide the required amount of parking set forth by City parking regulations (Objective 5 of the CMCP). Further, the site has been developed with community/ government uses and served by public services and utilities since 1961. The EIR process for the CPA would ensure that the future site development would not overburden community or neighborhood facilities. The site developer would be required to pay any applicable fees and provide facilities adequate to meet the City's existing public services requirements (County of San Diego 2018).
Mobility Element Applicable goals: A. <u>Walkable Communities</u> • A city where walking is a viable travel choice, particularly for trips of less than one-half mile. • A safe and comfortable pedestrian environment. • A complete, functional and interconnected pedestrian network, that is accessible to pedestrians of all abilities. • Greater walkability achieved through pedestrian- friendly street, site and building design.	**Consistent:** The proposed CPIOZ-A supplemental development regulations, which outline specific requirements, are contained in Appendix B of this EIR. As indicated therein, the project shall provide for internal and external pedestrian-oriented features that provide clear, safe, and attractive connections to both on-site and surrounding uses. The specific improvement(s) will be selected and processed by the developer in concert with agreement by the City Engineer. Also, the supplemental development regulations require that street trees be planted and maintained along public street frontages to provide a shaded pedestrian environment and give a pedestrian character to the street.
B. <u>Transit</u> • An attractive and convenient transit system that is the first choice of travel for many of the trips made in the City. • Increased transit ridership.	**Consistent:** As indicated previously, the project would be located along MTS bus routes 27 and 41 that run along Genesee Avenue and Balboa Avenue in the project area, with the closest route 41 bus stop near the Mount Etna Drive/Genesee Avenue

Goals/Objectives/Policies	Consistency Evaluation
	intersection, approximately 175 feet east of the project site. The project would reduce regional vehicle miles travelled (VMT) by taking advantage of being in a planned TPA (Chen Ryan 2019).
F. Bicycling • A city where bicycling is a viable travel choice, particularly for trips of less than five miles. • A safe and comprehensive local and regional bikeway network.	**Consistent:** There are currently no bicycle facilities directly accessing the project site on Mount Etna Drive. However, Class II Bike lanes are provided on both sides of Genesee Avenue, and the bike lane on the west side of Genesee Avenue fronting the project site would be retained under the project (Chen Ryan 2019). Furthermore, secure bicycle parking within the community would be required by the project's TDM program (Chen Ryan 2019).
Urban Design Element Applicable goals: A. General Urban Design • A built environment that respects San Diego's natural environment and climate. • An improved quality of life through safe and secure neighborhoods and public places. • A City with distinctive districts, communities, neighborhoods, and village centers where people gather and interact. • Utilization of landscape as an important aesthetic and unifying element throughout the City.	**Consistent:** The project would include multiple urban design elements to ensure that the project respects the City's natural environment and climate, improves quality of life through safe and secure public places, provides distinctiveness where people would gather and interact, and utilize landscaping as an aesthetic and unifying element. The project would do so through the proposed supplemental development regulations included in Appendix B of this EIR that require: (1) Community accessible active ground floor space oriented towards the fronting public streets; (2) Building setbacks intended to encourage pedestrian scale and compatibility with adjacent uses; (3) Landscape screening of any surface parking directly adjacent to public rights-of-way; (4) Landscaping of the project site, and the planting of street trees along public street frontages to provide a shaded pedestrian environment; (5) Building articulation that diminishes the appearance of mass and bulk, and that creates visual interest as viewed at the pedestrian scale; (6) Screening and fencing of storage areas, ground-level and rooftop mechanical equipment, and maintenance areas;

Goals/Objectives/Policies	Consistency Evaluation
	(7) Residential open space, including: private (balcony, patio, or roof terrace) exterior open space; and (8) Lastly, it is noted that the project site is currently developed with generic office buildings that feature a minimum of articulation, landscaping, and urban design features. The project would replace the existing buildings with new buildings with high quality architecture and articulation, along with pedestrian facilities, landscaping and open space, all of which would improve the aesthetics of the site. The design of the future development would be subject to the standards in the CPIOZ-A and reviewed for compliance during the building permit process.
B. Distinctive Neighborhoods and Residential Design • Innovative design for a variety of housing types to meet the needs of the population. • Infill housing, roadways and new construction that are sensitive to the character and quality of existing neighborhoods.	**Consistent:** See the Consistency Evaluations for: General Plan Land Use and Community Planning Element Goal 1 above; Urban Design Element Goal A above; and CMCP Residential Objective 1 below.
Public Facilities, Services, and Safety Element Applicable goals: D. Fire-Rescue • Protection of life, property, and environment by delivering the highest level of emergency and fire- rescue services, hazard prevention, and safety education.	**Consistent:** As described in Section 3.6, Public Services, of this EIR, the project would not necessitate the construction of additional fire protection facilities. Additionally, the project would be constructed in accordance with City Building and Fire Code requirements, and would contribute funding to maintain fire protection services provided by the City through payment of Development Impact Fees (DIFs) that would be required prior to issuance of building permits.
E. Police • Safe, peaceful, and orderly communities. • Police services that respond to community needs, respect individuals, develop partnerships, manage emergencies, and apprehend criminals with the highest quality of service.	**Consistent:** As described in Section 3.6, Public Services, of this EIR, the project would not necessitate the construction of additional police protection facilities. Additionally, the project would be constructed in accordance with City lighting and security requirements, and would contribute funding to maintain police protection services provided by the City through payment of DIFs that would be required prior to issuance of building permits.

Goals/Objectives/Policies	Consistency Evaluation
F. Wastewater • Environmentally sound collection, treatment, re-use, disposal, and monitoring of wastewater.	**Consistent:** All sewer facilities would be designed in accordance with the Sewer Design Guide (2013) by the Metropolitan Wastewater Department, City of San Diego. Furthermore, as described in Section 3.8, Utilities and Service Systems, of this EIR, the project would not overburden existing wastewater collection and treatment facilities. Lastly, the project would include residential uses that generate standard municipal sewage. It would not include uses that generate sewage with constituents that could potentially interfere with the ability of the local wastewater treatment plant to meet its treatment and discharge requirements.
G. Storm Water Infrastructure • Protection of beneficial water resources through pollution prevention and interception efforts. • A storm water conveyance system that effectively reduces pollutants in urban runoff and storm water to the maximum extent practicable.	**Consistent:** As indicated in Section 5.2.5, Hydrology of this EIR, project grading activities during construction could temporarily increase the amount of sediment in runoff, which could enter the existing storm drain system and outfall to coastal waters. However, project construction activities would be subject to the requirements of the Construction General Permit and a Stormwater Pollution Prevention Plan (SWPPP) that would ensure that construction activities would not degrade the surface water quality of receiving waters to levels below the standards of the San Diego Regional Water Quality Control Board (RWQCB) and other regulatory agencies. In addition, the project would not substantially increase surface water runoff or the concentration of pollutants in that runoff during operation because: (1) the project site is already developed with impervious urban uses; and (2) additional Best Management Practices (BMPs) would be implemented, as required, to control urban pollutants in runoff from the project.
I. Waste Management • Maximum diversion of materials from disposal through the reduction, reuse and recycling of wastes to the highest and best use.	**Consistent:** As indicated in Section 3.8, Utilities and Service Systems, of this EIR, the project would comply with all applicable solid waste separation, recycling, and diversion requirements during both construction and operation, consistent with the regulatory requirements.

Goals/Objectives/Policies	Consistency Evaluation
M. Public Utilities • Public utilities that sufficiently meet existing and future demand with facilities and maintenance practices that are sensible, efficient and well-integrated into the natural and urban landscape.	**Consistent:** The project would have access to all utilities as described in Sections 3.2, Energy, and 3.8, Utilities and Service Systems, of this EIR. The project is an existing developed site and connected to the existing facilities in the surrounding streets, and the project would provide any additional upgrades and/or connections that may be required.
Q. Seismic Safety • Protection of public health and safety through abated structural hazards and mitigated risks posed by seismic conditions. • Development that avoids inappropriate land uses in identified seismic risk areas.	**Consistent:** As indicated in Section 5.2.4, Geology, Soils, and Seismicity, of this EIR, the project site is not at risk of fault rupture of a known Alquist-Priolo Fault. Furthermore, while the project site is located in the seismically active Southern California area, including in State-designated Seismic Zone 4 that is the highest seismic zone, compliance with applicable California Building Code (CBC) seismic safety requirements would ensure protection of public health and safety and structures are not at risk due to seismic conditions.
Historic Preservation Element Applicable goals: A. Identification and Preservation of Historical Resources • Identification of the historical resources of the City. • Preservation of the City's important historical resources.	**Consistent:** As indicated in Section 5.2.3, Cultural Resources of this EIR, the existing on-site buildings were constructed as the Clairemont General Hospital in 1961 and are not currently designated as historical resources in the California Register of Historical Resources, and do not qualify as such. Therefore, their demolition under the proposed project would not conflict with the City's goal to identify and preserve historical resources in the City.
Recreation Element Applicable goals: F. Open Space Lands and Resource-Based Parks • A system of pedestrian, bicycle and equestrian paths linking communities, neighborhoods, parks, and the open space system.	**Consistent:** See the Consistency Evaluations for General Plan Mobility Element Goals A and F above.
Conservation Element Applicable goals: A. Climate Change and Sustainable Development • To reduce the City's overall carbon dioxide footprint by improving energy efficiency, increasing use of alternative modes of transportation, employing sustainable planning and design	**Consistent:** The project is proposed in a planned TPA where transit service exists and is planned in the future. The project would implement a TDM program to reduce single-occupant motor vehicle trips, and encourage use of alternative transportation, as much as possible (Chen Ryan 2019). Therefore, the project would reduce regional vehicle miles travelled (VMT) by taking advantage of being in a TPA (Chen Ryan 2019). All of these

Goals/Objectives/Policies	Consistency Evaluation
techniques, and providing environmentally sound waste management.	conditions would minimize the project's production of mobile source GHG emissions. The future development project that would be allowed under the proposed project would be required to prepare a CAP Consistency Checklist and incorporate design features that minimize its GHG emissions into the final project plans as a condition of approval for the building permit. In addition, the project would be built as a Leadership in Energy and Environmental Design (LEED) Silver or equivalent, which would minimize its carbon footprint through the integration of environmentally sensitive design features focused on minimizing energy usage, water demands, waste production, etc. Additional consistency discussion is presented under Conservation Element Goal D, Water Resources Management.
C. Coastal Resources • Clean coastal waters by continuing to improve the quality of ocean outfall discharges.	**Consistent:** See the Consistency Evaluation for General Plan Public Facilities, Services, and Safety Element Goal G above.
D. Water Resources Management • Effective long-term management of water resources so that demand is in balance with efficient, sustainable supplies.	**Consistent:** The future development project would be built as a LEED Silver or equivalent. Because no specific development plan is proposed, a LEED checklist has not been completed at the time of this analysis. Although exact measures and credits are unknown, the LEED checklist includes requirements for indoor and outdoor water use reduction. By adhering to LEED Silver or equivalent standards, the future residential infill development would be required to include water conservation features, including but not limited to using drought resistant landscaping and low flow plumbing fixtures. By adhering to LEED Silver or equivalent standards, the future residential development would be required to reduce its water use, and would not use excessive amounts of water.
E. Urban Runoff Management • Protection and restoration of water bodies, including reservoirs, coastal waters, creeks, bays and wetlands. • Preservation of natural attributes of both the floodplain and floodway without endangering life and property.	**Consistent:** With regard to the quality of stormwater runoff from the project site, see the Consistency Evaluation for General Plan Public Facilities, Services, and Safety Element Goal G above. With regard to the preservation of natural attributes of floodplains and floodways without endangering life or property, as indicated in Section 5.2.5, Hydrology, of this EIR, the

Goals/Objectives/Policies	Consistency Evaluation
	project site is not located within a Federal Emergency Management Agency (FEMA) designated 100-year floodplain or floodway.
F. Air Quality • Regional air quality that meets state and federal standards. • Reduction in greenhouse gas emissions effecting climate change.	**Consistent:** As described in Section 2.1, Air Quality, of this EIR, the project would be consistent with all regional, state and federal air quality and GHG standards.
I. Sustainable Energy • An increase in local energy independence through conservation, efficient community design, reduced consumption, and efficient production and development of energy supplies that are diverse, efficient, environmentally-sound, sustainable, and reliable.	**Consistent:** As detailed in Section 3.2, Energy, of this EIR, the project would implement a number of energy efficiency features in compliance with Title 24 CALGreen Code regulations, which include measures such as energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. With the implementation of these measures, the project would utilize energy in a sustainable fashion.
Clairemont Mesa Community Plan	
Residential Objectives 1. Provide a diversity of housing options in selected locations of the community.	**Consistent:** According to current SANDAG estimates, the majority of residential development within the CMCP consists of single-family detached residential (62 percent) (SANDAG 2016c). The project would develop 404 affordable multi-family housing units that would increase residential diversity by providing residential options other than single-family detached housing units. The project would also provide the City with much needed affordable housing.
3. Provide development guidelines to help ensure that new development is compatible with the existing neighborhood and does not overburden community or neighborhood facilities.	**Consistent:** The project proposes supplementary development guidelines (Appendix B of this EIR) to help ensure that project development is compatible with the existing neighborhood. See the Consistency Evaluation for General Plan Urban Design Element Goal A above for additional discussion. In addition, while the project would include a CPA and rezone, these changes would be consistent with the City's Village Strategy and residential development objectives, and would not overburden community or neighborhood facilities. See the Consistency Evaluation for General Plan Land Use and Community Planning Element Goals A and D above for additional discussion.

Goals/Objectives/Policies	Consistency Evaluation
4. Locate higher density housing near the commercial areas and along transportation corridors where there are adequate services.	**Consistent:** See the Consistency Evaluation for General Plan Land Use and Community Planning Element Goals A and D above.
5. Provide adequate off-street parking.	**Consistent:** See the Consistency Evaluation for General Plan Mobility Element Goal G above.
Transportation Objectives 1. Improve the street system as necessary to accommodate the community's growth while minimizing adverse effects on existing residential, industrial, and commercial uses and the open space system.	**Consistent:** The project would improve roadway frontage as described in the Consistency Evaluation for General Plan Urban Design Element Goal A. No open space would be impacted by the project as the site is already developed with urban uses.
2. Develop a bicycle system that will join parks and recreational areas, schools and commercial activity centers in the community and City.	**Consistent:** See the Consistency Evaluation for General Plan Mobility Element Goal F above.
3. Provide an efficient and high level of public transit within and surrounding the community. Design and plan land uses that will support and make use of the future light rail transit.	**Consistent:** The project proposes a CPA to change the land use designation to Residential–High (45-73 du/ac) and the CPIOZ from CPIOZ-B to CPIOZ-A. While the project would not be located along a light rail transit line (the planned Mid-Coast Light Rail Transit line would be located approximately 2 miles to the west), Implementation of the CPA would be consistent with the General Plan City Villages Strategy that intends to integrate housing, employment, civic, and transit uses. Furthermore, the project would intensify residential uses at the project site which is identified as having a medium propensity for village development in the General Plan Land Use Element, and is located within both a 2035 TPA and a SANDAG identified Smart Growth Opportunity Area and along MTS bus routes 27 and 41.
4 Enhance pedestrian circulation, particularly between higher density residential and commercial areas and to active and passive recreation facilities.	**Consistent:** See the Consistency Evaluation for General Plan Mobility Element Goal A above.
6. Minimize adverse noise impacts.	**Consistent:** As detailed in Section 2.3, Noise, while the proposed project would result in a temporary increase in ambient noise levels above existing conditions at off-site sensitive receivers during project construction, Mitigation Measure NOI-1 would reduce impacts to less than significant.

Goals/Objectives/Policies	Consistency Evaluation
Open Space and Environmental Resources Objectives 2. Reduce runoff and the alteration of the natural drainage system.	**Consistent:** As indicated in Section 5.2.5, Hydrology, of this EIR, the project site is already fully developed with and surrounded by urban uses, with stormwater runoff entering the local municipal storm drain system via inlets in the adjacent streets. This drainage pattern would be retained under the proposed project. Furthermore, no natural drainage features (streams, rivers, etc.) currently bisect or are located adjacent to the project site, and the project would not affect any such features. With regard to the quantity of stormwater runoff from the project site, because the project site is fully developed, the project would not appreciably increase impervious surfaces on, or stormwater runoff from, the project site during operation. During construction, the project could temporarily alter drainage conditions at the project site; however, a SWPPP would be implemented during construction to control runoff and avoid on- and off-site flooding during the construction period.
7. Protect the resource value of artifacts and paleontological remains and the community's heritage for future generations.	**Consistent:** As indicated in Section 5.2.4, Cultural Resources, of this EIR, project site preparation activities during construction would involve ground-disturbing activities that would have the potential to encounter unknown buried archaeological resources. However, since the project site has been previously graded, ground-disturbing activities associated with the project would be expected to encounter artificial fill rather than native soils that would have the potential to contain archaeological resources. Furthermore, the depth of grading is anticipated to be relatively limited as only sheet grading for drainage purposes would be required. As such, the project area would have an extremely low potential for the presence of archaeological resources as defined in CEQA Guidelines Section 15064.5, and the impact to archaeological resources would be less than significant. For similar reasons, there would be no potential to encounter paleontological resources during project construction, and no impact to paleontological resources would occur as noted in Section 5.2.4, Geology, Soils and Seismicity, of this EIR.

Goals/Objectives/Policies	Consistency Evaluation
Population-Based Parks and Recreation Objectives 3. Increase recreational opportunities in new residential and commercial development.	**Consistent:** The proposed supplemental development regulations included in Appendix B of this EIR require that the project include: (1) Residential open space, including: private (balcony, patio, or roof terrace) exterior open space for at least 50 percent of all residential units; and (2) Common indoor or outdoor open space, including passive and active recreation space with amenities (e.g., tables, benches, trees, shrubs, spas, fitness circuits, etc.). Furthermore, the site developer would be required to pay any applicable fees and provide facilities adequate to meet the City's existing public services requirements (County of San Diego 2018).
Community Facilities Objectives 3. Maintain water and sewer facilities to adequately serve the community.	**Consistent:** As described in Section 3.8, Utilities and Service Systems, of this EIR, the project would not overburden existing water and sewer facilities.

SOURCE: ESA, May 2019.

3.4.3.2 Consistency with Adopted Environmental Plans

Issue 3: Would the project result in inconsistency/conflict with adopted environmental plans for an area?

Impact Analysis

The project site is not located within an area covered by the City's Multiple Species Conservation Program (MSCP) Subarea Plan or other approved local, regional, or state habitat conservation plans (HCPs). The project site is also not located within and does not contain natural open space, is not located adjacent to areas subject to any adopted HCPs, and is not bisected by or located adjacent to a watercourse or riparian habitat. The project site is currently fully developed with urban uses, and is surrounded on all sides by urban development. Furthermore, the project site is not located within a Federal Emergency management Agency (FEMA) designate 100-year floodplain or a SDMC-designated Special Flood Hazard Area. Therefore, the project would not result in an inconsistency/conflict with adopted environmental plans for the area, and the impact would be less than significant.

3.4.4 Cumulative Impact Analysis

The geographic context for the analysis of cumulative impacts related to land use and planning is the Clairemont Mesa community. Overall, projects that are consistent with the environmental goals, objectives, and policies of a General/Community Plan, and would not result in significant effects on the environment associated with requested deviations to existing regulatory requirements, would have less than significant land use impacts. As indicated in Chapter 1.0, Project Description, of this EIR, 12 cumulative projects are located in the general vicinity of the proposed project. These cumulative projects could, along with the proposed project, result in cumulative land use impacts. However, such impacts would not lead to significant physical effects on the environment that are cumulative in nature because all future projects that develop within the project area would be subject to City land use regulations, including the General Plan, CMCP, and LDC.

The project site is currently designated as Commercial Employment, Retail, and Services in the General Plan and as Commercial-Community and CPIOZ-B in the CMCP, and is currently zoned CO-1-2. As detailed in the impact analysis for the project above, while the project would require a CPA and zone change, the proposed land use changes would not conflict with environmental goals, objectives, or recommendations of the General Plan or CMCP. Additionally, while the project is requesting deviations from selected development regulations, none of the proposed deviations would result in significant physical effects on the environment. Hence, project land use and planning impacts would be less than significant.

Therefore, the project would not have a cumulatively considerable effect on land use, and cumulative land use and planning impacts would be less than significant.

3.4.5 Significance of Impacts Prior to Mitigation

Less than significant.

3.4.6 Mitigation

No mitigation measures are required.

3.4.7 Conclusion

The project would result in less than significant land use and planning impacts.

3.5 Population and Housing

This section provides an assessment of potential impacts related to population and housing that could result from project implementation. Potential impacts addressed in this section include the project's potential to directly, through the construction of additional housing, or indirectly, through the creation of new employment opportunities or the extension or expansion of residential-related infrastructure, result in population growth in the project area.

Comments related to population and housing received during the public comment period for the Notice of Preparation (NOP) included concerns regarding density and substantial population increase in the community of Clairemont Mesa within the city of San Diego. These concerns have been considered and addressed, as applicable, in the following evaluation of the project's potential to impact population growth. The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

3.5.1 Existing Conditions

The proposed project is located within the community of Clairemont Mesa, which is located in the central portion of the city of San Diego. The city encompasses over 342.5 square miles, spans nearly 40 miles north to south and is bounded by the Pacific Ocean, and the cities of Del Mar, Coronado and Imperial Beach to the west, Mexico to the south, the cities of Solana Beach, Escondido, and the unincorporated community of Rancho Santa Fe to the north, and the cities of Poway, Santee, El Cajon, Lemon Grove, Le Mesa, and unincorporated areas of San Diego County to the east.

The community of Clairemont Mesa is bound by Interstate 5 (I-5) to the west, State Route 52 (SR 52) to the north, Interstate 805 (I-805) to the east, and an irregular boundary that roughly follows the Tecolote Canyon Natural Park and Nature Center area across Genesee Avenue to I-805. The community of Clairemont is comprised of three major subareas, which consists of Bay Ho, North Clairemont, and Clairemont. The project site is located in the Clairemont subarea of the community.

3.5.1.1 Population

The San Diego Association of Governments (SANDAG) provides updated population/demographics and housing estimates and projections for the San Diego region annually. Since the community of Clairemont Mesa is a community planning area within the city of San Diego, the population estimates for both the community and the city are provided in this analysis. **Table 3.5-1** summarizes population trends for the community of Clairemont Mesa and the city of San

Diego from the year 2000 to 2016 and provides population projections for the next 30 years.

Table 3.5-1
Population Trends and Projections for the Community of Clairemont and City of San Diego

	2000	2010	2016	% Change 2000–2016	2020	2035	2050	% Change 2020–2050
Community of Clairemont Mesa	78,310	77,922	80,337	2.9%	81,498	86,765	94,965	16.5%
City of San Diego	1,223,400	1,301,617	1,391,676	13.8%	1,453,267	1,665,609	1,777,936	22.3%

Sources: SANDAG 2003a, 2003b, 2010a, 2010b, 2013a, 2013b, 2017a, and 2017b; City of San Diego 2019.

As shown in Table 3.5-1, the community's population has varied over the years, reflecting a decrease during the economic downturn in the late 2000s (and the job loss that took place throughout the United States and California) and its more recent current increase. The population of the community of Clairemont Mesa increased by 2,295 residents from 2000 to 2016, which represents an increase of approximately 2.9 percent (SANDAG 2003a, 2017a). As of January 1, 2016, the total population in the community of Clairemont Mesa was 80,337 residents, which is forecasted to increase to 81,498 residents by 2020 (SANDAG 2013a, SANDAG 2017a, City of San Diego 2019). SANDAG also forecasts Clairemont Mesa's population to continue to grow to over the next 30 years to a total population of 94,965 residents, which would equate to an increase of approximately 16.5 percent from 2020 levels (SANDAG 2013a).

Similar to the overall population trends for the community of Clairemont Mesa, the city of San Diego has also experienced population growth within the last 20 years. Since 2000, the city's population has increased from 1,223,400 residents to 1,391,676 residents in 2016, which represents an increase of approximately 13.8 percent (SANDAG 2003b, 2017b). The city's population is anticipated to continue to grow substantially over the next 30 years, with the city's total population anticipated to reach 1,777,936 residents by 2050, which represents an increase of approximately 22.3 percent over 2020 levels (SANDAG 2013b).

3.5.1.2 Housing

According to the City of San Diego 2018 Housing Inventory Annual Report, the City has been identified as one of the least affordable cities in the United States

(City of San Diego 2018). The report states that while the City is actively taking steps to increase housing production, the market is still not keeping up with demand, which is especially true in very-low and low-income housing, and even more so in moderate-income housing. To accommodate the city's growing population and continued economic development, housing production must meet both present and future demands. Housing is a critical component to employment retention, recruitment, and cost.

Table 3.5-2 summarizes housing trends for the community of Clairemont Mesa and the city of San Diego over roughly the last 20 years as well as provides housing projections for the next 30 years. As shown in Table 3.5-2, housing stock in the community of Clairemont Mesa increased by 171 units between 2000 and 2016, or by approximately 0.5 percent (SANDAG 2003a, 2013a). While the housing stock has gradually increased over the last 20 years, SANDAG projects, based on currently adopted plans, that the housing stock in Clairemont Mesa will increase by 5,470 units from 2020 to 2050, which represents an increase of 16.3 percent (SANDAG 2013a).

Table 3.5-2
Housing Units and Projections for the Community of Clairemont and City of San Diego

	2000	2010	2016	% Change 2000–2016	2020	2035	2050	% Change 2020–2050
Community of Clairemont	32,759	32,905	32,930	0.5%	33,490	35,234	38,960	16.3%
City of San Diego	469,689	515,412	528,114	12.4%	559,143	640,668	695,703	24.4%

Sources: SANDAG 2003a, 2003b, 2010a, 2010b, 2013a, 2013b, 2017a, and 2017b.

Similar to the housing trends in Clairemont Mesa, the city also experienced growth in the total number of housing units between 2000 and 2016. The city housing stock increased by 58,425 units or approximately 12.4 percent from 2000 to 2016 (SANDAG 2003b, 2013b). SANDAG projects that this growth trend for the city's housing stock will continue with an additional 136,560 units or an increase of approximately 24 percent from 2020 to 2050 (SANDAG 2013b).

3.5.2 Regulatory Setting

3.5.2.1 Federal

There are no applicable federal regulations related to population and housing.

3.5.2.2 State

California Government Code

State law mandates each County and City to plan for enough housing to meet projected growth in California through the preparation of a Housing Element in its General Plan. The purpose of the Housing Element is to identify the community's housing needs; state the community's goals and objectives with regard to housing production, rehabilitation, and conservation to meet those needs; and define the policies and programs that the community will implement to achieve the stated goals and objectives. The City of San Diego General Plan Housing Element 2013–2020 was adopted by the City on March 4, 2013 (City of San Diego 2013). Applicable information from the Housing Element is included below under the discussion of pertinent local regulations.

3.5.2.3 Regional

San Diego Association of Governments Regional Comprehensive Plan

SANDAG's Regional Comprehensive Plan (RCP) serves as the long-term planning framework for the San Diego region. The primary goals of the RCP are to improve the standard of living, enhance the quality of life, promote social and economic equity, and improve the region's sustainability and encourage "smart growth." Issues addressed in the RCP include urban form, transportation, housing, healthy environment, economic prosperity, public facilities, and border issues.

San Diego Association of Governments 2050 Regional Transportation Plan

SANDAG's 2050 Regional Transportation Plan/Sustainable Communities Strategy (2050 RTP/SCS) seeks to guide the San Diego region toward a more sustainable future by integrating land use, housing, and transportation planning to create communities that are more sustainable. The building blocks of the SCS include a land use pattern that accommodates our region's future employment and housing needs, and protects sensitive habitats and resource areas. The primary objective of the 2050 RTP/SCS is to increase mobility for the region's residents by providing a safe and reliable regional transportation system as well as to foster sustainable development throughout the region.

San Diego Association of Governments San Diego Forward: The Regional Plan

SANDAG's Regional Plan serves as a comprehensive planning guide, focusing on growth through the year 2050. It integrates the RCP and RTP/SCS. The RCP, adopted in 2004, provides key principles for managing the region's growth while preserving natural resources and limiting urban sprawl. The plan covers eight policy areas including urban form, transportation, housing, healthy environment,

economic prosperity, public facilities, borders, and social equity. These policy areas are addressed in the 2050 RTP/SCS and are now fully integrated into the Regional Plan. The Regional Plan establishes the importance of providing adequate housing for a growing number of people, from all income levels and at all stages of their lives, as one of the major goals for the region.

San Diego Association of Governments Series 13 Regional Growth Forecast

The SANDAG Series 13: 2050 Regional Growth Forecast serves as the foundation for the San Diego Forward: Regional Plan and other planning documents across the region. The 2050 Regional Growth Forecast includes an overview of the regional demographic, economic, and housing trends expected by 2050.

San Diego Association of Governments Regional Housing Needs Assessment 2010–2020

The California Department of Housing and Community Development (HCD) is mandated to determine the statewide housing need. In cooperation with HCD, local governments and councils of government are charged with determining a city's or region's existing and projected housing need as a share of the statewide housing need. SANDAG is responsible for preparing the Regional Housing Needs Assessment (RHNA) for the San Diego region (18 cities and the County of San Diego). SANDAG adopted the most recent RHNA in October 2011, which is for the fifth Housing Element cycle (January 2013 through December 2020) and covers an eleven-year projection period (2010 through 2020). SANDAG is currently in the process of updating their RHNA for the sixth Housing Element cycle (2021 through 2028), which is anticipated to be adopted by early 2020.The RHNA identifies housing needs for very low income, low income, moderate income, and above moderate income groups in each jurisdiction within the SANDAG region and allocates the amount of housing needed in each jurisdiction for the housing element cycle.

The current RHNA indicates that the San Diego region needs to supply an additional 161,980 housing units in the region to accommodate growth between 2010 to 2020 (SANDAG 2011). Of the total 161,980 additional housing units required in the San Diego region by 2020, the city of San Diego is responsible for providing a total of 88,096 additional housing units by 2020 (SANDAG 2011). **Table 3.5-3** summarizes the breakdown of the RHNA allocations for both the City and San Diego region.

Table 3.5-3
San Diego Region Regional Housing Needs Assessment Allocation and Progress

	Total Units	Very Low	Low	Moderate	Above Moderate
RHNA Allocation					
City of San Diego	88,096	21,977	16,703	15,462	33,954
San Diego Region	161,980	36,450	27,700	30,610	67,220
Actual Housing Production (Units) of New Construction (2010-2017)					
City of San Diego	33,159	2,009	2,401	33	28,716
Percent of RHNA Achieved	38 percent	9 percent	14 percent	0.2 percent	85 percent
Total Remaining RHNA	54,937	19,968	14,302	15,429	5,238

Sources: SANDAG 2011, City of San Diego 2018.

As shown in Table 3.5-3, of the City's allocation of 88,096 additional housing units, 21,977 housing units need to be provided for the very low income bracket, 16,703 housing units need to be provided for the low income bracket, 15,462 housing units for the moderate income bracket, and 33,954 housing units for the above moderate bracket (SANDAG 2011).[1] According to the City's 2018 Housing Inventory Annual Report, from 2010 through 2017, the City constructed a total of 33,159 housing units, including 2,009 units at the very low income bracket, 2,401 at the low income bracket, 33 at the moderate income bracket, and 28,716 at the above moderate bracket, totaling approximately 38 percent of the total RHNA allocation (City of San Diego 2018).

3.5.2.4 Local

City of San Diego General Plan

The City of San Diego General Plan Housing Element 2013-2020 was adopted by the City Council in 2013. The Housing Element serves as a policy guide to address the comprehensive housing needs of the city. The following policies related to population and housing are relevant to the proposed project.

> **Policy HE-B.5:** Emphasize the provision of affordable housing in proximity to emerging job opportunities throughout the City of San Diego. Jobs/housing linkages should be considered through the community plan

[1] Very low and low income brackets are defined by Sections 50105 and 50079.5 of the California Health and Safety Code, respectively.

update process. This desired linkage should be reflected through appropriate land use designations and zoning.

Policy HE-I.4: The City's highest housing priority shall be to provide housing for very low- and low-income families and special needs populations.

Clairemont Mesa Community Plan

The Clairemont Mesa Community Plan (CMCP) provides polices and information specific to the community planning area of Clairemont Mesa (City of San Diego 2011). The CMCP outlines various population-based improvements and goals, such as increasing recreation and parks with increased population and providing commercial uses and residential units to accommodate population growth in the community. According to the adopted CMCP, future development of the vacant residential land and redevelopment opportunities within the community could result in an addition of 1,100 dwelling units (not including mixed-use development), totaling 33,000 dwelling units or a three percent increase over the existing housing stock in the 15 years after the existing Community Plan was adopted (City of San Diego 2011). In January 2017, the City of San Diego initiated a comprehensive update to the CMCP, which is currently ongoing, and is expected to allocate more residential housing to the community.

3.5.3 Analysis of Project Effects and Determination as to Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in Appendix G of the California Environmental Quality Act (CEQA) Guidelines. Accordingly, a significant population and housing impact would occur if the project would:

Issue 1: Induce substantial unplanned population growth in an area, either directly or indirectly; or

Issue 2: Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere.

As detailed in Chapter 5.0, Other CEQA Considerations, the project would have no impact regarding Issue 2 as the project site currently does not contain any residential structures and therefore, would not displace existing residents or housing. For a brief discussion on why this issue area was not further evaluated in this section, refer to Chapter 5.0, Other CEQA Considerations, of this EIR.

3.5.3.1 Unplanned Population Growth

Issue 1: Would the project induce substantial unplanned population growth in an area, either directly or indirectly?

Impact Analysis

Community Plan Amendment and Rezone

A project has the potential to directly induce unplanned population growth through the construction of additional housing, or indirectly through the creation of new employment opportunities or the extension or expansion of residential-related infrastructure. The project's direct and indirect potential to induce population growth is described below under Issue 1.

The project includes an amendment to the CMCP and a rezone for the project site that would change the underlying land use designation and zone from C0-1-2 to RM-3-9 to allow for a future development at a maximum of 404 multifamily dwelling units (refer to Chapter 1.0, Project Description, for additional details). While a future residential development on the project site could propose less units, for the purposes of CEQA the following analysis evaluates the most conservative scenario of full buildout allowed under the amendment to the Community Plan and rezone.

According to the American Community Survey from SANDAG, the community of Clairemont Mesa had an average multi-family person per household size of 2.05 people (City of San Diego 2019). Assuming an average household size of 2.05 people, maximum buildout of 404 units allowed by the project has the potential to generate an additional 829 people in Clairemont Mesa. As shown in Table 3.5-1 above, population growth in the community of Clairemont Mesa is forecasted to increase by 16.5 percent from 81,498 residents in 2020 to 94,965 residents in 2050 (SANDAG 2013a). Of the increase of 13,467 residents anticipated in Clairemont Mesa, the 829 residents that could be generated by the project would account for approximately 6.2 percent of that projected population increase.

While the proposed project would result in population growth, this growth has already been accounted for in the City's Housing Element and SANDAG's growth projections for the Clairemont Mesa community, where the environmental impacts of such growth were analyzed under those plans' CEQA documents. Thus, the population growth associated with the proposed residential use would be well within the anticipated population growth for the community of Clairemont Mesa and would not exceed the projections on which the City and SANDAG have based plans related to the provision of public services, utilities, and other amenities to maintain the current quality of life it provides to its residents.

In addition, the future residential development that would be allowed by the project is not intended to draw new residents to the area but would rather provide an affordable housing option for residents already residing in the area. The goal of the project is to increase the affordable housing stock within the San Diego region to accommodate the existing population in accordance with the goals established by the RHNA. As shown in Table 3.5-3, as of 2017, the City has only achieved 38 percent of RHNA allocated units, including construction of only 14 percent of low-income units and less than one percent of moderate income units. The proposed project would allow for the development of low to moderate income housing units, providing the City with more housing options for existing residents already residing in the area. Therefore, proposed future residential development allowed under the project would not directly induce substantial unplanned population growth in the community of Clairemont Mesa or the City.

In order to support the proposed 404 residential units proposed for the future development, maintenance personnel and property management staff would be needed during operation of the future development. However, such a use would generate a relatively small number of employees and would not support a large employment staff. In addition, it is anticipated that the majority of the employees would be drawn from within the region's existing employment base and would not require new workers to move to the project area. Therefore, the proposed project would not draw new residents to the area looking for new employment opportunities and as such, would not indirectly induce unplanned population growth.

Site Demolition and Preparation

In conjunction with the amendment to the Community Plan and a rezone to allow for a future residential development, the project would include the demolition of the existing unoccupied buildings and related facilities on-site, disposal of the demolition debris, and mass grading of the site in preparation for future residential construction. Since this aspect of the project would not result in the construction of new housing units, this project component would not directly induce unplanned population growth. However, this project component would require construction workers necessary to implement the demolition and site preparation activities.

However, it is anticipated that construction workers would be drawn from the local and regional work force. As site demolition and preparation would occur for approximately five months, only short-term construction employment would be necessary, and it is assumed construction workers would not be required to relocate from outside the region. The City's existing seasonal and occasional housing stocks would be sufficient to house temporary construction workers, if needed, in addition to local hotel establishments. Therefore, this project component would not indirectly induce unplanned population growth in Clairemont Mesa.

In summary, the increase in residential units that would be allowed for by the project would help to meet regional and local housing demands from projected population growth in the city and the region, specifically the demand for affordable housing units. The project would not result in a substantial direct or indirect increase in population. Therefore, impacts related to unplanned population growth would be less than significant.

3.5.4 Cumulative Impact Analysis

The geographic context for the analysis of cumulative impacts associated with population and housing is the community of Clairemont Mesa. The project has the potential to generate an additional 829 residents and limited new employment opportunities in the project area. Similar to the project, other cumulative projects have the potential to generate population growth either through the construction of new housing units or by providing new employment opportunities in the area. As shown in Table 1-2, there are two cumulative development projects, Jefferson Pacific Beach and The Summit at MB – EOT, which would construct a total of 348 new residential units. Using an average household size of 2.05 persons per household, these projects would increase the population by approximately 714 residents, or 1,543 residents including the proposed project. As shown in Table 3.5-1 above, population growth in the community of Clairemont Mesa is forecast to increase by 16.5 percent from 81,498 residents in 2020 to 94,965 residents in 2050 (SANDAG 2013a). Of the increase of 13,467 residents anticipated in Clairemont Mesa, the 1,543 residents that could be generated by the project plus cumulative projects would account for approximately 11 percent of that increase. While the cumulative projects would result in population growth, this growth within the Clairemont Mesa community has already been accounted for in the City's Housing Element and SANDAG's growth projections, where the environmental impacts of such growth were analyzed under those plans' CEQA documents. Thus, the population growth associated with the cumulative projects would be well within the anticipated population growth for the community of Clairemont Mesa and would not exceed the projections on which the City and SANDAG have based plans related to the provision of public services, utilities, and other amenities to maintain the current quality of life it provides to its residents. Therefore, cumulative impacts related to population and housing would be less than significant.

3.5.5 Significance of Impacts Prior to Mitigation

Impacts related to population and housing would be less than significant.

3.5.6 Mitigation

No mitigation measures are required.

3.5.7 Conclusion

While the proposed project has the potential to increase the residential population by up to 829 residents in the project area, this growth would be well within the anticipated population growth for the community and city. In addition, the population growth would not exceed the projections within the community on which the City has based plans related to the provision of public services, utilities, and other amenities to adequately serve its residents. Furthermore, the proposed project would not induce population growth beyond what is already projected for the city. Therefore, impacts related to substantial unplanned population growth, either directly or indirectly, would be less than significant.

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3.6 Public Services

This section provides an assessment of the potential impacts related to public services that could result from implementation of the proposed project. Potential impacts addressed in this section are associated with fire protection/life safety, police protection, schools, libraries, and maintenance of public facilities, including roads. An assessment of potential impacts related to parks and recreational facilities can be found in Section 3.7, Recreation and Parks, of this EIR.

Comments related to public services received during the public comment period for the Notice of Preparation (NOP) included concerns about addressing current insufficient school capacities and the need for new or expanded schools, maintaining sufficient fire and police services and facilities with the addition of the project, and the lack of sufficient library facilities, where usage would increase with the addition of the project, in the Clairemont Mesa community. These concerns have been considered and addressed, as applicable, in the following evaluation of the project's potential to impact the City of San Diego's (City's) public services. The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

3.6.1 Existing Conditions

3.6.1.1 Fire Protection/Life Safety

In the City, the San Diego Fire-Rescue Department (SDFD) provides fire protection and emergency services to approximately 1,419,000 residents (City of San Diego 2019b). Specifically, the SDFD provides fire protection, emergency medical services (life/safety), and lifeguard protection at local beaches across their service area (City of San Diego 2019a). The SDFD employs a total of 1,300 personnel, including 892 fire personnel, 98 permanent uniformed lifeguard personnel, and 246 civilian personnel (City of San Diego 2019b). The SDFD has 52 fire stations and 9 permanent lifeguard stations with up to 31 seasonal lifeguard stations during peak periods. SDFD responded to a total of 159,590 emergency calls in fiscal year 2017, including 113,601 emergency medical responses (71.2 percent of responses), 12,577 urgent medical responses (7.9 percent), 11,385 hazard responses (7.1 percent), and 6,105 fire emergencies (3.8 percent) (City of San Diego 2019b).

The project site is served by Fire Station 36, located at 5855 Chateau Drive, approximately one mile east of the project site. Station 36 serves approximately 5.3 square miles in East Clairemont and its surrounding areas. Station 36 is equipped with a fire engine and paramedic unit. In 2018, Station 36 responded to a total of 2,889 emergency calls, including 1,995 medical emergencies (69 percent), 248 fire emergencies (8.6 percent), 182 hazard emergencies (6.3 percent), and 22 rescue emergencies (0.8 percent) (City of San Diego

2019c). The next closest fire station is Fire Station 37, located approximately 1.5 miles northwest of the project site at 5064 Clairemont Drive, which is equipped with a fire engine.

In addition to the fire protection and life safety services provided by the SDFD, emergency medical services are also provided throughout the City, including the project site, through a public/private partnership between the City's Emergency Medical Services (EMS) and the Rural Metro Corporation (ambulance service). EMS has ambulances, paramedics, and emergency medical technicians who respond to emergency calls. As stated above, Fire Station 36 houses a paramedic unit. All fire department engines and trucks are full Advanced Life Support units and are equipped and capable of managing medical emergencies.

The City's General Plan has a goal for fire protection and life safety first responders to arrive within 7.5 minutes to treat medical patients and control small fires 90 percent of the time. In 2018, the SDFD and EMS were able to meet the 7.5-minute response time standard 74 percent of the time (City of San Diego 2019a). In addition, to provide an effective response force for serious emergencies, a multiple-unit response of at least 17 personnel should arrive within 10.5 minutes from the time of 911-call receipt in fire dispatch 90 percent of the time (City of San Diego 2018a). In 2018, the SDFD and EMS were able to meet the 10.5-minute response time standard 82 percent of the time (City of San Diego 2019a).

3.6.1.2 Police Protection

The San Diego Police Department (SDPD) provides police services throughout the city, where services include patrol, traffic, investigative, records, laboratory, and support services. The SDPD is divided into nine divisions, and of April 2019, included 1,773 sworn police officers (City of San Diego 2019h). The project site is served by the Northern Division located at 4275 Eastgate Mall, approximately 4.8 miles north of the project site (City of San Diego 2019h). The Northern Division serves a 41.3 square mile area with a combined service population of 225,234 people. A total of 139 sworn officers are currently assigned to the Northern Division (City of San Diego 2019h).

The SDPD currently uses a five-level priority dispatch system, which includes in descending order of importance: priority E (Emergency), One, Two, Three, and Four. The calls are prioritized by the phone dispatcher and routed to the radio operator for dispatch to the field units. The priority system is designed as a guide, allowing the phone dispatcher and the radio dispatcher discretion to raise or lower the priority as necessary based on information received. In 2017, the SDPD responded to Priority E calls within 6.9 minutes, which was under the established target of 7.0 minutes; Priority 1 calls within 16.3 minutes, which was over the established target of 14.0 minutes; Priority 2 calls within 43.7 minutes,

which was over the established target of 27.0 minutes; Priority 3 calls within 102.6 minutes, which was over the established target of 80.0 minutes; and Priority 4 calls within 151 minutes, which was over the established target of 90.0 minutes (City of San Diego 2019e). The response times in 2016 for Beat 112, where the project is located within the Northern Division, in minutes were: Priority E calls within 8.1 minutes; Priority 1 calls within 20.6 minutes; Priority 2 calls within 50.3 minutes; Priority 3 calls within 91.1 minutes; and Priority 4 calls within 279.7 minutes (City of San Diego 2019h).

3.6.1.3 Schools

The project site is located within the San Diego Unified School District (SDUSD), which serves over 130,000 students ranging from preschool through grade 12 in 226 educational facilities with approximately 13,560 staff (City of San Diego 2018c). The project site is located within the SDUSD attendance boundaries of Holmes Elementary School, Marston Middle School, and Clairemont High School (SDUSD 2019). **Table 3.6-1** identifies the address, capacity, and enrollment at each of these schools. Other SDUSD schools located in the vicinity include Lafayette, Cadman, Sequoia and Field Elementary Schools, Montgomery and Innovation Middle Schools, Madison High School, Empower and Kavod Charter Schools, and roughly half a dozen other SDUSD facilities.

Table 3.6-1
SDUSD Schools Serving the Project Site

School	Address	Grades	Estimated Program Capacity*	2017-18 Enrollment	2018-19 Enrollment	2019-20 Projected Enrollment
Holmes Elementary	4902 Mount Ararat Dr.	K-5	At capacity	586	560	559
Marston Middle	3799 Clairemont Dr.	6-8	1,184	663	670	693
Clairemont High	4150 Ute Dr.	9-12	1,404	921	920	896

* According to SDUSD, capacities are approximate and calculated using current class size ratios; if class sizes ratios change, additional or less capacity may be available. Homes Elementary is currently operating at full capacity.

SOURCE: SDUSD 2019.

3.6.1.4 Libraries

Library facilities are provided throughout the city by the San Diego Public Library (SDPL) system. The SDPL system serves a population of over 1.3 million residents in the city over an area of 342 square miles (City of San Diego 2019f). The library system consists of the Central Library, 35 branch libraries, and an adult literacy program. The SDPL system receives more than 6 million visitors

per year and has more than 5.0 million items, including e-books and audio visual materials, 3,136 periodical subscriptions, 1.9 million government documents, and more than 250,000 books in 25 languages other than English (City of San Diego 2019f).

There are three SDPL branch libraries in the Clairemont Mesa community. These include: the 5,092 square foot Balboa Branch located on Mount Abernathy Avenue, approximately 1.0 mile east of the project site; the North Clairemont Branch located on Clairemont Drive, approximately 1.4 miles northwest of the project site; and the 4,437 square foot Clairemont Branch located on Burgener Boulevard, approximately 2.3 miles northwest of the project site. The Balboa, North Clairemont and Clairemont Branches have 33,400 volumes, 24,700 volumes, and 28,900 volumes, respectively (City of San Diego 2011).

According to the Clairemont Mesa Community Plan (CMCP), branch libraries are intended to serve about 30,000 residents and should have a maximum service area radius of two miles. In addition to the above standards, branch libraries should have an eventual capacity of 4.4 volumes per square foot of floor area. All three branch libraries currently meet these standards. The CMCP recommends that the Balboa and Clairemont Branches be expanded, based on an increase in the circulation of books from the community (City of San Diego 2011). In 2002, the City Council approved a program to build or improve 24 libraries throughout San Diego, including the Balboa branch, however funding for this project has not yet been identified (City of San Diego 2019k).

3.6.2 Regulatory Setting

3.6.2.1 Federal

There are no applicable federal regulations related to public services.

3.6.2.2 State

California Fire Code

The California Fire Code (Title 24, Part 9 of the California Code of Regulations) establishes regulations to safeguard life and property against hazards of fire, explosion, or dangerous conditions in new and existing buildings, structures, and premises. The Fire Code also establishes requirements intended to provide safety and assistance to firefighters and emergency responders during emergency operations. The provisions of the Fire Code apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal, and demolition of every building or structure throughout the State of California. The Fire Code includes regulations regarding fire-resistance-rated construction, fire protection systems such as

alarm and sprinkler systems, fire services features, such as fire apparatus access roads, means of egress, fire safety during construction and demolition, and wildland-urban interface areas. Stairwells associated with parking structures are also required to include fire doors ("Opening Protectives") (California Fire Code Sections 7703.2, 909.5.2, 1022.2). The California Fire Code has been adopted by the City of San Diego in Municipal Code (SDMC), Chapter 5.

California Health and Safety Code

Additional fire regulations are set forth in Sections 13000 et seq. of the California Health and Safety Code, which include regulations for building standards (including high-rise buildings and childcare facilities), fire protection and notification systems, fire protection devices such as extinguishers and smoke alarms, and fire suppression training.

California Occupational Safety and Health Administration

In accordance with the California Code of Regulations, Title 8 Sections 1270 "Fire Prevention" and 6773 "Fire Protection and Fire Fighting Equipment," the California Division of Occupational Safety and Health Administration (Cal/OSHA) has established minimum standards for fire suppression and emergency medical services. The standards include, but are not limited to, guidelines on the handling of highly combustible materials, fire house sizing requirements, restrictions on the use of compressed air, access roads, and the testing, maintenance, and use of all firefighting and emergency medical equipment.

California State Assembly Bill 2926: School Facilities Act of 1986

In 1986, Assembly Bill (AB) 2926 was enacted to authorize the levy of statutory fees on new residential and commercial/industrial development to pay for school facilities. AB 2926 was expanded and revised in 1987 through the passage of AB 1600, which added Sections 66000 et seq. to the Government Code. Under this statute, payment of statutory fees by developers serves as California Environmental Quality Act (CEQA) mitigation to satisfy the impact of development on school facilities.

Senate Bill 50

The passage of Senate Bill (SB) 50 in 1998 defined the needs analysis process that is codified in Government Code Sections 65995.5 through 65998. Under the provisions of SB 50, school districts may collect fees to offset the costs associated with increasing school capacity as a result of development. Level I fees are assessed based upon the proposed square footage of residential, commercial/industrial, and/or parking structure uses. Level II fees require the developer to provide one-half of the costs of accommodating students in new

schools, and the state provides the other half. Level III fees require the developer to pay the full cost of accommodating the students in new schools and are implemented at the time the funds available from Proposition 1A (approved by the voters in 1998) are expended. School districts must demonstrate to the State that their long-term facilities needs and costs are based on long-term population growth in order to qualify for this source of funding.

The SDUSD levies the current State Allocation Board Level I fees. The SDUSD requires a developer fee per square foot of assessable space of new residential construction or additions of 500 square feet or more (SDUSD 2019).

Mitigation Fee Act

California Government Code Sections 66000-66025, also known as the Mitigation Fee Act, provides the requirements for development impact fee programs. A development impact fee is a monetary exaction other than a tax or special assessment that is charged by the City to an applicant in connection with approval of a development project for the purpose of defraying all or a portion of the cost of public facilities related to the development project.

3.6.2.3 Local

City of San Diego General Plan

The Public Facilities, Services, and Safety Element of the General Plan identifies a number of policies intended to ensure adequate public services are available to serve future development.

PF-D.1. Locate, staff, and equip fire stations to meet established response times as follows:

1. To treat medical patients and control small fires, the first-due unit should arrive within 7.5 minutes, 90 percent of the time from the receipt of the 911 call in fire dispatch. This equates to 1-minute dispatch time, 1.5-minute company turnout time, and 5-minute drive time in the most populated areas.
2. To provide an effective response force for serious emergencies, a multiple-unit response of at least 17 personnel should arrive within 10.5 minutes from the time of 911 call receipt in fire dispatch, 90 percent of the time.
    - This response is designed to confine fires near the room of origin, to stop wildland fires to under 3 acres when noticed promptly, and to treat up to 5 medical patients at once.

- This equates to 1-minute dispatch time, 1.5-minute company turnout time, and 8- minute drive time spacing for multiple units in the most populated areas.

PF-E.2. Maintain average response time goals as development and population growth occurs. Average response time guidelines include: Priority E Calls (imminent threat to life) within 7 minutes; Priority 1 Calls (serious crimes in progress) within 12 minutes; Priority 2 Calls (less serious crimes with no threat to life) within 30 minutes; Priority 3 Calls (minor crimes/requests that are not urgent) within 90 minutes; and Priority 4 Calls (minor requests for police service) within 90 minutes.

Clairemont Mesa Community Plan

The CMCP identifies three objectives for population-based parks including:

1. Ensure the use of school playgrounds and other recreational facilities for public use after school hours.
2. Continue to upgrade and modernize park and recreational facilities within the community.
3. Increase recreational opportunities in new residential and commercial development.

The CMCP provides the following recommendation for private recreational facilities:

Residential development projects should be required to provide on-site private recreational facilities in order to prevent overcrowded conditions of park facilities in the future.

- Residential development projects subject to discretionary permit review such as a Planned Residential Development permit, should include recreational facilities, such as lawns, recreation rooms, tennis courts and swimming pools.
- Private or public recreational facilities, such as tennis clubs and health spas and shower facilities should be included in commercial development projects, whenever possible.

City of San Diego Municipal Code

The SDMC contains the ordinances and regulations for the City, including provisions from the 2013 California Fire Code (SDMC Section 5-55.0101), General Rules for Land Development Review (SDMC Section 12), and Fire Permit Procedures (SDMC Section 12-129.0902).

3.6.3 Analysis of Project Effects and Determination as to Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in the City of San Diego's CEQA Significance Determination Thresholds (City of San Diego 2016). Accordingly, a significant public services impact would occur if the project would:

> Issue 1: Have an effect upon, or result in a need for, new or altered governmental services to:
>
> 1. Fire protection/Life Safety
> 2. Police protection
> 3. Schools
> 4. Parks/Recreational Facilities
> 5. Libraries
> 6. Maintenance of public facilities, including roads.

The above governmental services would be considered to have an impact if there is a physical impact associated with the construction and operation of new or altered governmental facilities. Impacts are not related to changes in service times, response ratios, or performance objectives.

The below analysis only discusses the future development of the project site under the CPA and rezone of the project site. Site demolition and preparation activities (including the demolition of the existing buildings and related facilities) would not result in impacts to governmental services. As discussed in detail in Section 3.5, Population and Housing, this project component does not have the potential to result in permanent population growth, and, as such, does not have the potential to increase the need for governmental services to the extent that would require the construction of new facilities. Therefore, site demolition and preparation activities are not discussed further in this section.

Impacts related to the need for new or altered parks and recreational facilities are discussed in Section 3.7, Recreation and Parks, of this EIR.

3.6.3.1 Fire Protection/Life Safety

Issue 1a: Would the proposed project have an effect upon, or result in a need for new or altered governmental services to fire protection/life safety?

Impact Analysis

Community Plan Amendment and Rezone

Currently, the project site contains the former San Diego County Regional Crime Lab facility, which is non-operational and vacant and as such, generates minimal demand for fire protection and life safety services. The project includes an amendment to the Clairemont Community Plan and a rezone that would allow for a future development on the project site, including a maximum of 404 multifamily residential units. While the future development could propose a reduced number of units, for the purposes of CEQA the following analysis evaluates the worst-case scenario of full buildout allowed under the amendments to the Community Plan and rezone of the project site.

According to the American Community Survey from the San Diego Association of Governments (SANDAG), the community of Clairemont Mesa had an average multi-family person per household size of 2.05 people (City of San Diego 2019). Assuming an average household size of 2.05 people, maximum buildout of 404 units allowed by the project would have the potential to generate an additional 829 residents in the Clairemont Mesa community. These additional residents would create a net increase in demand for fire protection and life safety services from the SDFD Fire Stations 36 and 37, which could result in potentially significant impacts to fire protection and life safety services.

However, while the project would allow for a future residential development that could generate up to an additional 829 residents in the community, implementation of the project would not result in a substantial increase in calls for fire protection and life safety service for several reasons. First, while the project would allow for the conversion of the site from commercial office uses to residential uses, the project site is currently served by SDFD and EMS as the site is contained within their service area. While the SDFD is currently not meeting the City's response time standards, the site is already being served by the SDFD and EMS, and project implementation would not expand the SDFD and EMS service area boundaries or increase the amount of urban land requiring fire protection and life safety services.

Additionally, the future applicant for the residential development would be required to pay the most current City development impact fees related to fire protection service and facilities prior to the issuance of a building permit. Payment of the development impact fees would be based off the total number of

units proposed for the future residential development and would ensure that the future residential project contributes its fair-share contribution to provide funding for the SDFD and associated facilities.

Lastly, the residential development would be required to be designed to comply with all applicable fire safety standards, including those contained in the California Building Code and Fire Code, which require features such as fire suppression sprinklers, fire alarms, onsite fire hydrants, and ensuring adequate emergency access. Compliance with to the latest Fire Code and Building Code fire safety standards would minimize the risk of fire hazards and emergency events at the project site.

Therefore, the proposed project would not result in substantial adverse physical impacts associated with the need for new or physically altered governmental facilities in order to maintain acceptable service ratios, response times, or other performance objectives for any fire protection or life safety service agencies. As such, the impacts would be less than significant.

3.6.3.2 Police Protection

Issue 1b: Would the proposed project have an effect upon, or result in a need for new or altered governmental services to police protection?

Impact Analysis

Community Plan Amendment and Rezone

As stated above, the project site is served by SDPD's Northern Division located at 4275 Eastgate Mall, approximately 4.8 miles north of the project site (City of San Diego 2019h). Additional police protection services are provided by the Police Community Relations Office located at 4439 Olney Street, approximately 2.9 miles southwest of the project site.

Similar to the analysis provided above for Issue 1a, the future residential development allowed by the project has the potential to generate up to an additional 829 residents in the Clairemont Mesa community, which would increase demand on the SDPD. However, the project site is contained in the SDPD service area, where police protection services are already being provided to the site. Because the site is already being served by the SDPD, project implementation would not expand the service area boundaries or increase the amount of urban land requiring police protection services. Moreover, while the project would allow for a different type of land use on the project site, the change in land use and higher density of the residential development is not anticipated to substantially increase calls for police protection services to the extent that necessitate the construction of new police facilities.

In addition, the future applicant of the residential development would be required to pay the most current City development impact fees prior to issuance of a building permit. Payment of the development impact fees are to ensure that adequate funding is provided to SDPD to support the project. Furthermore, the residential development would include security features, such as onsite security and sufficient emergency access.

The SDPD would review future development plans as part of their Crime Prevention Through Environmental Design (CPTED) review process to identify potential crime and disorder threats and suggest related design changes prior to project construction. CPTED guidelines include the review and evaluation of common design elements such as streets and sidewalks, building façades and access, public facilities, parking areas, landscaping, fencing and gates, loading and unloading docks, and emergency access. Implementation of CPTED design features would also reduce the project's demands for police services.

Therefore, the proposed project would not result in substantial adverse physical impacts associated with the need for new or physically altered governmental facilities in order to maintain acceptable service ratios, response times, or other performance objectives for any police protection services. Impacts would be less than significant.

3.6.3.3 Schools

Issue 1c: Would the proposed project have an effect upon, or result in a need for new or altered governmental services to schools?

Impact Analysis

Community Plan Amendment and Rezone

The proposed project would allow for a future residential development with a maximum of 404 units on the project site, which would have the potential to generate new students and service demand from SDUSD. The future development would include 254 family affordable units and 150 senior residential units. The 150 senior units are excluded from this analysis, as school-age children would not be permitted to live in the units. Student generation rates vary based on the type of project, number of units, bedroom mix, neighborhood, perceived quality of assigned schools, and other factors. There are no district standard student generation rates – student generation rates for the proposed project were based on SDUSD-identified student generation rates from similar residential developments in the vicinity of the proposed project (SDUSD 2019).

Estimated student increases for the proposed project are shown in **Table 3.6-2**. As indicated therein, the project would generate between 167 and 335 students

requiring seats at SDUSD schools, including between 92 and 184 grade K-5 students, between 34 and 69 grades 6-9 students, and between 41 and 82 grades 9-12 students.

Table 3.6-2
Estimated Project Student Generation

School Level	Estimated Program Capacity*	2019-20 Projected Enrollment	Generation Rate (Student per Dwelling Unit)	Total Estimated Students Generated by Proposed Project (404 Dwelling Units)
K through 5	At capacity	559	0.363-0.726	92-184
6 through 8	1,184	693	0.135-0.271	34-69
9 through 12	1,404	896	0.161-0.321	41-82
Total	**--**	**--**	**0.659-1.318**	**167-335**

* According to SDUSD, capacities are approximate and calculated using current class size ratios; if class sizes ratios change, additional or less capacity may be available. Homes Elementary is currently operating at full capacity.

SOURCE: SDUSD 2019.

As shown in Table 3.6-2, there is more than adequate capacity at Marston Middle School and Clairemont High School to accommodate the grades 6 through 8 and grades 9 through 12 students that would be generated by the proposed project. Furthermore, while Table 3.6-1 indicates that Holmes Elementary is currently at capacity, SDUSD has indicated that the students that would be generated by the project can likely be accommodated by existing district facilities at all levels, although elementary school students may need to be redirected to a school other than Holmes Elementary, depending on enrollment and capacity status at the future time when the development is occupied by students (SDUSD 2019). According to SDUSD, other nearby elementary schools in the Clairemont Mesa community would likely have sufficient capacity to house the projected number of K through 5 students, should capacity at Holmes Elementary not be available.

Furthermore, the need for additional school facilities associated with new development is addressed through compliance with school impact fee assessment. SB 50 (Chapter 407 of Statutes of 1998) sets forth a state school facilities construction program that includes restrictions on a local jurisdiction's ability to condition a project on mitigation of a project's impacts on school facilities in excess of fees set forth in the Government Code. These fees are collected at the time of issuance of building permits for commercial, industrial, and residential projects. Pursuant to Government Code Section 65995, the applicant would be required to pay developer fees directly to SDUSD prior to the issuance of a building permit for the future development. SDUSD would be responsible for any potential expansion or development of new facilities, which

would undergo a separate environmental review when specific facilities are planned. Payment of these fees provides full and complete mitigation of school impacts associated with new development.

Therefore, the proposed project would not result in substantial adverse physical impacts associated with the need for new or physically altered governmental facilities in order to maintain acceptable service levels for area schools. As such, the impacts would be less than significant.

3.6.3.4 Libraries

Issue 1d: Would the proposed project have an effect upon, or result in a need for new or altered governmental services to libraries?

Impact Analysis

Community Plan Amendment and Rezone

As indicated previously, the project site is served by the SDPL system, which includes the Central Library and 35 branch libraries citywide. Three SDPL branch libraries are located within 2.3 miles of the project site, including the Balboa, North Clairemont, and Clairemont Branches. According to the CMCP, branch libraries are intended to serve about 30,000 residents and should have a maximum service area radius of 2 miles. Branch libraries should have an eventual capacity of 4.4 volumes per square foot of floor area. All three branch libraries in the Clairemont Mesa community currently meet these standards.

The future development allowed by the project has the potential to generate up to an additional 829 residents in the Clairemont Mesa community, which would increase the demand for library services from the SDPL system, especially at the three closest SDPL libraries and at the SDPL Central Library. The future applicant for the residential development would be required to pay the most current City development impact fees related to library facilities prior to issuance of a building permit. Payment of the development impact fees are to ensure that adequate funding is provided to ensure library facilities are provided in the community with the addition of the project. Therefore, with payment of the applicable development impact fees, the project would not significantly impact the SDPL system, especially the library branches located in the Clairemont Mesa community.

In addition, the need to expand a library is based on an increase in the circulation of books from the community. The CMCP recommends that the Balboa and Clairemont Branches be expanded (City of San Diego 2011). In 2002, the City Council approved a program to build or improve 24 libraries throughout San Diego, including the Balboa branch, however funding for this project has not yet been identified (City of San Diego 2019k). The City is responsible for either

expanding existing library facilities or planning and constructing new library facilities, which would be required to undergo a separate environmental review when specific facilities are planned. On a project-by-project basis, payment of the development impact fees provides full and complete mitigation of library impacts associated with new development.

Therefore, the proposed project would not result in substantial adverse physical impacts associated with the need for new or physically altered governmental facilities in order to maintain acceptable service levels for area libraries. As such, the impacts would be less than significant.

3.6.3.5 Maintenance of Public Facilities

Issue 1e: Would the proposed project have an effect upon, or result in a need for new or altered governmental services related to maintenance of public facilities, including roads?

Impact Analysis

Community Plan Amendment and Rezone

The design of any future road improvements would be reviewed and approved by the City prior to issuance of a building permit, and the future applicant would be required to pay all applicable fees to the City for maintenance and improvement of public facilities, including roads (City of San Diego 2019j). No other public facility needs or deficiencies have been identified as a result of the project. Therefore, the proposed project would not result in substantial adverse physical impacts associated with the need for new or physically altered governmental facilities related to maintenance of public facilities, including roads. As such, impacts related to the maintenance of public facilities would be less than significant.

3.6.4 Cumulative Impact Analysis

The geographic context for the analysis of cumulative impacts related to public services is the city of San Diego. Implementation of the proposed project in combination with cumulative development in the city could result in an increased demand for public services. However, the City has established a fee structure for all future and cumulative projects to ensure that the City can continue to provide public services and can strive to maintain established service ratios, response times, and other performance objectives for fire and police protection, schools, and other public facilities with future population growth envisioned under the General Plan. These fees allow the City to have a source of funding available to provide new or additional facilities necessary to achieve and maintain adequate public service provisions as development occurs within an area. Therefore, the project's contribution to cumulative impacts associated with fire protection, police

protection, parks and recreational facilities, libraries, and school would be less than significant.

3.6.5 Significance of Impacts Prior to Mitigation

Impacts related to public services would be less than significant.

3.6.6 Mitigation

No mitigation measures are required.

3.6.7 Conclusion

The proposed project would comply with the City's development impact fee structure related to public services, which would mitigate the project's impacts on existing fire protection, life safety, and police services, libraries, schools, and other public facilities. Payment of all applicable fees would ensure that impacts to public services would be less than significant.

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3.7 Recreation and Parks

This section provides an assessment of potential impacts related to recreation and parks and recreational facilities that could result from project implementation. Potential impacts addressed in this section include increased use of existing recreational facilities and the need for the expansion of existing or the construction of new recreational facilities that may be necessary as a result of implementation of the proposed project.

Comments related to recreation and recreational facilities received during the public comment period for the Notice of Preparation (NOP) included concerns regarding ensuring adequate park acreage to accommodate the increase in population and addressing the lack of amenities in the Clairemont Mesa community within the city of San Diego. These concerns have been considered and addressed, as applicable, in the following evaluation of the project's potential to impact recreational facilities. The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

3.7.1 Existing Conditions

The project site is owned by the County of San Diego (County) but is located entirely in the city of San Diego. The project site is currently developed with the former San Diego County Regional Crime Lab facility and associated parking and landscaping. There are no onsite recreational amenities. Recreational facilities in the vicinity of the project site are owned and operated by the city, as described in greater detail below.

3.7.1.1 Existing Parks and Recreational Facilities

The City has over 42,000 acres of park and open space lands that offer a diverse range of recreation opportunities. The community is served by 22 recreational amenities, which include 6 community parks, 7 neighborhood parks, 5 joint use parks at school sites, 3 recreation centers and 1 aquatic complex or swimming pool (City of San Diego 2019). **Table 3.7-1** lists the parks in the Clairemont Mesa community and provides the approximate distance from the project site.

The total acreage of these 22 recreational facilities is approximately 129 acres. The Play All Day Parks Program is a new initiative (2016) between the City and San Diego Unified School District to expand the existing joint-use park program by adding over 45 new joint-use parks throughout the city, including schools located in the Clairemont Mesa community. In the Clairemont Mesa community, a Play All Day joint use park at the Creative Performing and Media Arts Middle school has already been built and is open to the public and an additional 10 new Play All Day joint-use fields are planned (City of San Diego 2019).

Table 3.7-1
Parks and Recreational Facilities in the Clairemont Mesa Community

Park	Location	Size (acres)	Distance from Project site (miles)
Non Population-Based Parks			
Regional Parks			
Marian Bear Memorial Park	5544 Regents Road	467	2.3
Tecolote Canyon Natural Park	5180 Tecolote Road	903	3.2
Mission Bay Park		4,235	2.2
Population-Based Parks			
Joint-Use Parks (Schools)			
Field Elementary Joint-Use	4375 Bannock Avenue	3.35	1.2
Marston Junior High Joint-Use	3799 Clairemont Avenue	2.90	1.2
Cadman Elementary Joint-Use	4370 Kamloop Avenue	3.16	1.9
Alcott Elementary Joint-Use	4680 Hildalgo Avenue	6.11	2.3
Creative Performing and Media Arts Middle Joint-Use	5050 Conrad Avenue	8.0	1.0
Community Parks			
Olive Grove Community Park	6075 Printwood Way	9.18	0.75
North Clairemont Community Park	4421 Bannock Avenue	14.50	1.1
South Clairemont Community Park	3605 Clairemont Drive	9.7	1.4
Cadman Community Park	4280 Avati Drive	8.4	1.8
Hickman Field[1]		33.92	1.4
Tecolote Community Park[2]		1.26	3.2
Neighborhood			
Mount Etna Neighborhood Park	4741 Mount Etna Drive	3.23	0.45
Mount Acadia Neighborhood Park	3865 Mount Acadia Boulevard	5.61	0.60
East Clairemont Athletic Area and Park	3451 Mount Acadia Boulevard	6.99	1.2
Lindbergh Neighborhood Park	4141 Ashford Street	7.98	1.2
MacDowell Neighborhood Park	5183 Arvinels Way	2.31	1.5
Gershwin Neighborhood Park	3508 Conrad Avenue	4.10	1.9
Western Hills Neighborhood Park	4810 Kane Street	6.35	2.5
Total Parkland Acres for the City's Parkland Standard (Population-Based Parks)		**128.87**	

1 Hickman Field (46.51 acres total) is shared with the Clairemont Mesa community (33.92 acres), Serra Mesa community (9.16 acres) and Kearny Mesa community (3.43 acres)

2 Tecolote Community Park (19.67 acres total) is shared with the Clairemont Mesa community (1.26 acres) and Linda Vista community (18.41 acres)

SOURCE: City of San Diego 2011, City of San Diego 2019.

In addition to community, neighborhood, and joint-use parks, there are three regional parks located in the Clairemont Mesa community: Tecolote Canyon Natural Park, Marian Bear Memorial Park, and Mission Bay Park. Tecolote Canyon Natural Park and its associated Nature Center is located approximately three miles southwest of the project site, with a portion of the open-space canyon as close as 500 feet west of the project site. Tecolote Canyon Natural Park consists of approximately 903 acres that bisect the community (City of San Diego 2011). The park has approximately 6.5 miles of trails for jogging, walking and mountain biking and the Tecolote Nature Center with exhibits on animal and plant life of the canyon. Marian Bear Memorial Park is located approximately 1.9 miles north of the project site and consists of approximately 467 acres that spans the northern community boundary from Interstate 5 (I-5) to Interstate 805 (I-805). The park contains a number of trails that are accessible from public roads and the community. Mission Bay Park is located approximately 2.2 miles southwest of the project site and consists of over 4,235 acres in roughly equal parts land and water. Mission Bay Park includes 27 miles of shoreline, offers boat docks and launching facilities, biking and walking paths, basketball courts, and playgrounds.

As shown in Table 3.7-1, the nearest public recreational facility to the project site is Mount Etna Neighborhood Park, which is located approximately 0.45 miles northwest of the project site. This park includes picnic benches, green space, a playground, and three baseball fields. Additionally, Mount Acadia Neighborhood Park is located approximately 0.6 miles south of the project site. This park includes restrooms, green space, picnic benches, a playground, and two baseball fields. In addition, Olive Grove Park is located approximately 0.75 miles northeast of the project site (City of San Diego 2011; City of San Diego 2019).

The City's General Plan guidelines recommend a public park of 2.8 acres for every 1,000 residents, a recreation center for every 25,000 residents, and a community swimming pool for every 50,000 residents (City of San Diego 2008). As of 2017, the Clairemont Mesa community had a reported household population of 80,337 residents, which would require approximately 225 acres of parkland, 3 recreation centers, and 2 swimming pools to meet the City's standard (SANDAG 2017). The community is currently served by 3 recreation centers, meeting this City standard; however, there is currently one swimming pool serving the community, creating a deficiency by one swimming pool. Based on the acreages of the qualifying parks provided in Table 3.7-1, the City is currently providing approximately 129 acres of parkland within the Clairemont Mesa community, which does not satisfy the City's parkland standard, as there is a deficit of approximately 96 acres of parkland in the community.

3.7.2 Regulatory Setting

3.7.2.1 Federal

There are no applicable federal regulations related to recreation.

3.7.2.2 State

Mitigation Fee Act

California Government Code Sections 66000-66025, also known as the Mitigation Fee Act, provides the requirements for development impact fee programs. A development impact fee is a monetary exaction other than a tax or special assessment that is charged by the City to an applicant in connection with approval of a development project for the purpose of defraying all or a portion of the cost of public facilities related to the development project.

3.7.2.3 Local

City of San Diego General Plan

The City's General Plan provides the long-range planning vision for the city and the Recreation Element provides goals and policies specific to the City's existing and planned recreational resources. The goals and policies of the Recreation Element have been developed to take advantage of the City's natural environment and resources, to build upon existing recreational facilities and services, to help achieve an equitable balance of recreational resources, and to adapt to future recreation needs of residents. The Recreation Element goals and policies applicable to the project include the following:

> RE-A.8. Provide population-based parks at a minimum ratio of 2.8 useable acres per 1,000 residents.
>
> a. All park types within the Population-based Park Category could satisfy population-based park requirements.
>
> b. The allowable amount of useable acres exceeding two percent grade at any given park site would be determined on a case-by-case basis by the City.
>
> c. Include military family housing populations when calculating population-based park requirements.
>
> d. Ensure that parks are located adjacent to a public right-of-way
>
> e. All parks to be designed and constructed consistent with the "Consultant's Guide to Park Design & Development."

RE-A.15. Ensure that adequate funding is identified in public facilities financing plans for the acquisition and development of sufficient land necessary to achieve a minimum ratio of 2.8 useable acres per 1,000 residents or appropriate equivalencies, including any unmet existing/future needs.

RE-A.17. Ensure that all development impact fees and assessments collected for the acquisition and development of population-based parks and recreation facilities be used for appropriate purposes in a timely manner.

Clairemont Mesa Community Plan

The Clairemont Mesa Community Plan (CMCP) provides polices and information specific to the community planning area of Clairemont Mesa within the city. Specific to population-based parks and recreation, the CMCP establishes a goal to provide a system of parks and recreational facilities to meet the recreational needs of the entire community in conformance with the Progress Guide and General Plan standards. Recommendations to achieve this goal, include maintenance, development of a long-term refurbishment program for park facilities, joint use agreements with San Diego Unified School District, as well as the development of turfed multi-purpose ball fields on school sites.

3.7.3 Analysis of Project Effects and Determination as to Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in Appendix G of the California Environmental Quality Act (CEQA) Guidelines. Accordingly, a significant recreation impact would occur if the project would:

Issue 1: Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated;

Issue 2: Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment; or

Issue 3: Have an effect upon, or result in a need for, new or altered governmental services to parks and recreational facilities.

3.7.3.1 Deterioration of Existing Recreational Facilities

Issue 1: Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Issue 3: Would the project have an effect upon, or result in a need for, new or altered governmental services to parks and recreational facilities?

Impact Analysis

Community Plan Amendment and Rezone

As stated above, the Recreation Element of the City's General Plan establishes a parkland standard of 2.8 acres for every 1,000 residents, a recreation center for every 25,000 residents, and a community swimming pool for every 50,000 residents (City of San Diego 2008). As of 2017, the population in Clairemont Mesa was 80,337 residents, which would require approximately 225 acres of parkland, 3 recreational centers, and two pools to meet the City's standard. As detailed above, the community is currently served by 3 recreation centers, meeting this City standard; however, there is currently one swimming pool serving the community, creating a deficiency by one swimming pool. Based on the acreages of the qualifying parks provided in Table 3.7-1, there are approximately 129 acres of parks located within the Clairemont Mesa community, which is approximately 96 acres below the City's goal of providing 2.8 acres of parkland per 1,000 residents. Thus, the City is currently not meeting its parkland or recreation standard in the Clairemont Mesa community.

The project includes an amendment to the CMCP and a rezone the project site that would allow for a future development on the project site, which would allow for a change in the type of use on the project site (and the rezone and additional units would be incorporated into the current Community Plan Update analysis). The amendment to the CMCP and rezone of the project site would allow for a future development with a maximum of 404 units. While the future proposed development could propose less units, for the purposes of CEQA, the following analysis evaluates the worst-case scenario of full buildout allowed under the amendments to the CMCP and rezone.

According to the San Diego Association of Governments (SANDAG) American Community Survey, the community of Clairemont Mesa had an average number of multi-family persons per household size of 2.05 people in 2017 (City of San Diego 2019). Assuming an average household size of 2.05 people, the maximum buildout of 404 units allowed by the project would have the potential to generate an additional 829 people in the Clairemont Mesa community, as discussed in Section 3.5, Population and Housing, of this EIR. The addition of these 829

residents would result in an increase in the demand on existing recreational amenities within the community, which could result in a potentially significant impact to existing recreational facilities and parks.

With all residential development, the City requires developers to satisfy one of the following three options in order to accommodate recreational needs generated by future development within the city: (1) pay the City's established parks development impact fee; (2) pay a portion of the parks development impact fee and provide dedicated parkland; or (3) provide dedicated parkland and pay the recreation center and aquatic complex portion of the development impact fee. Because the project has the potential to generate an additional 829 residents with development of the future residential building, the future developer would be required to either provide approximately 2.32 acres of parkland to accommodate the new residents or pay the applicable recreation and parks development impact fees to the City prior to issuance of a building permit. The actual amount the future developer would have to pay for the park development impact fee depends on the number of units proposed in the future residential development.

Because the future developer would be providing for the development of additional parklands, either through the payment of development impact fees or by directly constructing or providing the parkland, the increased use of existing parks and recreational facilities would not result in substantial physical deterioration of the existing facilities. Therefore, impacts to existing recreational facilities and parks would be less than significant.

Site Demolition and Preparation

In addition to the amendment to the Community Plan and rezone, the proposed project also includes the demolition of the existing unoccupied buildings and related facilities on-site, disposal of the demolition debris, mass grading of the site, and existing utilities stubbed out to the project site boundary. Because this component of the project does not include the construction of new residential housing which in turn would induce population growth, this project component has no potential to impact existing recreational facilities or parks. For this reason, no impacts to existing recreational facilities and parks would occur from site demolition and preparation.

3.7.3.2 Expansion or Creation of New Recreational Facilities

Issue 2: Would the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Impact Analysis

Community Plan Amendment and Rezone

As stated above, the project has the potential to generate approximately 829 new residents within the Clairemont Mesa community, which in turn would increase demand on existing parks and recreational facilities in the area. However, the future developer would be required to either (1) pay the City's established parks development impact fee; (2) pay a portion of the parks development impact fee and provide dedicated parkland; or (3) provide dedicated parkland. Through the payment of the parks development impact fee and/or providing new dedicated parkland, the future developer would satisfy the City's requirement to contribute the project's fair share to offset project impacts to the City's existing parks and recreational facilities. Furthermore, even though the City is not currently achieving its parkland standard, it is the City's responsibility to use the parks development impact fees provided from residential development to create new recreational facilities and/or parks. As such, payment of the City's park development impact fees would ensure that the future developer contributes its fair share to the City's park fund, and impacts would be considered less than significant.

Site Demolition and Preparation

In addition to the amendments to the CMCP and rezone of the project site, the proposed project also includes the demolition of the existing unoccupied buildings and related facilities on-site, disposal of the demolition debris, mass grading of the site, and existing utilities stubbed out to the project site boundary. Because this component of the project does not include the construction or expansion of recreational facilities, no impact to recreation or recreational facilities would occur.

3.7.3 Cumulative Impact Analysis

The geographic context for the analysis of cumulative impacts related to recreational facilities is the community of Clairemont Mesa. The proposed project would allow for the future development of a residential building with a maximum of 404 units, which could generate up to 829 new residents in Clairemont Mesa. Similar to the project, other cumulative development project has the potential to generate population growth. As shown in Table 1-2, there are two cumulative

development projects, Jefferson Pacific Beach and The Summit at MB – EOT, which would construct a total of 348 new residential units. Using an average household size of 2.05 persons per household, these projects would increase the population by approximately 713 residents, or 1,541 residents including the proposed project. The proposed project, in combination with population increases resulting from other cumulative projects in the community, would result in increased demand on park facilities. To meet this demand, new and expanded parks and recreational facilities would be funded by new development within the community via the payment of development impact fees on a project-specific basis. The provision of additional parkland to serve the community could result in a physical impact on the environment which could be significant. However, there are no specific plans for additional parks at this time. The construction of new park facilities would be subject to separate environmental review at the time design plans are available. In addition, cumulative projects would be reviewed by the City during the building permit process to determine acceptable parkland standards. Therefore, with the payment of development impact fees, the proposed project, in combination with other approved and planned developments within the project vicinity, would not result in significant cumulative impacts on parks and recreational facilities.

3.7.4 Significance of Impacts Prior to Mitigation

Impacts related to recreation and recreation facilities would be less than significant.

3.7.5 Mitigation

No mitigation measures are required.

3.7.6 Conclusion

Because the proposed project has the potential to add approximately 829 new residents to the project area, the project would increase demand on existing recreational facilities and parks. However, the future developer of the residential building would be required to either provide approximately 2.32 acres of parkland to accommodate the new residents or pay the applicable recreation and parks development impact fees to the City prior to issuance of a building permit in order to offset project impacts to existing recreational facilities and parks. Furthermore, the project itself does not include new public recreational facilities and would not cause the need for the expansion or creation of recreational facilities. Therefore, impacts to recreational facilities and parks would be less than significant.

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3.8 Utilities and Service Systems

This section discusses potential impacts to utilities and service systems, including water supply, wastewater treatment, and solid waste disposal resulting from implementation of the proposed project.

Comments related to utilities and service systems received during the public comment period for the Notice of Preparation (NOP) included concerns about water supply and infrastructure upgrades. These concerns have been considered and addressed, as applicable, in the following evaluation of the project's potential to impact utilities and service systems. The NOP and all comment letters received in response to the NOP are included in Appendix A of this EIR.

3.8.1 Existing Conditions

The project site is located in the community of Clairemont Mesa in the city of San Diego (city). The project site is currently occupied by the vacant former San Diego County Crime Lab facility. While utilities infrastructure currently serves the project site, to be conservative, this section does not take into account the historic utilities use at the site, but instead assumes there is no current utilities use at the project site due to its vacant status.

3.8.1.1 Water Supply and Demand

The proposed project is located within the Miramar service area of the City's Public Utilities Department (PUD) water system (City of San Diego 2016). The PUD stores, treats, and delivers potable water for approximately 1.3 million residents. The water system spans three major water treatment service areas, with three water treatment plants, nine reservoirs, two water reclamation plants, more than 3,000 miles of water transmission and distribution pipelines, and 50 water pump stations (City of San Diego 2016).

The City's PUD relies heavily on imported water as its major water supply and purchases up to 90 percent of its water from the San Diego County Water Authority (SDCWA), which in turn purchases most of its water from the Metropolitan Water District of California (MWD). MWD imports its water from two main supply sources, including the Colorado River Aqueduct (which MWD owns and operates) and the State Water Project (which brings water from the Bay-Delta).

The City's water system is divided into three major service areas: Miramar, which serves the northern portion of the city including the project site; Alvarado, which serves Mission Bay and Mission Valley; and Otay, which serves the southern portion of the city. The Miramar Water Treatment Plant (WTP) is located in Scripps Miramar Ranch and provides drinking water to an estimated 500,000 customers in the northern section of the city, including the project site. The City is

completing an expansion and upgrade of the plant to ensure future customer demand and stringent drinking water standards are met. The Miramar WTP's capacity is 144 million gallons per day (mgd) of treated drinking water and is expected to increase to 215 mgd in 2020 (City of San Diego 2016; City of San Diego 2017).

In addition to imported water, the City has taken multiple actions in recent years to expand its recycled water system. Recycled water contributed to an average of 4 percent of the City's supply portfolio in 2015 (City of San Diego 2016). Recycled water helps reduce demands for potable water by substituting imported potable supplies with non-potable supplies. The City's northern service area provides recycled water distribution to the northern portion of the city. The northern service area receives source water from the North City Water Reclamation Plant (NCWRP). Recycled water does not currently serve the project site (City of San Diego 2011).

The City's existing and planned water supply and demand from 2010 through 2040 was obtained from the City's Urban Water Management Plan, and is shown in **Tables 3.8-1** and **3.8-2**. As shown in Tables 3.8-1 and 3.8-2, the City anticipates have adequate water supplies to meet the future water demand within its service areas.

Table 3.8-1
City of San Diego Existing and Future Water Supply

	Water Supply (AFY)			
Water Supply Source (Existing and Planned)	**2015**	**2020**	**2030**	**2040**
Surface Water	6,279*	22,900	22,700	22,500
Groundwater	500	3,100	3,100	3,100
Recycled Water (non-potable)	8,195	13,650	13,650	13,650
Total Verifiable Local Water Supplies	14,974	39,650	39,450	39,250
SDCWA Water Purchases with Verifiable Regional Water Supplies	173,754	161,334	225,390	234,158
Total Verifiable Water Supplies	**198,957**	**200,984**	**264,840**	**273,408**

* 2015 represents actual supplies under very dry hydrologic conditions, resulting in very low surface water supplies.

SOURCE: City of San Diego 2016

Table 3.8-2
City of San Diego Historical and Projected Water Demand

Use	Demand (AFY)			
	2015	2020	2030	2040
Retail Potable Water	167,112	168,340	223,962	230,980
Wholesale Potable Water	10,229	12,200	15,453	15,821
Non-Revenue Water	13,421	15,700	18,020	18,576
Potable Subtotal	190,762	196,240	257,435	265,377
Recycled Water (non-potable)	8,195	13,650	13,650	13,650
Total Demand	**198,957**	**209,890**	**271,085**	**279,027**
Total Demand with Active Water Conservation Methods	**198,957**	**200,984**	**264,840**	**273,408**

Source: City of San Diego 2016

3.8.1.2 Wastewater

The City's PUD provides wastewater collection, treatment, and disposal services to the San Diego region, including the project site (City of San Diego 2016). The City collects and treats approximately 160 mgd of wastewater that is generated within its boundaries as well as 12 other agencies that form the Metro Wastewater Joint Powers Authority. Collectively, the wastewater system is known as the Metro System. Facilities in the system include the Point Loma WTP, NCWRP, and South Bay Water Reclamation Plant (WRP), which together collected 190,313 acre-feet of wastewater in 2015 (City of San Diego 2016).

The NCWRP treats wastewater generated by northern San Diego communities, including the project site, and has a total treatment capacity of 30 mgd. In 2015, the NCWRP collected an average daily wastewater inflow of 16 mgd and treated 15 mgd to a secondary treatment level (City of San Diego 2016).

3.8.1.3 Solid Waste

The City of San Diego Environmental Services Department operates the solid waste collection and disposal services to residents throughout the city, including the project site (City of San Diego 2019). Solid waste is collected by one of 21 City-franchised haulers and transported to the Miramar Landfill for disposal. The Miramar Landfill is located at 5180 Convoy Street, approximately two miles northeast of the project site. The Miramar Landfill is the only city–operated active landfill and spans over 1,500 acres. The landfill permits a maximum of 8,000 tons per day, and over 910,000 tons of trash is disposed at this landfill per year (CalRecycle 2019a, City of San Diego 2019). With the addition of the City's Zero

Waste Plan and improved trash compaction methods, the Miramar Landfill's remaining capacity is approximately 11,612,073 tons, and will reach capacity by 2030 (City of San Diego 2015a). The City's waste reduction and recycling programs, aided by innovative engineering, have helped extend the landfill's working life. All cities in California are required to reduce, reuse, or recycle half of their trash. In 2004, the City of San Diego met this requirement with a 52 percent diversion rate, and is currently at a 66 percent diversion rate (City of San Diego 2019).

3.8.2 Regulatory Setting

3.8.2.1 Federal

There are no applicable federal regulations related to utilities and service systems.

3.8.2.2 State

California Administrative Code

The California Administrative Code (CSC) establishes efficiency standards for reducing water usage in new water fixtures. Title 24 CAC, Section 25352, addresses pipe insulation requirements, which reduce the amount of hot water used before reaching equipment and fixtures. Title 20 CAC Section 1604, provides efficiency standards for water fixtures, including lavatory faucets, showerheads, and sink faucets.

California Urban Water Management Planning Act

Adopted in 1983, Section 10610 of the California Water Code established the California Water Management Planning Act (CUWMPA), which requires urban water suppliers to initiate planning strategies to ensure an appropriate level of reliability in its water service. CUWMPA states that every urban water supplier that provides water to 3,000 or more customers, or that annually provides more than 3,000 acre-feet of water service, should make every effort to ensure the appropriate level of reliability in its water service to meet the needs of its various categories of customers during normal, dry, and multi-dry years. The CUWMPA describes the contents of Urban Water Management Plans as well as methods for urban water suppliers to adopt and implement the plans. The City of San Diego adopted its 2015 Urban Water Management Plan in June 2016.

California Senate Bill 7

Senate Bill (SB) 7 (X7-7) was enacted in November 2009 to require all water suppliers to increase water use efficiency. The legislation (California Water Code Section 10608.20) sets an overall goal of reducing per capita urban water use by 20 percent by December 31, 2020. In order to reach this goal, SB X7-7 requires

each urban retail water supplier to report progress in meeting water use targets. The bill also requires wholesale water suppliers to support their retail member agencies efforts to comply with SB X7-7 through a combination of regionally and locally administered active and passive water conservation measures, programs, and policies, as well as the use of recycled water.

California Integrated Waste Management Act of 1989 (Assembly Bill 939)

The California Integrated Waste Management Act of 1989 (AB 939) redefined solid waste management in terms of both objectives and planning responsibilities for local jurisdictions and the state. AB 939 was adopted in an effort to reduce the volume and toxicity of solid waste that is landfilled and incinerated by requiring local governments to prepare and implement plans to improve the management of waste resources. AB 939 required each of the cities and unincorporated portions of the counties throughout California to divert a minimum of 25 percent of the solid waste sent to landfills by 1995 and 50 percent by the year 2000. To attain goals for reductions in disposal, AB 939 established a planning hierarchy using new integrated solid waste management practices. These practices include source reduction, recycling and composting, and environmentally safe landfill disposal and transformation.

California Solid Waste Reuse and Recycling Act of 1991 (Assembly Bill 1327)

The California Solid Waste Reuse and Recycling Act of 1991 (AB 1327) requires adequate areas for collecting and loading recyclable materials within a project site. AB 1327 requires local governments to adopt an ordinance for the transfer, receipt, storage, and loading of recyclable materials in development projects.

California Assembly Bill 341

On October 6, 2011, Assembly Bill (AB) 341 was signed, which establishes a state policy of no less than 75 percent of solid waste generated by source reduced, recycled, or composted by 2020, and required CalRecycle to provide a report to the Legislature that recommends strategies to achieve the policy goal by January 1, 2014. The bill also mandated local jurisdictions to implement commercial recycling by July 1, 2012. The City of San Diego is currently at a 66 percent diversion rate.

California Senate Bill 610

California SB 610 went into effect January 2002 with the intention of linking water supply availability to land use decisions made by cities and counties. SB 610 requires water suppliers to prepare a water supply assessment report for inclusion by land use agencies within the CEQA process for new developments. As defined in SB 610, large-scale projects include residential development projects of more than 500 residential units and/or shopping centers or

businesses employing more than 1,000 people or having more than 500,000 square feet (SF) of floor space.

3.8.2.3 Local

County of San Diego Construction and Demolition Debris Deposit Ordinance

The County Board of Supervisor's requires all County construction and demolition projects comply with the Construction and Demolition Recycling Ordinance (Sections 68.508 through 65.518 to the County Code of Regulatory Ordinances), otherwise known as the Construction and Demolition Ordinance. This program is intended to increase diversion of construction and demolition materials from landfills, conserve landfill capacity, extend the useful life of local landfills and avoid potential consequences to the County if it fails to comply with State waste diversion requirements. The ordinance requires contractors to submit a Construction and Demolition Debris Management Plan, where the contractor shall divert 90 percent of inert materials and 70 percent of all other materials of the project. In order to comply with the ordinance, applicants must submit a Construction and Demolition Debris Management Plan to identify the types and quantities of materials that will be generated by the project and show how materials will be diverted away from landfill disposal using recycling, reduction, and onsite reuse. This ordinance would apply to the proposed project's demolition and site preparation phase of the project, as this phase would occur under the jurisdiction of the County. Construction and operation of the future development would occur under the City's jurisdiction, and would comply with the City's ordinances, as detailed further below.

City of San Diego General Plan

The Public Facilities, Services, and Safety Element of the City of San Diego General Plan addresses facilities and services that are publicly managed and have a direct influence on the location of land uses, including wastewater and water infrastructure. The following policies are relevant to the proposed project:

Policy PF-H.2: Provide and maintain essential water storage, treatment, supply facilities and infrastructure to serve existing and future development.

Policy PF-I.1: Provide efficient and effective waste collection services.

d. Provide space for recycling containers and efficient collection.

Policy PF-1.2: Maximize waste reduction and diversion.

a. Conveniently located facilities and informational guidelines to encourage waste reduction, diversion, and recycling practices.

b. Operate public and private facilities that collect and transport waste and recyclable materials in accordance with the highest environmental standards.

f. Reduce and recycle Construction and Demolition debris. Strive for recycling of 100 percent if inert Construction and Demolition materials and a minimum of 50 percent by weight of all other material.

Clairemont Mesa Community Plan

The Clairemont Mesa Community Plan (CMCP) provides policies and information specific to the community planning area of Clairemont Mesa within the city. The CMCP states that water mains and sewer lines are considered generally adequate throughout the community. The replacement of water mains and sewer lines have been occasionally needed due to aging infrastructure. According to the CMCP, the City of San Diego has a sewer and water main replacement program that is funded on an annual basis. The following CMCP policies related to utilities and service systems are relevant to the proposed project.

> Primary Goal for Community Facilities: Establish and maintain a high level of public facilities and services to meet the needs of the community.
>
> Objective 3: Maintain water and sewer facilities to adequately serve the community.

City of San Diego Zero Waste Plan

The City's Zero Waste Plan was approved and adopted by City Council on July 13, 2015. The Zero Waste Plan lays out strategies to divert 75 percent of all trash by 2020, 90 percent diversion by 2035, and an ultimate goal of zero waste by 2040. The City of San Diego is currently at a 66 percent diversion rate.

City of San Diego Recycling Ordinance

The City’s Recycling Ordinance requires on-site recyclable collection for all single-family residences; City-serviced multi-family residences; and privately-serviced businesses, commercial/institutional facilities, apartments, condominiums, and special events requiring a City permit. The ordinance requires recycling of plastic and glass bottles and jars, paper, newspaper, metal containers and cardboard. City-serviced residences and privately-serviced commercial and institutional properties must also recycle rigid plastics including clean food waste containers, jugs, tubs, trays, pots, buckets, and toys. To monitor compliance with the ordinance, annual reports must be submitted to the City’s Environmental Services Division from those providing recyclable material collection services.

City of San Diego Refuse and Recyclable Materials Storage Regulations

The City's Refuse and Recyclable Materials Storage Regulations indicate the minimum exterior refuse and recyclable material storage areas required at residential and commercial properties. These are intended to provide permanent, adequate, and convenient space for the storage and collection of refuse and recyclable materials; encourage recycling of solid waste to reduce the amount of waste material entering landfills; and meet the recycling goals established by the City Council and mandated by the State of California. The regulations provide minimum requirements for the size and location of material storage areas.

City of San Diego Ordinance 0-17327 (Mandatory Reuse Ordinance)

This ordinance, adopted by the City Council in 1989, requires that "recycled water shall be used within the City where feasible and consistent with the legal requirements, preservation of public health, safety, and welfare, and the environment." Compliance with this ordinance for new development is made a condition of tentative maps, land use permits, etc., based on the project's location within an existing or proposed recycled water service area.

City of San Diego Construction and Demolition Debris Deposit Ordinance

San Diego Municipal Code (SDMC) Section 66.0701 et seq., the 2008 Construction and Demolition (C&D) Debris Deposit Ordinance, requires that the majority of construction, demolition and remodeling projects pay a refundable C&D Debris Recycling Deposit and divert their debris by recycling, reusing or donating usable materials. The ordinance is designed to keep C&D materials out of local landfills. The Ordinance requires project applicants to submit a Waste Management Form with the building permit or demolition/removal permit, to provide a general estimate of the total waste generated by the project including how much will be recycled. The code requires a minimum diversion rate of 50 percent for building permits or demolition/removal permits issued within 180 calendar days of the effective date of the ordinance, and a minimum diversion rate of 75 percent for building permits or demolition/removal permits issued after 180 calendar days from the effective date of the ordinance, provided that a certified recycling facility which accepts mixed construction and demolition debris is operating within 25 miles of the City Administrative Building.

3.8.3 Analysis of Project Effects and Determination as to Significance

For purposes of this EIR, the identified significance thresholds are based on criteria provided in the City of San Diego's CEQA Significance Determination Thresholds (City of San Diego 2016). Accordingly, a significant utilities and service systems impact would occur if the project would:

Issue 1: Result in a need for new systems, or require substantial alterations to existing utilities, the construction of which would create physical impacts (natural gas, water, sewer, communications systems, solid waste disposal);

Issue 2: Result in the use of excessive amounts of fuel or energy (e.g. natural gas);

Issue 3: Result in the use of excessive amounts of power;

Issue 4: Use of excessive amounts of water;

Issue 5: Landscaping which is predominantly non-drought resistant vegetation;

Issue 6: Would the proposed project have an effect upon, or result in a need for new or altered solid waste facilities.

For a discussion on Issue 2 and 3, refer to Section 3.2, Energy, of this EIR.

3.8.3.1 New or Altered Utilities

Issue 1: Would the project result in the need for new systems or require substantial alterations to existing utilities, the construction of which would create physical impacts (water, sewer, natural gas, communications systems, and solid waste disposal)?

Issue 5: Would the project have an effect upon, or result in a need for new or altered solid waste facilities?

Impact Analysis

Water

Community Plan Amendment and Rezone

Similar to existing conditions, the City's PUD would continue to serve the project site. As previously detailed, SB 610 require a discussion regarding the availability of water to meet projected water demands of large-scale projects. As defined in SB 610, large-scale projects include residential development projects of more than 500 residential units. The project includes an amendment to the CMCP and rezone that would allow for a residential development with a maximum of 404 units. As the proposed project includes less than 500 units, the project does not meet the CEQA significance threshold of SB 610, and therefore, a water supply assessment and verification is not required for the project. Thus, the proposed project would not require the construction of new water treatment facilities or an expansion of existing facilities, and impacts would be less than significant.

Site Demolition and Preparation

In addition to the amendment to the Community Plan and rezone, the proposed project also includes the demolition of the existing unoccupied buildings and related facilities on-site, disposal of the demolition debris, mass grading of the site, and existing utilities stubbed out to the project site boundary. Demolition would require some water for dust control, which would be provided by water trucks and would not affect the City's water supply. No other water would be required for demolition or site preparation activities. Therefore, no impact would occur.

Wastewater

Community Plan Amendment and Rezone

As previously detailed, the proposed amendment to the CMCP and rezone would allow for a future development with a maximum of 404 units, which could generate up to approximately 829 residents. Based on the City of San Diego PUD Sewer Design Guide, the future development would result in an increased generation of approximately 67,154 gpd (or 0.06 mgd) of wastewater, as shown in **Table 3.8-3**. This estimate is conservative, as it does not take into account the historical wastewater generation that has occurred at the project site.

Table 3.8-3
Proposed Wastewater Generation

Land Use Category	Area (units or SF)	Average Daily Wastewater Generation	Total Average Wastewater Generation
Residential	404 units (829 people)	166 gpd per unit	67,064 gpd
Commercial (Community Accessible Ground Floor Space)	1,500 SF	0.06 gpd per SF	90 gpd
Total			**67,154 gpd**

SOURCE: Wastewater demand factors from the City of San Diego Sewer Design Guide (City of San Diego 2015b)

Similar to existing conditions, the City's PUD would continue to serve the project site. The NCWRP has a maximum treatment capacity of 30 mgd, and is currently operating at approximately 16 mgd (City of San Diego 2016). Thus, the NCWRP has a remaining treatment capacity of 14 mgd. The future development's wastewater generation of 0.06 mgd would be less than one percent of this remaining capacity. This remaining treatment capacity of the NCWRP is considered adequate to serve the future development's wastewater demands. The proposed project would not require the construction of a new or expanded wastewater facilities, and impacts would be less than significant.

Site Demolition and Preparation

In addition to the amendment to the Community Plan and rezone, the proposed project also includes the demolition of the existing unoccupied buildings and related facilities on-site, disposal of the demolition debris, mass grading of the site, and existing utilities stubbed out to the project site boundary. Demolition would require a minimal amount of wastewater generated by construction workers. Wastewater generated during demolition would be collected within portable toilet facilities. All wastewater generated in portable toilets would be collected by a permitted portable toilet waste hauler and appropriately disposed of at an identified liquid-disposal station, which would not affect the City's existing wastewater system. Therefore, construction or expansion of wastewater facilities would not be required for demolition of the project site, and no impact would occur.

Natural Gas

Community Plan Amendment and Rezone

Refer to Section 3.2, Energy, for a discussion on the demand of natural gas at the project site. Any construction of natural gas lines associated with the future development would occur in accordance with the City and SDG&E's permitting processes and construction standards to avoid or minimize impacts on environmentally sensitive habitat areas and landforms through siting, grading or excavation, and erosion. Therefore, impacts associated with natural gas facilities from buildout of the future development would be less than significant.

Site Demolition and Preparation

Demolition of the project site would not require new or expanded natural gas lines. Any temporary need for on-site power would be obtained through mobile generators. Thus, no impact would occur.

Communications Systems

Community Plan Amendment and Rezone

Communication systems for telephone, internet, and cable television are serviced throughout the city by utility providers such as Cox, Spectrum Time Warner, AT&T, and other private utility companies. Future siting of communications infrastructure would be in accordance with the Land Development Code, including Section 141.0420 regulating wireless communications facilities, as well as the City's Wireless Communications Facilities Guidelines, which seek to minimize visual impacts. Any construction of communications systems associated with future development would occur in accordance with the City's permitting processes and construction standards to avoid or minimize impacts on environmentally sensitive habitat areas and landforms through siting, grading or excavation, and erosion. Therefore, impacts associated with communications facilities from buildout of the future development would be less than significant.

Site Demolition and Preparation
Demolition of the project site would not require new or expanded telephone, internet, or cable television service, as construction workers would use their current cell phone company provider to make necessary calls. Thus, no impact would occur.

Solid Waste

Community Plan Amendment and Rezone
The City's threshold for direct impacts on solid waste facilities are projects that include the construction, demolition, or renovation of 1,000,000 SF or more of building space, as they may generate approximately 1,500 tons of waste or more, creating a direct impact. Construction of the future development would generate a variety of solid waste consisting of metals, concrete, asphalt, wood, plastics, and other building materials, some of which can be recycled. Multi-family residential construction is expected to generate approximately 1.2 tons of waste per unit per year (City of San Diego 2012). Nonresidential construction (the proposed future community use) is expected to generate approximately 0.00028 tons of waste per square foot per year (City of San Diego 2012). As shown in **Table 3.8-4**, operation of the future proposed development would generate a total of approximately 486 tons of solid waste per year. While the design and exact SF of the future development is currently unknown at the time of this analysis, the construction of the future development would be expected to generate 486 tons of solid waste per year, which is under the City's direct impact threshold of 1,500 tons of waste or more. Therefore, a less than significant impact would occur related to need for new or altered solid waste facilities.

Table 3.8-4
Solid Waste Generation Estimates for Project Construction

Land Use Category	Area (units or SF)	Total Solid Waste Generation Rate	Total Solid Waste Generation (tons per year)
Residential	404 units	1.2 tons per unit	484.8 tons per year
Community Accessible Ground Floor Space[1]	1,500 SF	0.00028 tons per SF	0.42 tons per year
Total			**485.22 tons per year**

[1] The commercial land use category generation rates were used for the ground floor space.

SOURCE: City of San Diego 2012

Similar to construction, the City's threshold for direct operational impacts on solid waste facilities are projects that include the construction, demolition, or renovation of 1,000,000 SF or more of building space, as they may generate

approximately 1,500 tons of waste or more, creating a direct impact. Operation of the future development would continue to be serviced by the City of San Diego Environmental Services Department, which operates the solid waste collection and disposal services to residents throughout the city. The estimated annual waste to be generated during occupancy of the future development is based on findings from the State of California's Department of Resources Recycling and Recovery (CalRecycle) Residential and Commercial Sector Generation Rates (CalRecycle 2019b). The generation rate is based on the average of five case studies for multi-family projects and three case studies for commercial retail projects. The studies found that the estimated solid waste generation rate for multi-family units is an average of 5.1 pounds per dwelling unit per day, and for commercial projects is an average of 0.02 pounds per SF per day. Once buildout is complete, the future development could generate approximately 382 tons of solid waste per year, as shown in **Table 3.8-5**. Based on the site capacity established by the CPA, the operation of the future development would likely generate approximately 382 tons of solid waste per year, which is under the City's direct impact threshold of 1,500 tons of waste or more.

Table 3.8-5
Operational Solid Waste Generation

Land Use Category	Area (units or SF)	Total Solid Waste Generation Rate	Total Solid Waste Generation
Residential	404 units	5.1 pounds per unit per day	376 tons per year
Commercial (Community Accessible Ground Floor Space)	1,500 SF	0.02 pounds per SF per day	6 tons per year
Total			**382 tons per year**

SOURCE: CalRecycle 2019b

Further, the proposed project would comply with all state and local regulations pertaining to solid waste management and diversion, including state's goals established in AB 939, AB 1327, and AB 341. In addition, per the City's Recycling Ordinance, solid waste would be recycled during operation to the maximum extent possible. The City's Recycling Ordinance requires on-site recyclable collection, including the recycling of plastic and glass bottles, paper, newspaper, metal containers, and cardboard. With implementation of the City's Recycling Ordinance, the proposed project would not result in the need for new or altered solid waste facilities, and a less than significant impact would occur related to solid waste associated with the operation of the future development.

Site Demolition and Preparation

As previously detailed, the City's threshold for direct impacts on solid waste facilities are projects that include the construction, demolition, or renovation of 1,000,000 SF or more of building space, as they may generate approximately 1,500 tons of waste or more. The proposed project would include demolition of the existing onsite structures, parking areas, and landscaping. The project site is currently developed with a 66,000 SF building, 36,000 SF warehouse building, and a 1,500 SF garage, for a total of 103,500 SF. Demolition of the existing buildings and site improvements would be under the City's threshold of 1,000,000 SF. The demolition portion of the proposed project would not result in a need for new or altered solid waste disposal facilities, and impacts would be less than significant.

3.8.3.2 Water Conservation and Landscaping

Issue 4: Would the project use excessive amounts of water?

Issue 5: Would the project include landscaping which is predominantly non-drought resistant vegetation?

Impact Analysis

Community Plan Amendments and Rezone

As detailed in the CPIOZ Type A (CPIOZ-A) design standards of the Community Plan Amendment (CPA) (Appendix B), a minimum of 15 percent of the project site would be required to be landscaped under the future development. In addition, street trees would be required to be planted and maintained along public street frontages. At the time of this analysis, it is unknown the type of plants that would be planted. However, the future development allowed by the project would be built as a Leadership in Energy and Environmental Design (LEED) Silver or equivalent. While the LEED checklist has not been completed at the time of this analysis and exact measures and credits are unknown, the LEED checklist includes requirements for indoor and outdoor water use reductions (USGBC 2019). By adhering to LEED Silver or equivalent standards, the future development would be required to include water conservation features, including but not limited to using drought resistant landscaping and low flow plumbing fixtures.

By adhering to LEED Silver or equivalent standards, the future development would be required to reduce its water use, and would not use excessive amounts of water. Therefore, impacts related to indoor and outdoor high water use and landscaping would be less than significant.

Site Demolition and Preparation

The proposed project would include demolition of the existing onsite structures, parking areas, and landscaping. As previously detailed in Section 3.8.3.1 above, demolition would require some water for dust control, which would be provided by imported water trucks. No other water would be required for demolition of the existing structure, and no landscaping would be part of this phase. Demolition would not use excessive amounts of water, and no impact would occur.

3.8.4 Cumulative Impact Analysis

3.8.4.1 Water and Wastewater

The geographic scope for cumulative impacts on water and wastewater resources is the City's PUD service system. Cumulative impacts associated with water and wastewater could occur if the proposed project, in combination with cumulative projects, resulted in a need for new systems which would create physical impacts. Construction and operation of the proposed project, in combination with cumulative projects, would result in an increased demand for water and wastewater services. The City, as the provider of water and wastewater facilities, would confirm availability of adequate water supply, water treatment capacity, and wastewater treatment capacity prior to future project approval. In addition, the City has established a capacity fee structure for all projects to ensure that the City can continue to maintain water and sewer connections and water flow new and altered developments (City of San Diego 2014). These fees would apply to both the proposed project and future cumulative projects, and would provide for the development of additional facilities to service new development and population, as needed. In addition, the City anticipates growth within its boundaries, which is consistent with the projections of the City's 2015 Urban Water Management Plan. The City's water supply projections anticipate an increase through 2040, despite drought and environmental restrictions, due to water conservation. The City's projected supply of water will meet demand through 2040 (as shown on Tables 3.8-1 and 3.8-2). The City would continue to monitor population growth and update water and sewer facility planning to adjust changes in growth and economic conditions. With these factors, it can be reasonably assumed that the City would continue to keep pace with the population growth within the City such that demand and performance objectives of water supply and wastewater systems are met. As a result, cumulative impacts related to water and wastewater facilities would be less than significant, and no mitigation measures would be required.

3.8.4.2 Solid Waste

The geographic scope for the analysis of cumulative impacts in regards to landfill capacity is the Miramar Landfill. The Miramar Landfill has a remaining capacity of 11,612,073 tons, and is estimated to reach capacity by 2030. Although there is limited landfill capacity, cumulative projects would be required to comply with City ordinances regarding recycling and the required diversion rate of solid waste to ensure solid waste generation is minimal.

In addition, per City policy, cumulative projects (including the proposed project) that include construction, demolition, and/or renovation of 40,000 SF or more of building space are required to prepare waste management plans to show waste diversion measures. As detailed above, the proposed project would demolish 103,500 SF of existing buildings, which would be above the City's threshold of 40,000 SF. However, the demolition and site preparation phase of the project would occur under the jurisdiction of the County, and would be required to implement the County Construction and Demolition Debris Deposit Ordinance. The ordinance requires contractors to submit a Construction and Demolition Debris Management Plan, where the contractor shall divert 90 percent of inert materials and 70 percent of all other materials of the project. Therefore, the demolition and site preparation phase of the proposed project would not contribute to a cumulatively considerable impact.

Construction and operation of the future development would occur under the jurisdiction of the City. While the design and exact SF of the future development is currently unknown at the time of this analysis, it is likely that the future development would be greater than 40,000 SF, resulting in a potentially significant cumulative impact. However, the proposed project would be required to prepare a project-specific waste management plan as a condition of the building permit (as detailed in Appendix B). According to the City's CEQA Significance Determination Thresholds, implementation of a project-specific waste management plan would reduce cumulative solid waste impacts to below a level of significance. Therefore, in combination with cumulative projects, the future development would not contribute to a cumulatively considerable impact on landfill capacity.

3.8.5 Significance of Impacts Prior to Mitigation

Impacts related to utilities and service systems would be less than significant.

3.8.6 Mitigation

No mitigation measures are required.

3.8.7 Conclusion

The proposed project would not result in the need for new systems or require substantial alterations to existing utilities, the construction of which would create physical impacts, including water, sewer, and solid waste disposal. In addition, the proposed project would not use excessive amounts of water or include landscaping that is non-drought resistant. Impacts related to utilities and service systems would be less than significant, and no mitigation would be required.

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CHAPTER 4.0 PROJECT ALTERNATIVES

4.1 Scope and Purpose

CEQA Guidelines Section 15126.6(a) of the State CEQA Guidelines requires that an EIR compare the effects of a "reasonable range of alternatives" to the effects of a project. Section 15126.6(a) also provides that an EIR need not consider every conceivable alternative to a project. Instead, the EIR must consider a reasonable range of potentially feasible alternatives that will foster informed decision-making and public participation. However, an EIR need not consider alternatives that are infeasible. There also is no ironclad rule governing the nature or scope of the alternatives to be discussed in an EIR, other than the "rule of reason." The "rule of reason" governing the range of alternatives specifies than an EIR should only discuss those alternatives necessary to foster meaningful public participation and informed decision-making.

Because an EIR must identify ways to mitigate or avoid significant effects that a project may have on the environment (Public Resources Code Section 21002.1), the purpose of an EIR's alternatives discussion is to focus on alternatives to the project or its location that are capable of avoiding or substantially lessening any significant effects of the project, even if the alternatives would impede to some degree the attainment of the project's objectives or be more costly. Further, CEQA requires that an EIR identify the environmentally superior alternative from among the alternatives.

The proposed project would result in potential impacts to the following categories: (1) those impacts determined not to be significant, including aesthetics, biological resources, agriculture and forestry resources, cultural resources, energy, geology/soils/seismicity, greenhouse gas emissions, hydrology, mineral resources, population and housing, recreation, public services, utilities, tribal cultural resources, land use and planning and wildfire, and (2) those impacts reduced to less than significant with implementation of mitigation measures, including air quality, hazards and hazardous materials, and noise and vibration. The proposed project would also result in impacts that would be partially mitigated but remain significant and unavoidable on a direct and cumulative level for transportation/traffic because improvements were either infeasible or not assured such that all of the impacts would be reduced to a less-than-significant level.

The focus of this alternatives analysis is on their ability to reduce or substantially lessen the significant impacts of the proposed project described above; however, a brief discussion is provided on whether or not the alternatives would change any of the impacts that were determined to not be significant (i.e., other resources areas). Collectively, this information allows for the project to be compared against the merits of each alternative.

For each of the alternatives identified, the EIR conducted the following assessment:

- Described the alternative;
- Identified the impacts of the alternative and evaluated the significance of those impacts; and
- Evaluated each alternative relative to the proposed project, specifically addressing project objectives, avoidance or reduction of significant impacts, and comparative merits.

The EIR has specifically evaluated three (3) alternatives to the proposed project as follows:

1. No Project / No Redevelopment Alternative
2. No Project / Existing Community Plan and Zoning Alternative
3. Reduced Intensity Project Alternative – 312 Units

4.2 Criteria for Selection and Analysis of Alternatives

The criteria for the selection and analysis of alternatives are provided in CEQA Guidelines Section 15126.6(c). In order to be considered feasible, the alternatives must (1) meet most of the project objectives and (2) avoid or substantially lessen the significant impacts resulting from the proposed project (specifically, air quality, hazards and hazardous materials, noise and vibration and transportation and traffic).

4.2.1 Project Objectives

The following project objectives have been established by the County of San Diego (County) for the proposed project:

1. Establish the ability for residential developers to construct affordable homes on surplus County property, consistent with San Diego regional housing policies.
2. Deliver a development-ready site, including demolition and removal of existing onsite structures and related facilities, and provision of stubbed-out utilities.
3. Encourage an increase in the supply and variety of housing types – affordable for people of all ages and income levels – in an area with existing or planned frequent transit service (i.e., transit priority area) and with access to a variety of public and commercial services.

4. Ensure high quality development occurs on the site through the development of architectural and landscape supplemental development regulations.

4.2.2 Feasibility

CEQA Guidelines Section 15126.6(f)(1) identifies the factors to be taken into account to determine the feasibility of alternatives. The factors include site suitability; economic viability; availability of infrastructure; general plan consistency; other plans or regulatory limitations; jurisdictional boundaries; and whether the applicant can reasonably acquire, control, or otherwise have access to the alternative site. Not one of these factors establishes a fixed limit on the scope of reasonable alternatives. An alternative does not need to be considered if its environmental effects cannot be reasonably ascertained and if implementation of such an alternative is remote or speculative.

4.2.3 Evaluation of Significant Impacts

According to CEQA Guidelines Section 15126.6(b), the alternatives discussion should focus on those alternatives that, if implemented, could eliminate or reduce any of the significant environmental impacts of the project. The alternatives will be evaluated to determine if, as anticipated when selected as alternatives, they eliminate any significant adverse environmental effects or reduce them to a less-than-significant level. The project-related impacts addressed in this analysis are those that are identified as potentially significant prior to the incorporation or implementation of any mitigation measures.

The performance of the alternatives relative to the proposed project will be evaluated to determine the “comparative merits of the alternatives.” (CEQA Guidelines Section 15126.6(a)) This analysis will be based, in part, on a comparison to the proposed project’s impacts. It also will include a discussion of the relative feasibility of each alternative.

4.3 Rationale for the Selection of Alternatives

4.3.1 Alternatives Considered but Rejected

The following alternatives were considered but rejected due to either being infeasible, the County not controlling the property or not meeting most of the basic project objectives:

- **Alternative Site (Surplus County Owned Property) – San Diego County**

  Eleven other County owned properties within the County were identified as “surplus” and proposed for affordable housing redevelopment (AECOM

2017a). The majority of the 11 sites are located within the City of San Diego, while one each are in the City of Escondido, City of El Cajon, and the County. A screening process was used to determine whether each site was conducive to affordable housing, including a land use and zoning analysis, environmental due diligence, screening criteria determination, and development opportunity identification. The development opportunity assessment took into consideration such factors as commercial/retail and public transit proximity and land use compatibility. The County's goal in evaluating its surplus properties for affordable housing redevelopment potential was to identify as many sites as possible that would be viable given the existing and projected regional housing shortfall for lower income individuals.

Of the 11 screened sites, only 5 of the sites were deemed viable for affordable housing, including the proposed project site (AECOM 2017b). None of the viable sites were determined to be an alternative location for the proposed project because they were less conducive than the Mount Etna site for near-term redevelopment, already planned for other land uses, were not currently available for lease, and/or were not located near commercial retail/office uses and within an existing or planned transit priority area (TPA) to serve the needs of future residents.

- **Alternative Site (Surplus County Owned Property) - Community Plan Area**

  There were no other County owned surplus properties in the Clairemont Mesa Community Plan (CMCP) area that were evaluated as an alternative site for the proposed project. Of the 11 sites screened for their potential for redevelopment and the 5 sites that were recommended as viable, the only site in the Clairemont Mesa Community Plan area was the Mount Etna property. The other sites are located in the Midway District of the City of San Diego, downtown San Diego, City of El Cajon, and City of Escondido. Therefore, no other surplus County-owned property exists in the Community Plan area that could serve as a viable alternative location for the proposed project and such an alternative was not further evaluated in this analysis.

- **Proposed Clairemont Mesa Community Plan Update Land Use Designation**

  The project site is located within Focus Area 6, Subarea 6C of the draft CMCP Update (City of San Diego 2019). The CMCP Update is a work in progress. The initial land use scenarios were released for public comment on February 13, 2019 as part of a broad online community engagement effort to solicit feedback on future development. The existing CMCP land use designation for the project site is Commercial-Community Center and there a limited number of residential units allowed. There are currently three potential land use designation options being studied in Subarea 6C

(13.1 total acres including the 4.09-acre project site): (1) Community Commercial (0-44 dwelling units per acre [du/ac]) – mixed use with 183 residential units, (2) Community Commercial (0-54 du/ac) – mixed use with 283 residential units, and (3) Community Commercial (0-73 du/ac) – mixed use with 347 residential units. These optional residential unit densities and unit counts apply to the entire 13.1-acre Subarea 6C, and as such it is difficult to determine the actual unit count that would be allowed on the 4.09-acre project site portion of the subarea. Using a straight percentage approach, 38 percent of the potential units could be allocated to the project site, under this alternative, resulting in either 70, 108 or 132 affordable residential units. In addition, a mix of uses besides residential would be allowed under the draft CMCP Update land use designations. As the CMCP Update is in work in progress with an undetermined final land use designation for the project site, and a substantially reduced number of possible residential units than the proposed project, the alternative is not further evaluated in the EIR because of its speculative nature.

- **Alternative Land Use**

  During the NOP review period and public scoping process, a number of community members and interested parties suggested that the County entitle and permit development of the site for non-residential uses or specific types of residential development. For instance, suggestions were made to consider developing the site with a medical facility (i.e., County Health Department), community library, Department of Motor Vehicles facility, commercial business use, community park, recreation center, and dog park, among other uses. Suggestions were also made to consider senior-only housing or units for military members. Because of its commercial designation under the General Plan and CMCP, all of the suggested non-commercial alternative land uses or residential types would require an amendment of the CMCP and rezone of the site. Further, the suggested non-residential uses would likely not reduce any impacts of the proposed project. In addition, none of these suggested uses would meet the basic project objectives of amending the CMCP to allow for the future redevelopment of the site for affordable housing. In addition, uses such as a dog park would not benefit from being implemented in a TPA because they are not high-trip generating uses nor would they increase the supply and variety of housing types in the County and City. Thus, an alternative land use scenario is not further evaluated in the EIR.

4.4 No Project / No Redevelopment Alternative

4.4.1 No Project / No Redevelopment Alternative Description and Setting

The No Project/No Redevelopment Alternative would not require a Community Plan Amendment (CPA) and rezone from the City of San Diego and the existing vacated San Diego County Regional Crime Lab (Crime Lab) facility would remain

on the project site. None of the proposed building demolition (i.e., 103,500 square feet [SF]) would occur and the project site would not be regraded to prepare a developable pad. Affordable housing would not ultimately be constructed under this alternative, further exacerbating the lack of affordable housing in the San Diego County region. The existing structures would remain unoccupied. Alternatively, implementation of the existing land use and underlying zoning is addressed under Section 4.3.

4.4.2 Relationship to Project Objectives

The No Project / No Redevelopment Alternative does not meet any of the project objectives. Specifically, this alternative would not amend the land use or change the zoning to allow for the future development of affordable housing units; would not expand the range of housing available within the San Diego County region in a TPA; would not deliver a graded and improved site for future development; would not ensure high quality development occurs on the site through site-specific development regulations; and would not increase mobility for pedestrians or improve site access.

4.4.3 Comparison of Effects of Alternative to the Proposed Project

4.4.3.1 Air Quality

Under the No Project / No Redevelopment Alternative, none of the construction phase or operational pollutant emissions attributable to approving and implementing the proposed project would be generated. Elimination of these emissions would not avoid or lessen a significant impact since none were identified for the proposed project, as described in Section 2.2, Air Quality, of this EIR. However, construction-related health risk impacts (i.e., maximum incremental increase in risk) for residential receptors in the project area would be avoided by the No Project / No Redevelopment Alternative. Significant air quality impacts of the project would not occur and no air quality mitigation would be required under this alternative.

4.4.3.2 Hazards and Hazardous Materials

Because site demolition and preparation would not occur under this alternative, project impacts related to the handling of hazardous materials, such as asbestos and lead materials, within a quarter-mile of a school would be avoided and there would be no need for mitigation. In addition, project impacts to public health due to the proposed removal of the underground storage tank (UST) and potential to encounter contaminated media would not occur. The No Project / No Redevelopment Alternative would avoid potentially significant impacts related to being located on a site which is included on a list of hazardous materials site compiled pursuant to Government Code Section 65962.5. Significant impacts

would not occur and no hazards or hazardous materials mitigation would be required under this alternative.

4.4.3.3 Noise and Vibration

Project construction would result in potentially significant impacts to nearby sensitive receptors, the impacts of which would be avoided by this alternative. No construction equipment noise would be produced because no redevelopment of the project site would occur. The buildings would continue to be vacant and no operational noise would be produced under this alternative. Significant impacts would not occur, and no noise mitigation would be required under this alternative.

4.4.3.4 Transportation and Traffic

Under the No Project / No Redevelopment Alternative, operational traffic associated with the proposed project would not be produced and Existing, Near-term or Long-term traffic conditions on the roadway network surrounding the project site. No additional traffic would be generated by this site in the future since the existing facility would remain vacant. Therefore, significant and unavoidable project impacts to roadway segments and intersections in the Clairemont Mesa community would be avoided and no mitigation would be required under this alternative. No impacts related to traffic hazards and vehicle miles travelled (VMT) would occur under this alternative.

4.4.3.5 Other Less than Significant Resource Topics

Because the No Project / No Redevelopment Alternative would not result in any changes to the project site and the existing vacant Crime Lab facility would remain, even the project impacts that would be less than significant would not occur. Thus, no impacts to aesthetics, biological resources, agriculture and forestry resources, cultural resources, energy, geology/soils/seismicity, greenhouse gas emissions, hydrology, mineral resources, population and housing, recreation, public services, utilities, tribal cultural resources, land use and planning and wildfire would be expected under this alternative.

4.5 No Project / Existing Community Plan and Zoning Alternative

4.5.1 No Project / Existing Community Plan and Zoning Description and Setting

The No Project / Existing Community Plan and Zoning alternative would not require a CPA and rezone and the existing vacated Crime Lab facility would be demolished and the site sheet graded to prepare for future commercial development. Land uses permitted under the Commercial-Community Center designation include shopping areas with retail, service, civic, and offices uses for the community at large. Specifically, the project site is currently zoned

Commercial Office (CO-1-2) which is to provide employment uses with limited, complementary retail uses and residential uses as specified, and is intended to apply in large-scale activity centers or in specialized areas where a full range of commercial activities is not desirable (SDMC Section 131.0504). Under this alternative, the project site would be available for sale to a developer for the construction of a commercial office development. This alternative would allow for the future construction of up to 70,000 SF of commercial office development, specifically as medical office use, with supporting retail space, as permitted by the development regulations for the CO-1-2 zone. Any future redevelopment of the project site would undergo review by City staff for compliance with the CMCP Community Core CPIOZ B requirements related to architectural/site design, parking design, landscaping, signage and pedestrian/bicycle circulation. Buildings would be limited to 30 feet in height in accordance with the overlay zone in the CMCP.

4.5.2 Relationship to Project Objectives

The No Project / Existing Community Plan and Zoning Alternative would not meet the basic project objectives. Specifically, this alternative would not amend the site's land use or change the zone to allow for the future development of affordable housing units and would not expand the range of housing available within the San Diego County region in a TPA. The project site could be made development-ready, including demolition and removal of existing onsite structures and related facilities; however, commercial office use would not fulfill the regional housing goals to construct more affordable residential housing, which would be non-existent under this alternative.

4.5.3 Comparison of Effects of Alternative to the Proposed Project

4.5.3.1 Air Quality

Under the No Project / Existing Community Plan and Zoning Alternative, similar construction phase or operational pollutant emissions attributable to approving and implementing the proposed project would be generated. While implementation of this alternative would not require changes to land use or zoning, redevelopment of the site with commercial office uses (with limited retail and residential), as permitted under the CMCP and SDMC, would still require site demolition and preparation activities using heavy construction equipment. Even if the existing structures were reused, there would be a need to improve the site to current architectural, landscaping, parking and lighting standards in compliance with the requirements of the Land Development Code. Emissions associated with those construction activities would, however, be less than those anticipated for the proposed project since a lower-stature structure would likely be constructed due to the 30-foot height limit that exists throughout most of the CMCP area. Because the impacts of the project would not exceed stated thresholds and less

construction would be involved with this alternative, less than significant impacts similar to the proposed project would be expected. Construction-related health risk impacts (i.e., maximum incremental increase in risk) for residential receptors in the project area would not be avoided by the No Project / Existing Community Plan and Zoning Alternative because of the need for heavy equipment to redevelop the site with a commercial office uses. As such, significant air quality impacts would still occur and air quality mitigation (Mitigation Measure AIR-1) would be required under this alternative.

4.5.3.2 Hazards and Hazardous Materials

Project impacts related to the handling of hazardous materials, such as asbestos and lead materials, within a quarter-mile of a school would not be avoided because implementation of the existing land use and zoning would lead to redevelopment of the project site with commercial office uses. In addition, project impacts to public health would not be avoided due to the proposed removal of the UST and potential to encounter contaminated media because the site is included on a list of hazardous materials site compiled pursuant to Government Code Section 65962.5. The same significant impacts associated with the project would occur and hazards or hazardous materials mitigation (Mitigation Measure HAZ-1) would be required under this alternative.

4.5.3.3 Noise and Vibration

Project construction would result in potentially significant impacts to nearby sensitive receptors, the impacts of which would not be avoided by this alternative due to the site preparation, demolition and building construction that would occur. Construction equipment noise would be produced during redevelopment of the project site. Operational noise would also be produced by this alternative related to stationary equipment and traffic activity, although less than significant impacts would be similar to the proposed project. Therefore, significant impacts would occur and noise mitigation (Mitigation Measure NOI-1) would be required under this alternative.

4.5.3.4 Transportation and Traffic

Under the No Project / Existing Community Plan and Zoning Alternative, operational traffic associated with the proposed project would still be produced which would cause impacts to Existing, Near-term or long-term traffic conditions on the roadway network surrounding the project site. Assuming up to 70,000 SF of medical office space would be developed on site, this alternative would generate 3,395 daily trips (including a 3 percent transit reduction). **Table 4-1** shows of the trip generation associated with the No Project/Existing Community Plan and Zoning Alternative based on the City's trip generation manual. This alternative would increase the project's total ADT by 1,377 and increase AM

peak hour trips by 60, while PM peak hour trips would increase by 174, as compared to the proposed project. Therefore, significant and unavoidable project impacts to roadway segments and intersections in the Clairemont Mesa community would increase and mitigation (Mitigation Measures TRA-1 through TRA-3) would still be required under this alternative to mitigate for the project's direct impacts. Less than significant impacts related to traffic hazards and vehicle miles travelled (VMT) would occur under this alternative because access points would be constructed in accordance with the City's Street Design Manual and the project would still be located in a TPA.

Table 4-1
Trip Generation – No Project/Existing Community Plan and Zoning Alternative

					AM Peak Hour					PM Peak Hour				
Land Use	**Units**	**Trip Rate**	**% Daily**	**ADT**	**%**	**Trips**	**Split**	**In**	**Out**	**%**	**Trips**	**Split**	**In**	**Out**
Office- Medical Office	70 ksf	50/ ksf	-	3,500	6%	210	(8:2)	168	42	10%	350	(7:3)	105	245
Office Reduction due to Transit Stations*	-	-	3%	-105	5.5%	-12		-9	-3	2%	-7		-2	-5
Total				**3,395**		**198**		**159**	**39**		**343**		**103**	**240**

Source: Chen-Ryan 2019
Notes:
* Trip reductions applied per the City of San Diego Traffic Impact Study Manual (July 1998)
** Trip generation developed using methods in City of San Diego Land Use Code – Trip Generation Manual (May 2003)

4.5.3.5 Other Less than Significant Resource Topics

Because the No Project / Existing Community Plan and Zoning Alternative would not result in any changes to the planned land use for the project site and the existing vacant Crime Lab facility would be redeveloped with commercial office uses, project impacts would occur and continue to be less than significant. Thus, less than significant impacts to aesthetics, biological resources, agriculture and forestry resources, cultural resources, energy, geology/soils/seismicity, greenhouse gas emissions, hydrology, mineral resources, population and housing, recreation, public services, utilities, tribal cultural resources, land use and planning and wildfire would be expected under this alternative.

4.6 Reduced Intensity Project Alternative

4.6.1 Reduced Intensity Project Alternative Description and Setting

The Reduced Intensity Project Alternative would result in the same CPA and zone change as the proposed project and the existing vacated Crime Lab facility

would be demolished. Under this alternative, the project site would be entitled for the construction of a 312-unit affordable housing project, which would house approximately 633 people. This alternative was developed to reduce the proposed project's direct traffic impacts on roadway segments or intersections by decreasing the unit count to a point where at least one traffic impact would be reduced to less than significant. Reducing units would reduce both the volume of daily trips generated by the site and the number of peak hour trips occurring during the most impacted periods of the day. Under this alternative the permitted unit count would be reduced from 404 units to 312 units. All other aspects of the project would remain the same as the proposed, except that the required amount of parking would be reduced to reflect the lower number of residents.

4.6.2 Relationship to Project Objectives

The Reduced Intensity Project Alternative would meet many of the basic project objectives. Specifically, this alternative would amend the land use or change the zone to allow for the future development of affordable housing units; would expand the range of housing available within the region in a TPA; and would ensure high quality development occurs on the site through site-specific development regulations. The project site could be made development-ready, including demolition and removal of existing onsite structures and related facilities; however, this alternative would not provide as much housing supply (i.e., 92 less affordable units) as the proposed project, effectively conflicting with County and City policies maximize affordable housing supply in response to the regional housing crisis.

4.6.3 Comparison of Effects of Alternative with the Proposed Project

4.6.3.1 Air Quality

Under the Reduced Intensity Project Alternative, similar construction phase or operational pollutant emissions attributable to approving and implementing the proposed project would be generated. Redevelopment of the site with residential development, as permitted under the amended CMCP and SDMC, would require site demolition and preparation activities using heavy construction equipment similar to those associated with the proposed project. Emissions associated with those construction activities could, however, be less than those anticipated for the proposed project since a lower-stature structure would likely be constructed due to the unit reduction. Because the impacts of the project would not exceed stated thresholds and less construction would be involved, this alternative would also have less than significant impacts similar to the proposed project. Construction-related health risk impacts (i.e., maximum incremental increase in risk) for residential receptors in the project area would not be avoided by the Reduced Intensity Project Alternative because of the need for heavy equipment to redevelop the site with residences. As such, significant air quality impacts of

the project would still occur and air quality mitigation (Mitigation Measure AIR-1) would be required under this alternative.

4.6.3.2 Hazards and Hazardous Materials

Project impacts related to the handling of hazardous materials, such as asbestos and lead materials, within a quarter-mile of a school would not be avoided because implementation of the alternative would lead to redevelopment of the project site with residential use. In addition, project impacts to public health due to the proposed removal of the UST and potential to encounter contaminated media because the site is included on a list of hazardous materials site compiled pursuant to Government Code Section 65962.5. The same significant impacts associated with the project would occur and hazards or hazardous materials mitigation (Mitigation Measure HAZ-1) would be required under this alternative.

4.6.3.3 Noise and Vibration

Project construction would result in potentially significant impacts to nearby sensitive receptors, the impacts of which would not be avoided by this alternative due to the site preparation, demolition and building construction that would occur. Construction equipment noise would be produced during redevelopment of the project site and would have the potential to expose nearby sensitive receptors to noise in excess of the City's thresholds. Operational noise would also be produced by this alternative related to stationary equipment and traffic activity. The reduction in trips under this alternative would not appreciably reduce traffic-related noise. Therefore, significant impacts would occur and noise mitigation (Mitigation Measure NOI-1) would be required under this alternative.

4.6.3.4 Transportation and Traffic

Under the Reduced Intensity Project Alternative, operational traffic associated with the proposed project would still be produced which would cause significant impacts to Existing, Near-term or Cumulative plus Project traffic conditions on the roadway network surrounding the project site. However, the reduced trip generation and peak hour traffic would lessen project impacts on area intersections and would avoid a cumulatively significant roadway segment impact along Balboa Avenue between its intersections with Charger Boulevard and the Intestate 805 (I-805) southbound ramps. **Table 4-2** shows a comparison of the project impacts with those of the Reduced Intensity Project Alternative along the Balboa Avenue roadway segment significantly impacted by the proposed project.

Table 4-2
Roadway Segment Impact – Reduced Project Intensity Alternative

Roadway	Segment	Roadway Classification	LOS E Threshold	Project Trip Assignment: Total Project Trip Generation ADT	Project Trip Assignment: Project Trip Distribution	Project Trip Assignment: Project Trip Assessment ADT	Existing Conditions: Base ADT	Existing Conditions: V/C	Existing Conditions: LOS	Existing Plus Project: Ex + P ADT	Existing Plus Project: V/C	Existing Plus Project: LOS	Existing Plus Project: Δ	Existing Plus Project: S?
Balboa Avenue	Charger Blvd & I-805 South-bound Ramps	6-Lane Major Arterial	50,000	1,558	32%	499	61,846	1.237	F	62,345	1.247	F	0.010	No

Roadway	Segment	Roadway Classification	LOS E Threshold	Project Trip Assignment: Total Project Trip Generation ADT	Project Trip Assignment: Project Trip Distribution	Project Trip Assignment: Project Trip Assessment ADT	Near Term: Base ADT	Near Term: V/C	Near Term: LOS	Near Term Plus Project: NT + P ADT	Near Term Plus Project: V/C	Near Term Plus Project: LOS	Near Term Plus Project: Δ	Near Term Plus Project: S?
Balboa Avenue	Charger Blvd & I-805 South-bound Ramps	6-Lane Major Arterial	50,000	1,558	32%	499	63,430	1.269	F	63,929	1.279	F	0.010	No

Roadway	Segment	Roadway Classification	LOS E Threshold	Project Trip Assignment: Total Project Trip Generation ADT	Project Trip Assignment: Project Trip Distribution	Project Trip Assignment: Project Trip Assessment ADT	Cumulative: Base ADT	Cumulative: V/C	Cumulative: LOS	Cumulative Plus Project: Hz + P ADT	Cumulative Plus Project: V/C	Cumulative Plus Project: LOS	Cumulative Plus Project: Δ	Cumulative Plus Project: S?
Balboa Avenue	Charger Blvd & I-805 South-bound Ramps	6-Lane Major Arterial	50,000	1,558	32%	499	65,200	1.304	F	65,699	1.314	F	0.010	No

Notes:

S? = Significant impact?

* Connecting intersections (i.e. Balboa Ave/Charger Blvd and Balboa Ave/I-805 SB Ramps) operate at LOS D or better; therefore, the roadway segment is not considered to have a significant impact

Source: Chen Ryan 2019

As shown in the table, significant and unavoidable project impacts to one segment of Balboa Avenue in the Clairemont Mesa community in the Near-term plus Project and Cumulative plus Project scenarios (i.e., under all three access options) would be avoided by this alternative. However, significant and unavoidable direct impacts to another segment of Balboa Avenue, between Cannington and Charger, and cumulative impacts to the Mount Etna Drive roadway segment, between Mount Everest Boulevard and Genesee Avenue, would be reduced but not eliminated by this alternative. In addition, direct impacts to intersections would be lessened but not avoided and mitigation (Mitigation Measures TRA-1 through TRA-3) would still be required under this alternative, while cumulative impacts to intersections would remain significant and unavoidable because the mitigation cannot be assured (Mitigation Measures TRA-4 and TRA-5). Less than significant impacts related to traffic hazards, VMT and other circulation topics would still occur under this alternative because access points would be constructed in accordance with the City's Street Design Manual and the project would still be located in a TPA.

4.6.3.5 Other Less than Significant Resource Topics

Because the Reduced Intensity Project Alternative would result in changes to the planned land use for the project site to allow for future residential development and the existing vacant Crime Lab facility would be redeveloped, project impacts would occur. Thus, less than significant impacts to aesthetics, biological resources, agriculture and forestry resources, cultural resources, energy, geology/soils/seismicity, greenhouse gas emissions, hydrology, mineral resources, population and housing, recreation, public services, utilities, tribal cultural resources, land use and planning and wildfire would be expected under this alternative.

4.7 Summary of Alternatives

A summary of impacts of the alternatives compared to the proposed project is included in **Table 4-3**, pursuant to CEQA Guidelines Section 15126.6(d).

Table 4-3
Comparison of Alternatives to the Proposed Project

	Issue Area	Proposed Project Impacts	No Project / No Redevelopment Alternative	No Project/ Existing Community Plan and Zoning Alternative	Reduced Intensity Project Alternative
2.1	Air Quality	SM	LTS	SM(-)	SM
2.2	Hazards and Hazardous Materials	SM	LTS	SM	SM
2.3	Noise and Vibration	SM	LTS	SM	SM
2.4	Transportation and Traffic	SU	LTS	SU(+)	SU(-)

LTS = Less than significant
SM = Significant and mitigated
SU = Significant and unavoidable
(-) Impacts would be less than those of the proposed project
(+) Impacts would be greater than those of the proposed project

4.8 Environmentally Superior Alternative

CEQA Guidelines Section 15126.6(a) states that an EIR shall describe a range of reasonable alternatives. As evaluated in Chapter 2.0 of this EIR, the significant impacts of the proposed project would affect air quality (construction air toxic emissions); hazards and hazardous materials (USTs and asbestos/lead materials); noise (construction equipment noise); and transportation and traffic (roadway segment and intersection operations). As it would substantially lessen impacts to each of these issue topics to a less than significant level, the No Project Alternative / No Redevelopment Alternative would be the environmentally superior alternative.

However, CEQA Guidelines Section 15126.6(e)(2) also states that if the environmentally superior alternative is the “no project” alternative, the EIR shall also identify an environmentally superior alternative from among the other alternatives. The Reduced Intensity Project Alternative would be the environmentally superior alternative from the remaining alternatives, as it would reduce vehicle trips and avoid significant and unavoidable traffic impacts associated with the proposed project at one roadway segment location in the study area, and it would meet many of the basic project objectives.

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CHAPTER 5.0 OTHER CEQA CONSIDERATIONS

This chapter presents the evaluation of other types of environmental impacts required by the California Environmental Quality Act (CEQA) that are not covered within the other chapters of this Environmental Impact Report (EIR). The other CEQA considerations include growth-inducing impacts, environmental effects that were found not to be significant, significant irreversible environmental changes that would be caused by the proposed project, and significant and unavoidable adverse impacts.

5.1 Growth-Inducing Impacts

Pursuant to Section 15126.2(e) of the CEQA Guidelines, an EIR must address whether a project will directly or indirectly foster growth. Section 15126.2(e) reads as follows:

> *[An EIR shall] discuss the ways in which the proposed project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment. Included in this are projects which would remove obstacles to population growth (a major expansion of a wastewater treatment plant might, for example, allow for more construction in service areas). Increases in population may tax existing community service facilities, requiring construction of new facilities that could cause significant environmental effects. Also discuss the characteristic of some projects which may encourage and facilitate other activities that could significantly affect the environment, either individually or cumulatively. It must not be assumed that growth in any area is necessarily beneficial, detrimental, or of little significance to the environment.*

A project's potential to induce growth does not automatically mean that it will result in growth. The potential for growth is affected by local government regulations including land use plans and policies and zoning ordinances. Growth occurs through capital investment in new economic opportunities from both public and private entities. The nature of the resulting growth (i.e., the location, size and type of the development) is also typically the result of numerous factors including local government planning, availability of public services, natural resources, economic conditions as well as local political and environmental concerns. Consequently, these factors can have an important role in determining the extent of a project's potential growth-inducing impacts.

Typically, the growth-inducing potential of a project would be considered significant if it stimulates human population growth or a population concentration above what is assumed in local and regional land use plans, or in projections

made by regional planning authorities. Significant growth potential could also occur if the project provides infrastructure or service capacity to accommodate growth levels beyond those permitted by local or regional plans and policies. As discussed below, this analysis evaluates whether the proposed project would directly or indirectly induce economic, population, or housing growth in the surrounding environment.

5.1.1 Direct Growth Inducing Impacts to the Surrounding Environment

The proposed project would amend the Clairemont Mesa Community Plan and rezone the project site to allow for a future residential development on the project site, with a maximum of 404 units. While the future development could propose a reduced number of units, for the purposes of CEQA the following analysis evaluates the conservative scenario of full buildout allowed under the proposed amendments to the Community Plan and zone change.

The potential for growth inducement can be measured through the evaluation of the proposed project's consistency with regional growth projections. As described in Section 3.4, Land Use, and Section 3.5, Population and Housing, of this EIR, San Diego Association of Governments (SANDAG) policies concerning regional growth inducement anticipate growth in the Clairemont Mesa community. As analyzed in Section 3.5, Population and Housing, the population growth in the community of Clairemont Mesa is forecasted to increase by 16.5 percent from 81,498 residents in 2020 to 94,965 residents in 2050 (SANDAG 2013). Using the Clairemont Mesa community's average multi-family person per household of 2.05 people, and a maximum buildout of 404 units, the project has the potential to generate an additional 829 people in the Clairemont Mesa community, which would represent 6.2 percent of 13,467 future residents anticipated in Clairemont Mesa. Therefore, the community planned for and could accommodate the anticipated increases in population and housing associated with the proposed project.

Further, a project could directly induce growth if it would remove barriers to population growth, such as a change to a jurisdiction's general plan and/or zoning ordinance that allows new residential development to occur. The proposed project seeks to amend the Clairemont Mesa Community Plan as well as rezone the project site to allow for the development of up to 404 new residential units. The existing land use designation for the project site, as detailed in Chapter 1.0, Project Description, of this EIR, is Commercial Office (CO-1-2). The CO zone permits employment uses, with limited complementary retail uses and residential uses as specified and is intended to apply in large-scale activity centers or in specialized areas where a full range of commercial activities is not desirable (San Diego Municipal Code [SDMC] Section 131.0504). The CO-1-2 zone is intended to accommodate a mix of office and residential uses that serve

as an employment center and permits a maximum density of one dwelling unit for each 1,500 square feet (SF) of lot area. Under the proposed project, the site would be re-designated to Residential-High (45-73 du/ac) and rezoned as Residential – Multiple Units (RM-3-9). The Community Plan Implementation Overlay Zone (CPIOZ) Type A (CPIOZ-A) supplemental development regulations would be consistent with the general intent of the RM-3-9 zone as modified by the regulations contained in Appendix B.

In order to support the proposed 404 residential units proposed for the future development, maintenance personnel and property management staff would be needed during operation of the future development. However, such use would generate a relatively small number of employees and would not support a large employment staff. In addition, it is anticipated that the majority of the employees would be drawn from within the region's existing employment base and would not require new workers to move to the project area. Therefore, the proposed project would not draw new residents to the area looking for new employment opportunities and as such, would not induce unplanned population growth.

Other employment opportunities resulting from the purposed project would include employment of temporary construction workers during demolition and site preparation and during construction of the future development. In addition, maintenance personnel and property management staff would be needed during project operation. Many of these employees are already present in the region and living in San Diego, and the proposed project would not need to recruit substantial numbers of new employees living elsewhere to the region. Demolition and construction of the proposed project would not cause unplanned population growth as the workforce already exists in the region. In addition, the proposed project is located in an urbanized area and is adequately served by the existing infrastructure.

5.1.2 Indirect Growth Inducing Impacts to the Surrounding Environment

A project would indirectly induce growth if it would increase the capacity of infrastructure in an area in which the public service currently meets demand. Examples include increasing the capacity of local utilities or proposing roadway improvements beyond those needed to meet existing demand.

The proposed project could potentially induce indirect population growth through the creation of jobs and increased residential opportunities. However, as described above and in Section 3.5, Population and Housing, this growth is consistent with SANDAG's projections for local and regional growth. As described within Section 2.4, Traffic and Transportation, and Section 3.8, Utilities and Service Systems, the proposed project would not increase the city's infrastructure to service the proposed project nor would it include roadway improvements. Furthermore, the proposed project would not result in a need for

new public facilities or utilities, as discussed in Section 3.6, Public Services and Section 3.8, Utilities and Service Systems. Police and fire protection services, parks, water infrastructure, and wastewater systems are all sufficient to serve the project site and would not necessitate expansions or improvements that would remove barriers to additional future growth. Therefore, the proposed project would not result in substantial indirect growth inducement.

5.2 Environmental Effects Found Not to Be Significant

CEQA Guidelines Section 15128 requires an EIR to "contain a statement briefly indicating the reasons that various possible significant effects of a project were determined not to be significant and therefore were not discussed in detail in the EIR." This section discusses those issue areas that were determined not to be significant.

5.2.1 Agricultural and Forestry Resources

According to the California Department of Conservation's San Diego County Important Farmland map, the project site is classified as "Urban and Built-Up Land," which does not contain any agricultural uses or areas designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (California Department of Conservation 2016). Additionally, according to the City of San Diego's General Plan and SDMC, the project site is not designated as forest land (City of San Diego 2015, City of San Diego 2019). Therefore, the proposed project would not convert farmland to a non-agricultural use, and no impact to agricultural resources would occur.

5.2.2 Biological Resources

The project site is fully developed and located in the urbanized community of Clairemont Mesa. The project site contains the former San Diego County Regional Crime Lab (Crime Lab) buildings, associated parking, and minimal ornamental landscaping. Due to the developed nature of the project site, it does not support any candidate, sensitive, or special species. The surrounding area is also void of any native habitats, with the closest open space and recreational areas being Tecolote Canyon, approximately one mile east of the project site, and Marian Bear Memorial Park, approximately 1.75 miles north of the project site. Therefore, implementation of the proposed project would not have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species or any riparian habitat or other sensitive natural community in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service.

Additionally, there are no state or federally protected wetlands within the project vicinity. Therefore, the proposed project would not have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.

The project site does not contain any waterways or state and/or federally protected habitats, and, due to the project site and vicinity's developed nature, does not serve as a wildlife movement corridor. Therefore, the proposed project would not interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.

The project site is not located in an area subject to an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other such plans. Additionally, the proposed project would comply with all applicable policies or ordinance aimed at protecting biological resources. Therefore, the proposed project would not conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance, and would not conflict with an applicable biological resources conservation plan.

5.2.3 Cultural Resources

The project site is currently developed with the former Crime Lab buildings, associated parking, and minimal ornamental landscaping. Prior to being used as the Crime Lab, the existing buildings were constructed as the Clairemont General Hospital in 1961 (Ninyo & Moore 2019). Since the existing buildings are over 50 years old, the structures on the project site have the potential to be considered a historical resource if they meet any of the criteria listed in section 15064.5 of the CEQA Guidelines. In accordance with Section 15064.5 of the CEQA Guidelines, a resource generally shall be considered by the lead agency to be "historically significant" if the resource meets the criteria for listing on the California Register of Historical Resources (Pub. Res. Code Section 5024.1, Title 14 CCR, Section 4852) including the following:

A. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
B. Is associated with the lives of persons important in our past;
C. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
D. Has yielded, or may be likely to yield, information important in prehistory or history.

While the buildings were used as the Clairemont General Hospital and the Crime Lab, the buildings are not associated with events that significantly contributed to the history of California or the local area. Furthermore, the buildings themselves do not provide context or information for a particular time period as the buildings have an architecture style of a generic office building, which lacks artistic value and is consistent with surrounding office buildings. Therefore, the existing buildings would not meet Criterion A or D. The buildings are currently one- to two-story structures with limited architectural design features and have a visual character that is similar to other office buildings in the area. Furthermore, the buildings do not portray a specific design aesthetic that is of a particular time period and is not associated with the lives of historically important persons, such as a prominent architecture. Therefore, the existing buildings do not meet Criterion B or C. Because the existing buildings would not meet any of the criteria listed above, the buildings would not be eligible for designation as a historical resource. Therefore, demolition of the existing buildings would not cause an adverse effect to a historical resource.

Additionally, implementation of the proposed project would allow for the development of a future development, through the CPA and rezone, and the demolition of the existing unoccupied buildings and related facilities on-site. Site preparation activities would involve ground-disturbing activities, which have the potential to encounter unknown buried historic and archaeological resources. The project area is underlain by Chesterton-Urban land complex soil type, which is primarily composed of sandy loam and artificial fill materials (USDA 2019). Because of the underlying soil type and the previous disturbance conducted on the site during prior development activities, the likelihood of encountering archaeological resources or human remains during project implementation is considered to be very low. However, there is a possibility, though extremely slight, that human remains could be encountered during ground-disturbing activities. Regardless, if human remains were identified, provisions of PRC Section 5097.98 would apply, whereby the San Diego County Coroner would be contacted, as well as provisions of Health and Safety Code Section 7050.5, which require that, if the remains are determined to be Native American, the County Coroner would notify the Native American Heritage Commission (NAHC) in accordance with Health and Safety Code Section 7050.5, subdivision (c), and PRC Section 5097.98 (as amended by Assembly Bill 2641). The NAHC would designate a Most Likely Descendant for the remains per PRC Section 5097.98. Because the likelihood of encountering human remains is extremely low, and because any such discovery would be covered under existing state law, the potential impact to human remains would be less than significant.

5.2.4 Geology, Soils, and Seismicity

Similar to all of southern California, the project site is in a known seismically active region where the potential of seismic hazards exists. According to the California Department of Conservation's Map Data Viewer, the project site is not located on an Alquist-Priolo Earthquake Fault Zone (California Department of Conservation 2019). The nearest Alquist-Priolo Fault is the Rose Canyon Fault, which is located approximately 2.3 miles west of the project site. Therefore, there is not a risk of fault rupture of a known Alquist-Priolo fault on the project site.

Additionally, all of San Diego County, including the project site, is located within Seismic Zone 4 (Section 1629.4.1 of the California Building Code [CBC]), which is the highest seismic zone, and is subject to ground shaking. A seismic event on the Rose Canyon Fault could cause significant ground shaking on the project site. Construction of the future development would be required to comply with all applicable seismic-safety development requirements. Therefore, conformance with development standards during construction of the future development would minimize seismic ground shaking effects in the event of a major earthquake and ensure that the potential seismic or geologic hazard impacts are not significant.

The entire project site has been previously graded and disturbed during construction of the existing buildings. The project site is underlain by Chesterton-Urban land complex soil type, which is primarily composed of sandy loam and fill materials (USDA 2019). Construction activities would include ground disturbance, however, given the shallow depth of earthwork required and the site's relatively level topography, rapid storm water runoff would be limited, and would not exacerbate erosion potential. Furthermore, all construction activities, including site demolition and preparation and construction of the future development, would comply with applicable erosion-control regulations, such as the National Pollution Discharge Elimination System, which would require site-specific measures to minimize erosion off-site. Therefore, impacts related to soil erosion would be less than significant.

According to the City's General Plan, the project site is designated as having a nominal to low risk for geologic hazards, including liquefaction (City of San Diego 2008a). Additionally, the project site is relatively flat with no surrounding slopes and as such, there is no potential for landslides onsite. As such, the proposed project would not cause potentially substantial adverse effects related to liquefaction or landslides, and impacts would be less than significant.

Expansive soils are fine-grained soils (generally high-plasticity clays) that can undergo a significant increase in volume with an increase in water content and a significant decrease in volume with a decrease in water content. Changes in the water content of an expansive soil can result in severe distress to structures constructed upon the soil. As mentioned above, the project site is underlain by

Chesterton-Urban land complex soil type, which is primarily composed of sandy loam and fill materials (USDA 2019). Based on the underlying soil types, the project site generally has a very low to low expansion potential, and liquefaction is unlikely to occur on site. Therefore, impacts associated with expansive soils would be less than significant.

Paleontological resources (fossils) are the remains and/or traces of prehistoric plant and animal life exclusive to human remains or artifacts. Fossil remains such as bones, teeth, shells, and wood are found in the geologic deposits (rock formations) in which they were originally buried. According to the City's General Plan EIR, the Clairemont Mesa community is located on the Scripps Formation and Ardath Shale Formation, both which have high paleontological resource sensitivity (City of San Diego 2007). Construction activities would involve ground-disturbing activities, however, the depth of grading is anticipated to be relatively limited as only sheet grading for drainage purposes would be required. In addition, because of the previous disturbance conducted on the site during prior development activities, the likelihood of encountering fossils during project implementation is considered to be low. Therefore, impacts related to paleontological resources would be considered less than significant.

5.2.5 Hydrology

Implementation of the proposed project would include the demolition of the existing unoccupied buildings and related facilities on-site, and allow for the construction of a future development. Other site preparation activities would include the disposal of the demolition debris, and limited grading of the site in preparation for future development. During demolition and site preparation activities and during construction of the future development, exposed soil could temporarily increase the amount of sediment in runoff, which would enter the existing storm drain system. The proposed project would be required to obtain and comply with the Construction General Permit from the State Water Resources Control Board (SWRCB). Stormwater best management practices (BMPs) would be required to limit erosion, minimize sedimentation, and control stormwater runoff water quality during construction activities. It is assumed that the limits of disturbance for the proposed project would require a Stormwater Pollution Prevention Plan (SWPPP). Compliance under the Construction General Permit and SWPPP would ensure that construction activities would not degrade the surface water quality of receiving waters to levels that would be below the standards that are considered acceptable by the San Diego Regional Water Quality Control Board (RWQCB) or other regulatory agencies.

Upon completion of construction of the future development, the project site would be developed and landscaped, where any additional BMPs would be incorporated to minimize discharge of pollutants into the existing municipal storm

drain system. The amount of stormwater runoff, and surface or ground water quality from the project site would not change substantially from existing conditions after construction of the future development. Therefore, the proposed project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. Impacts would be less than significant.

The proposed project would allow for the construction of a future development within an existing site that is currently developed. After the completion of construction of the future development, the amount of impervious surfaces onsite would remain similar to the existing conditions, and ground surface would be restored similar to existing conditions. Drainage within the project site would continue to be serviced by the existing storm drain system. Additionally, no stream or river courses exist within the site vicinity that could be affected by the proposed project. Therefore, impacts on the existing drainage pattern regarding siltation or erosion and surface runoff on- or off-site would be less than significant.

5.2.6 Land Use and Planning

The project's potential for significant land use impacts related to Issues 1 through 6 (consistency with adopted land use designations, conflict with local plans, and construction in a flood hazard area) are addressed in Section 3.4, Land Use and Planning. The following discussion is focused on those land use effects of the proposed project that have no potential for a significant impact.

The proposed project would allow for the construction of a future development on the project site. The project site is surrounded by existing residential and commercial land uses and currently developed with existing buildings. Development enabled by the project would be built on a parcel where urban land development is already allowed and would connect with the surrounding parcels and land uses. Furthermore, no additional roadways or other linear features would be constructed as part of the project. Therefore, the development enabled by the project would not physically divide an established community and no impact would occur.

5.2.7 Mineral Resources

According to the Conservation Element of the City's General Plan, the project site is located in an area designated as a mineral resource zone (MRZ-) 3 (City of San Diego 2008b). MRZ-3 areas are considered areas containing mineral deposits, the significance of which cannot be evaluated from available data. While the site is classified MRZ-3, the project site is not currently designated for mineral extraction or for future mineral extraction activities and is not suitable for mineral extraction as it is located in an urban, developed setting. Therefore,

implementation of the project would not result in the loss of available mineral resources or a locally-important mineral resource recovery site, and no impact would occur.

5.2.8 Population and Housing

The project's potential for significant population and housing impacts related to Issue 1 (substantial unplanned population growth**)** is addressed in Section 3.5, Population and Housing. The following discussion is focused on those population and housing effects of the proposed project that have no potential for a significant impact.

The project site is currently developed with existing buildings that were formerly used as the Crime Lab, which did not support residential use. Therefore, the proposed project would not displace people or require replacement housing elsewhere. Furthermore, the project would allow for the development of up to 404 additional residential units in the City. Therefore, no impact would occur regarding the displacement of existing people or housing, necessitating the construction of replacement housing elsewhere.

5.2.9 Tribal Cultural Resources

The County, as lead agency, initiated tribal consultation in accordance with Assembly Bill (AB) 52 and Senate Bill (SB) 18 for the proposed project (Appendix J). Consultation was initiated on September 28, 2018 and concluded on December 28, 2018. No tribes have requested consultation with the County for the project. Implementation of the proposed project would include the demolition of the existing unoccupied buildings and related facilities on-site, and allow for construction a future development. Other site preparation activities would include the disposal of the demolition debris, and mass grading of the site in preparation for residential construction. Site preparation activities would involve ground-disturbing activities, which have the potential to encounter unknown buried archaeological resources. However, since the project site has been previously graded, ground-disturbing activities associated with the project is expected to encounter artificial fill and is not anticipated to reach native soils. Furthermore, the depth of grading is anticipated to be relatively limited as only sheet grading for drainage purposes would be required. As such, the project area would have an extremely low potential for the presence of archaeological resources, which could be considered tribal cultural resources. Therefore, the proposed project would have no impact on tribal cultural resources.

5.2.10 Wildfire

The project site is located in an urban, developed setting where the majority of vegetation in the area consists of ornamental landscaping. The project site is

relatively flat with no surrounding slopes and is bounded by residential and commercial land uses and roadways. While the nearest wildland area is located approximately 0.75-miles to the west of the project site, the area between the project site and the wildland area is fully developed with no substantial vegetation areas which could aid in the spread of wildfire. Therefore, the potential for a wildland fire to occur at the project site is considered to be very low. In addition, the project would be designed to comply with all development standards regarding fire prevention, protection, and management features established by the City to further minimize the risk of wildland fire. For these reasons, the project would not expose people to an increase risk of wildfire, would not impair an adopted wildfire emergency response plan, and would not require any additional fire protection features above those required by law. Therefore, the project would have no impact on wildfire.

5.3 Significant Irreversible Environmental Changes

Section 21100(b)(2)(B) of the CEQA Statutes and Section 15126.2(c) of the CEQA Guidelines require that an EIR analyze the extent to which the proposed project's primary and secondary effects would impact the environment and commit nonrenewable resources to uses that future generations would not be able to reverse. "Significant irreversible environmental changes" include the use of nonrenewable natural resources during the initial and continued phases of the project, should this use result in the unavailability of these resources in the future. Primary impacts and, particularly, secondary impacts generally commit future generations to similar uses. Also, irreversible damage can result from environmental accidents associated with projects. Irretrievable commitments of these resources are required to be evaluated in an EIR to ensure that such consumption is justified.

Approval of the proposed project would cause irreversible environmental changes consisting of the following:

- Commitment of land that will involve a large commitment of nonrenewable resources: The relatively small commitment of land to these uses, which is already developed with the Crime Lab buildings, is considered less than significant when compared to other development in a local and regional context and the surrounding urban built environment.
- Increased requirements of public services and utilities which represent a permanent commitment of these resources: There would be an adequate supply of water and wastewater resources to supply the proposed project and the ability to provide fire protection, police protection, and solid waste services (see Section 3.6, Public Services, and 3.8, Utilities and Service Systems).

- Use of various nonrenewable natural resources such as diesel, gasoline, or oil for construction equipment and natural gas or other fossil fuels used to provide power and heating sources: The energy consumed in development and maintaining the project site may be considered a permanent investment. The proposed project would not use nonrenewable fossil fuels at a greater rate than other typical construction projects. If the proposed project were not to occur, similar resources would likely be used per the project site's existing land use. The proposed project would not increase the overall rate of any nonrenewable natural resource or result in the substantial depletion of any nonrenewable resource.
- Use of various renewable natural resources, such as water, lumber, and soil, for construction and operations: The proposed project is a relatively minor consumer of these supplies when compared to other local and regional users. The proposed project would not increase the overall rate of use of any renewable natural resource or result in the substantial depletion of any renewable resource.

5.4 Significant and Unavoidable Impacts

CEQA Guidelines Section 15126.2(c) requires that an EIR describe any significant impacts that cannot be avoided, including those impacts that can be mitigated but not reduced to a less-than-significant level. Chapter 2.0 of this EIR describes the potential environmental impacts of the proposed project and recommends mitigation measures to reduce impacts, where feasible. Potentially significant impacts are identified in the areas of air quality, hazards and hazardous materials, noise, and transportation. However, except for transportation, these potentially significant impacts would be mitigated to below a level of significance with implementation of mitigation measures identified in this EIR. As discussed in detail in Section 2.4, Transportation and Traffic, the project would result in significant and unavoidable impacts.

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CHAPTER 7.0 LIST OF MITIGATION MEASURES

This section consists of **Table 7-1**, which is a comprehensive listing of all mitigation measures proposed for the project and all project design considerations that were relied upon to reduce impacts. This list is divided into sections according to the subchapter and impact number.

Table 7-1
Mitigation Measures

Impact Number	Mitigation Measure	Mitigation Measure Description
Air Quality		
AIR-1	AIR-1	**Construction Equipment:** The project shall require all off-road diesel equipment greater than 50 horsepower (hp) used during construction activities to meet USEPA Tier 4 final off-road emission standards or equivalent. Such equipment shall be outfitted with Best Available Control Technology (BACT) devices including a CARB-certified Level 3 Diesel Particulate Filter or equivalent.
Hazards and Hazardous Materials		
HAZ-1	HAZ-1	**Soil Contamination, Lead, and Asbestos Recommendations:** Demolition of the existing building and construction of the future development shall follow the findings and recommendations of the Phase I ESA, including: • In future development of the project site, preparation and implementation of a soil management plan shall be used during construction activities near areas of known contamination. Where contamination is known or suspected, and where grading or other soil disturbance activities could encounter contaminated media, undocumented USTs, or other unknown contamination or hazards, implementation of a soil management plan provides protocols to address hazardous conditions, if encountered, in accordance with local, state, and federal regulations. • Soil sampling shall be performed at the time of the UST removal to evaluate whether an unauthorized release has occurred. • A worker health and safety plan shall be prepared and implemented. • Asbestos-containing materials and lead-based paint shall be evaluated prior to razing of the site building.

Impact Number	Mitigation Measure	Mitigation Measure Description
HAZ-2	HAZ-2	**Traffic Control Plan:** Prior to the start of construction of the future development, the construction contractor shall prepare a Traffic Control Plan satisfactory to the City Engineer. The Traffic Control Plan shall show all signage, striping, delineated detours, flagging operations, and any other devices that will be used during construction to guide motorists, pedestrians, and bicyclists through the construction area and allow for adequate access and circulation to the satisfaction of the City Engineer. The Traffic Control Plan shall be prepared in accordance with the City's traffic control guidelines and shall be prepared to ensure that emergency access will be continuously provided.
HAZ-3	HAZ-1	Refer to Mitigation Measures HAZ-1 and HAZ-2 above.
Noise and Vibration		
NOI-1	NOI-1	**Construction Noise.** The following construction noise abatement techniques shall be implemented by the construction contractor to reduce construction-related noise to less than a 10 dBA increase in existing ambient noise levels at nearby noise-sensitive receivers: • Temporary noise barriers shall be placed to block the line-of-sight between construction equipment operation and the residential land uses in proximity to the proposed project's property line to the north and west. One of the following two options shall be implemented by the construction contractor: a. A temporary noise barrier shall be placed along the entire western property line of the project site and approximately 50 feet to the north from the northwestern corner at a height of 14 feet with noise blankets capable of achieving sound level reductions of at least 8 dBA to block the line-of-sight between construction equipment operations and the offsite noise-sensitive receivers to the south and southwest; or b. A temporary 50-by-50-foot "L-shaped" noise barrier shall be constructed for each small construction area at a height of 14 feet with noise blankets capable of achieving sound level reductions of at least 8 dBA to block the line-of-sight between construction equipment operations and the offsite noise-sensitive receivers.

Impact Number	Mitigation Measure	Mitigation Measure Description
Transportation and Traffic		
TRA-1	TRA-1	**Mount Everest Boulevard & Balboa Avenue Intersection Modifications (Access Options 1 and 3)** Prior to issuance of the first building permit, Owner/Permittee shall assure by permit and bond the restriping of the northbound and southbound approaches on Mount Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing, satisfactory to the City Engineer. Improvements shall be completed and operational prior to first occupancy.
	TRA-2	**Genesee Avenue & Balboa Avenue Intersection Modifications (Access Option 3)** Prior to issuance of the first building permit, Owner/Permittee shall assure by permit and bond the optimization of signal timing or installation of traffic systems management (TSM) strategies (e.g., adaptive signal technology) to maximize efficiency of the existing roadway through improved signal communications and operations satisfactory to the City Engineer. Improvements shall be completed and operational prior to first occupancy.
TRA-2	TRA-1 through TRA-2	Refer to Mitigation Measures TRA-1 and TRA-2 above.
	TRA-3	**Charger Boulevard & Balboa Avenue Intersection Modifications (all access options)** Prior to issuance of the first building permit, Owner/Permittee shall assure by permit and bond the restriping of the northbound shared through-left turn lane into an exclusive through lane and convert the northbound and southbound signal from split phasing to protective phasing satisfactory to the City Engineer. Improvements shall be completed and operational prior to first occupancy.
TRA-3	TRA-1 through TRA-3	Refer to Mitigation Measures TRA-1 and TRA-3 above.
	TRA-4	**Genesee Avenue & Clairemont Mesa Boulevard Adaptive Signal Control System (All Access Options)** Prior to issuance of the first building permit, Owner/Permittee shall pay the fair share toward optimizing signal timing or installing traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway through improved signal communications and operations, satisfactory to the City Engineer.

Impact Number	Mitigation Measure	Mitigation Measure Description
	TRA-5	**Clairemont Drive & Balboa Avenue Adaptive Signal Control System (All Access Options)** Prior to issuance of the first building permit, Owner/Permittee shall pay its fair share toward optimizing signal timing or installing traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway through improved signal communications and operations , satisfactory to the City Engineer.

CHAPTER 8.0 LIST OF REFERENCES

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Appendix A
NOP Scoping Comments

ESA

From: George Hagood <georgeh73@icloud.com>
Sent: Monday, October 1, 2018 7:51 PM
To: Cass, Marc
Subject: 5255 mt etna

Sent from my iPad since this project will ad to national debt. Dago is 30-40 % on food stamps Medicade is off the charts,22 trillion plus. Un funded liabilities.from ssa.to city retirements. Stop the bleeding , we are truly a joke country. A train wreck in the world.
balance the budget or shut up.

From: George Hagood <georgeh73@icloud.com>
Sent: Monday, October 1, 2018 7:39 PM
To: Cass, Marc
Subject: 5255 mt. Etna. Remodel

Sent from my iPad. To whom it may concern: I have lived one block away from 5255 mt etna for over 40 yrs. I have seen and heard of the give away to the welfare and homeless classes. You have made us a magnet to them ,world wide. Send them back to their home if they can't afford it here. People have been leaving here forever for that reason,or stop the rich foreigners from moving here and buying up the country. I think you just want to waste money and make back room deals with the labor unions.I pray,pray,pray that you could use the old hospital for some medical use. We have epidemics of diabetics, altizers,heart disease ,mental health,stroke, alcohol and drug abuse. Why not use the building for that. Also since you have used all the parking lots for food joints and banks, how about a green space for the kids and people. We would like a dog park p. B. And Ute have them why not Clairemont? We would like to see an assisted living and or a retirement home.
Mental people should be locked up or moved close to your house . Remember Jon David Guerrero, he lived in one of your places downtown. He killed 3 and injured 4 more in 2016. The pollution, noise, and traffic is bad now, we don't need a traffic study.
We want to maintain lower height limit,and our parking in front of Our Houses!
We have sorry to towers on Crowley way, with many vacant, the. Scranton's on mt. Alifan .probably 80% of your ski.Folks are fake , just look at the ads on tv. Some are using many I d 's and collecting many s.s.i. Checks.
Why have a crime lab anyway ,look at the way they treated Rebecca Zahau.
We make money, We Print It. !
We don't want to be a dumping ground for the world, not another L A Please put this in lajolla or Del Mar or Mira Mesa or north county.
Remember a lot of this homeless is a lifestyle choice. They are having fun swapping drugs, and staying high. I saw one guy at intersection of balboa & genesee, I know him He has a great union pension and still works, but he was there telling people to go To the beach and have a good time, he was way intoxicated.
Some people are truly in need and I am all for helping them.
A lot of them are pure lazy scammers , We all know we can not afford the military as is, So maybe use military housing for the low income housing. We have a lot of military housing in dago. They won the war, because you never hear Don't AskDon't Tell Anymore.
One half of border patrol work for the cartels and the cartels control the border.
thank God somebody does it. we got it going on !!!

From: Abbie Hawkins <abbie.a.hawkins@gmail.com>
Sent: Thursday, September 20, 2018 3:55 PM
To: Cass, Marc
Subject: Mt. Etna Project Support Letter

Hello Mr. Cass,

I am a resident down the street from the proposed project on Mt. Etna in Clairmont. My husband and I recieved a letter from Karen (not sure who she is) about the project and we would just like to say that we are in SUPPORT for this project.

We fully support the height limit being raised , increased density and the need for affordable housing in San Diego.

We were unable to make it to the meeting last night because I am due with our 3rd child. We will try and make it to the next meeting but with a new born it is very unlikely. Please feel fre to share this letter of support for the project with who ever may be interested.

Thank you,

Abbie Hawkins
5076 Mount Harris Drive
(303) 829-5394
Abbie.A.Hawkins@gmail.com

From: Mitchell Rice <lmrice2@att.net>
Sent: Tuesday, September 25, 2018 12:21 PM
To: Cass, Marc
Subject: Affordable Housing proposal on Mt. Etna and Genesee

Mr. Cass-

We have lived in the Clairemont area on Mt. Everest Blvd. for 35 years and enjoy the walkable neighborhood and easy access with the surrounding stores. We are in favor of affordable housing in San Diego. We realize the need and that many S.D. residents are unable to afford housing. Our chief concern is the size of this proposed development on Mt. Etna/Genesee both in the number of units and height requirements.The impact that this development will have on the surrounding area in terms of traffic and parking will be cumbersome.

This area has been developed even more in the past several years on both sides of Balboa and Genesee and the traffic flow has greatly increased. Now we also have High Tech High and other affordable housing planned on Mt.Alifan. It is critical as these housing developments are planned to not only insure quality of life for those living there but to determine how this will affect the quality of life for those already living in the area. This is the challenge in balancing this.It is also important that all areas in S.D. city and county share equally in the development of these projects. We appreciate your consideration of our concerns and hope that they will be directed to the appropriate persons.

Mitchell and Leslie Rice

Clairemont Mesa Community Plan Amendment and Rezone Project
Case No. WT-4224097
NOTICE OF PREPARATION PUBLIC REVIEW PERIOD
September 10, 2018 through October 19, 2018

PUBLIC SCOPING MEETING COMMENT SHEET

Tuesday, September 25, 2018
COUNTY OF SAN DIEGO
DEPARTMENT OF GENERAL SERVICES
5560 OVERLAND AVE
SAN DIEGO, CA 92123

WRITTEN COMMENT FORM

I am opposed to the County of San Diego's plan for 5255 MT. ETNA. Clairemont has enough housing for low income/senior living. Please find some where else like Del Mar or La Jolla ~~would be nice.~~ which most likely have little or none of these projects.

I would rather see a County sub site for local residence to get help with minor matters. A second idea would be a County Health Dept.

In ~~closing~~ closing, thank you for your time

(Attach additional pages as needed)

MAIL or E-MAIL FORMS TO:

Marc Cass
County of San Diego
Department of General Services
5560 Overland Ave
San Diego, CA 92123
E-mail: marc.cass@sdcounty.ca.gov

Alan Ross Johnson Sr
Signature

ALAN ROSS JOHNSON SR
Print Name

4449 MT. CASTLE AVE
Address

SAN DIEGO, CA. 92117
City State Zip Code

858 565 1036
Phone Number

COMMENTS MUST BE RECEIVED BY 5:00 PM OCTOBER 19, 2018

From: arj1944@san.rr.com
Sent: Monday, October 8, 2018 1:35 PM
To: Cass, Marc
Subject: Affordable Housing Project for Clairemont
Attachments: Scan0001.pdf

Please see attached or let me repeat it right here.I AM AGAINST THE PROPOSED PROJECT FOR 5255 MT.ETNA DRIVE.I would much rather see the County build a local field office for conducting minor business then having to travel to Kearny Mesa.Another option would be a County Health Department on this site.Why is it that these project never end up in Del Mar or La Jolla or Rancho Bernardo?Clairemont is a well established community with many of my neighbors saying enough is enough,go some where else,traffic seems to increase daily while transportation needs stand still.

In conclusion,thank you for your time.Alan Ross Johnson Sr.

From: Alexis Knepp <pazknepp@gmail.com>
Sent: Friday, October 19, 2018 4:33 PM
To: Cass, Marc
Subject: 5255 Mt Enta Rezoning: EIR scoping comments

Mr. Cass,
Please review and include these comments in the scope of the EIR for the Mt. Etna Rezoning project at 5255 Mt. Etna Drive at the old Crime Lab site.

Project Impacts:

1) Increased traffic: traffic is already and issue in the area. During the evening commute, the intersection of Genesee and Mt. Etna gets backed up with cars travelling south, making the turn into Mt. Etna sometimes impossible because cars are blocking the intersection.

2) Safety: Vehicles speeding through the Mt. Etna neighborhood is already and issue, because it is more convenient than taking the major streets like Balboa and Genesee. The following streets are used as short-cuts, and will be used as short-cuts more frequently with an increase in population/vehicles: Mount Etna, Mount Castle, Mount Everest, Mount Culebra, Mount Davis, Mount Elbrus, Mount Foraker, Mount Herbert, Mount Frissell, Mount Gaywas, Mount Hay, and Mount Harris.

3) Negative impact on existing recreation facilities: The existing "Mount Etna Neighborhood Park" is the only public park within walking distance of the Crime Lab. It has many issues including it is not maintained, it is too small for the sudden increase in population. The closest swimming pool has limited hours and is small. The existing public recreation facilities cannot accommodate a swell of population.

4) Public services: The local schools cannot accommodate and increase in population. There is little quality child-care available.

5) Population: Over 1,000 people may be added to the Mt. Etna neighborhood.

Potential mitigation measures:

1) Use traffic solutions to prevent 5255 Mt. Etna residents/visitors from driving through the Mt. Etna neighborhood.
2) Provide quality public-recreation services on site.
3) Provide quality affordable child-care on site.
4) Decrease planned density to limit environmental effects.

Project alternatives:

1) Consider keeping the current zoning. Using the CA Density Bonus law, a developer could build enough housing to make the project feasible while minimizing the environmental effects on the existing neighborhood.

2) Consider a slow-growth strategy. Increase the base zoning to RM-3-7 maximum.

3) Consider a mixed-use project. Smaller commercial spaces are much needed in Clairemont to provide services and jobs to current and new residents.

-Alexis Knepp
831.920.8587 cell

From: Alice Young <ayoung6@sbcglobal.net>
Sent: Wednesday, October 17, 2018 7:28 PM
To: Cass, Marc
Subject: 5255 Mt. Etna Dr.

Oct 17th 2018

To Whom it may concern,

We were asked to send in out concerns for this project.

1.) No many units, no more then 150/200.
2.) We don't need more drug addicts/ mentally ill persons in our neighborhood. Open hospitals to take care of these people instead of letting them live on the streets.
3.) Traffic is already a issue, Surely someone in the city offices are aware of this problem.
4.) The plan shown at the meeting shows only one exit/entrance to these units, another issue overlooked by the planning committee.
5.) Clairemont is the place to live right now. (close to freeways, beachs, shopping etc) Sales in our area are going to decrease and people will be moving out before it is to late to get a good price for their home.

Thanks,

Alice R. Young
4971 Mt. Casas Dr.
858-277-9447

From: Alina <akonvissar@gmail.com>
Sent: Wednesday, October 17, 2018 10:03 AM
To: Cass, Marc
Subject: Clairmont Mesa Community Plan WT-4224097

Hi Marc,

I'm writing in protest of the plan for the 494 Affordable housing units to be built at 5255 Mount Aetna Drive. Not only is there no parking associated with this plan, the influx increasing the population in my neighborhood with low income housing is not something that I would like to see happen at all. Not only will this put a massive strain on the intersections that are used by the "mount street communities" this will also lower our property values significantly by bringing some less than desirable residents into the neighborhood.

If you have any further questions please feel free to reply via email.

Thank you,

Alina Konvissar
617-909-3952

Sent from my iPhone

From: Alison Garrity <aligarrity@gmail.com>
Sent: Thursday, October 18, 2018 7:12 AM
To: Cass, Marc
Subject: Clairemont Mesa Community Plan Amendment and Rezone Project Case No. WT-4224097

Dear Mr. Cass,
My concerns for the Affordable Housing Units for 5255 Mount Etna Drive:

Far too many units for that small area. I do not want Clairemont to become "dense" living. Two schools in close proximity will be expanding and causing more congestion to this small area. I'm all for Affordable Housing, but please limit the amount of units put in the Crime Lab location. This area is already becoming congested.

I also feel that the people with serious mental illness and substance abuse problems should have 24 hours supervision.

Sincerely,

Alison Garrity

From: Alvin Aman <aaman1@san.rr.com>
Sent: Thursday, October 18, 2018 5:11 PM
To: Cass, Marc
Subject: Public input on Mt Etna Project

To: Marc Cass
We would like to voice our opposition to the project on Mt Etna. The county and the city should be coordinated in their efforts to provide low income housing. Low income housing should be distributed throughout the city and county. Was any consideration given by the county that within a half mile there are two other projects? The Stratton Apartments at 3884 1/2 Camino Aguliar, provides 312 units of low income housing. Directly across the street at 5858 Mt Alifan, there will be a new facility for "formerly homeless seniors". Adding 400 more units at Mt Etna will be way too much for the immediate area. It has never been a good idea to have a lot of low income housing in a small area. It would still be a problem even if the proposed 400 units were at market rate due to traffic congestion becoming worse. Certain residential streets in our neighborhoods are already experiencing traffic from cars cutting through between Clairemont Mesa, Balboa and Genesee.
Most people in Clairemont are not aware of this proposal on Mt Etna. The height limit should not be changed. 400 units is unacceptable and is at least twice as many as should be allowed. The SDG&E right of way goes right through the current parking lot. In addition to several high power electrical lines, there is the Regional high pressure natural gas pipeline. How can a 5 story residential building be built next to that? The project is too big, and altering the height limit will change the character of Clairemont. I hope that you will consider our comments and those of many others.
Alvin Aman
John Painter
4732 Seaford Place
San Diego, Ca. 92117

From: amandajouw <amandajouw@gmail.com>
Sent: Thursday, October 18, 2018 7:47 PM
To: Cass, Marc
Subject: Mt Etna Low Income Housing Project

Mr. Cass –

I would like to echo my husband's statement below.

I am writing, like many others, to express my opposition to the proposed Low Income housing project being planned for the former San Diego Crime Lab site at Mt. Etna and Genesee. I am a resident of Clairemont West (I live on Mt. Culebra) and have seen by personal observation that this housing development is not the right fit for our community, for the following reasons:

1. Traffic – This area of Clairemont is already overburdened with traffic, especially during rush hour in the mornings and afternoons. I often have to wait through more than one cycles of stoplights at the Balboa/Genesee intersection and this housing project will add more cars to an area that is already over-capacity for traffic.

2. Parking – Similar to the traffic concern, parking is already at a premium in this area. Many streets and local business don't have enough parking as it is, and 400+ additional residents in high-density housing will only make the problem worse.

3. Crime – Crime has become an increasing problem in this area with several residents reporting car break-ins and property theft in recent months. The intent of this housing project is house low and extremely low-income residents; statistically a large percentage of crimes are committed by low-income individuals. It stands to reason that the inject of 400+ low-income residents to this area will have a negative impact on crime.

4. Schools/Children's Safety – Similar to the concern with crime, myself and several other Clairemont residents have small children that routinely play outside. We are already experiencing times where we have to quarantine the kids inside due to helicopters circling looking for at-large criminals; these occurrences are likely to increase with the addition of 400+ low-income residents to the area.

5. Property values – I can appreciate the need for low-income housing and the opportunity for everyone to establish a residence; however, West Clairemont is not the place to do so. Clairemont West is a relatively low-density, family neighborhood primarily comprised of single-family homes. The addition of a massive, high-density housing unit will negatively affect the value of mine and other residents' homes. We bought these homes partially as investments and for San Diego County to devalue them by changing zoning restrictions is simply unacceptable.

I appreciate your taking the time to read and understand my concerns and sincerely hope that this project be reconsidered.

Respectfully,

Amanda Vanasse

Mt. Culebra Ave

From: Andrew Cronauer <andrew.j.cronauer@gmail.com>
Sent: Thursday, October 4, 2018 7:19 PM
To: Cass, Marc; Jackson-Llamas, Angela; HHSA, HCDS; msokolowski@sandiego.gov; bbohrer@chelseainvestco.com; planningcommission@sandiego.gov
Subject: Mt. Etna Crime Lab project - CPA and EIR input

Dear Mr. Cass, Ms. Jackson-Llamas, Ms. Sokolowski, and Mr. Bohrer,

I am writing to provide input on the Mount Etna Crime Lab (the "Property") and the proposed project to develop affordable housing at that location (the "Project"). I thank you in advance for considering my input as you evaluate the proposed Community Plan Amendment ("CPA") and determine the scope of the Project's Environmental Impact Report ("EIR").

By way of introduction, my name is Andrew Cronauer. I live at 4982 Mount Etna Drive, about a thousand feet (or about a dozen houses) from the Property. My wife Daisy and I sold our Mission Valley condominium to move to Clairemont's "mount streets" in order to start and raise our family in this close-knit family community comprised of single-family homes.

The Project's goals are admirable--I am sympathetic to the need for affordable, accessible housing for all San Diegans, including the most vulnerable among us. Our city's housing market becomes more competitive and more expensive each day, and we have a duty to ensure our residents don't get left behind. I disagree with some of my neighbors who believe our neighborhood is incompatible with any affordable housing project.

We moved into our new home during the spring, when the Project would have been in its earliest stages. Since moving in, however, I have read and heard much more about the possible scope of the Project. I read Mr. Cass's letter to the City Development Services Department dated August 24, 2018 (the "Letter") and General Application on Form DS-3032 and associated forms of the same date (collectively, the "DS-3032"). In the Letter and the DS-3032, Mr. Cass requests an amendment to the Property's land use designation to Residential High, allowing for up to 454 dwelling units in excess of the 30-foot height limit. This scope and density is extremely concerning to me and has prompted me to contact you.

In evaluating the CPA and preparing the EIR, I urge you to consider, among other things, the following items:

- Aesthetics (including, for example, the aesthetic impact of a building of the size considered for the Property, especially as seen from throughout a community composed mostly of single-story, single-family homes);
- Air quality (including, for example, the impact of at least hundreds of additional motor vehicles in the neighborhood);
- Safety and crime (including the impact of introducing a substantial at-risk population--for example, I am a recovering alcoholic and addict and I have seen firsthand the damage that addiction can cause to the addicted individual as well as to his or her community);
- Education (including, for example, the capacity of local schools to absorb a sudden and substantial increase in population, and the impact of placing a substantial at-risk population within an existing school zone);
- Geology and soils;
- Greenhouse gas emissions (including, for example, the impact of at least hundreds of additional motor vehicles in the neighborhood);

- Energy (including, for example, the additional strain on local energy infrastructure);
- Health (including, for example, the impact on community healthcare facilities and the health impacts of the other items in this list)
- Hazards and hazardous materials;
- Hydrology and water quality;
- Land use and planning;
- Noise (especially given the proposed scale of the project and its proximity to [directly bordering] single-family housing);
- Population and housing (including the suitability of the Property for the type of development proposed as well as the impact of such development on existing housing in the neighborhood);
- Public services (including, for example, the availability of public services such as emergency responders to serve the additional population, especially any particular services that may be especially needed by a lower-income or at-risk population);
- Recreation (including, for example, the impact that such a drastic population increase would have on the relatively small [and relatively few] local parks such as Mount Etna Neighborhood Park--and considering that residents of high-density condominiums may have even more need for open recreation space than those in lower-density housing);
- Sunlight access (especially for those neighbors in single-story homes that would suddenly be overshadowed by any building exceeding 30 feet in height);
- Transportation and traffic (including, but not limited to, the impact of hundreds of additional cars each day on traffic, the impact on traffic noise, the impact on road, sidewalk, and other infrastructure, the impact on pedestrian safety [especially in a school zone], the impact on bus capacity, the ease or difficulty of trolley access from the Property, and the ease or difficulty of access to employment centers from the Property);
- Hazards and hazardous materials;
- Hydrology and water quality;
- Land use and planning;
- Wildland fire (including the risk to the Project and the risk posed to the surrounding neighborhood);
- Utilities and service systems;
- Project alternatives; and
- Cumulative effects of the above and all other factors.

I sincerely hope that you will consider the above factors and that the final development plan for the Project addresses the clear need for additional--and affordable--housing in our city without undue impact on our cohesive, well-established single-family-home neighborhood.

Thank you for your time. Please feel free to contact me for further discussion or clarification on the above. I look forward to engaging with you over the coming months as the Project progresses.

Thanks and best regards,

Andrew Cronauer
andrew.j.cronauer@gmail.com
516-382-2065

From: Angela Tognoni <angela.tognoni@gmail.com>
Sent: Thursday, October 18, 2018 6:47 PM
To: Cass, Marc
Subject: Mt Etna Project

Mr Cass

I am writing in regards to the proposed project for a 450 plus housing development at Mt Etna and Genesee. I moved to this quite neighborhood three years ago from Eastlake due to increased traffic and congestion that were occurring in my old neighborhood.

I have some major concerns with the proposal. First, the number of units seems to be high for such a small residential area. I do not think having this many units in small area is beneficial for the current homeowner or potential residents. The side streets have been recently impacted with higher volume of cars using Genesee to bypass the 5 or 805. The addition of 1000 more people will only increase an already overuse section of town. I fear those that use this cut through area will only become more frustrated with traffic and continue to run lights or race through side streets where children are walking from one of the three schools within a mile radius.

Second, transportation in the region is not adequate for the low housing complex. There is a bus line in the area but will be harder to navigate for those that may benefit to new trolley line down Balboa at Morena. I thinks more suitable site would allow access to more transit options for families or seniors.

I would ask you to take action and listen to the concerns of those neighbors in the area. I would hope that the plans could be modified to allow less units and thus putting less strain on a busy intersection already and less impact on the neighboring streets.

Thank you for your consideration.

Sincerely
Angela Tognoni
4763 Mt Hay

From: awhite730@aol.com
Sent: Friday, October 19, 2018 2:15 PM
To: Cass, Marc
Subject: Clairemont community plan

Hello Mr. Cass,
My name is Angela and I live on Mount Durban Dr. I recently caught wind of this potential project on the corner of Mount Etna and Genesee. I am so upset about its possibility and so are all of my neighbors and friends around here. It seems absurd that this project could get this far without the residents being properly informed. Our neighborhood is filled with families, young children, long time residents and a real sense of community. putting low income housing in our area would completely destroy that feeling. IT is also likely to increase crime, cause more traffic accidents, and destroy the feeling of safety for our families and children. Not to mention the fact that our home prices would plummet, causing many home owners to up and sell very quickly, once again changing the feel of our entire neighborhood. Please, I beg of you, DO NOT LET THIS HAPPEN!! Everyone I have spoken to is deeply upset. We are counting on you to be our voice, please understand where we are all coming from.

thank you,
Angela

From: Anna Kim <annakim123@yahoo.com>
Sent: Friday, October 19, 2018 12:37 PM
To: Cass, Marc
Subject: Clairemont Mesa Community Plan Amendment and Rezone Project Case No. WT-4224097

To: Mark Cass, County of San Diego – Department of General Services

I am submitting formal comments in opposition to the proposed Clairemont Mesa Community Plan Amendment and Rezone Project Case No. WT-4224097. I respectfully ask for no zoning change on the site located at 5255 Mount Etna Drive (Former Crime Lab).

As a healthcare professional in a management position, I realize that you may receive all kinds of public comment – ranging from constructive feedback to emotional responses. I am a lay resident of Clairemont Mesa, and admittedly, not a professional with expertise in this area and subject matter of land use and community development. However, the proposed Amendment and Rezone Project seems to propose changes to the Clairemont Mesa Community Plan that seem in striking contrast to the Plan's original and thoughtfully-designed intent and purpose. The issues of concern to the community that would be impacted, as outlined in the Plan include:

1) The desire to preserve the low-density, single-family character of the community [Growth is reasonably expected and naturally inevitable. However, the "slow growth" alternative was selected for future development].

2) The loss of commercial services due to residential development on commercially zoned sites

3) The need to reduce traffic congestion along Balboa Avenue

Environmental Factors that are Potentially Affected would include the following:

- Population/Housing

- Land Use/Planning

- Aesthetics

- Transportation/Traffic

For the following reasons:

1) Land Use/Planning: The Community Goals/Objectives were determined by the Clairemont Mesa Community Plan to maintain commercial uses in neighborhood commercial centers and ensure that new development is compatible with the existing neighborhood and does not overburden community or neighborhood facilities. The low-density single-family character of the community has created a distinctive image of Clairemont as a desirable and pleasant place to work, live and play in San Diego. A 454-multi family unit facility seems a vast digression from this plan.

2) Population/Housing: The deficiency of off-street parking resulting in a lack of on-street parking and alleys congested with parked cars has been identified as a problem in the Clairemont Mesa Community Plan. The areas identified in the plan as lacking parking efficiency were areas adjacent to the multifamily neighborhoods along Clairemont Mesa Boulevard, Clairemont Drive and Balboa Arms Drive. Adding another large multi-family structure would potentially confound the problem, extending the radius of decreased parking efficiency to the areas adjacent to Balboa Ave.

3) Aesthetics: One of Clairemont Mesa's attributes are the well-established low-density single-family neighborhoods. The City Council adopted a 30-foot height limit for almost all of Clairemont Mesa to maintain the low-scale character of development in the community.

4) Transportation/Traffic: Traffic along Balboa Avenue and Genesee Avenue has increased creating some congestion during the early morning and late afternoon periods and would be substantially and negatively impacted. In Clairemont Mesa, these two streets are well traveled because they serve as the primary east-west, north-south major thoroughfares other than the freeways which are located at the north, east and west boundaries of the community. Although traffic volumes exceeding the desirable maximum generally accepted by motorists can potentially be accommodated, users may consider these higher volumes undesirable, due to high congestion, backups, delays, low speeds, high noise levels, and safety issues.

For the reasons outlined above, I am strongly opposed to the rezoning and sincerely hope you will consider the impacts to the surrounding community, including thoroughfare to adjacent communities. The proposed rezoning is not in accordance with our Community Plan and any amendment would be a great redefining of the Plan – a far digression from its original objectives. The requests for Community Plan Amendment and Rezoning are vastly inconsistent with the entire body of the Clairemont Mesa Community Plan, which indicate consistently that development and rezoning needs to carefully consider the surrounding character, environment, and approved uses.

Respectfully,

Anna Kim

4443 Mount Castle Ave, San Diego, 92117

Voter, Taxpayer, Resident of Clairemont Mesa (~10 years)

From: outlook_73AF6C9DACF3557C@outlook.com
Sent: Wednesday, October 10, 2018 2:07 PM
To: Cass, Marc
Subject: Clairemont Low Income Housing Project

Marc,

How was the site assessed for the low income housing project in Clairemont. The site is zoned for 30 ft high limits with only 114 units. The project now proposed is 400 units of low income housing, six stories high, nominal parking, no infrastructure upgrades, and numerous zoning exceptions. The streets are already congested due to the added retail shops in the adjacent shopping center. The traffic has increased five fold since we moved to Clairemont 18 years ago. This project provides zero benefit to our community. The only thing I can see is more traffic, an increased burden on our infrastructure and schools, and more crime.

How is that acceptable.

Sent from Mail for Windows 10

Clairemont Mesa Community Plan Amendment and Rezone Project
Case No. WT-4224097
NOTICE OF PREPARATION PUBLIC REVIEW PERIOD
September 10, 2018 through October 19, 2018

PUBLIC SCOPING MEETING COMMENT SHEET

Tuesday, September 25, 2018
COUNTY OF SAN DIEGO
DEPARTMENT OF GENERAL SERVICES
5560 OVERLAND AVE
SAN DIEGO, CA 92123

WRITTEN COMMENT FORM

The current proposal to build a high-rise building on the site of the Crime Lab is a bad one. Up to ~450 apartments means up to 900 additional cars in the area. With ~225 parking spots allocated for the parking lot, ~675 cars will flood the local streets, resulting in all available sites along the nearby roads to be filled. Others have mentioned this at Tuesday's Scoping meeting. No one thought to ask this question: Where do we put our garbage and recycling cans each week for pick-up? You can be sure all spaces will be filled by cars when residents bring out their trash + recycling ...

(Attach additional pages as needed)

MAIL or E-MAIL FORMS TO:

Marc Cass
County of San Diego
Department of General Services
5560 Overland Ave
San Diego, CA 92123
E-mail: marc.cass@sdcounty.ca.gov

Edward B. Little
Signature

Edward B. Little
Print Name

4333 Mt. Castle Ave
Address

San Diego CA 92117
City State Zip Code

619-869-6175
Phone Number

COMMENTS MUST BE RECEIVED BY 5:00 PM OCTOBER 19, 2018

From: tntlaiuppa@aol.com
Sent: Wednesday, October 17, 2018 9:58 AM
To: Cass, Marc
Subject: Mt. Etna Housing Development Project

We are totally against this project. It not only ruins our (Clairemont's) "family" type community, but has a most negative effect on our lifestyle, i.e. overcrowded shopping malls, parking lots. We are 89 years old, both handicapped, and when trying to park at our one and only true supermarket (Vons) are almost always unable to find a handicapped spot and usually have to hobble from half-way up the isle to the store entrance. Please DO NOT let the developers influence your decision. We have lived in this house since 1959 and have watched other suburbs change, and not for the better, by developers moneymaking grabs. PLEASE - do not let the community of Clairemont go downhill with the building of these monstrosities.

Anthony & Justine Laiuppa
Mt. Street residents

From: Arlene Spencer <aspencer5015@att.net>
Sent: Wednesday, September 19, 2018 8:17 PM
To: Cass, Marc
Subject: Mt Etna Project

Dear Mr. Cass,

Regarding the Mt. Etna Project, its current proposal of making this project all low-income house, building 400 to 450 units on 3-acres including 0.5 parking spaces per bedroom, and raising the Clairemont building from its set 30 feet, is a BAD IDEA. Modify the numbers of units or change the location.

Firstly, don't make the project all low-income, include other socioeconomic income levels. Councilman Scott Sherman of Allied Gardens commented on housing where 100% of the residents are low-income in The San Diego Union-Tribune dated Sunday, August 19, 2018:

> He supports inclusionary housing, calling it the antidote to housing projects that become riddled with crime partly because 100 percent of the residents are low-income.
>
> "You want to have people of all socioeconomic groups working together and living together and getting to understand one another," Sherman said.

Secondly, lower the number of units significantly. If you put 400 to 450 units on the Mt. Etna property, you will create high-density problems in these areas. The Genesee/Balboa/Mt. Etna areas already have traffic flow problems in the morning, at noontime, and after work. They already experience parking problems on neighboring surface streets and on neighboring shopping malls. If you consider 2 to 4 people in 400 to 450 units, you are adding at a minimum of 800 people to a maximum of 1800 people assuming no more than 4 people per unit in 450 units. Adding that many people and their cars to the areas will exacerbate the already existing traffic flow and parking problems.
Lower the number of units significantly or move this project near a freeway. In Mira Mesa, spacious, luxury Casa Mira View apartments house thousands of people. The apartment development offers many amenities to encourage its residents to remain on the premises. And when they need to commute, their location next to the freeway makes it easy for them to take the freeway minimizing inundation of surface streets.
Do not assume putting the Mt. Etna Project along a bus route means its residents will take the bus. For the most part, like most residents in Clairemont, they will take their own car to commute. It is best to locate the Mt. Etna Project next to a freeway.

Lastly, keep the Clairemont 30-foot height restriction. Let's not re-interpret what 30-foot means. It is a literal measurement meant to limit the height of buildings. Keep the 30-foot height limitation. If a builder wants to exceed that limitation, he/she can request for a variance. The variance application provides the county planning and development department time to examine whether this is good or not good for the Clairemont community.

To reiterate, modify the Mt. Etna Project by including other socioeconomic income levels, not just low-income. Lower the number of units significantly to not exacerbate the already existing traffic flow and parking problems. Relocate the Mt. Etna Project near a freeway so commuters from this project do not inundate surface street flow. And keep the Clairemont 30-foot height restriction. Builders can still request a variance.

On a different, yet related topic, revisit whether builders can have an option to buy their way out of having to provide 10% housing for low-income residents to help address the affordable housing need. Are the funds received from builders taking up this option sufficient to build affordable housing for residents of varying socioeconomic levels? It would be interesting for you to look into.

Thank you. I wish I could attend tomorrow's meeting, but I have a previous engagement. I will, however, be emailing this to Marlon Pangilinan and Councilman Chris Cate.

~Arlene

Sent from my iPhone

From: Arno <atuulik@sbcglobal.net>
Sent: Wednesday, October 17, 2018 5:36 PM
To: Cass, Marc
Subject: Project WT-4224097

I am sending this email to oppose the above-referenced project to take place in the Clairemont community of San Diego. I have lived in this area for 61 years and have never found Clairemont rentals to be suitable for low income. The area real estate predominantly runs well above the San Diego county average. I, for one, strongly oppose anything that will reduce the hard earned equity in my home, and this project would adversely affect the area real estate values. I believe I speak for all Clairemont property owners; not to mention all other above average real estate locations, ie., university city, pacific beach, La Jolla to name a few areas surrounding Clairemont. I encourage you to seek another location for your project; an area that would fall more in line with low income rentals would be much more suitable. Please advise.

Sent from Darlene"s IPad.

From: Arno <atuulik@sbcglobal.net>
Sent: Wednesday, October 17, 2018 5:42 PM
To: Cass, Marc
Subject: Addendum to previous email regarding Project WT-4224097

PS, if you want to rezone anything in Clairemont, think about rezoning Clairemont Mesa Blvd between Diane and Dubois. Currently they are R2 zoned with duplexes. I see value in rezoning to C so we could have a small downtown so to speak. This could generate lots of money for the City as it would allow Clairemont to have street fares, Octoberfests, etc., in addition to the City collecting more property tax on rezoned C property.

Sent from Darlene"s IPad.

From: Audrey Butler <audreygbutler@gmail.com>
Sent: Friday, October 19, 2018 6:45 PM
To: Cass, Marc
Subject: Don't re-zone Clairemont

Marc,

I am about to remodel my house and I'm looking for another house in Clairemont and don't want this neighborhood to change. If the zoning changes, I will look elsewhere for permanent placement of my family and extended family. Please don't let this happen.

Thank you,
Audrey

From: Barry Kenny <Barry@ualocal230.org>
Sent: Thursday, October 18, 2018 3:27 PM
To: Cass, Marc
Subject: Mount Etna low income housing

Mark I would like to express my concerns with the Mt. Etna low income housing project Located at Mount Etna and Genesee Avenue. In no way does this belong here in Claremont. The list of issues with this project is almost too many to number but I'm going to give it a shot. Traffic, our children safety, crime, property values lowered, shall I go on? My question to you is why are they allowing to exceed the local height limit? Why are they building it here when The low income people don't even live here? How would you feel if they built up 450 unit low income housing project next-door to you? Why don't we re-focus this project to a better location and suit these people needs, like closer to downtown San Diego? Feel free to give me a call to discuss this manner at any time.

Barry Kenny

Cell: 858-334-5789

From: Rnd4god <rnd4god@aol.com>
Sent: Friday, October 19, 2018 11:54 AM
To: Cass, Marc
Subject: Mt. Etna Project

Dear Mr. Marc Cass,

I have been a resident of Clairemont for 50 years, beautiful & quiet Clairemont. A lot of changes happened since then; most of them good.

This Mt. Etna Project is the worst I have heard. This is too big, too tall, too much in every which way you look at it. I cannot imagine 1,000 residents for that site.

I am sure this will impact everybody's safety, traffic will increase tremendously. With that crime will increase I'm sure. A lot of your investors probably make a lot of money ; they don't care; they don't live here.

We don't want Clairemont to be Downtown; it's not designed to be. This is why we live here and not in Downtown. THIS IS A BAD PLAN.

Thank you for reading my concern.

Bernardita Ibarra

From: Beth Bowden <bethbowden03@gmail.com>
Sent: Thursday, October 18, 2018 7:00 PM
To: Cass, Marc
Subject: Mt Etna

As a home owner in the Mt area where these so called “affordable housing units “ are to be developed on Mt. Etna is a MAJOR CONCERN for all the residents residing in the MT. Area.. Many of us have lived in the area 40+ years.. it would bring horrible congestion to the area ALL AROUND US.. which by the way is ALREADY A MESS .. TOO MANY PEOPLE IN TOO SMALL OF AN AREA... it is already zoned for commercial & that’s the way it should stay... Everyone knows how great the Mt area is in Clairemont... let’s keep it that way!!

From: Beth <vanta123@san.rr.com>
Sent: Friday, October 19, 2018 12:04 PM
To: Cass, Marc; ChrisCate@sandiego.gov; nwaney@plattwhitelaw.com
Subject: proposed redevelopment project for the Mt. Etna Crime Lab property

Dear Mr. Cate, Mr. Cass and Ms. Waney,

I am a resident of the Clairemont Mount Streets and I am writing to express my concern about the large high-density project planned for our neighborhood that I just this week learned about.

I understand that the parcel of land that was zoned for our neighborhood may be rezoned to allow such an extremely high-density project. I would like to attend the next meetings to express my concern and learn about options for thoughtful development. I am a supporter of special programs to help those in need and would like to know my city officials are taking the time to adopt a plan that will be beneficial to new and existing residents.

My concerns include: More than **doubling** the number of residents in our Mt Etna community on a 4- acre parcel!!....unbelievable! The questionable process in the way this project is being pushed through. A huge, dangerous and messy increase in traffic to an already congested area.

Thank you for considering my concerns.

Beth Vanta

4333 Mt Jeffers Ave.

San Diego CA 9217

From: steelclan <steelclan@earthlink.net>
Sent: Friday, October 19, 2018 1:55 PM
To: Cass, Marc
Subject: Do NOT allow this re-zoning to take place!

Oct. 19, 2018

Hello,

We have become aware of a proposal to amend our Clairemont Community Plan to allow the construction of a 5 story building containing 450 “low-income” housing units at 5255 Mt. Etna drive.

We moved to our quiet street in Clairemont in 1984, and our son was born that same year. We appreciated the safe ‘feel’ of the neighborhood, a place where one didn’t need to lock their doors during the day, a place where young people were beginning to move in and raise their kids.

For the over 30 years we have lived here, this precious community atmosphere has been maintained through responsible parties being careful, open and timely in communicating any proposals for change. This process involves listening to the people who will be affected, soliciting their input in an organized and democratic way, finding out how people feel, the residents who care so much about their homes and the quality of life they have worked so hard to maintain.

We have seen changes in our neighborhood, but NOTHING comparable to this proposed project that would require changing the very zoning that is meant to protect us from such things!

Our entire neighborhood has approximately 300 single-family homes. This proposed project is completely out of step with its surroundings and would instantly cause a drastic rise in our population without regard to the history and flavor of the neighborhood. The traffic in the area has already become problematic. The mess that adding 450 units is obvious.

We understand that half of the project would be set aside for “seniors, persons with disabilities, persons with serious mental illness or substance abuse problems, persons with HIV/Aids, military personnel and veterans, at risk youth, survivors of domestic violence, persons who are homeless or at risk of homelessness, transition age youth, and families in need”.

We have schools very near the site proposed for this project. Our children walk to school and play in the neighborhood. I’m sure I needn’t point out the drastic loss of safety that would result from such a project.

Also, it is sad to say, but the way in which this proposal has been handled is troublesome.

I have learned that the RFP sent to possible developers gave them to understand that they could make an assumption that the changes to the current zoning would take place or already had! That was a bad idea. It brings to mind attempts to ramrod a project through, to hope that people don’t notice until it’s too late. That is of course as dangerous as it is irresponsible.

It is time to do what is necessary to nip this ill-conceived project in the bud.

Thank you.

Bill Steel, 4251 Mt. Foster Ave. San Diego, CA 92117 (858-472-6940)

From: Blaine Hallor <blainehallor@gmail.com>
Sent: Wednesday, October 17, 2018 11:44 PM
To: Cass, Marc
Subject: Clairemont housing

400 units is way too big for Clairemont.

From: Dillon, Brandon (US - San Diego) <brdillon@deloitte.com>
Sent: Friday, October 19, 2018 2:54 PM
To: Cass, Marc
Subject: Concerned Resident on Mount Etna

Hi Marc,

I hope you are having a good Friday. My name is Brandon Dillon and my wife, Kelly, and I bought our house at 5032 Mount Etna Drive in December 2017. We recently heard about the plan to build 450+ housing units on the corner of Genesee and Mt. Etna. We originally bought our house under the impression that the property in that area would remain commercial and are upset about the effect the new development would have on the community. We are concerned that the development will increase traffic in the area and will not be able to accommodate for the increased need for parking. Kelly and I are expecting our first child in February. We know that this increase in traffic will cause the street of Mount Etna to become a lot more dangerous for the kids in the neighborhood who live/play in the street, including eventually our own. Additionally, one of the biggest selling point about the area is the highly rated Holmes Elementary school. We are concerned the increase in the community could have a negative effect on their rating and the school district boundaries could be changed to no longer accept our children.

We are concerned about the lack of communication from the city/county on these changes to the zoning requirements. It seems very unethical that these major changes are being considered without any input from the community. Can you please provide me with more information about the following:

- The date and location of any city council meeting that would have an effect on the project moving forward.
- What the funding source is for this development.
- When and where the TEFRA hearing is.

Thank you for your time.

Brandon Dillon
Audit Manager | Audit & Assurance
Deloitte & Touche LLP
655 West Broadway, Suite 700, San Diego, CA, 92101
Tel/Direct: +1 619 237 6821 | Fax: +1 877 828 0633
BRDILLON@deloitte.com | www.deloitte.com

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v.E.1

From: Brian McLaughlin <fourbybry@gmail.com>
Sent: Thursday, October 18, 2018 6:59 PM
To: Cass, Marc
Subject: Low income housing on Mount Etna.

My name is Brian McLaughlin. I strongly oppose the low income housing on Mount Etna. The traffic impact and home values are a major concern for me.

Brian McLaughlin
619-971-3339
Fourbybry@gmail.com

From: Buddy Bohrer <bbohrer@chelseainvestco.com>
Sent: Friday, October 5, 2018 2:21 PM
To: Andrew Cronauer; Cass, Marc; Jackson-Llamas, Angela; HHSA, HCDS; msokolowski@sandiego.gov; planningcommission@sandiego.gov
Subject: RE: Mt. Etna Crime Lab project - CPA and EIR input

Thank you Andrew. We have our initial meeting with the County scheduled early next week. Following that meeting we should have a much better understanding of the process ahead. I am certain that there will be ample opportunities to provide feedback for the proposed project, and we are looking forward to listening to the community as we go through the process.

Thank you again for your email. We will be in touch soon.

Buddy Bohrer

CHELSEA
INVESTMENT CORPORATION
6339 Paseo Del Lago
Carlsbad, CA 92011
760.456.6000 x112
760.795.5612 Direct
760.456.6001 Fax
www.chelseainvestco.com

From: Andrew Cronauer
Sent: Thursday, October 4, 2018 7:19 PM
To: marc.cass@sdcounty.ca.gov; angela.jackson-llamas@sdcounty.ca.gov; HCDS.HHSA@sdcounty.ca.gov; msokolowski@sandiego.gov; Buddy Bohrer ; planningcommission@sandiego.gov
Subject: Mt. Etna Crime Lab project - CPA and EIR input

Dear Mr. Cass, Ms. Jackson-Llamas, Ms. Sokolowski, and Mr. Bohrer,

I am writing to provide input on the Mount Etna Crime Lab (the "Property") and the proposed project to develop affordable housing at that location (the "Project"). I thank you in advance for considering my input as you evaluate the proposed Community Plan Amendment ("CPA") and determine the scope of the Project's Environmental Impact Report ("EIR").

By way of introduction, my name is Andrew Cronauer. I live at 4982 Mount Etna Drive, about a thousand feet (or about a dozen houses) from the Property. My wife Daisy and I sold our Mission Valley condominium to move to Clairemont's "mount streets" in order to start and raise our family in this close-knit family community comprised of single-family homes.

The Project's goals are admirable--I am sympathetic to the need for affordable, accessible housing for all San Diegans, including the most vulnerable among us. Our city's housing market becomes more competitive and more expensive each day, and we have a duty to ensure our residents don't get left behind. I disagree with some of my neighbors who believe our neighborhood is incompatible with any affordable housing project.

We moved into our new home during the spring, when the Project would have been in its earliest stages. Since moving in, however, I have read and heard much more about the possible scope of the Project. I read Mr. Cass's letter to the City Development Services Department dated August 24, 2018 (the "Letter") and General Application on Form DS-3032 and associated forms of the same date (collectively, the "DS-3032"). In the Letter and the DS-3032, Mr. Cass requests an amendment to the Property's land use designation to Residential High, allowing for up to 454 dwelling units in excess of the 30-foot height limit. This scope and density is extremely concerning to me and has prompted me to contact you.

In evaluating the CPA and preparing the EIR, I urge you to consider, among other things, the following items:

- Aesthetics (including, for example, the aesthetic impact of a building of the size considered for the Property, especially as seen from throughout a community composed mostly of single-story, single-family homes);
- Air quality (including, for example, the impact of at least hundreds of additional motor vehicles in the neighborhood);
- Safety and crime (including the impact of introducing a substantial at-risk population--for example, I am a recovering alcoholic and addict and I have seen firsthand the damage that addiction can cause to the addicted individual as well as to his or her community);
- Education (including, for example, the capacity of local schools to absorb a sudden and substantial increase in population, and the impact of placing a substantial at-risk population within an existing school zone);
- Geology and soils;
- Greenhouse gas emissions (including, for example, the impact of at least hundreds of additional motor vehicles in the neighborhood);
- Energy (including, for example, the additional strain on local energy infrastructure);
- Health (including, for example, the impact on community healthcare facilities and the health impacts of the other items in this list)
- Hazards and hazardous materials;
- Hydrology and water quality;
- Land use and planning;
- Noise (especially given the proposed scale of the project and its proximity to [directly bordering] single-family housing);
- Population and housing (including the suitability of the Property for the type of development proposed as well as the impact of such development on existing housing in the neighborhood);
- Public services (including, for example, the availability of public services such as emergency responders to serve the additional population, especially any particular services that may be especially needed by a lower-income or at-risk population);
- Recreation (including, for example, the impact that such a drastic population increase would have on the relatively small [and relatively few] local parks such as Mount Etna Neighborhood Park--and considering that residents of high-density condominiums may have even more need for open recreation space than those in lower-density housing);
- Sunlight access (especially for those neighbors in single-story homes that would suddenly be overshadowed by any building exceeding 30 feet in height);
- Transportation and traffic (including, but not limited to, the impact of hundreds of additional cars each day on traffic, the impact on traffic noise, the impact on road, sidewalk, and other infrastructure, the impact on pedestrian safety [especially in a school zone], the impact on bus capacity, the ease or difficulty of trolley access from the Property, and the ease or difficulty of access to employment centers from the Property);
- Hazards and hazardous materials;
- Hydrology and water quality;
- Land use and planning;
- Wildland fire (including the risk to the Project and the risk posed to the surrounding neighborhood);
- Utilities and service systems;
- Project alternatives; and
- Cumulative effects of the above and all other factors.

I sincerely hope that you will consider the above factors and that the final development plan for the Project addresses the clear need for additional--and affordable--housing in our city without undue impact on our cohesive, well-established single-family-home neighborhood.

Thank you for your time. Please feel free to contact me for further discussion or clarification on the above. I look forward to engaging with you over the coming months as the Project progresses.

Thanks and best regards,

Andrew Cronauer
andrew.j.cronauer@gmail.com
516-382-2065

This email was received from outside the CIC Domain.

From: Abboud, Roy@DOT <roy.abboud@dot.ca.gov>
Sent: Monday, October 8, 2018 11:42 AM
To: State.Clearinghouse@opr.ca.gov
Cc: Cass, Marc
Subject: SCH#2018091016
Attachments: NOP for CPU Amnedment and rezoning 20181008.pdf

Here is the Caltrans Comment letter for the Clairemont CPU amendment and rezoning.

DEPARTMENT OF TRANSPORTATION
DISTRICT 11
4050 TAYLOR STREET, MS-240
SAN DIEGO, CA 92110
PHONE (619) 688-6960
FAX (619) 688-4299
TTY 711
www.dot.ca.gov

Making Conservation a California Way of Life.

October 8, 2018

11-SD-805
PM 21.6
Clairemont Mesa Community Plan Amendment and Rezone Project
SCH#2018091016

Mr. Marc Cass
County of San Diego, Department of General Services
5560 Overland Avenue, Suite 410
San Diego, CA 92123

Dear Mr. Cass:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the Notice of Preparation of an Environmental Impact Report for the Clairemont Mesa Community Plan Amendment and Rezone Project located near Interstate 805 (I-805). The mission of Caltrans is to provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability. The Local Development-Intergovernmental Review (LD-IGR) Program reviews land use projects and plans to ensure consistency with our mission and state planning priorities.

Caltrans has the following comments:

Traffic Impact Study

A traffic impact study (TIS) is necessary to determine this proposed project's near-term and long-term impacts to the State facilities – existing and proposed – and to propose appropriate mitigation measures.

- The geographic area examined in the TIS should also include, at a minimum, all regionally significant arterial system segments and intersections, including State highway facilities where the project will add over 100 peak hour trips. State highway facilities that are experiencing noticeable delays should be analyzed in the scope of the traffic study for projects that add 50 to 100 peak hour trips.

- A focused analysis may be required for project trips assigned to a State highway facility that is experiencing significant delay, such as where traffic queues exceed ramp storage capacity.

- The data used in the TIS should not be more than 2 years old.

- Please provide Synchro Version 10 files.
- Early coordination is recommended.

Complete Streets and Mobility Network

Caltrans views all transportation improvements as opportunities to improve safety, access and mobility for all travelers in California and recognizes bicycle, pedestrian and transit modes as integral elements of the transportation system. Caltrans supports improved transit accommodation through the provision of Park and Ride facilities, improved bicycle and pedestrian access and safety improvements, signal prioritization for transit, bus on shoulders, ramp improvements, or other enhancements that promotes a complete and integrated transportation system. Early coordination with Caltrans, in locations that may affect both Caltrans and the City of San Diego, is encouraged.

To reduce greenhouse gas emissions and achieve California's Climate Change target, Caltrans is implementing Complete Streets and Climate Change policies into State Highway Operations and Protection Program (SHOPP) projects to meet multi-modal mobility needs. Caltrans looks forward to working with the City to evaluate potential Complete Streets projects.

Land Use and Smart Growth

Caltrans recognizes there is a strong link between transportation and land use. Development can have a significant impact on traffic and congestion on State transportation facilities. In particular, the pattern of land use can affect both local vehicle miles traveled and the number of trips. Caltrans supports collaboration with local agencies to work towards a safe, functional, interconnected, multi-modal transportation system integrated through applicable "smart growth" type land use planning and policies.

Mitigation

Caltrans endeavors that any direct and cumulative impacts to the State Highway System be eliminated or reduced to a level of insignificance pursuant to the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) standards.

Right-of-Way

Any work performed within Caltrans right-of-way (R/W) will require discretionary review and approval by Caltrans and an encroachment permit will be required for any work within the Caltrans R/W prior to construction. As part of the encroachment permit process, the applicant must provide an approved final environmental document including the California Environmental

Quality Act (CEQA) determination addressing any environmental impacts within the Caltrans's R/W, and any corresponding technical studies.

If you have any questions, please contact Roy Abboud, of the Caltrans Development Review Branch, at (619) 688-6968 or by e-mail sent to roy.abboud@dot.ca.gov.

Sincerely,

JACOB ARMSTRONG, Branch Chief
Local Development and Intergovernmental Review Branch

From: Camden Flores <camdenmentors@gmail.com>
Sent: Friday, October 19, 2018 9:47 AM
To: Cass, Marc
Subject: Mt. Etna Rezone

Hello Mr. Cass,

I am writing you with concern regarding the low-cost housing proposal on Mount Etna. While I do support adding low income housing to our Clairemont community (as I believe every community should do), this is NOT the correct solution. The building should follow current code. Five stories? Too massive for our small neighborhood. There are two schools nearby and a park used by many families and children. The congestion this would create could lead to an unsafe environment for our children. Please stand up for this community and help keep our streets safe.

Building a smaller unit to house a smaller number of low-income residents is a more equitable solution, for the city, for its current residents, and for those in need of affordable housing (I don't believe Clairemont has adequate social services in place to meet the needs of such a high-number of low-income individuals). I want these residents to feel integrated into our community and supported by its infrastructure. Adding a huge building to house a large number of in-need individuals will only create isolation for the new tenants and division among residents, while adding congestion and loitering...leading to unsafe streets and neighborhoods. This is not the answer to our city's problem of affordable housing.

Please reconsider the details of this proposal and adjust it accordingly.

Sincerely,

Camden Flores

--
2018 San Diego County Teacher of the Year
(619) 804-0033

"Mentorships....Changing the world one child at a time!"

From: Carli LeRoy <carli.leroy@gmail.com>
Sent: Monday, October 8, 2018 4:00 PM
To: Cass, Marc
Subject: Case WT-4224097

Hi Marc,

Can you please tell me if there will be another meeting regarding the crime lab / affordable housing / rezone project? If not we have the written comment form to use but just thought I'd check.

Thanks!

From: Catherine Cebulski <ccebulski@sbcglobal.net>
Sent: Wednesday, October 17, 2018 6:28 PM
To: Cass, Marc
Subject: Mt Etna

Dear Mr. Cass,

As a resident of Clairemont and being only 4 blocks from the proposed low income housing project on Mt. Etna, I have strong concerns regarding the size of the proposed project. I feel that having over 300 units in such a small area is detrimental to our neighborhood. The impact on traffic, parking and overall aesthetics of our neighborhood will be negatively impacted. An example of this is the current Stratton low income apartments which is only a few blocks from the proposed Mt. Etna site. Parking around that area is horrendous and problems with the residents of the Stratton has been an on going issue. Having another large low income housing project so close to the existing low income apartments changes the demographics of our neighborhood. Homeowners who've paid a lot of money to live in this part of Clairemont and have maintained their homes are now faced with changes to the neighborhood that we have no say on. If we have no choice in allowing this type of housing in our neighborhood, then please listen to our concerns and suggestions. Please consider reducing the scope of this project, don't make is 100% low income. Have half the units be market value and the other half low income. Our neighborhood is taking a big hit. We already have a chronically homeless apartment scheduled to be built .5 mile from Mt. Etna, we have the Stratton low income apartment complex one block from the homeless apartments and now 300 units of low income housing being proposed. We love our neighborhood and have invested a lot to live here. Our neighborhood is banding together to put up a fight against such a big change. We urge you to consider other options.

Sincerely,
Catherine Cebulski

From: Cathy Cannon <ccannon1@san.rr.com>
Sent: Thursday, October 18, 2018 10:39 AM
To: Cass, Marc
Cc: ccannon1@san.rr.com; 'michael jarvis'
Subject: Mt. Etna multifamily proposal, (former crime lab)

Importance: High

Greetings~

We own and occupy our SFR property located on the 4200 block of Mount Castle Avenue, the first street west of the proposed multi-family project for low income, homeless and at risk, drug and recovering individuals. I and my husband along with multitudes of neighbors are vehemently against the proposed project and of the plan to waive current height restrictions for new construction. This area cannot afford such developments which will more than double the amount of SFR's and population in the area and increase what is locally already a significant problem with drug addicted transients and mentally ill individuals.

Furthermore, we understand the current plan does not provide appropriate numbers of parking spaces to accommodate the influx of new residents. Mount Castle Avenue, a quiet family, owner occupied street will be the nearest option for overflow parking which takes away from our own on-street parking in front of our homes. Expanding population in this already dense area is not the right solution and punishes owners who pay VERY HIGH taxes to own and live in this area!

Our home was purchased in 2003 and at that time, city improvement plans focused on the undergrounding of power lines with a then published ETA of work in or around 2017 for our area. We looked forward to this upgrade to beautify our neighborhood and increase property values. We are painfully aware this hasn't happened and now the current proposal will bring more blight to the area and negatively impact our property values…not OK! As a matter of fact, on the east side of our street, several houses have recently been put up for sale, a certain indication residents are bailing out before the situation worsens.

Our quality of life and safety is at risk! Stop the planned multi-family development.

*C*athy *C*annon *J*arvis
4240 Mt. Castle Ave
San Diego, CA 92117
c. 858-449-9454
ccannon1@san.rr.com

From: chad colston <chad92117@yahoo.com>
Sent: Monday, October 15, 2018 10:16 PM
To: Cass, Marc
Subject: Mt Edna

Marc,

I am sure you have received several emails per the Mt Edna project and as I suspect most are opposed to the project.

As someone that has lived in clairemont/pb my entire life and home owner in clairemont since 2001, this project is not welcome. 400 units is simply to big for the community. We as a community feel, for lack of a better word, screwed over in this process.

If the project stayed within the existing height limits and adhered to the existing parking spaces per unit (or is it per bed room ... but you get the point) then the community would be more welcoming. Dont dont screw us over because it can be done ... but is exactly how it feels.

Sent from Yahoo Mail on Android

From: Charles DePagter <outaherecharlie@gmail.com>
Sent: Wednesday, October 17, 2018 1:57 PM
To: Cass, Marc
Subject: Rezone project #WT-4224097

My comments are at this time will be in Question Form.
Have you considered our met with the city about the traffic plan for the new Hi-Tec school to be located at Mt Acadia and Mt. Alifan dr? My understanding is that over 1,000 new students are going to be enrolled there. The traffic pattern includes drop off at Acadia. Where is the traffic going to be routed from that point? Off of Mt. Everest or Genesee Ave.?Bus and car traffic should be horrible between 7-9 and 3-4.
What impacts how you looked at for the DMV property at Derrick Dr and Genesee? The traffic is bad between 7-9 and 3-4 for people using the office .
How are you factoring the Traffic pattern at Balboa and Genesee for Mesa College? At times in the morning and afternoon the traffic backs up to Boyd.
You can forget about sending traffic North on Genesee. Clairemont Mesa Blvd is already a mess at 7-9 or 3-5. Balboa Ave is already fully packed during commute hours. When the new Charter school opens it will get worse (drop offs and buses). Forget about Friday when services are going on at the Mosque. Get out of your office on a Friday afternoon and look at it.
Last tell me how an EMT vehicle is going to service Balboa when a accident happens at the Rose Canyon Dip? Will just call it blood alley.With the size of the project it is going to happen.
cannot support the size 474 units at this time until ? until answered. Charles Depagter 3964 Mt. Ainsworth Ave

From: outlook_65C5A5BFE4807024@outlook.com
Sent: Thursday, October 18, 2018 8:32 PM
To: Cass, Marc
Subject: Mount Etna Project

Hi Marc
My name is Chris Bagalini my family and I live at 4818 Mount Gaywas dr.
I thought it was important you understand what an impact the proposed 400 units will have in our neighborhood.
I can speak for our block there are no less then 13 children under the age of 12 that play outside on a regular basis.
Our street already serves as a pass through from balboa to Genesee which as it stands is very dangerous for the kids.
Now imagine how you would feel knowing 400 units are being built 3 blocks from your home , now imagine the increased traffic flow and danger to your children on your street.
In addition it is inconceivable that there are NO proposed infrastructure upgrades to mount Etna / Genesee intersection.
I work all over San Diego and have been around low and extremely low income housing
On a regular basis and the one thing I notice is the constant flow of drug dealers and other individuals looking to take advantage of the less fortunate not to mention the amount of trash that tends to accumulate at these housing projects.
I believe this is a project that needs a more detailed review process concerning the impact on the surrounding neighborhood with respect to the safety of the children and the impact to traffic which is already at its breaking point.
I understand the housing crisis and trying to help others but at what cost ?
My kids safety ? The safety of the community ?

Thank you
Chris Bagalini

Sent from Mail for Windows 10

From: Chris Clark <cclark052006@gmail.com>
Sent: Friday, October 19, 2018 3:08 PM
To: Cass, Marc
Subject: Mt. Etna EIR

Good afternoon sir,

I want to write to tell that the proposed rezoning of the Mt. Etna property must be stopped.

This area is already highly congested due to Genesee Ave. being a major thoroughfare for the Clairemont community all the way from University City to Linda Vista. There isn't anywhere to increase road size at this main intersection either so there's no ability for infrastructure change. The neighborhood elementary school for this area is already at capacity and this project would likely cause the school district to rezone forcing families out of the school. Sorry to say, but yes, families that are paying an exorbitant amount of money to live in this area only so their kids can attend this school. Further, this amount of low income will undoubtedly bring with it a crime increase. Any amount of mass influx would yes, but it's proven that forcing low income into higher income causes more. Look at crime statistics for every school that buses from lower income to upper income.

Sir, this project must be stopped or at a minimum drastically reduced and the zoning change stopped. It's against the best interests of the many residents already living in this area. There are undoubtedly more suitable areas for projects of this nature. There is no primarily residential area that had a five story complex shoved into it. The only place I can think of that currently does is downtown and soon La Jolla near the mall, but neither of these are primarily residential.

Respectfully,

Chris Clark

From: Chris Daudet <chrisdaudet@sbcglobal.net>
Sent: Wednesday, October 17, 2018 6:11 PM
To: Cass, Marc
Subject: Clairemont Mt Etna crime lab site

Mr. Cass,

I am writing as a very concerned and disappointed citizen of the Clairemont community. I feel that this project is being steam rolled over our community with little regard for those of us who call Clairemont home. My husband and I choose Clairemont to buy and home and raise our children 20 years ago. We did so because we loved the feel of the area and the community. Over the years we have watched our community grow and prosper. Our schools have improved substantially and there has been an influx of new young families that now call Clairemont home. This is NOT the home they bought in to. This project is to large and does not belong in Clairemont.

There have been so many great locations suggested, why havent these been considered.

Please take the citizens of Clairemont into consideration. This is our home!

Chris Daudet
3842 Tiara st

Sent from Yahoo Mail on Android

From: chris shaw <shawcorps@msn.com>
Sent: Friday, October 19, 2018 1:06 PM
To: Cass, Marc
Subject: Mount Etna Homeless Housing Project

Good afternoon, Marc,

I have owned a home in Clairemont for several years and have been astounded by how much the neighborhoods have turned around. When we first moved it was very run down, and the shopping center needed a lot of work. Slowly, but surely the neighborhood surrounding Genessee and Balboa is no longer one that I'd be afraid to have my kids play in.

Now, in order to gain political points the County of San Diego is going to attempt to ruin this up and coming neighborhood before it gets a chance to blossom. There is no room for 1,000 more cars, and people. The current height restriction is necessary to keep the community's hard earned luster and feel. There is insufficient public transportation, and this plan clearly has no plan to make this plan work for anyone but the politicians.

Do not change the current zoning, and do not ruin our neighborhood.

Thank you.

From: Christine <christinerboulton@yahoo.com>
Sent: Friday, October 19, 2018 4:24 PM
To: Cass, Marc
Subject: EIR for Mt. Etna

I live across the street and just fought for the Ivy Senior Center, 2 blocks away (to prevent the first proposal that would have put the entire town at risk). Please have mercy on us and don't build higher than existing zoning allows! My community has been under constant attack for these low-income projects. We want to help, but we will not support projects that harm our safety and we'll-being.

Thank you,

Christine

Sent from my iPhone

From: Burton, Claire <Claire.Burton@iqvia.com>
Sent: Thursday, October 18, 2018 3:52 PM
To: Cass, Marc
Subject: FW: Land Use Entitlement for the County of San Diego...

Importance: High

From: Burton, Claire
Sent: Thursday, October 18, 2018 3:49 PM
To: 'marc.cass@sdcounty.ca.gov.' ; 'kevinfaulconer@sandiego.gov'
Subject: Land Use Entitlement for the County of San Diego...
Importance: High

Dear Mr. Cass & Mayor Faulconer:

Ref: Land Use Entitlement for the County of San Diego – Project Mt. Etna 92117 Clairemont

I recently just purchased a home in the Clairemont area (2-blocks away from the propose land development) and utter great apprehension of the proposal to develop the current Crime Lab for Low Income Housing and most especially for MENTALLY ILL residence. As it is, there are several Low Income Housing developed already in the area and building another will bring more stressful accolades into the community. Accolades such as: Vandalism-tagging and theft, traffic congestion, parking, garbage dumping on Public and Private property and surely other unforeseen effects that these kinds of issues to be welcomed. Currently, the area is already condense and cannot support additional impacts. I am also aghast of the poor communication on the County's part regarding this plan….has the County already decided and/or hiding the intent to build such unwelcome land use to my neighborhood/community. I only knew about it when a volunteer neighbor appeared on my door summarizing the said Plan for the vacant property. No mail notifications whatsoever!!

In some frequency, occasions of Police Helicopter hovering in the periphery of the shopping center and adjacent Apartment Buildings in the evenings and/or A.M. time (ALL developed low income housings). Your proposal of the Mt. Etna will surely bring even more frequency to these disturbing kind of law enforcement in the area. As a new residence, I am already alarmed as it is. My observation from living here, ALREADY--the Clairemont Residence have supported the Housing development for Low Incomes – **it cannot absorb another**. **It is abhorrently ridiculous that it seems like it is being forced on us once again!** <u>There are other areas that the County/City can utilize for such urban development, and those areas need to be more equitable to support such plan.</u> I moved from the 92037-La Jolla area and I know for a fact that there is no such housing development nor even the County/City dare to propose such plan in that location. I think the 92117-Clairemont area already have done their part and much more – ENOUGH ALREADY!

I also noticed that there's abundance of young people in the neighborhood with young families, as well as remodeling of homes to improve the look and property values within a 2-miles radius of where I am. I too invested in such enterprise to bring value to my home as well as to benefit the neighborhood. Your land proposal will crush the House Value of my home and my neighbors. The county yearly appraises the value of homes and for a fact, that the County Tax Assessor would never assess lower value via "actual true home value" that reflects secured Tax Bill. Thus, a conflict of interest and poor ethical paradigm from the County for the City.

I work very hard, invested to put care into my surroundings and so as my neighbors. Surely, if it was both of you in our position, **would you even consider such development to be in the immediate next door to you – honestly for certain, surely NOT. This plan is highly corrosive to the Clairemont residence and the negative impact to us mitigates the safety/wellbeing and quality of life -- US HERE – MY NEIGBORHOOD/COMMUNITY! We have done a lot already for Low Income development and it is only fair to have other communities do their part instead of the 92117 neighborhood being constantly looked at as a landfill for another housing plan for low incomes.**

NEW Home Owner & Voter,
Claire Alvarez
San Diego, CA 92117

IMPORTANT - PLEASE READ: This electronic message, including its attachments, is CONFIDENTIAL and may contain PROPRIETARY or LEGALLY PRIVILEGED or PROTECTED information and is intended for the authorized recipient of the sender. If you are not the intended recipient, you are hereby notified that any use, disclosure, copying, or distribution of this message or any of the information included in it is unauthorized and strictly prohibited. If you have received this message in error, please immediately notify the sender by reply e-mail and permanently delete this message and its attachments, along with any copies thereof, from all locations received (e.g., computer, mobile device, etc.). To the extent permitted by law, we may monitor electronic communications for the purposes of ensuring compliance with our legal and regulatory obligations and internal policies. We may also collect email traffic headers for analyzing patterns of network traffic and managing client relationships. For further information see: https://www.iqvia.com/about-us/privacy/privacy-policy. Thank you.

From: volunteers of Clairemontcares.com <sdclairemontcares@gmail.com>
Sent: Friday, October 19, 2018 1:21 PM
To: Cass, Marc
Subject: Mt Etna redevelpoment

- 5 stories is too high-DO NOT CHANGE the current height restriction
-New high density plan will adversely affect near by ***schools*** that are already financially crippled due to repeated annual budget cuts
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING
-Density and low income demographics are associated with higher crime rates: The plan put forth has no extra safety measures to off set the possible increase in crime levels that will be a burden to local law enforcement

--
Clairemontcares.com
Family- Safety- Quality of Life

follow: www.facebook.com/clairemontcares
donate: www.gofundme.com/clairemont-cares-funds
We are an all volunteer group and we need more help. Many of us have busy day jobs, but we believe as a team we can make a difference!
Any time or skills you would like to bring to us is greatly appreciated!

401 B Street, Suite 800
San Diego, CA 92101-4231
(619) 699-1900
Fax (619) 699-1905
sandag.org

October 9, 2018

File Number 3300300

Mr. Marc Cass
County of San Diego Department of General Services
5560 Overland Avenue, Suite 410
San Diego, CA 92123

Dear Mr. Cass:

Subject: Clairemont Mesa Community Plan Amendment and Rezone Project Notice of Preparation

Thank you for the opportunity to comment on the County of San Diego Clairemont Mesa Community Plan Amendment (CPA) and Rezone Project Notice of Preparation (NOP). The San Diego Association of Governments (SANDAG) is submitting comments based on the policies included in San Diego Forward: The Regional Plan (Regional Plan). These policies will help provide people with more travel and housing choices, protect the environment, create healthy communities, and stimulate economic growth. SANDAG comments are submitted from a regional perspective, emphasizing the need for better land use and transportation coordination.

Smart Growth

SANDAG supports the goals and objectives in the 2011 County of San Diego General Plan that encourage smart, sustainable growth and reinforce the principles set forth in the Regional Plan. A key goal of the Regional Plan is to focus growth in Smart Growth Opportunity Areas (SGOAs). This project is located within two SGOAs identified on the Smart Growth Concept Map: an Existing/Planned Community Center (SD CM-4) and an Existing/Planned Mixed Use Transit Corridor (SD CM-5). Development in these areas supports a sustainable and healthy region, a vibrant economy, and an outstanding quality of life for all. Please continue facilitating smart growth with access to planned transit routes and services within the project area.

Transportation Demand Management

Please consider incorporating transportation demand management (TDM) strategies into the Clairemont Mesa CPA and Rezone Project Draft Environmental Impact Report to mitigate transportation impacts associated with the proposed land use changes. Examples of TDM measures to consider include:

- Unbundling parking and implementing reduced parking requirements given the opportunity for shared parking with the proximate commercial uses. Additional parking management strategies could include priced parking and unbundled parking.

MEMBER AGENCIES
Cities of
Carlsbad
Chula Vista
Coronado
Del Mar
El Cajon
Encinitas
Escondido
Imperial Beach
La Mesa
Lemon Grove
National City
Oceanside
Poway
San Diego
San Marcos
Santee
Solana Beach
Vista
and
County of San Diego

ADVISORY MEMBERS
Imperial County
California Department of Transportation
Metropolitan Transit System
North County Transit District
United States Department of Defense
San Diego Unified Port District
San Diego County Water Authority
Southern California Tribal Chairmen's Association
Mexico

- Pursuing partnerships with shared mobility service providers that can provide connections to major employment sites and regional transit services, such as the forthcoming Balboa Avenue Trolley Station, in support of the Mid-Coast Mobility Hub planning work being conducted by SANDAG. Ensure that shared mobility services have dedicated curb space to help facilitate safe and convenient pick-up and drop-off.

- Encourage the use of transit to residents by providing subsidized transit passes and transit pass sales on-site given the proximity to regional transit services.

- Promote carpooling and vanpooling to residents and employees. The SANDAG Regional Vanpool Program provides a subsidy of up to $400 per month for eligible vans.

- Providing enhanced bicycle and pedestrian facilities that connect residents to nearby commercial areas, bikeways, and available transit services.

- Providing secure bike parking (bike lockers or a bike station) and bike repair stands to encourage biking to tenants.

The iCommute Program can assist with promoting regional TDM programs that encourage the use of transportation alternatives and reduce traffic congestion. More information on regional TDM programs is available at iCommuteSD.com. Additional information on the Mid-Coast Mobility Hub Implementation Strategy is available at sdforward.com/mcMobilityHub.

Other Considerations

SANDAG has a number of resources that can be used for additional information or clarification on topics discussed in this letter. These can be found on our website at sandag.org:

- Designing for Smart Growth: Creating Great Places in the San Diego Region

- Planning and Designing for Pedestrians: Model Guidelines for the San Diego Region

- Integrating Transportation Demand Management into the Planning and Development Process

- Parking Strategies for Smart Growth

- Trip Generation for Smart Growth

- SANDAG Regional Parking Management Toolbox

- Riding to 2050: The San Diego Regional Bike Plan

When available, please send any additional environmental documents related to this project to:

Intergovernmental Review
c/o SANDAG
401 B Street, Suite 800
San Diego, CA 92101

We appreciate the opportunity to comment on the Clairemont Mesa CPA and Rezone Project NOP. If you have any questions, please contact me at (619) 699-1943 or at seth.litchney@sandag.org.

Sincerely,

Katie Hentsch

for SETH LITCHNEY
Senior Regional Planner

SLI/KHE/mmo

From: Stephanie Pfaff <stephaniepfaff@earthlink.net>
Sent: Tuesday, September 25, 2018 1:28 PM
To: Cass, Marc
Subject: Comments on the Notice and Preparation Document "Clairemont Mesa Community Plan Amendment and Rezone Project WT-4224097"

1.The proposed development is too large for the site and neighborhood. The corner of Mt Etna and Genesee is highly congested due to the surrounding shopping centers and the fact that Genesee is a thoroughfare connecting 163 and University City. Adding the proposed number of units will greatly impact the area in a negative way.

2.The mount streets have been used as a shortcut from Balboa to Genesee for decades. An influx of residents and cars will result in more traffic using Mt Everest and Mt Castle as shortcuts. My children attend Mt Everest Academy and the speeding traffic along Mt Everest and Mt Etna is already a problem at both school start and end times.

3. The limited amount of parking being proposed at this site for the number of units will result in cars parking all over the neighborhood.

4.The proposed low income tenancy of at least 50% is too high. The Stratton is already a low income complex in the neighborhood and an additional homeless project is being built on Mt Alifan. This is creating a low income hub in the center of Clairemont. Other neighborhoods and zip codes need to absorb some of the low rent units. Who will spend the market rate (expensive) on a brand new rental unit when over half the other residents will be on Section 8, disability etc?

5. The height limit needs to be maintained in the neighborhood. Clairemont is not Hillcrest or North Park or even University City. We are not a high rise community.

-Stephanie Pfaff
3666 Vista de la Bahia
San Diego, CA 92117

From: Connie Wagner <conniewagner4774@gmail.com>
Sent: Friday, October 19, 2018 3:57 PM
To: Cass, Marc
Cc: Toomer, Charista; ChrisCate@sandiego.gov; kevinfaulconer@sandiego.gov
Subject: Mt. Etna Project Scoping

Dear Mr. Cass, Mayor Faulconer, Supervisor Roberts, and Councilmemeber Cate,

The size and scope in a limited space of the Mt. Etna project is the most disconcerting to me. While many have voiced a quick "Not in my neighborhood" protest, that is not my contention.

I simply cannot see how this project can be a success when so many people are going to live in a five-story building, nor can I see how the residents of Clairemont will not be impacted in very negative ways.

In addition to the concerns that have been expressed on numerous occasions, such as egress, safety, parking, traffic, etc., has anyone taken into account that John Muir School is growing, and High Tech High Mesa has opened and will be filled in the next four to five years? With the increased traffic from residents of the Mt. Etna project as well as additional traffic from those taking shortcuts through the neighborhood to avoid the traffic from the project, our school children will be at increased risk. Finally, I have heard that traffic on Genesee will be negatively impacted by the Pure Water Pipeline.

I ask that you work to scale down this project (perhaps to a third or fourth of what is currently being proposed) so that the residents of Clairemont can continue to enjoy the community we love, and the residents of this development can experience the best that Clairemont has to offer. Wouldn't a smaller success be far better than a colossal failure?

Thank you,
Connie Wagner
4774 Mt. Frissell Dr.
San Diego, CA 92117

From: Dalton <bdalton1@san.rr.com>
Sent: Friday, October 12, 2018 10:08 PM
To: Cass, Marc
Subject: Proposed increase in building and density in Clairemont

NO, this makes no sense. Think about it....

The traffic is already crazy, we already don't have enough water, and when it was really hot this past Summer we were told to not use electricity during peak hours due to possible brown outs.

What do you think will happen when many more people are added?

It is completely illogical.

Thank you.

From: daniel celaya <dcelaya04@gmail.com>
Sent: Friday, October 19, 2018 6:44 PM
To: Cass, Marc
Subject: 400 units Claremont site

Marc
I'm writing you too tell you that everyone in the surrounding neighborhoods around this project site doesnt want this to go up. We have worked to hard to make a living out here and survive in san diego to just put site on the corner that's going to bring a lot of unwanted problems around here. This area is finally from up and coming to a nice hard working neighborhood. Now with this we are worried it will revert back to what it was. This isnt downtown!! PLEASE DONT DO THIS PROJECT. we will look up who is backing this project and not vote for them in the next election.

Daniel celaya
5062 mount gaywas dr
San diego ca 92117

From: Daniel Charlier-Smith <daniel@lozeaudrury.com>
Sent: Wednesday, September 26, 2018 11:22 AM
To: Cass, Marc
Subject: Fwd: Clairemont Mesa Community Plan Amendment and Rezone Project (WT-4224097)

Follow Up Flag: Follow up
Flag Status: Flagged

Good Morning Mr. Cass, Would you please let us know who the developer and applicant is for this project ? Thank you

Daniel

--
Daniel Charlier-Smith
Paralegal
Lozeau | Drury LLP
410 12th Street, Suite 250
Oakland, California 94607
(510) 836-4200
(510) 836-4205 (fax)
Daniel@lozeaudrury.com

--
Daniel Charlier-Smith
Paralegal
Lozeau | Drury LLP
410 12th Street, Suite 250
Oakland, California 94607
(510) 836-4200
(510) 836-4205 (fax)
Daniel@lozeaudrury.com

From: Danielle Bossen <Moonslug13@aol.com>
Sent: Thursday, October 18, 2018 2:01 PM
To: Cass, Marc
Subject: Mt Etna housing development

Mr. Cass,
I am a resident of the Mt Etna neighborhood. I currently live in a house there with my family. I also grew up in the neighborhood. I understand and support the need for more housing as potentially provided in the planned housing. However I am very concerned with the density of the housing and the sheer magnitude of cars and number of potential new residents. I also think that a multi story building higher than 2 stories will greatly affect the quality of life for the homeowners that back this potential development. This neighborhood still maintains many residents that have lived in their homes for decades and are now themselves elderly. Please be respectful and not build a massive development that will tower over their homes. I am not against the concept I believe more research needs to be done in the form of traffic studies and for the potential number of children to live there- the zoned elementary for the neighborhood- Holmes elementary is already at its carrying capacity. Has anyone with the city or county researched this issue with the school district? Will the neighborhood have to be rezoned for it's school if this development is approved for its current massive size? This will anger many residents who love their neighborhood school. Please take this into consideration.
Thank you,
Danielle Bossen

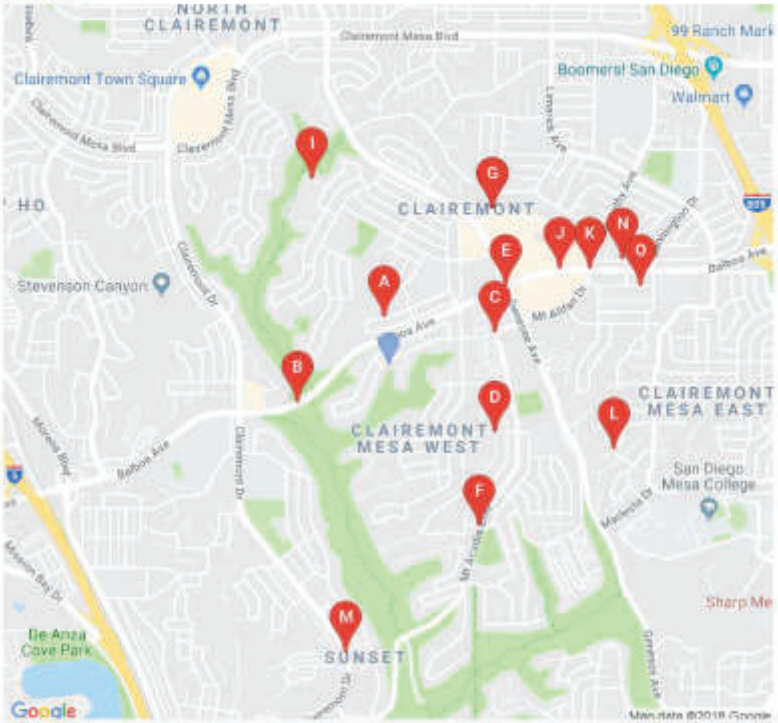
Sent from my iPhone

From: Diogenes <muq@mail.com>
Sent: Friday, October 19, 2018 3:54 PM
To: Cass, Marc
Subject: Mount Etna Project

The biggest problem I see with the high-density housing project is the massive neglect of planning to improve INFRASTRUCTURE first:
1. TRAFFIC. The current vehicular traffic is fully taxed as is. Even if you put an entrance on Genesee Avenue, it would only slightly reduce the bottleneck that would be Mount Etna's problem. Putting an access on Genesee would require condemning private parking for eminent domain. Even if the County already owns the property between Genessee and the planned housing complex, parking for local business would be sacrificed. On Mount Etna multiple driveways would need to be placed, and the street would have to be widened to accommodate increased traffic, the most likely candidate property being on the south side of Mount Etna, thereby sacrificing parking for the businesses located in the building at the southwest corner of Mount Etna and Genesee.
Worse, residents of the new complex coming from Genesee west on Mount Etna to go home would be backing up west-bound traffic on Mount Etna all the way into Genesee, waiting for east-bound Mount Etna traffic to clear so that they can turn left to go home. You'll either need a left-turn lane in the middle of Mount Etna at that area, or stanchions blocking a left turn to keep Mount Etna traffic flowing westward. In the extra-lane scenario, Mount Etna may have to be widened by as much as two lanes, thereby cutting into business properties north and south of Mount Etna. In the stanchions-blocking-left-turns scenario, residents of the new complex would be (a) making U-turns at Mount Castle and/or Mount Everest and/or (b) pulling into business parking lots north of Mount Etna so as to come back out to make a left turn to go east on to Mount Etna so as to be able to turn right into their apartment complex. The term "accidents waiting to happen" comes to mind. Both east- and west-bound traffic on Mount Etna at Genesee already backs up without the burden of accommodating up to 450 new cars. The specter of even doubling (let alone tripling, quadrupling?) the problem boggles the mind.
2. PARKING. That is a huge problem. There appears to be inadequate provision for off-street parking. The City of San Diego has been remiss in the last 30 years or so in not requiring off-street parking. For example, when Balboa Ridge Condos on Balboa Arms Drive were upgraded 10 years ago or so, the off-street parking accepted by the City was ONE parking spot per unit, irrespective of whether the unit was a studio or a four-bedroom. That is sheer idiocy. If the County of San Diego plans to slam that four-acre property with high-density housing, it should require the developer to have two parking spots for the first bedroom and one more parking spot for every additional bedroom. That failing, expect to find cars parked all over neighboring streets -- the problem faced by Mesa College and San Diego State University -- and into the commercial parking lots north of Mount Etna and south of the development. This will not only affect the profit margins of businesses bordering on those parking lots, it will engender anger and possible vandalism as a result. Who's going to police violators of private parking?
3. SCHOOLS. Have any warnings been given to Mount Everest Academy and John Muir Elementary School? When you increase the local population density by anywhere from 25% to 40%, that will be reflected in the demands on the local schools. Can they accommodate such a dramatic increase? Does the County feel that that is its problem?
4. CRIME. One does not need PhD in urban planning to know that the denser the population, the higher the crime rate. It is not linear, but exponential. Think of the crime rate in a rural farming community. Then think of Chicago. Heck, think of just downtown San Diego. Frank Herbert's quote is spot-on here: “Beyond a critical point within a finite space, freedom diminishes as numbers increase. . . . the human question is not how many can possibly survive within the system, but what kind of existence is possible for those who do survive.”
Clairemont already has an annoyingly high crime rate. Here is a sample if it in the area around my house (https://spotcrime.com/#32.8173838%2C-117.1911634):

Email Alerts powered by SpotCrime

3.00 Miles around 4705 Mount Alifan Drive, San Diego CA 92111



B	Burglary	10/07/18. 05:11 AM.	4400 BLOCK BALBOA AVENUE SAN DIEGO	Details
C	Theft	10/04/18. 09:45 AM.	5300 BLOCK MT ALIFAN DRIVE SAN DIEGO	Details
D	Assault	09/06/18. 08:00 AM.	3800 BLOCK CAMEO LANE SAN DIEGO	Details
E	Theft	10/02/18. 07:45 PM.	4200 BLOCK GENESEE AVENUE SAN DIEGO	Details
F	Vandalism	10/01/18. 10:00 PM.	3500 BLOCK MT ACADIA BOULEVARD SAN DIEGO	Details
G	Arrest	10/09/18. 03:30 AM.	5100 BLOCK BALBOA ARMS DRIVE SAN DIEGO	Details
H	Theft	10/01/18. 09:45 PM.	5100 BLOCK BALBOA ARMS DRIVE SAN DIEGO	Details
I	Burglary	10/03/18. 03:10 PM.	4500 BLOCK MT LINDSEY PLACE SAN DIEGO	Details
J	Robbery	09/29/18. 01:14 PM.	5800 BLOCK BALBOA AVENUE SAN DIEGO	Details
K	Burglary	10/09/18. 05:00 AM.	6100 BLOCK BALBOA AVENUE SAN DIEGO	Details
L	Theft	10/05/18. 03:36 AM.	3600 BLOCK BROOKSHIRE STREET SAN DIEGO	Details
M	Arrest	10/06/18. 02:58 AM.	3100 BLOCK CLAIREMONT DRIVE SAN DIEGO	Details
N	Theft	10/08/18. 08:00 AM.	6300 BLOCK BEADNELL WAY SAN DIEGO	Details
O	Arrest	10/02/18. 08:21 PM.	6500 BLOCK MT ADA ROAD SAN DIEGO	Details

Those coordinates are my latitude and longitude within ZIP code 92111 and 92117. To understate it, we Clairemont residents do not relish exacerbating our crime problems. The police can't keep up with what we already suffer.
Is the San Diego Police Department going to be augmented, that is, will there be sufficient new taxes under the planned Clairemont population explosion, to hire enough new officers to keep a lid on the rise in burglary, theft, and vandalism?
5. UTILITIES. I have no direct experience with providing electrity, water, and sewage, but if the amount of attention given to the aspects of infrastructive I've discussed above is reflected for utilities, then the job has been inadequately addressed.
One concern that I've not seen addressed at all is EMF (electromagnetic fields). The planned community is directly underneath SDG&E's high power lines. While there is no consensus about harmful effects -- some say none, some say significant -- one really questions the wisdom of putting living quarters, especially a high-rise, so close to the sources of EMF radiation. As a tax payer, I wonder if my taxes will need to be used in the future to (a) fight a lawsuit for alleged carcinogenic effects and/or (b) pay off a plaintiff.
6. RESIDENTS. It is not clear to me that occupants with problems -- financial, drug-related, mental and emotional, or otherwise handicapped -- will have the support systems they require. Has the County provided solutions to those issues? I don't think a developer cares about the aftermath once he's been paid for fulfilling his contract to build.

Who's picking up the tab for helping those in need? If nobody, then this issue is directly related to the crime issue I've already discussed.
Thank you for your time. Please consider and SOLVE these infrastructure problems before moving ahead with implementing a massive number of new living units in such a tiny space.
Sincerely,
Dave Bullock
4705 Mount Alifan Drive
San Diego, California 92111-2507
858-436-4158

From: David Butcher <davidbutcher17@gmail.com>
Sent: Friday, October 19, 2018 9:26 AM
To: Cass, Marc
Cc: kevinfaulconer@sandiego.gov
Subject: Re: AFM

Hi Marc,

Thanks for receiving my comments.
I've been living in the Clairemont community and owned my home since 1986. During this time I've witness very little if any assistance from the city of San Diego to promote the way of life and create in the county's words a "Live Well San Diego" environment. We, the home owners of this area, have personally shouldered the responsibility to clean up what was left behind by the look the other way city council. We've banded together to literally clean up our neighborhood by walking the canyons and streets picking up trash, monitoring and eliminating drug users/suppliers and making it inconvenient for people to loiter/sleep around our homes. The city of San Diego should be proud of the Clairemont community for doing its part. As a reward it should be noted successful organizations find ways to improve the living standards for those who care and stand behind leaderships direction. In our case we've been ignored way too long. The south Clairemont park is an example. Remiss of maintenance for some time now the tennis/basketball court is completely unusable due to its surface instability and street maintenance in our neighborhood is deplorable.

The location of our Clairemont community with its quick access to San Diego's many freeways makes this neighborhood a highly sought after and desirable place to live. San Diego's county and city leaders should get on board with this understanding and help to make Clairemont its little La Jolla, not an overcrowded and less expensive place to live.

With this said please review the recommendation to develop a 454 unit affordable housing project that will cripple all we've worked for in the past thirty years. The onslaught of cars and people to this area will bury what we've worked so hard to overcome. As a concerned citizen of San Diego I understand as our population grows so will our need to accommodate community living. But as we grow we will also need to honor, protect and serve those who've cared for our community in their lifetimes. Clairemont could use additional parks not parking lots. Marc, this letter is intended to reach out and open the hearts of our city's leaders. It's not my intent to stab any hearts with written words. Please understand our Clairemont community's desire is to believe in San Diego in its future. Trusting the leaders of our beautiful city to reward its citizens who care about our land by developing services to enrich their lives is the perfect opportunity for them to stand behind their "live well" vision. In Mayor Faulkner's words I'm "Proud to be a San Diegan". Help me to be proud of our leaders.

Thank you Marc for reading my comments,
David Butcher
davidbutcher17@gmail.com
4704 Mt. Durban dr.
San Diego, Ca. 92117
858-888-6421

Sent from my iPad

On Oct 18, 2018, at 1:52 PM, Cass, Marc <Marc.Cass@sdcounty.ca.gov> wrote:

> Hi David,

It was a pleasure speaking with you. Please see the link below for additional information on the proposed project. Also, please keep in mind that the comment period for the Environmental Impact Report ends 10/19. You can outline your comments/concerns by simply responding back to me.
https://www.sandiegocounty.gov/sdhcd/ Click on the "Mt Etna and 6th Ave"
Regards,
Marc Cass, Assoc. DBIA
Environmental Project Manager
CCAEA-Secretary

_____

Dept of General Services, County of San Diego l 858-694-2047 l Marc.Cass@sdcounty.ca.gov
5560 Overland Avenue, Suite 410
San Diego, CA 92123
Please consider the environment before printing this e-mail

From: ffdtjune@yahoo.com
Sent: Friday, October 19, 2018 5:06 PM
To: Cass, Marc
Subject: Project case no WT-4224097

Mr. Cass:

I have serious concerns in regards to public safety with the Mt. Etna project.

Proposing building a tenant-occupied high rise structure is extremely unsafe with the current staffing levels at the local fire stations.

The Clairemont fire stations struggle to keep up with the daily calls as it is due to the high-density living in all the apartments and the large homeless population.

The national standard set forth by the NFPA (National Fire Protection Association) states there should be one firefighter per 1,000 citizens. With a population of over 80,000 in Clairemont, this firefighter to citizen ratio is already dangerously low. Adding a high rise with seniors, disabled, and low-income renters, and in excess of probably 2,000 people, would require the addition of more fire staffing. The bare minimum number of firefighters to respond to a high-rise fire, at minimum, is 34.

What is the proposal to add infrastructure, not only fire but police, potentially teachers, and other support providers for the density of this type of complex? Will addition fire and police stations be built to ensure public safety?

This area was not originally zoned for this level of high-density living for a reason. We ask that we put an end to this absurdity at the zoning level.

Concerned citizen,
David June

Sent from my iPhone

Sent from my iPhone

From: Bryan Smith <bds.ucd@gmail.com>
Sent: Friday, October 19, 2018 5:04 PM
To: Cass, Marc
Subject: Mt Etna Comment

Mr Cass,

I am writing as a concerned Citizen to provide feedback on the current proposal for the Mt Etna Crime Lab project. I appreciate the need for a multi-family residential development in this location, and the need for affordable housing. The community is strongly opposed to the current proposal because the number of units proposed (over 400) far exceeds the intent of our community plan and would detrimentally impact the community. We are asking that the density be reduced to be in line with the community plan (or at least closer to it), which has been shown to be economically feasible. A better alternative for the community is a mixed-used development with 120 +/- units with ground floor retail and community center that could be embraced by the community, meet the project objectives, and provide much needed housing for the community. My top concerns for the 400+ unit project are as follows:

1. The high number of people being added will impact schools, which are already over-crowded with high student to teacher ratios
2. The number of residents will impact our park, especially Mt Etna Park by adding 1000 potential users without providing additional park area or improvements
3. I strongly believe in helping mentally-ill or those at risk for substance abuse issues, but they (on average) pose a higher risk of committing crimes. By adding a large number of people with these issues into one location, we will be accepting a disproportionate number of people with severe and potentially dangerous issues into our community. This can provide a risk of increased crime. The number of residents with these conditions should be limited to avoid a disproportionate number of high risk individuals in one area.
4. Mt Etna Drive traffic will become worse, and more dangerous. Residents and park users are already dealing with issues from cut through traffic from Mount Herbert on Mount Etna. In addition, the traffic light at Mt Etna and Genessee already backs up during rush hour. The project cannot safely add 1000 residents without negatively impacting the local streets and making them more dangerous.
5. This location scores in the 30's for transit score, which is considered "poor", so this area should not be targeted for High Density development.
6. The rezone process has been done to this point mostly behind the scenes. Once the rezone is complete, there is no further discretionary approval required which limits the need for a detailed project review with the community. Many of my neighbors had not heard of this project until this week and they feel frustrated in the way the County is circumventing the community involvement.

In summary, we believe in the need for a residential project here. I have not heard from a single resident that is in support of the density proposed (400+ units), but many would be in support of a greatly reduced density in line with the community plan (120+/- units). There is no reason a smaller project would not be viable here, and scaling the project down to conform to the existing density would alleviate most of the concerns mentioned above, and allow the community to embrace this project.

Thank you for your Consideration,

David Smith

Mount Foster Resident

619-564-1266

From: Dean Peabody <dean.peabody@gmail.com>
Sent: Thursday, October 18, 2018 9:37 PM
To: Cass, Marc
Subject: Clairemont Mesa Community Plan Amendment and Rezone Project Case Number WT-4224097

Clairemont Mesa Community Plan Amendment and Rezone Project

Case Number WT-4224097
Notice of Preparation Public Review Period
September 10, 2018-October 19, 2018
Public Scoping Meeting Comment Sheet

Marc Cass
County of San Diego
Dept. of General Services
5560 Overland Ave
San Diego CA 92123
marc.cass@sdcounty.ca.gov

Written Comment Form:

This week I attended the 2nd scoping meeting at Marston school in Clairemont, to hear about the proposal for the Mt. Etna property located at 5255 Mt Etna Drive.

The plan is to build 454 units, and to do this the county/city would need to rezone the property to allow it to go 5 stories high and change the zoning from commercial to residential. I oppose this plan. The size of the building and the density with 454 apartments is out of scope for the existing neighborhood. The county/city should build a development with fewer units that include up to 25% affordable.

As many people at the meeting talked about I am concerned about density, crime and the lack of services for the residents of this project. This is a 4 acre site and with 454 units you could easily have 1,000 plus people in the space and even more vehicles. Will there be spaces available for visitors? Parking would overflow into the adjacent streets of the neighborhood and medical office building across the street.

The developer spoke of the types of people they were designing the property for, including the homeless, or people close to becoming homeless, people who have substance abuse problems, domestic violence victims and their families, seniors, and people with brain injuries. Is there information available about how similar types of projects with these various types of populations have been successful in other developments? I would like to see half of the units available for people who are already in the workforce.

Some questions that come to mind:

Will there be services on site 24/7 for the residents? Social workers who will live on site to help the people when things happen? I recently heard of a successful affordable housing units downtown that included services within the development.

No one mentioned security; will there be a security company on site to monitor the property?

Who will be monitoring the units to verify how many people are living in each unit, if they are all listed on the lease and adhere to the requirements?

Who will be responsible for the ongoing upkeep of the property?

From the diagrams presented at the meeting, there is only one driveway in and out of the complex, this is not safe. Mt Etna Drive is already congested in this area, with the neighborhood traffic, and 2 schools up the street and this is one of the only streets to get to Genesee Avenue.

Walking and biking in this area is already difficult. Has statistics been gathered on the number of accidents at this intersection?

What kind of open spaces will be available for residents?

In one area in our neighborhood on Derrick Drive and Balboa Arms, the area is very dense, filled with apartments and condominiums, each week on our walks we see how much trash and broken glass is around the cars parked on the street. I am concerned with the increase of people in the Mt. Etna complex that a similar situation could happen here.

A major concern is the power lines that currently reside on the parking lot of the project site. Will this cause any health and safety issues for the residents? There is also a natural gas smell on the Mt. Etna side of the street. If the project goes forward, how will the demolition of the building be handled, as there could be asbestos and other hazardous waste?

I highly recommend reducing the size of this project for future residents and current residents of the area and should include both people in the workforce and affordable housing units. If you want it to be successful, bigger is not the answer.

Dean Peabody
4826 Mt. Elbrus Drive
San Diego CA 92117

From: Debbie McLaughlin <dmclaughlin@guildmortgage.net>
Sent: Friday, October 19, 2018 9:03 AM
To: Cass, Marc
Subject: Proposed Housing

Good Morning,
I'm writing to you to voice my concerns about the proposed Mt Etna housing project. I don't feel that this was a well thought out plan, especially the large number of units that are in the plan. Our neighborhood has many winding streets, and adding the additional traffic from this development will greatly hinder our way in and out on a daily basis. Additionally, property values are thriving and adding the low income housing proponent will drastically affect that. Please take the community concerns into account when deciding on this detrimental proposal.

Debbie McLaughlin
Training Specialist Funding
Operations Training
5898 Copley Drive, San Diego, CA 92111
O: 8586272270
Company NMLS # 3274
Equal Housing Lender



From: Debbie Radovich <wilerad@aol.com>
Sent: Friday, October 19, 2018 6:50 PM
To: Cass, Marc
Subject: Mt Etna

Please do not build on the site of the old Clairemont General Hospital, now the Sheriffs Crime Lab. Our neighborhood cannot handle more traffic, much less the hazards that come with low income housing. We've worked hard for our homes.. and our neighborhood. Thank you, Debbie Radovich

Sent from my iPhone

From: Debra Lynn Howell <debralynnhowell@hotmail.com>
Sent: Friday, October 19, 2018 3:34 PM
To: Cass, Marc
Subject: My Etna Redevelopment

Dear Mr Cass
I am adding my voice to the proposed redevelopment plans for the old crime lab on Mt Etna. And it's a resounding NO!

I am alarmed that the traffic impact alone doesn't disqualify this plan. This is one the most congested small cross street intersections in all of Clairemont. The Genesee Ave traffic heading south through Balboa Ave in the afternoons is solid with and backs up for probably half a mile. That means this development would be using the side streets to try and exit and enter their property. Check Mt Etna and you'll see that it already has speed bumps on it to prevent the speeding traffic cutting through this neighborhood for as a short cut to Balboa. Right past an elementary school.

You have a known and acknowledged safety hazard that you are purposefully making worse.

In addition Clairemont has a height limitation that has been a part of our community plan since the 90s. Now this plan is going to be ignored along with the desire of the existing neighborhood so a developer can stuff a people storage unit 5 stories high with a 1000 people in it. This is just unbelievable.

This neighborhood deserves to be listened to and our wishes respected, not to used as an easy mark for developers and a fund source for the County.

What happened to Live Well San Diego? The thousands of San Diegans in Clairemont deserve to live well too!

Debra Howell
Home owner since 2008 and resident birth!
4140 Genesee Ave
San Diego Ca 92111
858-205-7657

Sent from my iPhone

From: delline Williams <dellinespam@gmail.com>
Sent: Friday, October 19, 2018 11:39 AM
To: Cass, Marc
Subject: Mt Etna Project

I am opposed to the Mt. Etna project and the negative impact it will have on the neighborhood. It is far to large a project for the neighborhood to support from the increased traffic to the already over crowded schools. There is already an issue with the traffic on Mt Etna and having that many more vehicles on the corner would just make it like living in downtown San Diego at rush hour. The schools would not be able to support the additional students the project would bring. With the addition of that may people the crime rate would go up. Please do not turn Clairemont into another Downtown San Diego. I thank you for your prompt attention to this matter.
Delline Williams

From: Dennis Moran <djmor49@gmail.com>
Sent: Friday, October 19, 2018 12:29 AM
To: Cass, Marc; chriscate@sandiego.gov; Ron-Roberts
Subject: Mount Etna Crime Lab Project

Marc,
We are providing community feedback within the prescribed timeframe regarding your proposal for the site of the County's former crime lab on Mt. Etna Drive in Clairemont.
We, and all of my neighbors I have spoken with, are in total disagreement with your proposal for the use of that property. I have to say that the normally accommodating residents of the Mt. Etna section of Clairemont are really angry about your proposal and the way you went about moving it forward. Let me get to the details.
You propose changing the existing zoning on that parcel from commercial use to high density multi-family residential. You propose eliminating the 30' height limit contained in our Community Plan. You propose parking standards associated with a designated Transit Corridor. You propose a ministerial project review process that eliminates the role of the Clairemont Community Planning Group in reviewing your plans, leaving the zoning variance decisions up to some city bureaucrat. This is all unacceptable. We live here and deserve to be heard. The project you propose is just too large for this neighborhood and totally out of character with the existing build out. This is a single family home neighborhood. There are no multi-family residences here. A 400 plus unit behemoth just doesn't fit. This area is not on a Transit corridor. There is limited city bus service and good luck if you don't have hours to reach your destination. People who live here drive cars because the bus service is so limited. Parking standards need to reflect this reality or our streets will be lined with cars that don't have a place to park within the development. Your ministerial project review proposal, combined with the exceptionally limited effort you made to seek out community feedback gives us real concern about whether you even care what we think. We find it very disconcerting that when the County's project consultant (AECOM) scoped the project at 116 units with 50% market rate and 50% low income combined with some commercial use that you submit a proposal with 400 plus units, 100% low income and inadequate parking, all requiring zoning variances that you want the City to do without our input. How would you feel if this was your neighborhood we were talking about? The project, as proposed, would have a major detrimental effect on our neighborhood. People move here to raise their families. There are three schools here. Mt Etna Park, although small, is well maintained by the City and used extensively by families and young children. The North City Little League uses three fields behind Mt. Etna Park as their home field. Organized youth soccer teams play on the fields behind John Muir school. Kids and adults use the sidewalks extensively. It's a family neighborhood. Already cars travel too fast on Mt. Etna Drive and the intersection of Mt Etna and Genesee gets very backed up at certain times of the day. With the development you propose, this intersection will become a continuous nightmare from the new traffic from the proposed housing units trying to exit onto Mt. Etna to get to Genesee. This, of course, will lead to cut through traffic and more speeding on Mt Etna Drive. This is all avoidable with a proposal that is properly sized for the neighborhood rather than for the financial needs of the developer.
We want to comment on the proposed occupant allocation percentages. The homeless need to go somewhere and whatever is built in Clairemont will be a small down payment on the solution to this problem. I want to share our experience to highlight our concerns. Our neighborhood has a homeless flop house. 8-9 adults live in a four bedroom house. It's a drug house where drugs are made and sold. Some residents are well known to the police. There are 10 vehicles that park there. The police can't help us unless they catch them in the act which is highly unlikely. The City Code Compliance office can't help because the SDSU mini dorm lawsuit has their hands tied. Vandalism has increased since the arrival of the homeless. Drug buyers stop by at all hours. What if your proposed development includes a group of folks like this? What can we expect from the City to fix the problems that will occur?

The character of the Mt Etna neighborhood has changed over the years. It used to be that you could buy a house here for 200K. Now it takes 700K to buy into this neighborhood. People care for their homes and keep them maintained. They care about their neighborhood. The people here didn't cause San Diego's affordable housing crisis. The blame sits squarely with the politicians who made short sighted decisions and those who chose to become lap dogs for the Unions and the Environmental Lobby. Policy decisions were made that have caused the construction of affordable housing to be 3X the cost of other adjacent states. The people here are not a bunch of NIMBY lunatics. They have compassion for seniors and low income people who just need a place to live. The neighbors I know can get behind a right sized project that doesn't destroy the character of the neighborhood, doesn't damage our quality of life and the desirability of this neighborhood and keeps the trouble makers out.

Thank you for hearing us out.

Dennis and Barbara Moran
4661 Mount Putman Court
San Diego, CA 92117
djmor49@gmail.com

From: Lyn Booth <lynbluewaves@gmail.com>
Sent: Friday, October 19, 2018 3:48 PM
To: Cass, Marc
Subject: Mt. Etna project

October 18, 2018

To: County of San Diego

Re: Clairemont Mesa CPA and Rezone Project WT-4224097 (Mt. Etna)

We are in opposition to the proposed Chelsea project and against a zoning change. This project was hatched in the county's offices with no prior input from the people it will affect! This Mt. Etna location is not suitable for many reasons:

- WAY too large for the site, too much density for an existing neighborhood!!
- Too close to established single family homes, out of character for the area
- Tall buildings would take away the current privacy of the nearby homes and block sunlight
- Increased noise from tenants and cars in the complex coming and going would be a continual nuisance to neighbors
- Added light and glare from the building would be a nuisance
- Ongoing construction would have disruptive effects on the entire surrounding area with trucks coming and going, blocking traffic, also degrading air quality with noise, exhaust and dust
- The lengthy 99-year lease will see the complex deteriorate with time as many projects do, creating an eyesore for the community
- Neighborhood streets will see more side street traffic trying to circumvent gridlock at intersections; also more noise from the added traffic and more on-street parking, which will take away current residents' spaces
- The proposed mix of tenants is not a good fit—persons with drug and alcohol abuse problems, homeless history, "serious" mental illness, and other behavioral issues should not be housed in a high density project next to family homes, nor are they suitable to live together with families in the complex itself! Higher crime is associated with these demographics
- The single entrance/exit driveway for the complex would spill directly into lines of cars waiting at the intersection of Mt. Etna and Genesee, which would be a gridlock nightmare!
- This project offers NOTHING to benefit the surrounding community—why should it be exempt from providing infrastructure improvements, a park, or other mitigation features?
- Existing schools cannot handle more students from a high density complex
- The cumulative effect of the above problems, combined with other area projects through future years, would be harmful to our quality of life, which we cherish and for which we have paid a high price to live in this area! We don't deserve to have our zoning changed to degrade it all.

Clairemont already has a high percentage of affordable housing and is targeted for yet another project on Mt. Alifan. This particular site is in the middle of our community's central business district with tremendous traffic gridlock already! More gridlock creates more stress and time issues in our lives!

The site could be better used to provide County services or to bring in more revenue to the County by leasing to a profitable businesses, not subsidized housing.

Sincerely,

Don and Lyn Booth

3606 Pocahontas Ct., SD 92117 lynbluewaves@gmail.com

From: Don Burnette <donburnette05@hotmail.com>
Sent: Monday, October 15, 2018 5:55 PM
To: Cass, Marc
Subject: Re: Mt. Etna Project

Don

From: Don Burnette
Sent: Thursday, October 11, 2018 3:38 PM
To: marc.cass@sdcounty.ca.gov
Subject: Mt. Etna Project

Dear sir
I strongly oppose the project at 5255 Mount Etna, for the following reasons:

1 lack of Community input
2 large increase in population in a quiet established neighborhood ~1957
3 little or no parking available
4 increase in traffic (there is already gridlocked at times in this area)
5 large potential for an increase in crime
6 clear violation of height restriction

Thank you,
Don Burnette
4762 Mt. Gaywas dr. 92117

Sent from my Galaxy Tab A

From: Don Burnette <donburnette05@hotmail.com>
Sent: Thursday, October 11, 2018 3:39 PM
To: Cass, Marc
Subject: Mt. Etna Project

Dear sir
I strongly oppose the project at 5255 Mount Etna, for the following reasons:

1 lack of Community input
2 large increase in population in a quiet established neighborhood ~1957
3 little or no parking available
4 increase in traffic (there is already gridlocked at times in this area)
5 large potential for an increase in crime
6 clear violation of height restriction

Thank you,
Don Burnette
4762 Mt. Gaywas dr. 92117

Sent from my Galaxy Tab A

From: Dorothy Jensen <fredotjen@earthlink.net>
Sent: Friday, October 19, 2018 12:11 PM
To: Cass, Marc
Subject: Fw: Mt. Etna Project proposal is a disgrace on manypoints
Attachments: Mt. Etna Project proposal is a disgrace on manypoints

Dear Mr. Cass, Trying to send this again...forwarding. Apologies for misspelling your name. Am I too old for computers? Ha! Dot Jensen

From: Doug Johnson <ws.doug.johnson@gmail.com>
Sent: Friday, October 19, 2018 3:54 PM
To: Cass, Marc
Cc: chriscate@sandiego.gov
Subject: Mt. Etna project

Marc,

Thank you for reading this. All our time is valuable. I am a proud resident of Clairemont since 2001. I'm in my 40s and married with 2 teenage kids. Small business owner in Morena Blvd area. It's taken a decade or so for people to respond positively when I tell them where I live or where we bought. People want to live in this community, kids are attending their neighborhood schools. Newcomers share the same pride as the original residents in the house next door.

- **Do not change the height limit** - this sets a very bad trend. Areas of SD that are designed for vertical living have infrastructure to support it. CLMT does not. We are already running at capacity.
- **Do not change the zoning** - the community would be better served with another employment zone.
- **The density number proposed is way to high**

If I look at this purely analytically from the numbers given in the scoping meetings, this is a square peg in a round hole. This 20lbs in a 5lbs bag. The adjacent neighbor and surrounding **shared** infrastructure can not handle that many people living at the density.

1st elephant in the room: The reality is there will be way more adults (2x to be conservative) living per unit than what was originally designed. This is SoCal.....people will have cars for quite sometime. Mt Etna, Mt. Castle, Mt Everest residents will get screwed.

2nd elephant in the room: A low income demographic living at density (that being the key word) brings problems with it. Enough said on that, the stats are what they are.

It struck me that the completed project slides Chelsea showed at the last meeting all seem to have land as a common aspect. This project should be moved elsewhere to a area that can support the aggressive mandates set by the state. There is a right and wrong way to do this.

Thanks for your time,
Doug Johnson

From: Douglas Graham <douglaspgraham@gmail.com>
Sent: Friday, October 19, 2018 5:28 PM
To: Cass, Marc
Subject: Low income housing Clairemont

Mr Cass,
I am a long-time resident in the area of the proposed low income apartment building in the mountains streets. While I believe that all communities should share in low income housing, I believe this plan overburdens our neighborhood. The traffic in the area is already bad and this proposed project could only make things much worse. Please reconsider the size and scope of this plan and don't ruin our neighborhood.
Respectfully,
Doug Graham
4327 Mount foster ave.

Clairemont Mesa Community Plan Amendment and Rezone Project
Case No. WT-4224097
NOTICE OF PREPARATION PUBLIC REVIEW PERIOD
September 10, 2018 through October 19, 2018

PUBLIC SCOPING MEETING COMMENT SHEET

Tuesday, September 25, 2018
COUNTY OF SAN DIEGO
DEPARTMENT OF GENERAL SERVICES
5560 OVERLAND AVE
SAN DIEGO, CA 92123

WRITTEN COMMENT FORM

The current proposal to build a high-rise building on the site of the Crime Lab is a bad one. Up to ~450 apartments means up to 900 additional cars in the area. With ~225 parking spots allocated for the parking lot, ~675 cars will flood the local streets, resulting in all available sites along the nearby roads to be filled. Others have mentioned this at Tuesday's Scoping meeting. No one thought to ask this question: Where do we put our garbage and recycling cans each week for pick-up? You can be sure all spaces will be filled by cars when residents bring out their trash + recycling ...

(Attach additional pages as needed)

MAIL or E-MAIL FORMS TO:

Marc Cass
County of San Diego
Department of General Services
5560 Overland Ave
San Diego, CA 92123
E-mail: marc.cass@sdcounty.ca.gov

Edward B. Little
Signature

Edward B. Little
Print Name

4333 Mt. Castle Ave
Address

San Diego CA 92117
City State Zip Code

619-869-6175
Phone Number

COMMENTS MUST BE RECEIVED BY 5:00 PM OCTOBER 19, 2018

From: ed little <elittle42@yahoo.com>
Sent: Friday, September 28, 2018 12:00 PM
To: Cass, Marc
Subject: Another complaint from an angry Clairemont resident
Attachments: Another complaint from an angry Clairemont resident.pdf

Marc,

I believe the County has overlooked a very important side effect of placing a ~450 dwelling building at the site of the Crime lab. 450 dwellings = 900 cars. Where will the excess cars park? On the sides of the local streets. As noted by several at the scoping meeting, this will result in all available space to be occupied by the overflow parked cars. So where do we residents place our garbage and recycling cans for pick-up each week? On the street-side of the parked cars? In our driveways? Either way is just asking for traffic accidents.

More complaints on the way.

Ed Little
4333 Mount Castle Ave.

From: Eddie Bradford <eddie.bradford@gmail.com>
Sent: Friday, October 19, 2018 2:02 PM
To: Cass, Marc
Subject: Crime Lab - Mount Etna EIR feedback

Hi Marc,

Myself and many of my neighbors have serious concerns about the crime lab rezoning and low income project currently being considered by the county.

Our neighborhood is a master planned community and the infrastructure and neighborhood character was not designed for this kind of density increase.

This project significantly exceeds maximum units for the current zoning and will have a negative impact on our community bringing more crime, traffic and strain on our infrastructure. Complexes with 100% low income residents have been shown to significantly increase crime in the area especially high density complexes such as this. Both low income recipients demographically contribute to higher crime as does high density and this project brings both.

This level of rezoning and density increase should not move forward unless the lacking infrastructure and quality of life issues are sufficiently addressed.

--
-Eddie

From: Elizabeth McQuinn <eparseghian@yahoo.com>
Sent: Wednesday, October 17, 2018 5:12 PM
To: Cass, Marc
Subject: Clairemont Housing Project

Hello,

As a Clairemont resident, I am writing to inform you that I am against the low income housing project that is proposed for mt etna & genessee. 400 units designed for a multiple story building that exceeds the town's height limit is unacceptable. San Diego needs to design smaller scale low income housing and determine the effects on local communities, before building these grand scale units that could have detrimental effects to the surrounding community. I also find it interesting that clairemont (a historically working / middle class region) is the new Home for severely low income individuals, however more wealthy areas such as La Jolla or Encinitas don't have plans for the same types of low income units.

Thank you,

Elizabeth McQuinn
760-265-0525

Sent from my iPhone

5255 Mt. Etna. Re- Crime Lab 1800 pages of NO→Lar King. or Little

Clairemont Mesa Community Plan Amendment and Rezone Project
Case No. WT-4224097
NOTICE OF PREPARATION PUBLIC REVIEW PERIOD
September 10, 2018 through October 19, 2018

ASAP

PUBLIC SCOPING MEETING COMMENT SHEET

Tuesday, September 25, 2018
COUNTY OF SAN DIEGO
DEPARTMENT OF GENERAL SERVICES
5560 OVERLAND AVE
SAN DIEGO, CA 92123

WRITTEN COMMENT FORM

As a long-time resident in Clairemont (Mt. Etna Dr.), I oppose the proposal to add a 400+ residential property for affordable housing (or any housing!) on the Genesee & Balboa access. Currently, there is too much traffic in this area already and more residents will saturate the issue further. It also creates much traffic on our neighborhood streets. With two schools and community baseball fields, the traffic and street parking is already at it's limit.

While I understand and appreciate the need for affordable housing, especially for seniors, disabled and veterans, I believe placing such a large unit in this area would be bad for all parties (current residents, businesses and new residents). We simply do not have the infrastructure to accommodate that many people, cars, traffic (inc. buses blocking the increased traffic), etc.

Instead consider affordable housing for qualified seniors and protected veterans of perhaps 100 or less units, to include a nice garden & outdoor space. This would be better for the community, not only due to the space issue but also to eliminate further crime in our neighborhood and potential danger to our young students attending schools on Mt. Etna.

(Attach additional pages as needed)

MAIL or E-MAIL FORMS TO:

Marc Cass
County of San Diego
Department of General Services
5560 Overland Ave
San Diego, CA 92123
E-mail: marc.cass@sdcounty.ca.gov

Elsa Lachmayr
Signature

Elsa M Lachmayr
Print Name

4942 MT. Etna DR.
Address

San Diego, CA 92117
City State Zip Code

(858) 354-0963
Phone Number

COMMENTS MUST BE RECEIVED BY 5:00 PM OCTOBER 19, 2018

From: Elsa Lachmayr <elachmay@gmail.com>
Sent: Thursday, October 18, 2018 3:50 PM
To: Cass, Marc
Cc: elsa lachmayr; Stephen Lachmayr
Subject: Clairemont Rezone Project Case# WT-4224097
Attachments: Case# WT-4224097_Clairemont.pdf

Mr. Cass,
please see attached regarding this case. Thank you.

Sincerely,
Elsa Lachmayr
4942 Mt. Etna Dr.
San Diego, CA 92117

From: Emily Cottrell <1emilygrant@gmail.com>
Sent: Thursday, October 11, 2018 6:03 PM
To: Cass, Marc
Subject: Re: Clairemont Mesa CPA 2nd Scoping Meeting

Hi Marc,

I got your notice in the mail. I'm on the mailing list as Clairemont Cares, but I'm actually Clairemont Coalition on Homelessness. Could you update? If I'm the only person identified as Clairemont Cares, I'm happy to let them know so that they can get on your list as well, although I'm sure Robyn or Julie or Eddie already is.

Many thanks for your hard work. That was quite a scoping meeting!!

Good luck,
Emily Cottrell

Sent from my iPhone

On Oct 11, 2018, at 2:26 PM, Cass, Marc <Marc.Cass@sdcounty.ca.gov> wrote:

> Hi there,
> The notice for the second scoping meeting was mailed out on October 5th, but to ensure folks weren't missed in the mailing, it's attached. If you've already received the notice, please disregard.
> Thanks,
> Marc Cass, Assoc. DBIA
> Environmental Project Manager
> CCAEA-Secretary
>
> _____
> Dept of General Services, County of San Diego l 858-694-2047 l Marc.Cass@sdcounty.ca.gov
> 5560 Overland Avenue, Suite 410
> San Diego, CA 92123
> Please consider the environment before printing this e-mail

From: Emily Cottrell <1emilygrant@gmail.com>
Sent: Saturday, October 20, 2018 9:08 AM
To: Cass, Marc
Subject: California Public Records Act Request - WT-4224097 EIR Comments

Hello Mr. Cass:

I am writing to request public records from the County of San Diego under the California Public Records Act. I would like information regarding the comments received by the County in response to the County's Notice of Preparation of Environmental Impact Report, Clairemont Mesa Community Plan Amendment and Rezone Project (WT-4224097) dated September 10, 2018 and October 5, 2018 (together, the "EIR Notices").

Please provide a copy of the following:

1. All writings received by the County in response to or related to the EIR Notices, including but not limited to writings received by the County that reference the EIR Notices, the Mt. Etna Project, and the September 25, 2018 and October 15, 2018 scoping meetings, whether sent by email, U.S. Mail or otherwise; and

2. Any written record of public input or comments received during the public scoping meetings held by the County on September 25, 2018 and October 15, 2018. The request is directed at any written records of comments received, including identification of the speaker and the nature of the comment, and not the County's evaluation of any such comments.

With regard to the County's response to Item 1, please advise if you received phone calls regarding the EIR Notices. If so, please advise whether there are any documents containing the name of the person that contacted the County and the nature of their comments that could be disclosed in response to this request. As with the above, this request does not seek the County's evaluation of any such communications.

I would like to receive electronic copies of the documents, but I am available to inspect same and can also make arrangements to obtain copy of the County's records.

Please advise by November 1, 2018 whether the County will comply with the request. I would appreciate the County's timely disclosure.

Please feel free to contact me if you have any questions or to discuss the County's response. Thank you for your prompt attention to this matter.

Very truly yours,
Emily Cottrell
3519 Cowley Way
San Diego, CA 92117
760-846-4957

From: Emma Smith <emmakuhns@gmail.com>
Sent: Thursday, October 18, 2018 4:32 PM
To: Cass, Marc
Subject: My. Etna: High density is too dense.

Hello Mr. Cass,

I understand that there will likely be a development project at the Mt. Etna site, but please do not allow this high density rezone to be approved. We can add more homes that reflect the current makeup of the community. I moved to Clairemont to get away from high density establishments and urban issues.

I've got two children under three and chose Clairemont because of its suburban density and safety.

I truly hope you are able to find a different solution to implement in this location. 400 units is more dense than the most dense areas of downtown and it really doesn't fit here. This is the wrong project for this location. Perhaps a community park and some townhomes would be a fair compromise.

Please, please, please hear our community when we say this just isn't the right project for this location.

Sincerely,
Emma Smith
Mt. Foster Avenue
Clairemont, San Diego

Sent from my iPhone

From: Eric Gradyan <egradyan@pacificbuildinggroup.com>
Sent: Friday, October 19, 2018 1:24 PM
To: Cass, Marc
Subject: FW: Mt. Etna Indigent Housing Project

From: Eric Gradyan
Sent: Friday, October 19, 2018 12:14 PM
To: MARC.CASS@SDCOUNTY.CA.GOV
Subject: FW: Mt. Etna Indigent Housing Project

From: Eric Gradyan
Sent: Friday, October 19, 2018 12:09 PM
To: marc.cass@sdcount.ca.gov
Cc: Janette Gradyan <jgradyan@gmail.com>
Subject: Mt. Etna Indigent Housing Project

Marc,

My name is Eric and I am a concerned Clairemont resident. I attended the scoping meeting for the Mount Etna housing project the other night. Quite honestly I think the developer, architect, and county should be embarrassed and ashamed to propose what they did. To warehouse people in 448 units on a little over 4 acre site is ridiculous. That is four times what this lot is currently zoned for. Not only do you have to amend many of the zoning and city planning requirements to implement this plan but can you image the poor quality of life the tenants will have. Can you image if your elderly mother lived there and what it would be like living in such close proximity to 250 homeless, recovering durg addicts, alcoholics, the mental ill and their families. The people that you are proposing as tenants are already under tremendous stress and to be placed in tiny boxes right on top of each other will only exasperate there conditions. This will then spill out into our community and create a tremendous burden on us. Crime, homelessness, traffic, and the burden to are already overburdened infrastructure will all undoubtedly increase. Also do you realize what this development is going to be like in five years, how worn out it is going to be, the plumbing issues that many units are going to have, the strain on the infrastructure. It will have major issues almost right away.

The type of project your are proposing are what used to be called “the projects” and are widely known to be unsuccessful and a detriment to the community where ever they have been built. That is why densities of this nature are no longer built.

I realize that this it the classic bait and switch tactic that the government and developers use, propose the best for them/worst for the community case first and then work down from there and any of the extra units you are allowed to build the more money you make. It is completely unacceptable and we plan on opposing it in any and every way possible.

For once you and your team need to do what is right for the community and not what is best for the developer.

From: Eric Gradyan <egradyan@pacificbuildinggroup.com>
Sent: Friday, October 19, 2018 12:14 PM
To: Cass, Marc
Subject: FW: Mt. Etna Indigent Housing Project

From: Eric Gradyan
Sent: Friday, October 19, 2018 12:09 PM
To: marc.cass@sdcount.ca.gov
Cc: Janette Gradyan
Subject: Mt. Etna Indigent Housing Project

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For once you and your team need to do what is right for the community and what is best for the developer.

From: ericasparks10 <ericasparks10@gmail.com>
Sent: Friday, October 19, 2018 3:23 PM
To: Cass, Marc
Subject: Clairemont Housing

5 stories is too high-DO NOT CHANGE the current height restriction
-New high density plan will adversely affect near by schools that are already financially crippled due to repeated annual budget cuts
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING
-Density with low income demographics are associated with higher crime rates: The plan put forth has no extra safety measures to off set the possible increase in crime levels that will be a burden to local law enforcement

Thank you,
Erica

From: Erika Clark <bifdust@yahoo.com>
Sent: Friday, October 19, 2018 9:06 PM
To: Cass, Marc
Subject: Mount Etna Project

Hello Marc,
I am writing to you as a concerned and quite frustrated member of the Clairemont community. I have lived and grown up in Clairemont my entire life and feel that this project is absolutely wrong for the community.
The current zoning and height limit should be followed as is. I feel that a 5 story building is ABSOLUTELY too high!!! So many of my neighbors on Mount Castleton DID NOT purchase their homes to have some 5 story high building squeezed in right behind them.
There are no neighborhood schools that can support the new children that would come in due to this. Schools that were mentioned as being available are not a neighborhood school. The are a charter and a homeschool based. The neighborhood school is busting at the seams and can not even allow any choice kids into it. How do you think the people who specifically moved into this neighborhood to have their babies and toddlers go to Holmes Elementary are going to feel when the city has to reset its boundaries due to the building of this project?!

The streets of this small and quaint neighborhood can not support the amount of traffic that will be coming through it. During peak hours there is a high enough volume of traffic already. Our local grocery stores (Sprouts and Vons) are already crowded and adding in another 1000+ people would only cause more congestion. Not to mention the amount of cars that will be parked on the Main Street, parking in the adjacent business parking lots.

Our current zoning was put into place for a reason. We are not Mission Valley!! This is a smaller residential area. I do not understand why you can not leave the zoning and build something that will thrive and not build something that will just survive. On top of it Clairemont has horrible plumbing and adding that many people would just be a disaster to this area and our pipes.

I absolutely love the idea of having a smaller scale low income senior and mentally disabled building. By following the current zoning you could absolutely make this work and have it thrive. With the surrounding schools and those near by I can guarantee that their students would volunteer for their hours.

Lastly our community and city is hurting when it comes to our law enforcement. Typically with lower income buildings comes a raise in crime rate. Our neighbors can’t get police to come out when being verbally threatened but now we have to home if we have any problems with this building that our police force will respond. I just want to live in a community where our opinions and values are respected and heard.

Thank you for your attention to this important matter,
Erika Clark

From: Erika Clark <bifdust@yahoo.com>
Sent: Friday, October 19, 2018 8:38 PM
To: Cass, Marc
Subject: M

Erika Clark

From: Jimenez, Ann on behalf of HHSA, HCDS
Sent: Monday, October 15, 2018 8:12 AM
To: Murillo, Felipe
Cc: Morse, Dawna; Salmons, Kelly
Subject: FW: WT-4224097 - Crime Lab Rezoning

Here you go.

Thank you,

Ann Jimenez, Administrative Secretary II
Housing and Community Development Services
County of San Diego Health & Human Services Agency
O: (858) 694-8742 | C: (619) 385-2803 | MS: O-231

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From: Michael Brewer [mailto:michaeldbrewer@gmail.com]
Sent: Sunday, October 14, 2018 9:58 AM
To: HHSA, HCDS ; bbohrer@chelseainvestco.com; Cass, Marc ; Jackson-Llamas, Angela
Subject: WT-4224097 - Crime Lab Rezoning

All,

I was unable to make the 25th meeting as it was not advertised or made public for people to be present for this critical meeting. It seems a bit shady for something that will dramatically affect the area to not engage the local community. I do not support any changes without the below being addressed in the plans.

Points that are not called out int he presentation or anywhere on the site:
* Developer will be mandated to develop equal parking to density proposals
* Developer will be required to assessment and upgrade pedestrian areas to accommodate the increased foot traffic
* Developer will be mandated to use solar or wind to augment the or fully power the new development (cover parking or on top of the building)
* City will upgrade public transit to accommodate the increase
* Water, seer, power, how will this be upgraded to handle
* City will expand current roads to accommodate more traffic

We cannot accept any plans that does not address the parking situation. They must account for (at a minimum) 1 car per studio, 2 cars per single bedroom, 4 for 2 bedroom, and so on. If not, they are going to profit off the city and force the residents and the city deal with the overflow and street parking. Also, any developer must agree to contribute to an overall infrastructure pool, that expands the trolley to the area and other public transit projects to move the people.
--
Michael D. Brewer
The BBF Group
San Diego, Ca

858-357-4665 - Direct
http://www.thebbfgroup.com

From: Jimenez, Ann on behalf of HHSA, HCDS
Sent: Friday, October 19, 2018 2:29 PM
To: Murillo, Felipe; Morse, Dawna
Cc: Salmons, Kelly
Subject: FW: Proposed Project at Genesee Mt Etna site

Thank you!

Ann Jimenez, Administrative Secretary II
Housing and Community Development Services
County of San Diego Health & Human Services Agency
O: (858) 694-8742 | C: (619) 385-2803 | MS: O-231

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From: wreckenrod@aol.com [mailto:wreckenrod@aol.com]
Sent: Thursday, October 18, 2018 6:54 PM
To: HHSA, HCDS
Subject: Proposed Project at Genesee Mt Etna site

This idea and plan is INSANE !
This site is STEPS away from an elementary school!
-Dangerous are for pedestrian
-CRAZY to change Zoning,,,,,Residents need to have a say on what goes on in THEIR neighborhood !
-Parking and traffic are bad enough already....but to put this building type,and resident type in a residential neighborhood full of familes,elderly and long time home owners is ridiculous and poorly planned !

YOU CAN"T Do This ! As a Home OWNER and resident in Clairemont,my FAMILY and I STRONGLY oppose this project and any CHANGES in ZONING !!

PLEASE Re-Consider this INSANE,poorly planned idea!

Paul and Donna Eckenrod
92117 Home Owners and concerned citizens

From: Jimenez, Ann on behalf of HHSA, HCDS
Sent: Friday, October 19, 2018 2:36 PM
To: Murillo, Felipe; Morse, Dawna
Cc: Salmons, Kelly
Subject: FW: Mt. Etna & Genesee Ave...

Thank you.

Ann Jimenez, Administrative Secretary II Housing and Community Development Services County of San Diego Health & Human Services Agency
O: (858) 694-8742 | C: (619) 385-2803 | MS: O-231

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-----Original Message-----
From: elaine [mailto:elaine6199@gmail.com]
Sent: Thursday, October 18, 2018 9:36 PM
To: HHSA, HCDS <HCDS.HHSA@sdcounty.ca.gov>
Subject: Mt. Etna & Genesee Ave...

Please take into consideration that the # of units proposed here is far too many for this area to accommodate. Our concerns too much traffic, devaluation of local properties, crime, schools too near by; and, then there is the height limits, too!

Please research your own data base of other locations and deny this project.

Rainer Goerres
Rainerg279@gmail.com
4457 Mount Henry Ave.
858-279-5887

From: Jimenez, Ann on behalf of HHSA, HCDS
Sent: Monday, October 15, 2018 4:21 PM
To: Murillo, Felipe; Morse, Dawna
Cc: Salmons, Kelly
Subject: FW: Crime Lab Affordable Housing

Follow Up Flag: Follow up
Flag Status: Flagged

Here you go.

Thank you,

Ann Jimenez, Administrative Secretary II
Housing and Community Development Services
County of San Diego Health & Human Services Agency
O: (858) 694-8742 | C: (619) 385-2803 | MS: O-231

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From: Rob Thompson [mailto:thomperyt@gmail.com]
Sent: Monday, October 15, 2018 1:33 PM
To: HHSA, HCDS
Subject: Crime Lab Affordable Housing

Greetings -

I'm Rob Thompson and a Clairemont resident and am opposed to the Crime Lab housing site on Balboa and Genesee.

Traffic on Genesee and Balboa is already very bad. The neighbors have filed many complains with Council Member Chris Cate's Office directly and the police regarding the increasingly worse situation of red light runners and the increase of homeless and drug users in the Vons shopping center.

Placing more individuals in this small area when there already is a planned shelter less than 150 yards away on the other side of Vons is absurd in addition to the already existing low income and affordable housing units that are located directly across the street.

Literally, I have to walk my kids by drug users who are passed out in the Vons parking lot weekly and this never happened when I moved into this neighborhood 15+ years ago.

We request 2 actions:

Stop the shelters and housing projects.

Increase police presence to address the red light runners and public drug users.

From: Murillo, Felipe
Sent: Monday, October 22, 2018 10:47 AM
To: Cass, Marc
Subject: email comments
Attachments: FW: Mt. Etna & Genesee Ave...; FW: Proposed Project at Genesee Mt Etna site; FW: Crime Lab Affordable Housing; FW: WT-4224097 - Crime Lab Rezoning

Hi Marc,

Attached are emailed comments for the Mt. Etna property.

Felipe Murillo, Housing Program Analyst
Housing and Community Development Services
County of San Diego Health and Human Services Agency
O: (858) 694-4807

From: frances ybarra <mfgab@yahoo.com>
Sent: Friday, October 19, 2018 10:57 AM
To: Cass, Marc
Subject: Mt. Etna Dr. Genessee Ave Project

Our main concern is the crowding and the traffic it will create. The five stories will be right next to an existing neighborhood. These neighbors will loose their privacy. Why?

Traffic will increase on both Genessee and Mt. Etna as well as Balboa. This will not only be dangerous for traffic but for children and the elderly crossing on either major street. There are NO public schools nearby.

Many of us have lived here since the inception of the neighborhood. It is quiet and peaceful and now YOU are going to impose that which is not conducive to the welfare of the community. Instead the property values will decline. Why should we be penalized. We pay our share of taxes.

A concerned resident of the neighborhood.

From: Cass, Marc <Marc.Cass@sdcounty.ca.gov>
Sent: Thursday, October 4, 2018 3:08 PM
To: Kristin Blackson; Marlie Long
Subject: FW: 5255 my etna

Marc Cass, Assoc. DBIA
Environmental Project Manager
CCAEA-Secretary
_____
Dept of General Services, County of San Diego l 858-694-2047 l Marc.Cass@sdcounty.ca.gov
5560 Overland Avenue, Suite 410
San Diego, CA 92123
Please consider the environment before printing this e-mail

-----Original Message-----
From: George Hagood [mailto:georgeh73@icloud.com]
Sent: Tuesday, October 02, 2018 6:39 AM
To: Cass, Marc
Subject: 5255 my etna

Sent from my iPad my name is George Hagood,jr. 4432 mt castle ave 92117 phone
Is 6198044280. Thank you.

From: Marlie Long
Sent: Monday, October 15, 2018 8:35 AM
To: Peter Hansen
Subject: FW: Case No. WT-4224097 Former Crime Lab Project

Another comment letter… please save and add to the matrix.

Marlie Long
Senior Associate
ESA | Southern California Region
550 West C Street, Suite 750
San Diego, CA 92101
619.719.4200 main ext. 3753 | 619.719.4201 fax
619.719.4197 direct

mlong@esassoc.com | www.esassoc.com

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From: Cass, Marc <Marc.Cass@sdcounty.ca.gov>
Sent: Friday, October 12, 2018 9:26 AM
To: Marlie Long <MLong@esassoc.com>; Kristin Blackson <KBlackson@esassoc.com>
Subject: FW: Case No. WT-4224097 Former Crime Lab Project

FYI

Marc Cass, Assoc. DBIA
Environmental Project Manager
CCAEA-Secretary

Dept of General Services, County of San Diego l 858-694-2047 l Marc.Cass@sdcounty.ca.gov
5560 Overland Avenue, Suite 410
San Diego, CA 92123
Please consider the environment before printing this e-mail

From: Rita Florea [mailto:ritamcfree@san.rr.com]
Sent: Thursday, October 11, 2018 8:05 PM
To: Cass, Marc
Subject: Case No. WT-4224097 Former Crime Lab Project

I am opposed to the zoning change for the 5255 Mt. Etna Drive (former Crime Lab) project.

Don't change the zoning from DISCRETIONARY to MINISTERIAL. The Mount Streets of Clairemont are a community. The height and other issues could be changed at the whim of the developers and the community needs to be able to have input. The community west of Genesse Avenue is made up of all single family homes. There isn't a tall building or apartment complex

anywhere in the area. There is an ELEMENTARY SCHOOL at Mt. Etna and Mt. Everest. The SAFETY of these children should be a BIG CONCERN, with the tenants in the proposed complex to be made up of 1) Persons with serious mental illness or substance abuse, 2) HIV/AIDs persons, 3) at risk youth, 4) survivors of domestic abuse. This Mt. Street community is made up of middle class residents who have worked hard to maintain a comfortable and well kept home. The quality of life for these residents would be compromised by adding **over 400 units**. Nothing has been mentioned about green space/recreation for the area. Where are the tenants going to go - into the streets?

The Genesee Avenue businesses, Target, Home Depot and Sprouts, create a huge amount of traffic already. To drive west on Balboa Avenue, from Genesee Ave, to Clairemont Drive at rush hour sometimes takes up to 3 light changes to get through NOW. Balboa is a two lane street, and the stress on it from a multitude of additional automobiles would be horrific.

SUGGESTION: Why not consider the property for HOUSING FOR SENIORS or Memory Care. There are medical facilities right there which would HELP ease the life of the residents.

So, PLEASE DON'T Change the current zoning, or at least, don't make the designation Ministerial.

Rita Florea
3682 Mt. Abbey Ave. - just celebrating 42 years at this address
San Diego, 92111


Virus-free. www.avast.com

From: Marlie Long
Sent: Tuesday, October 9, 2018 10:54 AM
To: Marlie Long
Subject: FW: Case No. WT-4224097 Former Crime Lab Project

From: Sherry Dixon [mailto:smdinsd@gmail.com]
Sent: Monday, October 08, 2018 8:28 PM
To: Cass, Marc
Cc: Sherry Dixon
Subject: Case No. WT-4224097 Former Crime Lab Project

I am opposed to the zoning change for the 5255 Mt Etna Drive (Former Crime Lab) project.

Don't change the zoning from DISCRETIONARY to MINISTERIAL. This will give the community no input or recommendations. The height, and other issues could be changed at the developers whim and the community could be stuck with an eye sore and multitude of problems associated with the tenants, parking and congestion.

The city owns the land and building. The city owns it for the citizens of San Diego. We the citizens want quality of life to be enhanced by new housing and construction. Not a developer out to profit at the expense of the residents. They don't care about the existing people's lives that will be impacted, only their bottom line. Don't let the acuteness of the problems of insufficient housing to prompt hasty action.The city ordinance requires developers of multifamily buildings to set aside 10% of the units, not 50% to 100% for low income/affordable units.
The number of units and lack of reasonable parking is the beginning of a no go for me. The surrounding area has 300 homes in a much larger footprint than the 454 units purposed on a small amount of acreage, less than 4 acres. This will put undue pressure on all utilities and support systems in the area.

PARKING for 454 units at 1/2 space per unit is completely inadequate. With 454 units there could be in influx of 454 to 1800 vehicles. Where are cars going to park that don't fit into the 227 parking spaces allowed? The only option is park on nearby residential streets. This will cause additional traffic and inconvenience to the nearby residents of the SFR community. The additional parking could also go into the commercial properties and negatively affect business. They could also go into the medical buildings parking and affect the patients ability to access the doctors offices. We don't know how many residents will have cars or how many residents would be living in the UNITS. Are the units studio, one bedroom, two bedroom or three??? Number of units do not address the amount people that will be added to area.

TRAFFIC is already a problem at the conner of Mount Etna and Genesse. We experience back up to get out the neighborhood at Mount Etna and Genesse and at Mount Everest and Balboa.
There is an elementary school located at Mount Etna and Mt Everest. Traffic for the school children is already a problem. This will create more chance of injury to our children.
I have seen tensions already at both of these intersections exhibited by drivers and it will only get worse. Frustration of being late to school, work and activities does not lead to a safe driving experience.

SAFETY for the children at the elementary school located at Mount Etna and Mount Everest is an issue. With the designated tenants of building being:

1. Persons with serious mental illness or substance abuse
2. HIV/AIDS persons
3. At risk youth

4. Survivors of domestic abuse

Putting people in a neighborhood so close to an elementary school could have devastating consequences. Picture your 6 year old old coming home from school with a used needle or drugs found on the street. Coming home in tears after being accosted by someone with a mental illness or an abuser looking for the family he or she believes lives in the neighborhood.

Just to mention a few. Who is going to take responsibility for any incidents created by the 50% up to 100% residents in this development? The city? The developer? Or will the general population just have to DEAL with the consequences.

You would not put a cannabis dispensary or a sex offender in close proximity to a school. An Elementary school is approximately 2 tenths of a mile from the proposed development.

PUBLIC SERVICES would need to be increased to protect the area. Fire hazard of a high rise building and the crime that could/would increase would need to be addressed by the city. We already are challenged by an inadequate amount of police officers in San Diego.

GREEN SPACE/RECREATION is not addressed. Where are the tenants going to go, into the streets?

LIBRARY is not adequate to provide for additional patronage. It is barely adequate for the current residents and would highly stressed to provide for additional usage. The library would a highly used resource for the targeted population of the development.

UTILITIES would be stressed with that many units added to the area. Sewer, water supply and electricity must be improved to accommodate additional population.

QUALITY OF LIFE FOR EXISTING RESIDENTS has not been mentioned. After many years of hard work to own in a comfortable middle class neighborhood you are taking away our quality of life by adding so many units. Residents in the area are senior citizens to new borns. Many of the original owners have had their children and now their grandchildren purchase homes in the neighborhood they grew up in. Don't ruin what generations have worked to maintain and improve over the years.

PLEASE DON"T CHANGE THE CURRENT ZONING or at the least don't make the designation ministerial.

SUGGESTIONS ON USEAGE OF THE PROPERTY

Yes, we need to address the issue of lack of affordable housing in San Diego. Not at the expense of the current residents.

How about a **MEMORY CARE** or **HOUSING FOR SENIOR CITIZENS**. Shopping and medical facilities are nearby. This would create less traffic and parking issues. It would not increase the risk of crime significantly.

VETERANS without mental or other issues that put them in "at risk" category.

Build at 45 units per acre, approximately 160-170 units, as zoned and put aside 10% for affordable housing. This would be in keeping with city's plan for new development.

If housing "at risk persons" of any nature it must have on site 24/7 support and security.

WHY DO WE NEED TO HAVE SO MANY UNITS IN THIS DEVELOPMENT?

I understand the city needs 20,000 units of affordable housing. Why are we not addressing the new construction projects to have to set aside a percentage for this purpose.

Projects currently proposed, planned and or approved that were mentioned in an article in SD Union Tribune

date 9-26-2018

NEWLAND SIERRA in North County 1140 SFR and 995 Multifamily none are affordable housing.
3rd and A Street/ CORTEZ HILL 270 apartments. None are mentioned to be affordable units. Also for 270 units there are 280 parking spaces
TOWN & COUNTRY MISSION VALLEY 840 rental unit None mentioned to be affordable units.
PARK & MARKET 426 apartments = ? affordable units

CISTERRA/RITZ CARLTON 7th and Market at total of 218 units and 34 are affordable units.
OLD DOWNTOWN LIBRARY SITE = Mixed use project 392 rental units 30 are subsidized.

Sherry Dixon
4755 Mount Durban Drive
San Diego, CA 92117
858-220-3020

From: Joan Spieker <spkrgal33@sbcglobal.net>
Sent: Thursday, September 20, 2018 1:09 PM
To: Cass, Marc
Subject: Fw: Proposed Project at Mt. Etna and Genessee Ave.r

On Thursday, September 20, 2018 12:59 PM, Joan Spieker <spkrgal33@sbcglobal.net> wrote:

County Supervisors:

I have lived in my home on Mt. Castle Ave. for 62 years. I'm one of the rare original owners and have always loved the convenience of this location. It has been my 'one and only' home, and a place where my children grew up in a safe community environment. If you don't think this massive structure being planned by the County Supervisors will disrupt this tranquil existence, then think again. Not only do you plan a mix of people, good and bad, but apparently the residents of this community get little say in what's being planned, the size of the building, the number of people you plan to house, and the added congestion in our neighborhood.

I, and many of my neighbors, have recently put thousands of dollars into upgrading and remodeling our homes. Some of those same neighbor's houses back right up to the Crime Lab parking lot. You are destroying their hopes and dreams of living in their homes for a long, long time. Who wants to have a high rise directly in back of their homes with people looking directly into their yards and homes. Shame on all of you Supervisors for planning such a project in that location.

Prior to the Crime Lab, we had a hospital on that site. One of my daughter's was born in that hospital. Then came the Crime Lab. Both the hospital and the Crime Lab have been good neighbors. But now, without any concern for out community whatsoever, you are planning to house 550 residents right behind us. You've got to be kidding.

My question to each and every one of you: How many of you have projects such as this in your back yard? How many of you would fight a project such as this one 'tooth and nail' to have it relocated. Clairemont will step up to the plate on this project. I'm 85 years old. I've had a wonderful life in this home in Clairemont. We are lucky enough to have all the conveniences at our fingertip, and can boast that it's the center to every freeway, and valued property because of it's convenience. Please don't ruin that.

Joan Spieker
spkrgal33@sbcglobal.net

P.S. I expect the City Council members to cooperate in advising against this project; also the Clairemont Planning Group and the Clairemont City Council. You politicians need to 'earn your keep'. I would like a reply to this E-mail just to show that someone, or all the County Board, and City Council have read it.

Lisa Maier

From: Marlie Long
Sent: Tuesday, October 9, 2018 5:22 PM
To: Peter Hansen
Subject: FW: Proposed Project at Mt. Etna and Genessee Ave.

Another one ☺

Marlie Long
Senior Associate
ESA | Southern California Region
550 West C Street, Suite 750
San Diego, CA 92101
619.719.4200 main ext. 3753 | 619.719.4201 fax
619.719.4197 direct

mlong@esassoc.com | www.esassoc.com

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From: Cass, Marc <Marc.Cass@sdcounty.ca.gov>
Sent: Tuesday, October 9, 2018 5:16 PM
To: Marlie Long <MLong@esassoc.com>; Kristin Blackson <KBlackson@esassoc.com>
Subject: FW: Proposed Project at Mt. Etna and Genessee Ave.

They keep coming in☺

Marc Cass, Assoc. DBIA
Environmental Project Manager
CCAEA-Secretary

Dept of General Services, County of San Diego | 858-694-2047 | Marc.Cass@sdcounty.ca.gov
5560 Overland Avenue, Suite 410
San Diego, CA 92123
Please consider the environment before printing this e-mail

From: Joan Spieker [mailto:spkrgal33@sbcglobal.net]
Sent: Tuesday, October 09, 2018 3:25 PM
To: Matt Valenti; rwjok@hotline.com; Eddie Bradford; Julian Pena; Richard Jensen; Juliet Hong; Julie Wilds; Quentin C. Yates; Cass, Marc
Cc: Carrie Little; Dorothy Jensen; Marcia Bodnar
Subject: Fw: Proposed Project at Mt. Etna and Genessee Ave.

It would seem that our County Supervisor's have little concern for the people that established this community of Clairemont some 62+ years ago. The Clairemont area is central to every freeway, and is coveted by many as an ideal location for establishing a home and raising a family. I have lived in my 'one and only' home for 62 years, and have loved this area for all of it's conveniences.

Now the County wants to turn the Crime Lab into a low income home for as many as 500 to 800+ individuals. This will be a major impact on the citizens of this community. The county has said they will house low income seniors, veterans, substance abuse (alcohol and drug) and mentally ill individuals. They want to raise the height limit for building the project. I, and most of my close neighbors, are totally against this project.

First off, it will greatly impact the neighbors who live on Mt. Castle Ave. and whose houses abut the parking lot of the Crime Lab. With a higher structure, the residents of that structure will be able to look directly into the backyards and houses of our neighbors. This is totally unacceptable. Our good neighbors have put thousands of dollars into remodeling their homes, and expecting that this will be their home for many years to come. Many of them have young children, and they are expecting, like my husband and I did many years ago, that the neighborhood is safe for playing, and basically a crime free neighborhood.

Now with so many moving into this planned project, some very good people I'm sure, but some we might be dubious about, is causing much anxiety among the residents of Clairemont. When these folks decide they want to take a leisurely stroll where do you think they might want to stroll? Not along busy Genessee Ave. when traffic is racing by every hour of the day, and it's so noisy. They'll want to stroll along our streets that are within close proximity of their establishment, and OUR HOMES. We're not talking about a few people walking out streets, we're talking about possibly in the 100's. I fear there could be an uptick of crime on our streets, which has been almost nil up to this point. And what about the congestion of extra traffic, and parked vehicles on our streets?

I expect each and everyone of you can see the dilemma and frustration that this project is causing to the citizens of Clairemont. I also expect that all of you will fight against this proposal. Politicians should not be able to do anything they want to do without consideration of it's citizens, and on this project the citizens say NO.

Joan Spieker
4334 Mt. Castle Ave.
spkrgal33@sbcglobal.net

From: Jessica Saffell-Bowlin <jsaff003@gmail.com>
Sent: Wednesday, September 26, 2018 11:11 AM
To: Cass, Marc
Subject: Fwd: Morena Corridor Specific Plan: Project #582608 / SHC 20161021

Hi I want to confirm you are receipt of the below email.

Morena Corridor Specific Plan: Project Number: 582608

SCH NO - 2016101021

Dear Mayor and City Representatives,

As citizens, families, and advocates for Clairemont, we strongly oppose the language on p. 327 of the PEIR that does not allow for the character of the community to be preserved. We specifically oppose the language that allows for higher building limits than 30 feet. This has verbally been promised by Lori Zaph and other city officials, but this particular language allows a loophole to change the entire Clairemont Mesa area without the consent of the citizens.

The increased traffic congestion impacts quality of life in the community for residents that already live here and those passing through the major through-fares on Genessee and Balboa. The citizens want to maintain the 30 foot height limit and the character of our neighborhood.

In addition, my neighbors and our household opposes the City's Planning Department "Height Concepts" proposal for rezoning of commercial property of the Home Depot on Balboa Avenue to residential spaces. We are an older neighborhood, and the need to access a major hardware in proximity is a necessity in the neighborhood as something is always in need of replacement. While there is an Ace Hardware in Clairemont Square, the store does not supply the magnitude of the items needed that Home Depot does. The other nearest major hardware stores are in other majorly congested areas in Mira Mesa and Mission Valley. Removal of this store will strongly impact the quality of life for existing residents, not to mention the impact on lost jobs in the community.

For similar reasons, we also oppose the rezoning of commercial space to residential on Clairemont Drive and Balboa Avenue. It is the mayor's priority to handle homeless problems, and removing the Good Will is a job loss to those recovering from homelessness and addiction. In addition, Harvest Market is also located in that shopping Center, and it is one of the only locally owned grocery stores left in the neighborhood. Not only will we be sitting in traffic for the additional proposed homes, the loss of jobs will also impact our residents.

As working parents, any additional time sitting in traffic is time that we cannot spend with our families, I'm sure we can all agree that healthy communities begin with healthy families. The last thing the residents of Clairemont want is another congested Rosecrans and University Town Center area. Please take into consideration the residents of Clairemont and prioritize growth in another area of the city.

Kindest Regards,

Stephen and Jessica Bowlin and residents of Clairemont

4784 Mt Durban drive

From: George Hagood <georgeh73@icloud.com>
Sent: Monday, October 1, 2018 7:51 PM
To: Cass, Marc
Subject: 5255 mt etna

Sent from my iPad since this project will ad to national debt. Dago is 30-40 % on food stamps Medicade is off the charts,22 trillion plus. Un funded liabilities.from ssa.to city retirements. Stop the bleeding , we are truly a joke country. A train wreck in the world.
balance the budget or shut up.

From: George Hagood <georgeh73@icloud.com>
Sent: Monday, October 1, 2018 7:39 PM
To: Cass, Marc
Subject: 5255 mt. Etna. Remodel

Sent from my iPad. To whom it may concern: I have lived one block away from 5255 mt etna for over 40 yrs. I have seen and heard of the give away to the welfare and homeless classes. You have made us a magnet to them ,world wide. Send them back to their home if they can't afford it here. People have been leaving here forever for that reason,or stop the rich foreigners from moving here and buying up the country. I think you just want to waste money and make back room deals with the labor unions.I pray,pray,pray that you could use the old hospital for some medical use. We have epidemics of diabetics, altizers,heart disease ,mental health,stroke, alcohol and drug abuse. Why not use the building for that. Also since you have used all the parking lots for food joints and banks, how about a green space for the kids and people. We would like a dog park p. B. And Ute have them why not Clairemont? We would like to see an assisted living and or a retirement home.
Mental people should be locked up or moved close to your house . Remember Jon David Guerrero, he lived in one of your places downtown. He killed 3 and injured 4 more in 2016. The pollution, noise, and traffic is bad now, we don't need a traffic study.
We want to maintain lower height limit,and our parking in front of Our Houses!
We have sorry to towers on Crowley way, with many vacant, the. Scranton's on mt. Alifan .probably 80% of your ski.Folks are fake , just look at the ads on tv. Some are using many I d 's and collecting many s.s.i. Checks.
Why have a crime lab anyway ,look at the way they treated Rebecca Zahau.
We make money, We Print It. !
We don't want to be a dumping ground for the world, not another L A Please put this in lajolla or Del Mar or Mira Mesa or north county.
Remember a lot of this homeless is a lifestyle choice. They are having fun swapping drugs, and staying high. I saw one guy at intersection of balboa & genesee, I know him He has a great union pension and still works, but he was there telling people to go To the beach and have a good time, he was way intoxicated.
Some people are truly in need and I am all for helping them.
A lot of them are pure lazy scammers , We all know we can not afford the military as is, So maybe use military housing for the low income housing. We have a lot of military housing in dago. They won the war, because you never hear Don't AskDon't Tell Anymore.
One half of border patrol work for the cartels and the cartels control the border.
thank God somebody does it. we got it going on !!!

From: George Hagood <georgeh73@icloud.com>
Sent: Tuesday, October 2, 2018 6:39 AM
To: Cass, Marc
Subject: 5255 my etna

Sent from my iPad my name is George Hagood,jr. 4432 mt castle ave 92117 phone Is 6198044280. Thank you.

From: George Hagood <georgeh73@icloud.com>
Sent: Thursday, October 18, 2018 6:58 PM
To: Cass, Marc
Subject: 5255 my. Etna dr ref.wt4224097

Sent from my iPad we people of the mt. Streets of Clairemont have not had a homeless problem in my 40 + years here. We are maxed out in traffic, and etc. we don't want to be another Los Angeles. We are 100% against this project. I understand contractors And Chelsea investments and county officials stand to lose millions. But this
Would be a disaster for my hood. Crime, parking ,noise,pollution,traffic,it is bad enough now. We could renovate this building and use it to treat our seniors for dementia
and etc. please think of city and county liability for mental renters that hurt and harrasss our citizens. Sincerely George Hagood 4432 mt. Castle ave. 92117
619-804-4280

From: George Hagood <georgeh73@icloud.com>
Sent: Friday, October 19, 2018 7:42 AM
To: Cass, Marc
Subject: 5255mt.etna wt-4224097. Former crime lab

Sent from my iPad please don't destroy our neighborhood!!! Clairemont has more than It's share of hud housing , mt. Alifan , Crowley way and etc. leave this building and Renovate it for our seniors with mental diseases. Thank you George Hagood
4432 my. Castle ave 92117 619-804-4280. I would like to see any records of who was for this project. It is public record .,right ?

From: Mays, Jody
Sent: Tuesday, October 16, 2018 12:32 PM
To: Jackson-Llamas, Angela; Cass, Marc
Subject: Fwd: Mt Etna Complaint

Sent from my iPhone

Begin forwarded message:

> **From:** "Powell, Sabrina" <Sabrina.Powell@sdcounty.ca.gov>
> **Date:** October 16, 2018 at 12:14:13 PM PDT
> **To:** "Medved, Marko" <Marko.Medved@sdcounty.ca.gov>
> **Cc:** "Mays, Jody" <Jody.Mays@sdcounty.ca.gov>, "Alejandre, Nicole" <Nicole.Alejandre@sdcounty.ca.gov>
> **Subject: Mt Etna Complaint**
>
> George Hagood – Georgeh73@icloud.com Mt. Etna – wants to voice his very strong opinion against this project. Wants to use the building for a hospital as it was intended and use it to treat older adults with dementia and Alzheimer's. The high rise will ruin the neighborhood and they don't want that in the area.
> **Thank you,**
> **Sabrina Powell**
> **Administrative Secretary**
> **Dept. of General Services**
> **(858) 694-2338**
>
> ***Safety – Live with it!***

From: George Hagood <georgeh73@icloud.com>
Sent: Friday, October 19, 2018 4:05 PM
To: Cass, Marc
Subject: What are the results of the scoping of wt-4224097, 5255 mt etna dr.

Sent from my iPad hey Marc , when will we be able to see the results on this survey And who voted for it. This is public record right ? George Hagood 4432 mt. Castle ave. 92117 phone 619-804-4280 thanks and have a great weekend

From: Marija Hristova <marijahristova@gmail.com>
Sent: Friday, October 19, 2018 6:11 PM
To: Cass, Marc
Subject: Against crime lab project

Hello Mr. Cass,

This email is regarding the Mt Etna project where the Crime Lab is.

My wife and I are residents of Clairemont. My family and I are absolutely against changing the zoning for this location amd proceeding with this project. Our grandkids go to school at Mt Everest Academy, k-12 school with an open campus right across this location. Also there is another school in its This building will introduce many residents, some of who might jeopardize the children's safety. The parking around the school will be difficult, it already is impacted by the increasing number of students, this will worsen it. Traffic will be increased multiple times and the area will be more prone to accidents, which further jeopardizes the safety of our children. The building will surpass the local height limit. The infrastructure cannt support this change.

I hope all of these reasons and many more will be taken in co consideration to abort this project.

Thank you,
Gjorge Hristov and Trajanka Hristova

From: Gloria Donichy <gdonichy@san.rr.com>
Sent: Friday, October 19, 2018 11:21 AM
To: Cass, Marc
Subject: mt edna project

I am very concerned about this proposal. our traffic is already congested in this area, we have hundreds of children walking to school in this area ,
this is a danger to them , once the height limit is raised on residential
residence's , it is my understanding you are thinking of redoing the home depot shopping center with more high rise residential units included there as well. I would like to see a plan that involves the whole city and neighborhoods so we can see where exactly the other projects are going to
be, you are already planning a new development on Mt Alifan for homeless and seniors less than a mile from this project , we do not want to be a place where we are in danger of not having enough resources to take care of additional crime , traffic , school over crowding,etc, I think the residents of Clairemont should have a voice in what is being planned for their neighbor hood as its using tax payer dollars to pay for this and whatever facility you put here we have to live next door to it.
thank you
Gloria Donichy
Resident in Clairemont

cell 858-603-6463
fax 858-576-9596

From: gblais@san.rr.com
Sent: Thursday, October 18, 2018 2:10 PM
To: Cass, Marc
Subject: LOW INCOME APARTMENTS IN CLAIREMONT

Please we do not want any Low Income high rise in our area. I have been here over 40 years and will move away if this happeneds.
As 2 tax payers I do not want this to happen in my area for many reasons.

Thank you Gloria J. Blais
and Raymond Blais

4361Mt. Everest Blvd.
san diego

From: Gregory Hawkins <gregory.hawkins1@gmail.com>
Sent: Thursday, September 20, 2018 5:04 PM
To: Cass, Marc
Subject: Mt. Etna Crime Lab redevelopment

Mr. Cass,

As a resident of the area (5076 Mt Harris Dr), I would like to express my strong support for this project. San Diego's housing prices are unaffordable; the only solution is more stock. I think the smartest way to add stock is to upzone in current low density areas, Clairemont is a prime spot for more density.

Please feel free to contact me if you need a more balanced view on development. Generally, the majority of people who show up to these community meetings are older and very resistant to change. Unfortunately, people like me who support sustainable development have young children are not always able to make the meetings.

Thank you for you time.

Gregory Hawkins, PE
--
Greg Hawkins

From: Heather Willens <heather.willens@gmail.com>
Sent: Friday, October 19, 2018 11:29 AM
To: Cass, Marc
Subject: Opposition to current plans for the Mount Etna housing project

Dr. Mr. Cass,

As a resident homeowner of Clairemont for nearly 10 years now, I want to voice my opposition to the current plans for the Mt. Etna low income, high density apartment project. I have been closely following this project and I am in shock that the space is trying to rezone to allow for 400 units, when it is current zoned for 124. This area is already highly congested and the current infrastructure does not support this extreme change in residents to an already busy area. The people of Clairemont feel like we are becoming the dumping ground to meet country quota of affordable housing with both the Mt. Etna and Mr. Alifan projects, and it is completely unfair. We urge you to consider the current residents of Clairemont, who chose this area as our homes based on NOT being a traffic, people nightmare.

The current plans does not fit with the rest of the area at 5 stories and 400 units - with the possibility of over 1,000 new residents to the area. With the completely lack of good public transportation, Clairemont is extremely car dependent and this will make the area a traffic jam nightmare. Please PLEASE do not allow for this rezoning, cramming all low income housing into one small area of San Diego. It is unfair to the current residents and a vastly inappropriate choice for such a project. Please be reasonably. Please show that Clairemont residents matter.

Heather Willens

From: Heidi Acosta <hacosta@san.rr.com>
Sent: Thursday, October 18, 2018 7:22 AM
To: Cass, Marc
Subject: Mt Etna project

I am opposed to the project. I am a 20+ year resident of Clairemont. The size of the building and number of people expected to live there is too big. Rezoning the area to meet your needs for housing is not appropriate. Traffic and safety will be unbearable!

Heidi Acosta
4317 Mount Henry Ave

From: Helen Noble <helen.noble14@gmail.com>
Sent: Friday, October 19, 2018 2:02 PM
To: Cass, Marc
Subject: Comments for the EIR, Clairemont Mesa Community Plan Amendment and Rezone, Project WT-4224097

Mr. Cass,

I am very concerned about the Mt Etna Crime Lab project. I expect negative environmental impact regarding:

- Traffic,
- Public safety,
- Noise,
- Utilities,
- Recreation,
- Walkability,
- Air quality (Climate Action Plan),
- Parking,
- Schools,
- Businesses.

1. This is the third affordable housing project within a half mile. That's really a lot for one neighborhood to absorb. Other projects: Stratton (apartment complex, 300+ units, converted to affordable housing by Wakeland) and 5858 Mt Alifan Drive (52 homeless units, in progress). Again, the Mt Etna Crime Lab project is slated to be the LARGEST affordable housing project in the history of San Diego. This could easily be 1600 people. Supervisor Roberts' office says that a 3-bedroom affordable housing unit is designed to house up to eight people.
2. At 404 units, this will be the **largest affordable housing project in the history of San Diego** (eclipsing, by over 30%, the previous largest – Civita, in Mission Valley, where 306 units was a tiny fraction of a 320-acre housing development). Plus, Civita got a much less risky affordable housing population than what Chelsea is proposing for Mt Etna Crime Lab.
3. Lots on Mt Castle Drive (western edge of property, on other side of power lines) may never see anything but late afternoon sunlight again.
4. Extreme density will cause noise problems. There will be insufficient recreation space for the many children. The neighborhood library won't be able to service a doubling of the neighborhood population.
5. A population of addicts, severely mentally ill, recently homeless, and felons will certainly cause safety concerns at Mount Everest Academy, one block away. Holmes Elementary will be unable to handle the influx of students.
6. Addicts increase crime in any neighborhood where they live, especially when there are lots of them. Parents, teachers, and neighborhood residents will worry about needles and drug dealing at Mt Etna Community Park (3 blocks away). People previously inclined to walk will be pushed back into their cars, out of safety concerns.

7. Water, sewer, gas, and electric lines were installed in the 1950s. They were designed for a neighborhood of single family homes. It doesn't make sense that Chelsea could double the number of neighborhood residents (no infrastructure improvements) without adversely affecting qualify or reliability of service.
8. 465 parking spaces for 404 units (some 2- and 3-bedroom, low income families as population) won't be nearly enough.

Air quality (Climate Action Plan) concerns call for more walkability and getting people to work/shop/dine near where they live. However, the proposed sandiego.gov Clairemont Community Plan

https://docs.wixstatic.com/ugd/a513cc_b532ee32a1544ae8b9d2a923c820a74a.pdf

seems to replace our neighborhood shops (e.g. Home Depot and Target) and restaurants (e.g. Panera and Five Guys) with yet more high-rise, high-density housing. Children appear in the concept drawings. Surely, they and their parents won't travel, everywhere they go, on the #41 MTS bus (rated "Fair/Poor" on page 20 of the February 2018 Affordable Housing Phase II Feasibility Analysis). It seems as if the City wants to re-purpose every single parking lot in Clairemont for (probably affordable) housing.

Page 6 from another version of the new, proposed Clairemont Community Plan

https://docs.wixstatic.com/ugd/a513cc_30e262f6823f46d8a1452120b1e31d9e.pdf

shows Transportation Priority Area designation for much of Clairemont, which means developers can avoid providing adequate parking. I'll focus specifically on the Mt. Etna Crime Lab development since that's the EIR topic. We know that people won't really give up their cars. So, where will people park? This is a rhetorical question. The obvious answer: in business parking lots (so no parking for customers), in school parking lots (like Mt Everest Academy, one block away), and in single-family-home residential areas (many square blocks, every space taken).

Please consider the City of San Diego Sewer Design Guide published by the Public Utilities Department.

https://www.sandiego.gov/sites/default/files/legacy/mwwd/pdf/sewerdesign.pdf

On page 1, it discusses what's required for large scale projects like the Mt Etna Crime Lab site. Keep in mind that this project will double the neighborhood population. Notice the word, "shall" (i.e. strong assertion), in the Guide's text. "Project applicants shall contact the Public Utilities Department Senior Civil Engineer when the wastewater flow estimates of individual areas planned for development generate more than 5 percent of the wastewater stream at the point of connection with the City's list of critical sewers. The intent of this requirement is to ensure that flows from new projects will not adversely affect the downstream conveyance systems operated by the City and to ensure that previous studies have accounted for those flows in the design of the City's downstream conveyance systems." Will the EIR provide detailed sewer diagrams and proof that all (not just neighborhood) "downstream conveyance systems" won't be impacted.

Helen Noble

From: holly churchill <hrc@sdchurchills.com>
Sent: Friday, October 19, 2018 11:47 AM
To: Cass, Marc
Cc: Garett Churchill
Subject: Mt. Etna project

Hi Mr. Cass,

Just a quick email to add to your massive collection today. Like others, I did not hear about the Scoping meeting, but I happened to be at Marston for a parent meeting that night , so I stopped in. I listened to the presentation and the speeches and have followed the issues online. Like everyone else we know, we are against the project.

As 20 year residents of Clairemont/ Bay Ho, my husband do not support this project at all. Low income housing might be good in some areas, but perhaps in a rural area where the community and ample land supports it. That location is not Clairemont. We have kids that attend area schools and am most concerned about those at Holmes, High Tech; and Mt. Everest Academy and John Muir schools on Mt. Etna. Parents won't want their kids to walk to school, walk to Starbucks , Panera, Target, Circle K, or other businesses as they currently do at lunch and after school... if the area becomes less safe. We feel that this project will bring in an element that is at-risk and unsafe.

I am not criticizing people in poverty or with mental illness. 51% of the residents of San Diego (and especially Clairemont) have modest/low incomes-- and many live in Clairemont houses that are paid off--otherwise they would likely be homeless too. And one out of four people in this world have mental illness. We all are---or at least have family members that are-- affected by poverty and/or mental illness. However, we are concerned about the visitors that may come to visit residents of this project. Those who are mentally or economically challenged may be really

good people. But we don't have assurance that their friends are, as well. It's not necessarily the homeless resident, but the resident's cousin or friend who might crash there, inviting in drugs, violence, or other crimes into the area. I say 'may' but those we know believe that crime will most assuredly increase, if this project goes through.

Traffic, congestion, and tall buildings are of concern, but to parents like us, it's the safety that is paramount for our children. With increased crime because of this project, those who moved to the Mt. streets because it's safe---will likely move out of the area. Parents move to neighborhoods based on safety, and the quality of the neighborhood school. I think parents may move to other areas outside of San Diego, and even out of the county. For example, at one point, we moved to Phoenix area because of the lower housing costs, but we picked a city where we knew to be safe. If residents move, would the SD County really want that loss of Property Tax income?

I do support a much smaller project, perhaps located in the outskirts of Mira Mesa, El Cajon, Chula Vista, or other outlying areas. The project is too huge and won't fit in Clairemont, and it's not right for this community. Perhaps a community center with a pool would be nice, or some other venue that the residents could enjoy. If a high rise is necessary, at least keep it with low density and capitalize on the nice view it might provide. But please stop this project-- no one wants it.

Best,

Holly and Garett Churchill

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From: Holly Van Valkenberg <hollyvv@hotmail.com>
Sent: Friday, October 19, 2018 2:12 PM
To: Cass, Marc
Subject: Mt. Etna housing development

Mr. Cass,

Please add my voice to the chorus of voices expressing opposition to the high-density apartment building planned near the corner of Mt. Etna and Genesee Ave. in Clairemont. While I agree that all neighborhoods must do their part to help with the housing crisis in San Diego, I'm very disturbed to see that so many developers building in higher income areas—Downtown, Point Loma, Mission Valley, La Jolla, etc.--pay the in lieu fee and bypass the addition of affordable housing to their multi-million dollar developments. A middle to lower middle class area like Clairemont then becomes the recipient of a grossly over-sized project completely out of keeping with the character of the neighborhood.

100-120 units of affordable housing built within the existing 30 foot height restriction would be much more acceptable to the many residents of the area who are afraid (legitimately) of increased traffic, strain on aging roads and infrastructure, overcrowding of schools, and loss of home value.

I urge you to take a short walk down Mt. Etna on a weekday afternoon, starting at Mt. Everest Academy and ending across Genesee at Home Depot. You will find that the neighborhood street of Mt. Etna is already terribly impacted by through traffic avoiding the congested Balboa/Genesee intersection, and is not at all pedestrian-friendly. There's a reason Mt. Etna, Mt. Castle, Mt. Casas and Mt. Durban have had speed bumps for many years now.

I've seen reference to this project being situated on the Balboa/Genesee intersection. This is false. Mt. Etna is NOT located at Balboa/Genesee, nor is it easily walkable or near a public transit corridor. To classify the crime lab project as Transit Oriented Development is stretching the definition of TOD beyond a reasonable interpretation. The closest (future) trolley station is inaccessible by foot and is a treacherous 40 minute bicycle ride along crowded and hilly Balboa Ave. The reality is 10-20 minutes by car or bus. How can that possibly fall under the umbrella of TOD?

Please take the very valid concerns of so many Clairemont residents into account. The crime lab project is far too large for the single-family home neighborhood for which it is planned.

Thank you for your time,

Holly Van Valkenberg

Clairemont/Bay Park resident for over 40 years

Sent from Outlook

From: Jacki Cullen <jaccul@san.rr.com>
Sent: Thursday, October 18, 2018 7:25 PM
To: Cass, Marc
Subject: Mt. Etna

October 15, 2018

San Diego City Council

Community Council, Clairemont area

Regarding the proposed MT. ETNA facility

To Whom it May Concern:

This letter is in reference to the proposed development on Mt. Etna in the Clairemont area.

I am the second of three generations of homeowners in this area. My children have gone to Anderson Elementry on Mt. Etna, and my grandchildren are at Holmes elementary. My children and grandchildren have played and coached at the Mt. Etna baseball field. Our family's pay taxes and vote.

The proposal to build a low income (substance abuse, homeless) housing development in this neighborhood is abhorrent. These are issues that must be considered:

1. There are two elementary schools within 2 blocks of this proposed development. The Mt. Etna little league field and park are within 1 1/2 blocks of this development. Our children should not be exposed to people who are substance abusers.
2. People in this neighborhood have worked very hard for the privilege of living here. Now you are proposing using our tax dollars to allow those who don't work to live here for free.
3. It is proposed to build a 60 plus foot building, although the building codes in the area allow for a 30 food height limit. What precedent does that set for future building? How can building codes be ignored?
4. The infrastructure will not sustaine that many additional people. Traffic, shopping and working will become ever more congested.
5. The past 5-10 years we have been in drought conditions. We were told to save water, which we did, only to have our water be charged at a higher rate. Where is the water coming from for these additional people.
6. Crime will increase, including robbery, murder, and rape. That is not acceptable.

7. Already with only the proposal of this facility, property values have plumited.
8. This area does not need fixing. It is perfect as it is. We do not need more density, there are apartments available. People walk and ride their bikes everywhere. Our businesses are extremely busy, and don't require more patrons to make them successful. (See Home Depot)
9. It is not broken, please do not try to fix it.

This family neighborhood is not the place for a high density development of any kind, especially for housing the homeless and people who are substance abusers.

Sent from my iPad

From: Jackie Cullen <jacknkyle@yahoo.com>
Sent: Friday, October 19, 2018 4:10 PM
To: Cass, Marc
Subject: Clairemont Residential Cluster

Dear Mr. Cass,

My name is Jacqueline Cullen, my husband Kyle and I were both born and raised in Clairemont. We purchased our first home in Clairemont in 1999 and reside in a home on the same street that Kyle grew up on. Now neighbors look on fondly as we raise our own children in the very same neighborhood. Our neighborhood is largely made up of people who have lived there since the 70's. These same people, who have contributed to making Clairemont such an amazing place to live, are now distraught over this unfathomable Mt. Etna project, as are the "newcomers" who have only lived there half as long.

We grew up by the rule of the street light. Once it goes on, you get yourself home ASAP. Sadly the conditions of the world are hindering that classic rule. The implementation of the Mt. Etna project would completely obliterate it. We have 3 schools, a community park, baseball fields and a brand new beautiful joint use field within two blocks of the proposed site, all teeming with children. How does this project create a safe environment for them? How could any of us allow our children to "go out and play"? Our innocent kids deserve a childhood that is not riddled with unfavorable neighborhood conditions.

Our neighborhood infrastructure cannot support the addition of these residents and the copious amount of traffic. Not to mention the zoning laws and height restrictions that they are conveniently trying to circumvent.

I agree that the people this is intended to help should get some degree of assistance. However, the people who are trying to slip plan this by the residents of Clairemont, who undoubtedly live far, far away from us, need to look for a location that makes since for all involved. I am a nurse and in my line of work we "do the most good for the most people". I implore "The Powers That Be" to do the same thing.

Sincerely,
Jacqueline, Kyle, Alexandra (11) & Tyler (7) Cullen

Sent from my iPhone

From: Jamie Ravenscroft III <jraventraining@gmail.com>
Sent: Thursday, October 18, 2018 2:57 PM
To: Cass, Marc
Subject: Mt Etna/ genessee Opposition

Hello Marc,
I live in the Clairemont area at a House we own. I am not fond of the idea of so many new units being built in this area.
There is not infrastructure to support this many additional people in this area.

There is not enough parking, even if there was parking available there would most likely be an influx of break ins. I live near Balboa arms, the cars parked on the street there are vandalized and broken into regularly.

I understand the need of low income housing. There is plenty of space in East County. The Clairemont neighborhood already has low income housing available. Perhaps Del Mar or La Jolla could help out with the housing crisis for once.

-James Ravenscroft
Southampton St
92117

From: James Erck <james.erck@gmail.com>
Sent: Tuesday, October 16, 2018 2:17 PM
To: Cass, Marc
Subject: CPA/EIR Inquires: Mt. Etna / Crime Lab

Dear Mr. Cass,

I attended the EIR Scoping Input meeting last night. I opted to reach out via email rather than speak at the meeting itself, I felt this format lends itself better to fully articulate my concerns and frustrations than attempting to summarize my thoughts in 3 minutes and have my thoughts reduced to a few bullet points by the minutes recorder. I appreciate your time to read through my points below, which are formatted to address the EIR concerns requested.

=== OUR BACKGROUND ===
My wife, Kate, and myself live north of the proposed site a few blocks on Mount Herbert Ave with our 1 year old son. We recently purchased our house in April. During the house hunting process, we looked at a number of other communities and ultimately decided to pay more money to buy a smaller, older house in west Clairemont because we love the residential neighborhood and the exceptional schools (specifically Holmes Elementary). We could have bought "more house" for less money in other neighborhoods, but we wanted to raise our son and future children in a less densely populated, residential neighborhood.

The proposed Mt. Etna Affordable Homes project now severely undermines the neighborhood vibe, and destroys what we've work so hard to give to our children.

You're building a massive ***urban complex*** in a ***suburban neighborhood***. They don't mesh and the proposed complex is too large and not properly planned — it will be a huge burden to our community.

=== ENVIRONMENTAL IMPACT REPORT ===
The EIR has a list of environmental factors that can be a "potentially significant impact". Unfortunately, the currently propose project checks quite a few these boxes:

• **Aesthetics** - the proposed building doesn't adhere to the current community guidelines and requires rezoning to make it work. The site must be rezoned from commercial to high-density residential, and the "density bonus" added on top of the adjusted high-density definition pushes the resulting unit per acre to nearly 3x the current limit. In addition, the height restriction of 30 feet or 3 stories also needs to be circumvented. The end result is an ultra-massive complex that dominates and towers over the surrounding area. Literally the definition of an eyesore, which the community plan is aimed at preventing.

• **Land Use/Planning** - the proposed building would reclaim commercial real estate and convert it to a high-density residential complex. West Clairemont is in need non-shopping center commercial real estate to entice entrepreneurs to build restaurants and other community enhancing initiatives. Most of the restaurants are currently fast food options, which fit well in shopping centers. However, this type of setting is not ideal for sit-down restaurants, so the Clairemont Community is losing out on a valuable parcel of land.

• **Transportation/Traffic** - the proposed building will house over 450 units, many of which are multi-room units. Most households having one or more cars/vehicles, equals the potential for thousands of vehicles coming

and going from the complex. A bulk of this traffic will congest Genesee and Balboa, while a large percent will most likely opt to cut through the neighborhood streets, which aren't designed to handle this type of traffic load.

• **Agriculture and Forestry** - the community of Clairemont is already a green-zone deficient community. As it stands, there are only a few parks and green spaces to be enjoyed by a large number of people. Building a high-density residential complex, and then bumping the density up further via the "density bonus", ensures the small Mt. Etna park will be flooded with more traffic than can be handled.

• **Public Services** - the community of Clairemont does not currently have the services necessary to cope with a large influx of low-income, high-need individuals and families. The nearest hospitals are located a 10-15 minute drive with light to no traffic. Getting here via public transportation over 40 minutes. Additionally, support services aimed at the target population don't exist in Clairemont, since this community currently doesn't house an large community of the target population. Additionally, the local schools do not have the capacity to accept a massive influx of new students, thereby severely degrading the current environment.

• **Air Quality** - the addition of a high-density complex, only means more cars and additional public transportation. More cars and additional public transportation, equals more air pollution and a reduction in air quality.

• **Water Quality** - the addition of a high-density complex to a single-family, residential community means the water and sanitation systems will be taxed. San Diego's water quality is sub-par to begin with, so pumping a bunch more consumers of water and contributors of waste water will materially degrade water quality.

• **Noise** - the addition of a high-density complex to a quiet, residential areas will certainly come with more noise and more disruptive environment, with more traffic, more people, in a small area.

• **Recreation** - the community of west Clairemont only has a single, small park (Mt. Etna Park). Adding a high-density complex with little to no outdoor recreational areas, ensures that the bulk of the residents will ultimately overcrowd and overtax the small park.

• **Utilities/Service Systems** - adding a high-density complex, which has a resident count roughly equal to 4-5 city blocks, into a small, single-family residential area will certainly tax the existing utility systems.

=== PROJECT ALTERNATIVES ===

11 sites were originally proposed, two sites were chosen. A 454 unit complex in Clairemont and 185 unit complex Downtown, which means Clairemont is taking over 70% of the unit load. The load in Clairemont is so large, rezoning needs to happen to even make it legally feasible. Instead of dumping 454 units in a community not designed to handle this load, I proposed smaller developments across all 11 sites. If the complex size is reduced, there may be a larger number of sites (potentially more than 11) that might now fit the development profile and better service the target population.

A city-wide and county-wide housing issue, is being thrown on the lap of a single community. The responsibility is everyone's and the burden of helping these individuals is everyone's. One community cannot take the bulk of the load. This model also doesn't adhere to "integrated populations", as the high-density complex would dominant the neighborhood.

Alternatively, the $25 million dollar fund could be used to procure existing housing infrastructure at a fraction of the cost of new development.

Alternatively, the $25 million dollar fund could be used to further subsidize rents at existing housing developments to convert “market rate” rental units in areas better suited to handle low-income families and seniors.

=== SIGNIFICANT ENVIRONMENTAL ISSUES ===
All environment factors listed under EIR section have the potential to be significant environment issues. Specifically:

- Schools
- Traffic
- Emergency services
- Crime

=== MITIGATION MEASURES ===
Unfortunately, there aren’t many mitigation measures that don’t require extensive infrastructure changes, which materially alter the entire community and neighborhood. The only option is to reduce the size and scope of the complex to better fit in the existing community, or relocate the project to a better suited location.

=== FINAL THOUGHTS ===
No surprise, of all speakers at the meeting last night, *not a single one was in favor of the current project*. I think the most memorable moment from the meeting last night is when a community member asked the council members to raise their hands if they had kids (I believe virtually all raised their hands). He then asked the council members to raise their hands if they would like the proposed housing development to be built near their homes — or course not a single member raised his or her hand. To push and bully this project through in its current state is truly and utterly disrespectful and distasteful. You and each of your council members knows that this project is too large for such a small community to burden. Even a professional developer has mentioned to you that the project is "more intense than what appears to be a fit for this site”. Please have empathy for our family and our community.

This project needs significant changes and reevaluation. Reducing the size and scope of the project to fit within the site and community is a necessary prerequisite for community support. Additionally, the burden of supporting an at risk population is the entire city and county’s responsibility. ***As such, the burden and development of affordable housing should be distributed equally throughout the county.***

Thank you Marc for your consideration and incorporation of my concerns and recommendations as resident of the Clairemont Community.

Sincerely,
James Van Erck
4535 Mount Herbert Ave
(612) 986-6874

From: Jamie Heusser <jamie.heusser@yahoo.com>
Sent: Thursday, October 18, 2018 12:59 PM
To: Cass, Marc
Subject: Move Mount Etna Project to another location

Dear Marc,

I am a mom of 4 kids. I have lived next to all types of people. I have lived right next door to a recovering house, senior citizens, prostitutes, and healthy families. I have observed the Clairemont Community for the past several years. Building this new project is too big for a small area. Adding a possible 1,000 new residents to the corner of Mt. Etna and GenesseE neighborhood is not only hard on the neighborhood, but also the new residents. I can see, adding a Senior citizen community and putting in about 100 new units. Adding over 400 is adding an abundance. Many of these individuals should have space, to live and to grow. If they are coming off drugs and abusive relationships, shouldn't they be living in a smaller community to receive healthier resources? There is plenty of space in Point Loma, Lakeside, Santee, El Cajon. Nice, growing communities where families and kids can grow. The neighborhood schools are not built to accompany this many new families. Adding more people to a community all at once can create trauma. Would you want this project in your neighborhood, be honest with yourself. NO. What makes sense is to add small and separate buildings to the communities. The amount of traffic, the amount of people, the amount of cars, when they are already thinking of building up the Target Shopping Center. I am all for change but thinking on a rational level this large project is not good for both sides of the fight. This project IS NOT HUMANE.

IS there going to be security for all residents, how are Senior Citizens going to feel about young growing families, and individuals coming off drugs. Have you thought about the homelessness already in the community and how it might bring in more activity. There are 3 major schools in the neighborhood and many of the residents want to be able to ride bikes, walk, drive, and feel safe all hours of the day and night. This project should be moved to another location. Move this project to another location. San Diego is a growing city with all kinds of people and I know for a FACT that Clairemont, La Jolla, PB, UC, and anywhere near Balboa Park is already busting at the seems. Point Loma has space. Going EAST and NORTH makes more sense.

Please think about all the people being affected. It's not just about Clairemont and the angry neighborhood residents, but think about the people moving in and the impact it will have on them as well. You're putting, Tigers, Birds, Flamingoes, and Lions in a cage and expecting them to live with each other.

This is something the people should VOTE on. We have a right to be heard and let the VOTES be the decision. Not the money.

Sincerely,
Jamie Heusser

From: B. Jan (Montana) <bjanmontana@gmail.com>
Sent: Friday, October 19, 2018 9:11 AM
To: Cass, Marc
Subject: Mt. Etna Tower

The proposed low income building at this site will ruin Clairemont.
Why not build it in a distressed area that needs the development?
That would be more expeditious to the city treasury as well.

Jan Montana
4856 Mt. Frissell
92117

From: Jane <contactbeckykim@gmail.com>
Sent: Friday, October 19, 2018 10:54 AM
To: Cass, Marc
Subject: Proposed project on Mt. Etna

Dear Mr. Cass,

My name is Jane Scanlon and I live on Mt. Jeffers which is near the Affordable Housing Project proposed for the Old Sheriff's Crime Lab. I would like to voice my STRONG OPPOSITION to the size and scope of this project.

I attended the meeting Monday night at Marston Middle School because I was very interested in the plans for this site. We are all aware of the need for affordable housing in our area and I am in full support of being part of a new housing development to assist in this need. My shock was the size and impact of the proposed project.

Parking: You want to propose a building with over 400 units with no parking. I am curious where the caseworkers and others will park during the day to provide assistance to those in need at this proposed project? There is a Home Depot across the street. Please look at the City of San Diego information about Mt. Etna and Genesse to find out how many people get hit while crossing this intersection When I look at your lovely campus in Kearny Mesa I can't help but notice the large parking structure built so no one would park on the street, yet you would put this proposal to us leaving out a very vital part of living in a community. The city of San Diego does have a regulation in regards to multiple dwelling units and parking.

Access to Property: You want to propose a building with over 400 units and only one driveway for everyone to come and go from the property. There is currently a medical building on the corner and it is difficult to get out of the parking lot because of the traffic and you cannot see when exiting the parking lot due to so many cars parked up on the street.

Schools: There are some fantastic schools in Clairemont in which my own children attended which are currently at max capacity for their size. Would you propose to bus the children living in this Proposed Development to other schools when the whole idea of this was to form a community? We have four large schools in a very close proximity to this proposal and the traffic in the morning is already very difficult to negotiate. Sometimes it takes longer to get out of the neighborhood than the whole trip itself.

Traffic: Currently the traffic is already difficult to navigate. When the 805 or 5 are backed up there is heavy traffic on both Balboa and Genesse as people are trying to get off the highways and use the side streets. I use the back roads myself to avoid the main roads. Also, the lights don't line up so you can only go one block at a time before the light changes.

Changing the Clairemont Charter: I find it interesting that this proposal all rests on the changing of the Charter. The height limitations and density are in place to prevent large apartments from lining the streets. If it is changes for this site, it's over. Clairemont is a very central location in San Diego and access to many highways are within a few miles. The reason I moved to Clairemont was that it was already built and no one could come in and build an apartment near my house. We are in the flight pattern of Montgomery field and a plane did crash in Clairemont a few years ago.

Mr. Cass, one of the comments made at Monday nights meeting hit a cord in me. It was a younger man who spoke about moving to San Diego from LA and said he would move out of our neighborhood if this proposal went through. It's been great to see the families move into our neighborhood and start to revitalize our community. This community has been restarted with the efforts of the younger generation and I would hate to lose this part because they don't feel safe to walk in their neighborhood. The size of this proposal is very scary.

I will be attending any future meetings and look forward to a different proposal offered, with parking and input from residents.

Respectfully,

Jane Scanlon

From: jingersoll@san.rr.com
Sent: Thursday, October 18, 2018 5:31 PM
To: Cass, Marc
Subject: Mt. Etna crime lab project

There appears to be a bit of confusion. The county says it wants input to this project but it doesn't pay attention to the input it's received. Scoping meetings are not well publicized.

At the September 25th meeting it was stated 4 developers had been sent RFPs. At least one developer said the project appeared to be more "intense than would fit in at the site." At the October 15th meeting, the developer had been chosen. Oddly enough it was the developer who had maxed out the number of units. However all projects shown were nowhere near the density proposed for the Mt. Etna site.

The February feasibility analysis indicates:
An exception to this overlay can be applied for as long as the new structure is compatible with surrounding one, two, or three-story structures.

The analysis included the hypothetical residential program that assumes the maximum of 116 rental units.

A lower-density for sale prototype assumed 15 units / acre for attached townhomes.

Yet the developer chosen has plans for 452 units? An analysis is done for 116 or 61 units and a plan for 452 is conceived?

The mixed income rental prototype with 116 units was deemed NOT FEASIBLE unless demolition costs were underwritten by the county and additional subsidy.

The analysis deemed that transit was fair/poor. However this is a high priority project for the county due to public transportation. Transportation that is fair / poor makes it a high priority?

The county doesn't seem to take into consideration the surrounding area. There is a homeless project less than 1 mile away. There are senior citizen communities within 2-3 miles. There is low-income housing within a mile.

The county interprets the community opposition as NIMBYs. However the community response is due to the fact that we are already accommodating this. The accommodations need to be spread throughout the county. The accommodations should not be concentrated in one area. Nearby residents live in the city, not on county property. The county appears to not want this in its own backyard.

The proposed density is way too high for an area that is already heavily congested. Traffic is a problem now, without additional residential properties.

MTS has approved that underused parking lots could be turned into housing developments.

Alternate sites need to be considered before this project. The Mt. Etna site should be developed as commercial with businesses that will enhance the neighborhood. It should not contain a high density residential project that contradicts the current character of the community.

The county is receiving input. It's just not listening.

From: jingersoll@san.rr.com
Sent: Sunday, October 14, 2018 12:42 PM
To: Cass, Marc
Subject: Concerns about the Mt. Etna Crime lab proposal

Hi Marc,

As I understand it we can send input to you for the next scoping meeting for this project.

San Diego cannot accommodate all of the people who would like to live here. Housing in San Diego has never been affordable. If housing is affordable San Diego will be more crowded than Los Angeles.

Changing the review process for this project from discretionary to ministerial is of particular concern as it allows for decisions to be made without public input.

There is a high pressure gas line bordering the property. Is SDG&E willing to be liable the way PG&E was liable in San Bruno?

There is a homeless housing project going up less than a mile away. Projects should not be concentrated in a geographical area. MTS has approved a plan where underused parking lots can be used for housing. Those areas should be utilized before zoning is changed in another location.

The change of zoning from Commercial to High Residential is with complete disregard for the current residents. Current residents did not buy houses near a high residential zone. Current residents did not want a high density neighborhood. Developers have said the proposed density "appears to be more intense than what is fit for this site." How can the city council ignore these comments?

This area was previously a hospital. That would be more beneficial than additional housing. Keep the area commercial and let the neighborhood be improved.

The county will not subsidize infrastructure improvements to accommodate the project. The current traffic pattern does not allow for an influx of the proposed number of residents. Currently Balboa and Genesee is backed up and traffic cuts down Mt. Etna and other streets. A February feasibility analysis stated that transit in this area is fair / poor.

How can the city and county continue to ignore these inputs?

Regards,
Janet Ingersoll

From: Janet H-K <janet.hoff@gmail.com>
Sent: Friday, October 19, 2018 5:13 PM
To: Cass, Marc
Subject: Opposed to Mt Etna 454-Unit Proposal

Hello Mr. Cass,

I am a Clairemont homeowner and lifelong Clairemont native/resident who strongly opposes a 454-unit and multi-story residential apartment facility, currently being proposed for the Mt Etna Crime Lab parcel, without actual and preliminary action to ensure an appropriate number of reserved parking spaces to accommodate such a high influx of cars, as well as actual and preliminary action to address infrastructure overload (especially traffic studies and alleviation measures) to support such a large influx of people and vehicles.

Please do not act so unethically as to remove the community's voice, a dedicated Clairemont population that has to inherit the problems and impacts of such a large-scale project. We may not be as wealthy as La Jolla or our basically absent councilmember's neighborhood of Mira Mesa etc, but Clairemont by large, and this household, strongly oppose the county's intention of disregarding and setting aside laws in place to protect citizens' rights, to essentially remove such citizen rights as it finds convenient for its own illegal and unethical purposes. It is obvious to us that this ministerial re-categorization that we hear is about to occur, is to take on brazen rezoning powers where the county is not otherwise allowed to do, and is against the will of the people who actually live and work here. The CCPG exists to protect Clairemont residents and must be a part of the dialogue for the rezoning of this property at Mt Etna Drive going forward.

Do the right thing and listen to the many voices of concern being sent your way. Keep this project as discretionary and not ministerial so we can all remain invested in the changes coming our way with this pending redevelopment plan.

Thank you,
Janet Kneier
4833 Mount Hay Drive

Sent from my iPhone

From: Janette Gradyan <jgradyan@gmail.com>
Sent: Thursday, October 18, 2018 1:01 PM
To: Cass, Marc
Subject: Mt. Etna Proposed Project.

Mr. Cass,

I want my voice heard regarding the proposed Mt. Etna housing project.

I strongly object to the current plan and oppose the change to the current zoning regulations. Clairemont is a wonderful community of loving residents and involved neighbors. I've lived in the Mount Streets near Holmes Elementary for almost 20 years and we are proud homeowners. We added a 2nd story and remodeled as we hope to live here and raise our family forever. We wish to keep our home value strong and crime rates from rising.

While I understand housing is a crises in San Diego, the current proposal for this project is ridiculous. The density planned and the lack of infrastructure upgrades to the area will create further traffic problems than we've already been experiencing. If you've ever driven down Balboa or Genessee at rush hour, you would completely understand why so many residents are seriously concerned about adding 400+ units to the area. Plumbing and electrical services to the area are 50+ years old. Public transportation routes in the area have been rated poor by recent studies. Crime rates are rising with homelessness and the current proposed population will only make matters worse. Low income families will not be able to afford to buy a $10 burger from Five Guys or a $12 meal from one of the other local food restaurants recently placed here. A senior population and senior center sound wonderful, but I feel you are putting those seniors in danger housing them with mentally disabled and seriously low income residents. With no onsite support services to maintain the welfare of these people, you will encounter the same issues that have risen at places such as our own Stratton Apartments.

There are currently already 3 Senior and Low Income housing developments within a 3 mile radius of this newly proposed project. I feel Clairemont has already done its fair share and ask you to either seriously reduce the planned density of this project or house it out of Clairemont all together. MTS recently offered up its unused parking lots for affordable and low income housing. This option seems the best answer as transit will be readily available for those in need. Other areas South of downtown on trolley lines or closer to areas that actually serve the workforce seem more feasible. You need to make this project work, should you wish to create additional similar projects throughout San Diego or you will face opposition where ever you chose to develop.

Please reconsider this proposal or you will face very strong opposition from Clairemont. We may not have had very good representation up to this point, but that will change come November. Rest assured, our voices will be heard.

Sincerely,

Janette Gradyan
Mt. Blackburn Avenue Resident
San Diego, CA 92111

Janette Gradyan
Cell 858/692-2299

From: Janice Lukasky <lukaskyj@yahoo.com>
Sent: Thursday, October 18, 2018 4:14 PM
To: Cass, Marc
Subject: MT Etna

Sent from my iPad. A community park, a modern library, something to enhance Clairemont! Housing density is maxed out! Balboa/Genesee is gridlocked! Parking around the Stratton for the homeowners is a nightmare, a mere block from the proposed project. The ill considered Mt Alifan project is going to bring another poorly managed property to this saturated area. This project is only to make money for the political donors devoid of any enhancement to Clairemont.

From: Jasen Miner <jkminer@att.net>
Sent: Thursday, October 18, 2018 10:40 PM
To: Cass, Marc
Subject: Clairemont Mt. Etna housing opposition

Mr. Cass,
My husband and I both grew up in Clairemont and now own a home and are raising our family here in Clairemont. We are strongly opposed to the Mt. Etna housing project. We already have low income housing within a 1/2 mile of that location. The proposed project allows for way too many units and too many potential residents in a small, already congested area. The proposed 5 story building would be an eye sore for the community. Clairemont has always been a wonderful community and we have worked very hard to become a desired area. We are a community of wonderful and hard working families and this proposed housing will not contribute in a positive way.

To be clear, we are extremely opposed to the re-zoning of the area and the building of low income housing. Our investment in our home and our community is of the upmost importance to us and our family, and we do not want our quality of life diminished because of a project like this.

Jasen & Kristen Miner
Clairemont residents

Sent from my iPad

From: Jeanne Miscikowski <jmiscikowski@gmail.com>
Sent: Friday, October 19, 2018 4:35 PM
To: Cass, Marc
Subject: Mt. Etna project

I have been attending Clairemont Community Planning meetings- and am familiar with the concerns about the current developing plans- 1-only one egress 2-insuffient parking and traffic plan for such a large density project.
3- close to schools- safety concerns for close proximity to 50% drug/mentally challenged populations
4- double the population of the local neighbourhood without addressing water-sewer-& electrical grid issues.
5-Overdevelopment without compensating amenities to the area.
The community knows that low-income housing is sorely needed- Alternative sites need to be considered- or the scope of this project must be vastly reduced to fit in with the neighbourhood .
Sincerely- Jeanne Miscikowski

From: Jen Boynton <jlboynton@gmail.com>
Sent: Thursday, October 18, 2018 1:43 PM
To: Cass, Marc
Subject: letter of support for low income housing at Mt. Etna and Genesee
Attachments: 44330738_10156908704161349_4807771826908299264_n.jpg

Hi Marc -

I'm a Clairemont resident and I wanted to write and support the project at Mt. Etna and Genesee and any efforts to increase housing density and affordable housing in Clairemont.

We have some NIMBYers in our neighborhood but I'm a proud YIMBYer! We need increased housing density for the good of the city and the planet.

Thanks for your good work on behalf of our community!

Jen Boynton
6034 Chandler Dr.

From: Jeremy Heath <jeremyheath@hotmail.com>
Sent: Thursday, October 18, 2018 10:56 PM
To: Cass, Marc
Subject: Opposition to proposed Mt Etna Crime Lab Re-development

The plan proposed at the October 15th meeting on the Mt Etna Crime Lab Re-development by Chelsea is not appropriate for that location. The proposed height is over the 30-foot limit, over the approved housing density and is a not fit for the neighborhood.

The proposed plan would be adding the equivalent of a new "neighborhood" to the existing neighborhoods of the Mount Street area without any additional expansion of surrounding facilities. For more than 30 years the City of San Diego (and the County by extension) has ignored any upgrades or expansions of public works (road building, library, water, sewer, communications, power, fire department and police). The first interest of any public development is from the County and the proposal is a big, ugly crappy development.

The Site is already approved for a "116 residential units with a
10,000 square foot neighborhood serving retail component". Instead of requesting that plans follow this description, the County decided to push for over 450 units without any retail. In addition, the County pushed ahead with plan selection without any community input and requirement to keep any plan secret until _after_ approval of a development plan. One of your developers stated this best "Based on the neighborhood location, site layout, potential access and traffic concerns, and with recent community reaction to a planned supported housing development in the area, a300-400 unit project with 140-200 supportive housing units seem more intense than what appears to be fit for this site."

One of the reasons for the County supporting such a high-density development is that it is in a Transportation Priory Area. In accordance with SB743, “Transit priority area” means “an area within one-half mile of a major transit stop that is existing or planned, if the planned stop is scheduled to be completed within the planning horizon included in a Transportation Improvement Program adopted pursuant to Section 450.216 or 450.322 of Title 23 of the Code of Federal Regulations.” But according to one of your provided document, Transportation Amenities Rating (Table 3-8)
Transit: 35 (Fair/Poor) -- A few nearby transit options.
Walk: 72 (Good) - Most errands can be accomplished on foot
Bike: 73 (Good) - Class II bike lane. Flat and hilly. {Major hill locations West, South and North added by me}
[RES_DO_CrimeLabFamCtAFHAppA6.pdf]
In addition, there is no new transportation development proposed for the Clairemont Area as part of Chelse plan and The County has stated
that they will not pay for any upgrades. Balbao/Genesse
intersection is one of the most impacted intersections within the Clairemont Area and the Clairemont Mesa/Genesee and Clairemont/Balboa are close behind with poor ratings. This cannot be considered a Transportation Priority with these abysmal rating and Clairemont residents have stated this.

The redevelopment site is only serviced by one drive-way that connects to the Mt Enta Drive street. This street will pass by two schools (one a deaf child school) and one park. This street was not designed to support the more than 3150 addition trips (7 trips x 450
apartments/condos) as it could be used as an outlet to bypass Genesee/Balboa intersection.

The idea for developing this site at laid-out nearly 50 years ago by the City of San Diego and I think it would be appropriate today.

Finding of Fact Resolution No 2861 Amendment (2) states:

1) That the proposed use at the particular location is desirable to provide a service which will contribute to the general well-being of the community.

2) That such use will not, under the circumstances of the particular case be detrimental to the health, safety or general welfare of persons residing or working in the vicinity, or injurious to property or improvements in the vicinity.

3) That the proposed use will comply with the regulations and conditions specified in the Code for use. (what is this Code)

4) That the granting of this conditional use will not adversely affect the Progress Guide and General Plan of the City of San Diego. [AUGUST 24, 1970 as File No. 152269, OFFICIAL RECORDS]

From: Jeri Canfield <jcanfield@southlandtechnology.com>
Sent: Thursday, October 18, 2018 2:15 PM
To: Cass, Marc
Subject: RE: CASE # WT-4224097

I would also like to add that we don't need our 2 favorite shopping areas destroyed for massive housing projects. Our lives revolve around these business.
Our markets, Target, Home Depot, our neighborhood gym and Veterinarian, local favorite stores such as TJMax Vons, Burlington and many others.

Jeri Canfield
Major Account Manager
Smart Technologies Certified Trainer
SOUTHLAND TECHNOLOGY
858-634-4117

-----Original Message-----
From: Jeri Canfield
Sent: Thursday, October 18, 2018 2:05 PM
To: 'marc.cass@sdcounty.ca.gov' <marc.cass@sdcounty.ca.gov>
Subject: CASE # WT-4224097

Please see my attached comments and concerns for the Mt. Etna Rezone project. CASE # WT-4224097. I feel that this would be a terrible change to the Clairemont Mesa environment and infrastructure. I feel that it would increase congestion and traffic problems as well as causing an increase in crime an parking problems. This is a single family home area and the value of these homes would be greatly affected.

Thank you.

Jeri Canfield
Major Account Manager
Smart Technologies Certified Trainer
SOUTHLAND TECHNOLOGY
858-634-4117

From: Jeri Canfield <jcanfield@southlandtechnology.com>
Sent: Thursday, October 18, 2018 2:05 PM
To: Cass, Marc
Subject: CASE # WT-4224097
Attachments: CASE #WT-4224097 - REZONE PROJECT.pdf

Please see my attached comments and concerns for the Mt. Etna Rezone project. CASE # WT-4224097. I feel that this would be a terrible change to the Clairemont Mesa environment and infrastructure. I feel that it would increase congestion and traffic problems as well as causing an increase in crime an parking problems. This is a single family home area and the value of these homes would be greatly affected.

Thank you.

Jeri Canfield
Major Account Manager
Smart Technologies Certified Trainer
SOUTHLAND TECHNOLOGY
858-634-4117

From: Jesse S <jsam23@gmail.com>
Sent: Friday, October 19, 2018 4:31 PM
To: Cass, Marc
Subject: Mt Etna - not good for our community

Hi Marc,
I live in Clairemont with my family. I own my house. And I chose this neighborhood to raise my family for a variety of reasons. Good schools, safe neighborhood, low follow traffic are just a few reasons.

To be clear, I do not support the proposal for Mt Etna as it is currently outlined. This is simply the wrong answer.

- 5 stories is too high-DO NOT CHANGE the current height restriction
-New high density plan will adversely affect near by ***schools*** that are already financially crippled due to repeated annual budget cuts
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING
-Density and low income demographics are associated with higher crime rates: The plan put forth has no extra safety measures to off set the possible increase in crime levels that will be a burden to local law enforcement

Jesse Siegel
3212 Via Alessandro

From: Jessica Saffell-Bowlin <jsaff003@gmail.com>
Sent: Friday, October 19, 2018 12:59 PM
To: Cass, Marc
Subject: Re: Clairemont Mesa CPA 2nd

Mr. Cass,

Below are comments regarding the proposed efforts.

- 5 stories is too high-DO NOT CHANGE the current height restriction
-New high density plan will adversely affect near by ***schools*** that are already financially crippled due to repeated annual budget cuts
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING

All the best, Jessica Bowlin
4784 mt Durban drive

On Oct 11, 2018, at 2:26 PM, Cass, Marc <Marc.Cass@sdcounty.ca.gov> wrote:

> Hi there,
> The notice for the second scoping meeting was mailed out on October 5th, but to ensure folks weren't missed in the mailing, it's attached. If you've already received the notice, please disregard.
> Thanks,
> Marc Cass, Assoc. DBIA
> Environmental Project Manager
> CCAEA-Secretary
>
> _____
> Dept of General Services, County of San Diego l 858-694-2047 l Marc.Cass@sdcounty.ca.gov
> 5560 Overland Avenue, Suite 410
> San Diego, CA 92123
> Please consider the environment before printing this e-mail

From: Jessica Saffell-Bowlin <jsaff003@gmail.com>
Sent: Wednesday, September 26, 2018 11:11 AM
To: Cass, Marc
Subject: Fwd: Morena Corridor Specific Plan: Project #582608 / SHC 20161021

Hi I want to confirm you are receipt of the below email.

Morena Corridor Specific Plan: Project Number: 582608

SCH NO - 2016101021

Dear Mayor and City Representatives,

As citizens, families, and advocates for Clairemont, we strongly oppose the language on p. 327 of the PEIR that does not allow for the character of the community to be preserved. We specifically oppose the language that allows for higher building limits than 30 feet. This has verbally been promised by Lori Zaph and other city officials, but this particular language allows a loophole to change the entire Clairemont Mesa area without the consent of the citizens.

The increased traffic congestion impacts quality of life in the community for residents that already live here and those passing through the major through-fares on Genessee and Balboa. The citizens want to maintain the 30 foot height limit and the character of our neighborhood.

In addition, my neighbors and our household opposes the City's Planning Department "Height Concepts" proposal for rezoning of commercial property of the Home Depot on Balboa Avenue to residential spaces. We are an older neighborhood, and the need to access a major hardware in proximity is a necessity in the neighborhood as something is always in need of replacement. While there is an Ace Hardware in Clairemont Square, the store does not supply the magnitude of the items needed that Home Depot does. The other nearest major hardware stores are in other majorly congested areas in Mira Mesa and Mission Valley. Removal of this store will strongly impact the quality of life for existing residents, not to mention the impact on lost jobs in the community.

For similar reasons, we also oppose the rezoning of commercial space to residential on Clairemont Drive and Balboa Avenue. It is the mayor's priority to handle homeless problems, and removing the Good Will is a job loss to those recovering from homelessness and addiction. In addition, Harvest Market is also located in that shopping Center, and it is one of the only locally owned grocery stores left in the neighborhood. Not only will we be sitting in traffic for the additional proposed homes, the loss of jobs will also impact our residents.

As working parents, any additional time sitting in traffic is time that we cannot spend with our families, I'm sure we can all agree that healthy communities begin with healthy families. The last thing the residents of Clairemont want is another congested Rosecrans and University Town Center area. Please take into consideration the residents of Clairemont and prioritize growth in another area of the city.

Kindest Regards,

Stephen and Jessica Bowlin and residents of Clairemont

4784 Mt Durban drive

From: Jill Crary <jillcrary@gmail.com>
Sent: Thursday, October 18, 2018 5:11 PM
To: Cass, Marc
Subject: Re: Questions re. Clairemont Mesa Community Plan Amendment and Rezone Project Case No. WT-4224097

To the County Board of Supervisors;

My husband and I are in favor of affordable housing, especially for the homeless. However, we also live in this community
and have some concerns about how it is going to impact us
1) How was the No. Clairemont community notified of this meeting? We did not receive any kind of notification.
Why has the County Board of Supervisors waited until the last minute to include the Clairemont Community in these deliberations? Of course we have questions, but we might also have some good ideas that they haven't thought of: like a garden park for the residents and a safe playground for families with children for the housing project.

2) **How MANY units are planned for the old crime lab?** We've been told it has the potential for 494 but the ***intention*** is 400.
That is 400 more families, not just individual people. That sounds like a lot crammed into an area that is already congested.
The fewer units that are built, we suspect the less resistance you will get from the community.

3) **Is the current old crime lab to be updated for the housing or torn down and rebuilt?**
Will the units be **ADA accessible and Section 8 eligible?**

4) **Will off-street parking be provided for the residents and their visitors?**
Is the present "Employee Parking" area for the County going to be available to people who might live in the proposed development and will it be resurfaced? **We do not want to have to drive through two rows of street-parked cars to get to Genesee like behind the Home Depot shopping center.**

5) Re: the proposed residents: why would our most vulnerable population (seniors) be put in the same living accommodations as people with serious mental illnesses or substance abuse problems. Are you expecting seniors to take care of them when there is a crisis? Would you want your grandparents or parents in that situation?

6) **How much will this particular housing project cost? How will it be paid for?**

7) And finally: Where do you, the Supervisors who are making this decision live? Would you be okay with this housing project in your neighborhood? You know there is a good chance this project will lower our property values, which means lower property taxes. Of course this will certainly make Clairemont homes more affordable in the long run...

Jill and Don Crary
Jill and Rev. Don Crary
4349 Mt. Jeffers Ave.

San Diego, CA 92117
J: 619-980-6083

P.S. We cannot e-mail the form as we do not currently have a printer in order to scan it in.

5255 Mt. Etna Re- Crime Lab

Clairemont Mesa Community Plan Amendment and Rezone Project
Case No. WT-4224097
NOTICE OF PREPARATION PUBLIC REVIEW PERIOD
September 10, 2018 through October 19, 2018

PUBLIC SCOPING MEETING COMMENT SHEET

Tuesday, September 25, 2018
COUNTY OF SAN DIEGO
DEPARTMENT OF GENERAL SERVICES
5560 OVERLAND AVE
SAN DIEGO, CA 92123

WRITTEN COMMENT FORM

As a resident and home owner in Clairemont, I am not opposed to a new residential development at the 5255 Mt Etna location PROVIDED the development plans follow the existing zoning guidelines which allow for retail/ residential properties with approximately 107 residential units. This would be a reasonable number of units and residents to incorporate into the neighborhood. However, it appears that the proposed plan includes up to 454 units with up to 1,200-1,800 total residents! It is appalling to see how SD city and county government scheme together to try to change existing zoning for property in order to fit government needs and without consideration of how these changes impact neighborhood residents, in this case, Clairemont residents. City and county governments are trying to hastily 'ramrod' these changes in place. For any such city/county development planning, it is crucial to include representatives from the neighborhood to be part of the planning committee and from the very beginning.

One of the main purposes of government is to keep people safe. With the proposed development plan for the 5244 Mt Etna property, the safety of Clairemont residents is in jeapordy and does not appear to be addressed. Based on the proposed plan of 454 units, with up to 1800 residents, how will the following topics be addressed in order to ensure the safety of Clairemont residents? **Traffic** in the Balboa/Genesee neighborhood is already heavy and this increase in residents will greatly expand the amount of traffic and may result in additional accidents, noise and pollution. Will there be adequate onsite **parking** for the residents of the new property? Or, will these residents be parking on our neighborhood streets? Also, how will possible increases in **crime, loitering and fire** be handled? Are there any plans for additional law enforcement and fire stations in the area?

We want to keep our Clairemont neighborhood safe, family-friendly and quiet. The current proposed development plan does not meet our neighborhood criteria.

MAIL or E-MAIL FORMS TO:

Marc Cass
County of San Diego
Department of General Services
5560 Overland Ave
San Diego, CA 92123
E-mail: marc.cass@sdcounty.ca.gov

Jill Hasselquist
Signature

Jill Hasselquist
Print Name

5036 Mt. Frissell Dr.
Address

San Diego, CA 92117
City State Zip Code

858-598-6395
Phone Number

COMMENTS MUST BE RECEIVED BY 5:00 PM OCTOBER 19, 2018

From: Jill <jhassel@san.rr.com>
Sent: Wednesday, October 17, 2018 7:01 PM
To: Cass, Marc
Subject: Case No. WT-4224097 Written Comment Form 10/17/18
Attachments: Case_WT-4224097_writtencommentform_JH_101718.pdf

Attention Marc Cass –
Attached is my written comment form relating to Case No. WT-4224097 – Clairemont Mt Etna/Genesee proposed development for your review and consideration.
Thank you .
Jill Hasselquist
Clairemont resident

From: Joan Spieker <spkrgal33@sbcglobal.net>
Sent: Friday, October 19, 2018 10:55 AM
To: Cass, Marc; Gioia, Stephanie; chriscate@sandiego.gov; kevinfaulconer@sandiego.gov
Cc: Matt Valenti; rwjok@hotline.com; Carrie Little; Dorothy Jensen; Marcia Bodnar; Claire.Burton@iqvia.com
Subject: Mt. Edna Project for Low Income

Attn: County Supervisors and SD City Council

Once again I am writing to you in protest of the planned development at Mt. Etna and Genessee Ave. A facility with up to 500 units, 465 parking spaces, 800 to 1000 residents, and five stories in height in an unconscionable thought process in the minds of the County Supervisors. You are striping our neighborhood of tranquility, low crime rate, a wonderful place to raise our children, and a great deal more traffic in our neighborhood. Some of our homes abut the property that you are planning for this massive project. Our homeowners will face constant disturbance of traffic, cars coming and leaving the facility, but most of all the lack of privacy from a five story building directly in back of their homes. But it's not just the homeowners that abut the property, it affects all of Clairemont. We are taking the brunt of your ill planned need to place low-income residents throughout the city and county; not to over burden Clairemont with so many. Please tell me where any other facility this large has been planned elsewhere in the city or county. Are they in your backyard? Of course not! After all you're a great politician in our city and county of San Diego; you can vote out anything that threatens your backyard. Most of your constituents have little say in anything that involves our homes and livelihood.

The location is on a very busy Genessee Ave., that connects with Balboa just a short distance away. It makes the residents of this planned facility vulnerable to noise, heavy traffic with greater chances of accidents to the residents and their children. It will create a bigger problem of traffic through our neighborhood. Already cars from Balboa cut through to Mt. Castle Ave. and Mt. Everest to reach Mt. Etna and Genessee. They do this to avoid the long stop light at Balboa and Genessee. What do you think these 465 owners of the facility will do? You guessed right! They'll cut through our neighborhood. And why would you place vulnerable citizens on a noisy, busy thoroughfare to start with. To rehabilitate, or just to house low income seniors one would think a not-so-busy location would be more conducive to very well being.

Last, but not least, I am concerned about some of the residents that would be living in this facility. Low income Seniors is one thing. I am a Senior and I can sympathize with those whose income is so low they don't have a place they can call home. But its the other 300 units that concern me; specifically the 52 units planned for developmentally disabled...some of which are alcohol and drug abusers, and others that are mentally disabled. They'll be out walking our streets, along with all of the other residents. Will our homeowner's in our neighborhood feel that their children could be at risk? And what about the school that is less than a block away? I wonder how the Board of Education feels about this planned project. Or, are they even aware of what is planned? DO WE NEED A POLICE PATROL to

monitor the additional traffic, perhaps an increase in crime rate, and an influx of pedestrian traffic on our streets?

How about some answers to our questions? How about setting up meetings far enough in advance that we, the residents, have an opportunity to plan to attend these meetings? How about all of the County Supervisors coming to our meetings to hear our concerns? How about Ron Roberts walking our streets to see for himself what we have done to improve our homes, our neighborhood, and to raise our children in one of the best locations in the city?

I am 85 years old. I have lived in this one-and-only home since December 1957. I love the home, the community of Clairemont, and the convenience of everything: freeways, medical facilities, and stores that offer everything within blocks of where I live. It's a wonderful place to raise a family. Please don't ruin it for the Clairemont citizens. 500 to 1000 additional people at Mt. Etna is overdoing it.
Think again Supervisors.

Joan Spieker
spkrgal33@sbcglobal.net

From: Joan Spieker <spkrgal33@sbcglobal.net>
Sent: Tuesday, October 9, 2018 3:25 PM
To: Matt Valenti; rwjok@hotline.com; Eddie Bradford; Julian Pena; Richard Jensen; Juliet Hong; Julie Wilds; Quentin C. Yates; Cass, Marc
Cc: Carrie Little; Dorothy Jensen; Marcia Bodnar
Subject: Fw: Proposed Project at Mt. Etna and Genessee Ave.

It would seem that our County Supervisor's have little concern for the people that established this community of Clairemont some 62+ years ago. The Clairemont area is central to every freeway, and is coveted by many as an ideal location for establishing a home and raising a family. I have lived in my 'one and only' home for 62 years, and have loved this area for all of it's conveniences.

Now the County wants to turn the Crime Lab into a low income home for as many as 500 to 800+ individuals. This will be a major impact on the citizens of this community. The county has said they will house low income seniors, veterans, substance abuse (alcohol and drug) and mentally ill individuals. They want to raise the height limit for building the project. I, and most of my close neighbors, are totally against this project.

First off, it will greatly impact the neighbors who live on Mt. Castle Ave. and whose houses abut the parking lot of the Crime Lab. With a higher structure, the residents of that structure will be able to look directly into the backyards and houses of our neighbors. This is totally unacceptable. Our good neighbors have put thousands of dollars into remodeling their homes, and expecting that this will be their home for many years to come. Many of them have young children, and they are expecting, like my husband and I did many years ago, that the neighborhood is safe for playing, and basically a crime free neighborhood.

Now with so many moving into this planned project, some very good people I'm sure, but some we might be dubious about, is causing much anxiety among the residents of Clairemont. When these folks decide they want to take a leisurely stroll where do you think they might want to stroll? Not along busy Genessee Ave. when traffic is racing by every hour of the day, and it's so noisy. They'll want to stroll along our streets that are within close proximity of their establishment, and OUR HOMES. We're not talking about a few people walking out streets, we're talking about possibly in the 100's. I fear there could be an uptick of crime on our streets, which has been almost nil up to this point. And what about the congestion of extra traffic, and parked vehicles on our streets?

I expect each and everyone of you can see the dilemma and frustration that this project is causing to the citizens of Clairemont. I also expect that all of you will fight against this proposal. Politicians should not be able to do anything they want to do without consideration of it's citizens, and on this project the citizens say NO.

Joan Spieker
4334 Mt. Castle Ave.
spkrgal33@sbcglobal.net

From: Joanne Degen <joanne1755@san.rr.com>
Sent: Thursday, October 18, 2018 5:53 PM
To: jdegen1@san.rr.com; Cass, Marc
Subject: HUGE Problem with: Mt Etna Crime Lab Project Rezone Project [WT-4224097]

How did this happen: Re-zoning of our community should not be done without our input.
"The County has submitted a request to the City of SD for rezoning (as an amendment to the Community Plan) and to the Clairemont Community Planning Group (CCPG). Normally, the CCPG would listen to the request, review, and provide a recommendation to the City. What is concerning in this case, is that the request for rezoning is also asking the City of SD to change the review process from a discretionary to a ministerial review. This change in review will remove the CCPG from the process. The CCPG is the voice of the Clairemont community. If approved by the City of SD, changes that need to occur - in height, for example- a city staffer would approve, instead of requiring a recommendation from the CCPG. The reality is the SD City Council can ignore our recommendations, but it will be seen as ignoring their voters and devastating to Clairemont and to the Mt Etna neighborhood."

Why was this important step bypassed?
-Why did our representative Chris Cate not speak out and ask the Clairemont families BEFORE pushing this through?

-What is in this project for Mr. Cate? He is our representative, so how does he benefit from this? (Certainly not looking for votes from Clairemont voters. Certainly not ours.)

As we understand it: Four acres of land will house units for 400+ individuals and families and the properties will have a 99 years lease:

It will be home for recovering addicts, the homeless, mentally challenged adults and low-income FAMILIES.

Questions that need answers:This will be a diverse group of folks living in close proximity to say the least. So the questions are:

-Who will GUARANTEE strict screening requirements for ALL tenants will be in place BEFORE they move in. (No gang affiliations, no felons, etc.) and continue strict screening as new "tenants" move in?

-What kind of on-site protection will be available 24/7 for any and all of the groups or individuals?

-What kind of safeguards will be in place for the residents in our part of Clairemont?

-Who will maintain these properties – outside and inside?

-Who is paying the rent? Who is paying the SDG&E bills? Who is monitoring and paying the water bills?

-How is the parking situation for 400+ units being addressed?

-How is the added traffic that will occur being addressed?

-What is being done about re-enforcing the infrastructure i.e. streets, old water mains, sewers, power etc.


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From: Joe Furfaro <furfaro.joe@gmail.com>
Sent: Wednesday, October 17, 2018 6:22 PM
To: Cass, Marc
Subject: Clairmont Mesa Community Plan WT-4224097

Hi Marc,

I am writing you as a new resident and homeowner in Clairemont in protest of the planned rezoning and project for 5255 Mt. Etna Drive.

One of the many reasons my wife and I decided to move to Clairemont was because of the low density homes and traffic, strong family values, and beautiful community. Having grown up in San Diego and attending USDHS, Clairemont has always been where families lived. After spending the last 4 years as a resident and condo-owner in East Village, I can tell you that high density, low income housing is NOT conducive to a safe or quiet family community.

My wife and I are both very progressive, and both believe there is a housing, livable income, and homeless crisis that needs to be addressed. We also both believe that the proposed project for 5255 Mt. Etna is NOT the answer to that problem. In addition to creating excess traffic congestion and packing the streets with more parked cars, this project will reduce the surrounding home values and introduce individuals to the community who will neither benefit the current family culture, nor benefit from it (the real goal for helping low income housing qualified individuals).

Please reconsider this project and rezoning. There are myriad other solutions for that plot, and for those who need housing assistance.

Sincerely,
Joe & Katie Furfaro

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Please reconsider this project and rezoning. There are myriad other solutions for that plot, and for those who need housing assistance.

Sincerely,
Joe & Katie Furfaro

From: J P <jrpcs@hotmail.com>
Sent: Tuesday, September 25, 2018 11:57 PM
To: Cass, Marc
Subject: EIR Comments for Mt. Etna/Crime Lab Site Affordable Housing Prject
Attachments: CEQA - Mt. Etna.docx

Please find a copy of the comments I delivered verbally at tonight's NOP EIR Comment Meeting.
Please contact me if you have any questions.

Joel Pointon
5857 Camber Dr.
San Diego, CA 92117
Tel 858-751-9992

From: John Noble <jnoble@aamlive.com>
Sent: Thursday, October 18, 2018 8:51 PM
To: Cass, Marc
Subject: RE: Comments for the EIR, Clairemont Mesa Community Plan Amendment and Rezone, Project WT-4224097

Mr. Cass,

Please send an email Reply, to acknowledge receipt of my EIR comments.

Please also tell me the purpose of the next Planning Commission meeting. Is it still November 20, as you told us at the second Scoping meeting? Is there a link for more information?

When will the EIR be completed? How can I get a copy?

Thanks.

John Noble

From: John Noble
Sent: Thursday, October 18, 2018 8:44 PM
To: Marc.Cass@sdcounty.ca.gov
Cc: DManley@sandiego.gov; John Noble
Subject: Comments for the EIR, Clairemont Mesa Community Plan Amendment and Rezone, Project WT-4224097

Mr. Cass,

I am very concerned about the Mt Etna Crime Lab project. I expect negative environmental impact regarding:

- Traffic,
- Public safety,
- Noise,
- Utilities,
- Recreation,
- Walkability,
- Air quality (Climate Action Plan),
- Parking,
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- Businesses.

Perhaps you've seen the News 8 video from the second Scoping meeting on October 15, 2018. Most instructive is the footage showing the line of eastbound cars on Mt Etna Drive, waiting for the signal light to change. That's why I've included the link.

http://www.cbs8.com/story/39291824/clairemont-residents-oppose-affordable-housing-project

This is a residential street, with just one lane in each direction. At the corner, there's a second right-turn-only lane. The primary lane is for cars that want to either turn left onto Genesee Avenue or go straight into the Home Depot parking

lot. Persons turning left must wait for oncoming traffic going straight, on Mt Etna Drive, into the neighborhood from the Home Depot lot. This is a busy intersection. During peak traffic times, cars traveling east wait through several signal light cycles.

At the October 15 Scoping meeting, Chelsea explained that they'll build a parking structure for 465 cars. There will be a single entrance and a single exit … for 465 cars! Just an entrance/exit on Mt Etna Drive! Look at the News 8 video. It shows a line of cars that extends past where the parking structure exit will be. How long will it take for cars to get out of the parking lot? This will be like getting out of the old Qualcomm Stadium parking lot after Chargers games.

Here are other thoughts concerning the Mt Etna project.

1. The most important considerations are (in order of importance): population, parking, aesthetics.
2. I have experience with section 8 family housing, where residents were at the low end of the
3. This is the third affordable housing project within a half mile. That's really a lot for one neighborhood to absorb. Other projects: Stratton (apartment complex, 300+ units, converted to affordable housing by Wakeland) and 5858 Mt Alifan Drive (52 homeless units, in progress). Again, the Mt Etna Crime Lab project is slated to be the LARGEST affordable housing project in the history of San Diego. This could easily be 1600 people. Supervisor Roberts' office says that a 3-bedroom affordable housing unit is designed to house up to eight people.
4. At 404 units, this will be the **largest affordable housing project in the history of San Diego** (eclipsing, by over 30%, the previous largest – Civita, in Mission Valley, where 306 units was a tiny fraction of a 320-acre housing development). Plus, Civita got a much less risky affordable housing population than what Chelsea is proposing for Mt Etna Crime Lab.
5. Lots on Mt Castle Drive (western edge of property, on other side of power lines) may never see anything but late afternoon sunlight again.
6. Extreme density will cause noise problems. There will be insufficient recreation space for the many children. The neighborhood library won't be able to service a doubling of the neighborhood population.
7. A population of addicts, severely mentally ill, recently homeless, and felons will certainly cause safety concerns at Mount Everest Academy, one block away. Holmes Elementary will be unable to handle the influx of students.
8. Addicts increase crime in any neighborhood where they live, especially when there are lots of them. Parents, teachers, and neighborhood residents will worry about needles and drug dealing at Mt Etna Community Park (3 blocks away). People previously inclined to walk will be pushed back into their cars, out of safety concerns.
9. Water, sewer, gas, and electric lines were installed in the 1950s. They were designed for a neighborhood of single family homes. It doesn't make sense that Chelsea could double the number of neighborhood residents (no infrastructure improvements) without adversely affecting qualify or reliability of service.
10. 465 parking spaces for 404 units (some 2- and 3-bedroom, low income families as population) won't be nearly enough.

Air quality (Climate Action Plan) concerns call for more walkability and getting people to work/shop/dine near where they live. However, the proposed sandiego.gov Clairemont Community Plan
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seems to replace our neighborhood shops (e.g. Home Depot and Target) and restaurants (e.g. Panera and Five Guys) with yet more high-rise, high-density housing. Children appear in the concept drawings. Surely, they and their parents won't travel, everywhere they go, on the #41 MTS bus (rated "Fair/Poor" on page 20 of the February 2018 Affordable Housing Phase II Feasibility Analysis). It seems as if the City wants to re-purpose every single parking lot in Clairemont for (probably affordable) housing.

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business parking lots (so no parking for customers), in school parking lots (like Mt Everest Academy, one block away), and in single-family-home residential areas (many square blocks, every space taken).

Please consider the City of San Diego Sewer Design Guide published by the Public Utilities Department.
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On page 1, it discusses what's required for large scale projects like the Mt Etna Crime Lab site. Keep in mind that this project will double the neighborhood population. Notice the word, "shall" (i.e. strong assertion), in the Guide's text. "Project applicants shall contact the Public Utilities Department Senior Civil Engineer when the wastewater flow estimates of individual areas planned for development generate more than 5 percent of the wastewater stream at the point of connection with the City's list of critical sewers. The intent of this requirement is to ensure that flows from new projects will not adversely affect the downstream conveyance systems operated by the City and to ensure that previous studies have accounted for those flows in the design of the City's downstream conveyance systems." Will the EIR provide detailed sewer diagrams and proof that all (not just neighborhood) "downstream conveyance systems" won't be impacted.

I spoke face-to-face with San Diego Unified School District board member Dr. John Lee Evans. Like us, he's concerned about the Mt Etna Crime Lab project. Dr. Evans has asked Superintendent Marten to investigate. I'd expect that the County will hear from her office and/or the SDUSD legal team soon.

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Nearby business owners seem to be concerned. If new Mt Etna Crime Lab tenants take over their parking lots, then where will their customers park?

You asked for suggestions.

My best suggestion is for the County to sell this property and parlay the (substantial amount of) money into a larger, more suitable site for the type of project you want to build. Tommy Hough, City Council District 6 challenger, suggests a location within an industrial park area. Some such areas are near transportation centers.

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If the County persists in developing the site, I suggest the following (a WIN for both the County and community):

1. Make it clear (to Chelsea and the community) that addicts, felons, homeless, and the mentally ill will **not** be part of the population. We want the neighborhood to feel safe. The site is one block from a school and 3 blocks from a park. Mt Etna Drive is the gateway to our neighborhood. Mothers push baby strollers to the shops. Children walk to the school. Residents walk and ride bicycles. We want this to continue. Unfortunately, HUD won't allow Chelsea to require participation in treatment programs to be a condition for housing.
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John Noble
619.244.2730

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From: John Noble <jnoble@aamlive.com>
Sent: Thursday, October 18, 2018 8:44 PM
To: Cass, Marc
Cc: DManley@sandiego.gov; John Noble
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From: John Wagner <johnwagner4774@gmail.com>
Sent: Thursday, October 18, 2018 3:49 PM
To: Cass, Marc
Cc: Toomer, Charista; ChrisCate@sandiego.gov; kevinfaulconer@sandiego.gov
Subject: Mt Etna Project Scoping Input

Dear Mr Cass, Mayor Faulconer, Supervisor Roberts and Councilmember Cate,

As I see it, the proposed Mt. Etna project has two communities that it would serve: those housed in it and those residing around it. In its currently proposed configuration, I see it as a detriment to both communities, which would result in a huge failure for all concerned.

Many residents have adequately voiced how 400 plus units in a 5 story complex would be a detriment to the Clairemont area due in part to traffic, limited egress, safety, inadequate infrastructure, and mass transit concerns, all of which I agree.

However, I am not convinced that enough support could be provided for the complex's occupants in such a dense population that they would be safe, let alone have quality of life. As a result, this project has the potential of being a lose-lose situation.

Instead of trying to achieve maximum density, I hope a more manageable project that effectively serves both communities, will be considered. If this project was rescaled and well-supported so that it was beneficial to both communities, it could potentially be pointed to as a shining example of what to do instead of what to avoid, and potentially be a model to replicate.

Why can't we work toward making this a win-win situation for all those impacted by its development?

Regards,
John Wagner

From: Jordan Zavislak <jordan.zavislak@gmail.com>
Sent: Friday, October 19, 2018 9:02 AM
To: Cass, Marc
Cc: Jordan Zavislak
Subject: Case No.: WT-4224097

Marc

My name is Jordan Zavislak and I live at 4343 Mt. Castle, directly adjacent to the proposed site.

Per your EIR, please address the following issues and how the county intends to mitigate them in a manor satisfactory to the local residents:

* Crime: increased people will bring increased crime. Your reports needs to provide adaquite statistical data to show crime will not increase. If it's found crime will increase, the county must subsidize the city for additional enforcement. My car was broken into this past Monday, so crime along this corridor is a real issue.

* Traffic: I have 3 small Children and was forced to fence in my front yard because cars routinely drive in excess of 40 mph down the small street cutting through to Home Depot. The cars always bottom out on the speed bumps. Not only is this unsafe for my children, but it also causes unnecessary wear & tear to our already substandard city infrastructure. Also, how will the county force the city to improve traffic flows, road improvement, and congestion? This is a very significant issue give the lack of good public transportation exists in the area when better sites with better public transit were passed over.

* Rights to Quiet enjoyment: your report my insure my privacy is alsways protected from visual intrusion by the development. This would be impossible with the proposed 6 stories. It must be smaller. Additionally the demising wall that seperstes my property from the site must be higher to mitigate sound pollution.

* Schools: This project will not significantly increase the property tax base and will lower the value of our homes, decreasing the property tax base further. The decreasing proceeds will put further burden on the schools as attendance will inevitably increase. How will the county subsidize the school district and mitigate this issue.

* Other Sites: there are better sites for this project. The EIR must address the other sites and explain why and how the county decided to accept RFP for an inferior site, when better sites exist.

* The new development must be sustainable with a LEED certification.

I vehemently oppose the project. I'm in support of redevelopment under the current zoning. An assisted living type use is the perfect fit and would mitigate all the issues listed above.

Jordan.

From: canoeharper@aol.com
Sent: Friday, October 19, 2018 12:19 PM
To: Cass, Marc
Subject: Mt Etna

Dear Sir,

I am a home owner in the area of Mt. Etna. I have heard of the plans on using a large commercial building and converting it into a low income facility. I am strongly against this. Wasn't this zoned commercial.? Where will people park? Will their be extra police for all the people that would occupy this housing. I understand the need to house the homeless. But if you build it they will come. are you creating jobs for these individuals??? I believe this is a horrible idea. Please to not bring the property value down in our community!!!!!

Joseph Harper, Home owner

From: Joseph Ortega <jorteganrpv@gmail.com>
Sent: Friday, October 19, 2018 12:57 PM
To: Cass, Marc; chriscate@sandiego.gov; nwaney@plattwhitelaw.com
Subject: Fwd: Mount Etna Low Income Project - Upset Clairemont Resident

October 18, 2018

Marc Cass, County of San Diego, Department of General Services

Chris Cate, District 6 City Council Member, San Diego City Council

Naveen Waney, Chair, Clairemont Community Planning Group

Hello,

I recently learned, by word of mouth, of a plan to cram in a massive 400+ low income unit complex into a tiny 4 acre lot off Mount Etna. Every single house in our neighborhood is a single-detached dwelling... and has been since inception of our neighborhood. I honestly have no clue how someone dreamed this plan fits within the character of our neighborhood. There is a reason why this land was zoned for commercial use only; it was NEVER intended to be residential... especially not a giant 5-story complex.

The number one priority, when planning a project of this nature, should be to safeguard the essence of the target neighborhood. This project doesn't do that. This project actually tears at the very fabric that makes our neighborhood so great. This project is exactly why we didn't buy downtown or in University City. We bought here because this area wasn't built up. What's being shoved down our throats essentially doubles the number of residents of our neighborhood by shoehorning in this behemoth complex into a tiny lot that was NEVER intended for residents. IT DOESN'T FIT HERE!

We don't want this project for a number of reasons:

Traffic congestion. Traffic here is already a bit tough to manage. Cramming in 1500+ additional people is going to make our neighborhood really frustrating to navigate... and will potentially double my commute time.

Elevated Crime. Crime is ALWAYS higher in low income areas. I'm certain the majority of people set to live in this complex would be lawful... we all get that; unfortunately, a high percentage won't be. Crime in our neighborhood is pretty low today, but your plan would drastically increase the crime rate. We feel safe in our neighborhood today, but that'll change with this proposal.

Commercial Zoning. The zoning for this area is not conducive to this plan. This land is not zoned for residential use. We are NOT open to a change in the zoning.

Single Entrance. Looking at the plan, there's only one entrance. Seriously?

Public transportation. I'm guessing the majority of people housed in this proposal would utilize public transportation, yet the bus system in this area is pathetic at best.

Five stories. The size of this project is completely absurd and doesn't fit the character our single-family detached home neighborhood.

Real Estate Values. This plan will absolutely cause our real estate values to tank.

I have to bring up communication on this project. This part is pretty infuriating. The communication from the County... or the City for that matter is an absolute train wreck. The fact that this project kicked off months ago and we just learned about it on Monday is stunning. Seriously, what's wrong with this picture? At a meeting we attended on 10/15 it was stated that notices were mailed out... yet only two of roughly 100 people who attended the meeting received these notices. If notices were going out, and only 2% of the people received them... where did the other 98% go? The perception doesn't look good... and actually seems pretty suspect.

Look, I know there is good reason to push for these projects... and I'm sure your hearts are in the right place... but shoving a project like this down our throats... into a neighborhood of single family detached homes is just awful. The fact that I need to point that out is pretty unbelievable.

What little time we have left will be spent trying to get the word out. EVERY resident I've spoken to in our neighborhood is completely against this plan. Every single one. I'm hopeful the County and City will reconsider another area where this project actually fits. The Mount Streets of Clairemont is NOT the right fit.

Sincerely,
Joseph Ortega
4289 Mt Putman Ave
San Diego Ca 92117

From: josie <josiedh@yahoo.com>
Sent: Friday, October 19, 2018 12:05 AM
To: Cass, Marc
Subject: Mt. Etna rezone project

Sent from Mail for Windows 10
As a resident of Mt. Etna 's Clairemont area, I am against the idea of the rezoning of Clairemont to fit a 5 story large apartment building near Mt Etna and Genesee St. corner There are times now that the corner gets very crowded with traffic so that long lines form way down Mt. Etna and many side streets' crossings are blocked due to traffic at traffic light. There was good reason for the initial zoning to be limited to 3 story buildings because Clairemont has many narrow streets that were never meant to accommodate heavy traffic. Even an allowed 3 story apartment building will increase the traffic problems at the named corner, along with increased air pollution from cars running their engines while waiting there. We will have to tolerate the effects of a smaller 3 story building there , so please don't make our lives miserable with a 5 story building at that spot. Thank you for considering these thoughts on the issue.
Josie Hill (4359 Mt Henry Ave.)

Virus-free. www.avast.com

From: Joyce Johnson <jjoyance@gmail.com>
Sent: Thursday, October 18, 2018 1:43 PM
To: Cass, Marc
Subject: Mt. Etna Housing

Dear Marc, The proposed housing on Mt.Etna /Genesee is **much too large** for the area.The senior /low income is needed but please be reasonable and do not overcrowd the area. 250 units max. Thanks, Joyce Johnson.

From: Julee Jenkins <jjenkins@qti.qualcomm.com>
Sent: Tuesday, September 25, 2018 9:07 AM
To: Cass, Marc
Cc: Julee Jenkins
Subject: Mt. Etna Project at County Crime Lab

Hello Mr. Cass,

As a resident who resides very near to this location I am quite concerned regarding the number of units propsed for the Mt. Etna site in Clairemont. My primary concern is traffic on Genesee. The evening commute down Genesee is already quite congested, adding hundreds of units to this part of Genesee will most certainly increase the traffic and lengthen commute times.

My objective with this email is to ensure that we as Clairemont residents will have input on the scope, height and number of units for the proposed site prior to the city moving forward with any permitting.

I look forward to hearing any updates you may have.

I appreciate your time,

Julee

Julee Jenkins
Project Analyst, Sr.
jjenkins@qti.qualcomm.com
(858)845-2096

From: Julian Pena, Jr <julianpjr@gmail.com>
Sent: Friday, October 19, 2018 10:07 PM
To: Cass, Marc
Subject: Crime Lab on Mt. Etna

Dear Mr Cass,

This proposed development is a bad implementation of social assistance in our community. I will refrain from any further detailed comments since it would be redundant. I stand with the majority opposing the development for all the same reasons.

If this plan to construct 400+ residential units continues to completion I fear it will be a massive failure. Failure in the form of lack of civility, respect and quality of life. San Diego has developed a reputation of being a calm and easy going culture. We are fortunate to have lived in this city and to have seen it grow from a few neighborhoods into the city we now see today. Increasing the population with people who need special attention due to alcohol and drug addictions will impact the life we have known and respected. I am not opposed to providing care for them. I am opposed to the location and the massive size being proposed. There are other locations and facilities available.

I am aware of a situation that you should review, if you haven't been made aware of it already.

http://www.latimes.com/politics/la-pol-ca-homeless-housing-bond-stalled-20180301-story.html

It's tragic that money has become such a political issue. I hope there will be a resolution to all these problems soon and I hope we can maintain our San Diego culture by not over populating our neighborhoods recklessly.

Thank you,

Julian A. Pena, Jr

From: Julie Wilds <jwilds66@gmail.com>
Sent: Friday, October 19, 2018 4:06 PM
To: Cass, Marc
Subject: Mt. Etna impromptu survey.
Attachments: Survey from Community.docx

Mr. Cass,

I just wanted to let you see what a very small survey was able to highlight. This is a very non-scientific low tech survey. I threw it together and got it in a very short time. It was broadcast on Nextdoor/Facebook and email link. We did have a person that tried to rig/ruin the results by not applying to social honor system, so I was forced to remove multiple results from already used ISP addresses. Due to to her comments and admissions, and the average time of the survey users, I removed any results from surveys that took less than 40 seconds. The average time for utilizing the survey was over 1 minute 15 seconds even with the multiple quick, false results. The results are really not that different before or after.

Please note that they do not directly reflect what the current proposal, it merely reflects the zoning/community plan aspects.

My personal opinion is already known by you. The current proposal is NOT a good fit for the community.

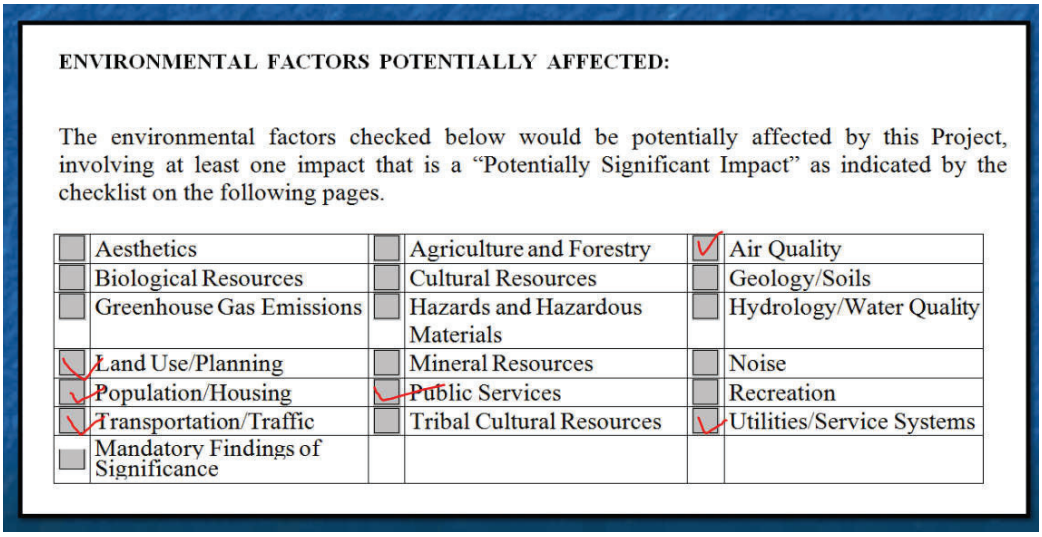
These are my requests for the project:

-A development with a 3 story max.
-A least 50% market rate rentals
-Standard parking spots per code
-Retail space as outlined in the original RFP
-Community room or funding to increase size of Balboa library.
-Additional egress and ingress
-No more than 250 units.

Thank you for your consideration.

Julie Wilds

From: Juliet Hong <julietthecpa@gmail.com>
Sent: Saturday, October 20, 2018 12:33 AM
To: Cass, Marc
Subject: Mt. Etna Project



ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this Project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

☐	Aesthetics	☐	Agriculture and Forestry	☑	Air Quality
☐	Biological Resources	☐	Cultural Resources	☐	Geology/Soils
☐	Greenhouse Gas Emissions	☐	Hazards and Hazardous Materials	☐	Hydrology/Water Quality
☑	Land Use/Planning	☐	Mineral Resources	☐	Noise
☑	Population/Housing	☑	Public Services	☐	Recreation
☑	Transportation/Traffic	☐	Tribal Cultural Resources	☑	Utilities/Service Systems
☐	Mandatory Findings of Significance				

Dear Marc,

I am writing to inform that I am against this project changing zoning from its existing community master plan as well as to increase the density to create 450+ units at this location.

Unlike other parts of san diego, we do not have an updated traffic control system that will help with ease of traffic flow.

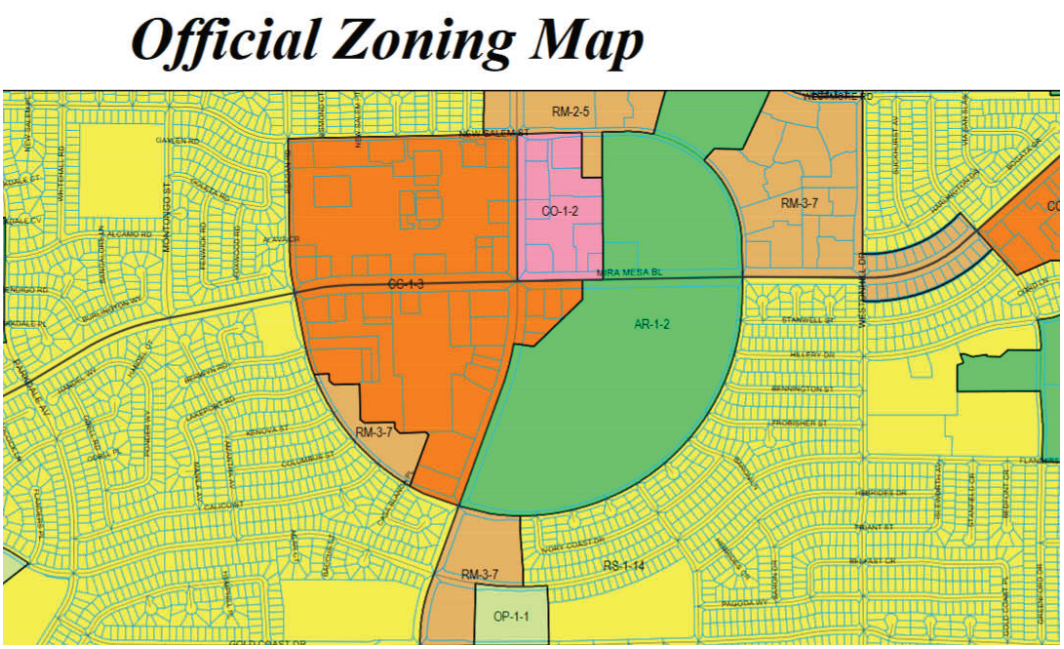
Additionally, school buildings in Clairemont is in a dire need for an update. Kids are studying or trying to without AC. with 100% extremly low income units being put there, schools will get even less $$ to provide service to even more students as these units will not be bringing any type of revenue back to the community, especially to the schools and senior centers.

There is an alternative that I would like for your to consider. build the low income housing at Mt. Etna, however do not go beyond its original unit restriction but to build a secondary building in Mira mesa- Epicenter to be exact.

If the lot is already owned by the city and is vacant and you are currently seeking RFP, shouldn't this site be considered first to address the homeless concerns and/or housing crisis that goes hand in hand with homelessness?
We all count 2017 data clearly shows Mira Mesa having the highest homeless count in the City of San Diego District 6 (47.18 counted), followed closely by Kearny Mesa with count of 40.84, and half of that in Clairemont with 23.94.

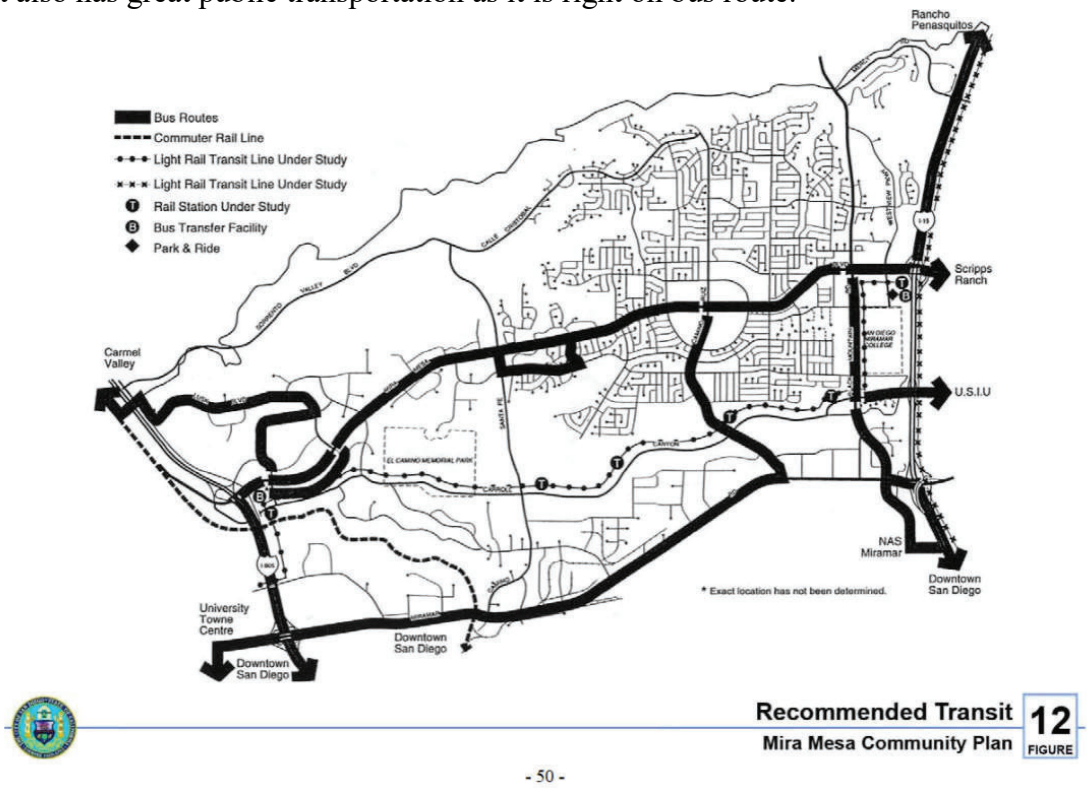
As you can see below, 8450 Mira Mesa Blvd, San Diego, CA 92126, former epicenter/ also former public library is zoned immediately next to **CO-1-2.**

https://www.sandiego.gov/sites/default/files/legacy/development-services/zoning/pdf/maps/grid32.pdf



Looks like this is a public property and is already vacant and can move forward with addressing the city's big problem.

It also has great public transportation as it is right on bus route.

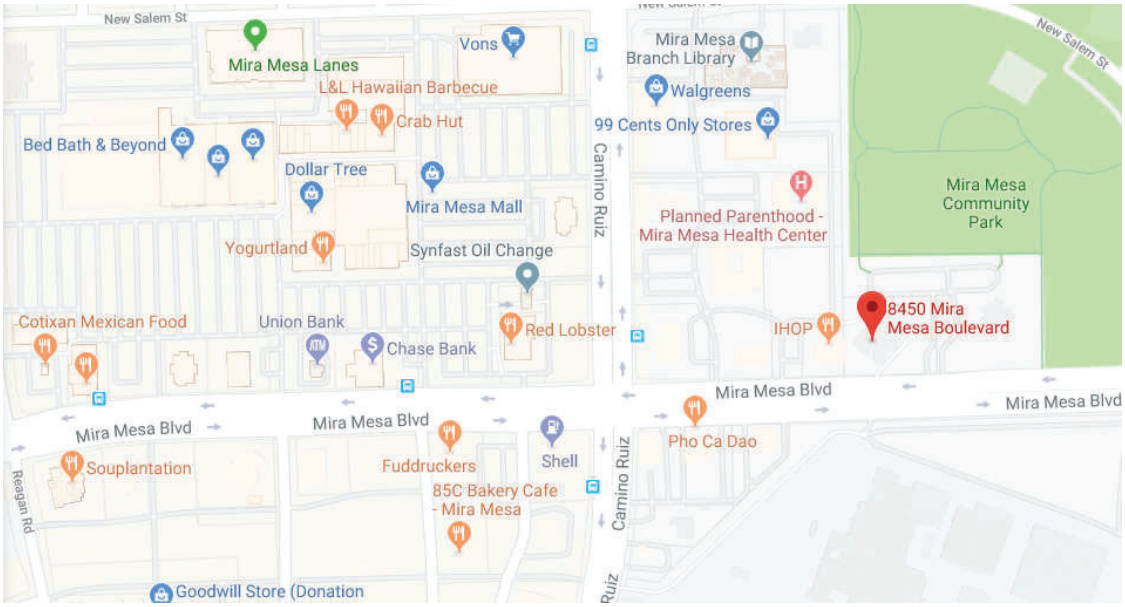


- 50 -

https://www.sandiego.gov/sites/default/files/miramesa042611c.pdf Page 60 from Mira Mesa Community Plan

and extremely identical to the propose Mt. Etna project has grocery store and all amenities within walking distance. even hospitals, parks, senior center, schools, target, restaurants. Places people can get help or find jobs

at.



Thank you for your consideration on things matters to my family and the kids that will be part of this community.

Thank you,
Juliet Hong

From: Justin Martin <thestarznstripes@gmail.com>
Sent: Friday, October 19, 2018 3:47 PM
To: Cass, Marc
Cc: kevinfaulconer@sandiego.gov; ChrisCate@sandiego.gov; Ron-Roberts
Subject: Mt Etna Redevelopment Project

I am emailing to voice my vehement opposition to the Mt. Etna redevelopment project and the impact it will have on our community.

Cons:
- 5 stories is too high-DO NOT CHANGE the current height restriction.
-New high density plan will adversely affect nearby schools that are already financially crippled due to repeated annual budget cuts.
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking for current residents.
-DO NOT CHANGE CURRENT ZONING!
-Density with low income demographics are associated with higher crime rates: The plan put forth has no extra safety measures to offset the possible increase in crime levels that will be a burden to local law enforcement.
-Decline in property values.

Respectfully,
Justin S Martin
Broadlawn St East Clairemont

From: Karen Barnes <klynnebarnes@yahoo.com>
Sent: Friday, October 19, 2018 7:36 AM
To: Cass, Marc
Subject: CCPG planning (apartments in Clairemont)

Dear Mr Cass,

Why this idea is NOT a good one: increased crime; increased traffic; parking problems; increased noise; decreased property taxes; children's safety and the safety of others, etc.

If you think it's a good idea to rezone and build so many apartments, then I suggest that this be done very close to your home. If those who are voting on this, imagine this being done next to their homes, they can build there.

Clairemont is a centrally-located, highly-desirable area in which to live. Don't spoil a good thing!

A Clairemont resident,
Karen Barnes
4876 Mount Frissell Drive
San Diego, CA 92117

From: Karin Brindell <brindell@gmail.com>
Sent: Friday, October 19, 2018 2:35 PM
To: Cass, Marc; Karin Brindell; Karin Brindell
Subject: Public input for WT-4224097

Greetings,

I would like my opinion and comments to be included for the record.

Regarding the community plan for rezoning and development of additional housing in the Clairemont community, reference WT-4224097, I don't think this is a good idea. It is too little and too late for rezoning with sky scrapers and having cranes in the neighborhood. I've lived in Clairemont for decades and enjoy it just the way it is. I've seen the University City neighborhood boom and am dealing with all the traffic concerns and construction detours and road closures, and do not want to experience that in my local community. Clariremont will survive without this injection of affordable housing and rezoning.

The effort to make public all the meetings and information sharing has not been communicated very well. I would have responded sooner if mailings or door hangers would have been provided, perhaps even lawn signs with the local events or city involvement.

Most of the infomraiton has been very surprising and upsetting to the official Clairemont resident such as myself. Please don't do anything that would change our community for worse, and provide serious thought as to why these projects will improve the 92117 zip, and not just to spend money to make money.

Thank you for your consideration and attention to this matter

Karin Brindell

From: Brindell, Karin <Karin.Brindell@hologic.com>
Sent: Wednesday, October 17, 2018 9:59 AM
To: Cass, Marc
Cc: Brindell, Karin
Subject: Requesting information on Clairemont Mesa Community

Greetings Marc,

Are you the contact for activities, events, and other public issues for the Clairemont Mesa Community?

Please forward this to someone who would be an appropriate contact.

Thank you for your attention,

Karin Brindell
Clinical Compliance Specialist
Hologic Diagnostic Solutions (San Diego)
O: 858.410.8680

From: Brindell, Karin <Karin.Brindell@hologic.com>
Sent: Friday, October 12, 2018 11:47 AM
To: Cass, Marc
Subject: Case No. WT-4224097

Greetings Marc,

I would like to add my comments for the above mentioned project to be included for consideration.

Please let me know if there is a specific form I need to fill out, and where to send my comments to.

Thanks for your attention,

Karin Brindell
Clinical Compliance Specialist
Hologic Diagnostic Solutions (San Diego)
O: 858.410.8680

From: Kate Van Erck <katevanerck@gmail.com>
Sent: Monday, October 15, 2018 9:25 PM
To: Cass, Marc
Subject: Mt Etna Project

Dear Mr. Cass,

I live five blocks away from the proposed site. I am happy to have the community provide affordable housing, however I have some major concerns about the size. Could you please provide for me the following information:

1- Why was the location zone in such a way to only allow for a certain amount of residencies in the past / only allowed to be 30 feet? What has changed in my community that that is no longer a concern?
2 - How will the schools be able to accommodate such a large jump in students? Many San Diego public schools are stifling and a sudden jump in student population is not going to keep Holmes school district at a high ranking.
3 - Other than voicing my displeasure to you about this project, what other steps can I take to ask the County and City to make the project a more reasonable size - which fits with the current zoning?

Thank you,

Kate Van Erck

From: Kathleen Baxter <kathyb7290@gmail.com>
Sent: Thursday, October 18, 2018 3:56 PM
To: Cass, Marc
Subject: No on the Mt. Etna Housing proposal

Hi, Mr. Cass,

I have lived in Clairemont, near the site of the proposed low-income housing development on Mt. Etna, for 15 years. Having seen the area grow and develop in that time, I can unequivocally state that there is no way 400+ apartments will benefit this part of Clairemont if situated in the proposed site. There is nowhere near enough space for that much additional traffic, let alone more people (foot traffic) in that area. The traffic along that section of Genesee and along Balboa is getting worse just with the new shopping areas that have been put in or refurbished in the last decade. More residents (400+ families and or individuals) will not benefit this community as much as they will burden the existing space and traffic resources. So many people in that one site will change this part of San Diego into a more crowded, unpleasant place to live.

Please take mercy on our neighborhood and reconsider the size of this project. You have great power to do great good here or great damage to people and their community.

Kind regards,
Kathleen Baxter

From: Kathleen Voltin <kvoltin@sbcglobal.net>
Sent: Wednesday, October 17, 2018 4:24 PM
To: Cass, Marc
Cc: jackson-Llamas@sdcounty.ca.gov; chriscare@sandiego.gov; mpangilinan@sandiego.gov
Subject: Clairemont Mt Etna affordable housing

Mr. Cass: Thank you for your recent scooping meeting with the Clairemont residents. You did the right thing to meet with us and to keep your comments brief and organized so that the residents had time to voice their concerns. I have been to several meetings with Clairemont residents and these meetings have been cordial and respectful. The meeting on Monday, Oct. 15, definitely was a different kind of meeting. There were many angry people there and I believe you listened to them. I did not talk during the meeting but many there expressed my concerns. Eden Yaege was your first speaker and I agree with what she said. There is a great need for affordable housing in San Diego and I am supportive of this, even in my community. It is distressing that such a huge project could advance so far and so quickly without community input. I appreciate you receiving our input now.

My biggest concern is the infrastructure; our plumbing is old. I was told the cast iron sewer and plumbing of most of the Clairemont community will not last much longer. Adding over 400 units to a small area will be a disaster for our sewer system. The project will have new plumbing but the neighborhood will suffer due to the increase demand. We can't even get our overhead lines buried and roads resurfaced so I can't believe that the city will fix our sewer system either. Getting the city to commit to upgrading the sewer system during the next few years will help address this concern. Your contractor might have other ideas to help address this concern.

As most voiced during the meeting I also have concerns for the number of residents that will occupy your 400+ units and the parking and congestion of traffic that will accompany these residents. One parking spot per unit is not sufficient. Public transportation requires excessive amounts of time so most people depend on cars and that would amount to over 800 cars if there are two adults to each unit; I am guessing there will be far greater numbers of people and cars. Each unit should have at least 2 parking spaces. Additionally, monthly transit passes should be available at a discounted price.

5 stories is not in keeping with the look and culture of the Mt. Etna neighborhood. 3 stories is more reasonable although it may still shade the neighbors too much.

I am also concerned about the chemicals used and waste that results with large projects. I hope that you can commit to recycling much of the deconstruction materials and to limit use of materials that put chemicals in the air such as carpeting, painting,etc.

Finally, I am a volunteer on the Clairemont Garden Tour committee so it makes sense that I value gardens and open spaces. You most likely will need to use every inch of the space provided but I hope that the neighbors who walk by the project will eventually see some beautiful gardens tucked into sections around the building. To construct your building right up to the sidewalk will not be a show of neighborhood spirit. Even small gardens along the perimeter of the building will be friendly.

Thank you, again, for meeting with the residents. I do hope you listen to us.

Kathleen Voltin
4652 Mt. Bigelow Drive
San Diego, CA 92111

From: Kathleen Winchester <kwinchester@san.rr.com>
Sent: Friday, October 12, 2018 3:28 PM
To: Cass, Marc
Subject: Mount Everest Project
Attachments: City Planners need to have a lesson in communities within a large City.docx

Dear Mr. Cass;

In regards to the project on Mount Etna. I have attached my own EIR concerning this project.

My first concern is that you research is faulty. I have personally found several mistakes in your research that is published.

It is also noted in the report things that are missing or overlooked in this research which concern public safety.

I wanted to get this off to you now. I am in the midst of evaluating the apartment complexes and Condo Complex on Balboa Arms Drive and their population saturation compared to what it is that you are proposing. Almost done.

There is more to come but the residents are very upset on what you are trying to do here.

Sincerely;
Kathleen Winchester
Donna and William Winchester
4972 Mount Frissell Drive
San Diego, CA 92117-4808
Also here are Jon, Jon Jr., Juliana Winchester and Gina Freitas Yes we are all under one roof.

From: kathy sebald <sebaldkathy@gmail.com>
Sent: Friday, October 19, 2018 5:18 PM
To: Cass, Marc
Subject: Mt Etna redevelopment

Dear Mr. Cass,
Please don't allow this project to go through. I have lived here 42 years and now I cannot even ride my bike to the Target shopping area safely. It's bad enough without adding high density housing.

5 Stories is too high-DO NOT CHANGE the current height restriction
-New high density plan will adversely affect near by schools that are already financially crippled due to repeated annual budget cuts
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING
-Density and low income demographics are associated with higher crime rates: The plan put forth has no extra safety measures to off set the possible increase in crime levels that will be a burden to local law enforcement.

Please consider these items when you make your decisions. You probably don't live anywhere near the area.

Thanks for your time and consideration.

Sincerely,
Kathy Sebald
sebaldkathy@gmail.com

From: Kathy <ksmith54@san.rr.com>
Sent: Friday, October 19, 2018 8:15 AM
To: Cass, Marc
Subject: no apartments and people that don't fit in should be in out area.

What a mistake to put the MT Etna housing in we are not a low class area and the traffic is so bad already and check out the traffic on Genesse ave at 4 PM it is like a freeway already and we don't need any more cars in this area.
They will not be welcome in this neighborhood and better think about trying to put apartments in our area like you are trying to force on us.
Kathy Smith
I bought a house here in 1960 when my husband was a building inspector for the city of San Diego. think about you forcing this on us is just not right put them in the mountains.

From: Kelley Zanfardino <kelley.zanfardino@gmail.com>
Sent: Friday, October 19, 2018 10:49 AM
To: HHSA, HCDS; Cass, Marc
Cc: Mark K. Zanfardino; Kelley M. Zanfardino; Eden Yaege
Subject: Input on the Mt. Etna EIR NOP

Hello Mr. Cass,

I understand that today is the last day to provide input for the Mt. Etna EIR NOP. I cannot find a place on the county-provided website re: Mt. Etna's proposed project, so my husband and I will submit our comments here.

- The noise and disruption created during construction will be detrimental to the current residents in this housing area, and of particular concern to those who are immediately adjacent and across the street from the proposed site. The current building on the site may have materials that could create significant health hazards, aside from an increase in dust and dirt that will be generated and may create breathing hazards for current residents who have sensitive respiratory conditions.

- Traffic is of great concern. The location of this project is in very close proximity to a busy street and a busy shopping center. There is already significant traffic at the Mt. Etna/Genesee intersection and having a large facility with the only entry/exit on Mt. Etna just past the intersection will create delays and gridlock while residents wait for a clear path to turn into the facility.

- Parking will be of great importance in a facility the size of which is proposed. There is already insufficient parking, creating a need for current residents to park not only in their driveways, but also on the street. With the estimated doubling of the number of residents in this area, parking on streets in the neighborhood will become nearly impossible, and when parents arrive to drop off or pick up their children from local schools that are in immediate proximity to the proposed site, poses increased risk to children who are attempting to enter or leave school property. Building a large facility without sufficient parking included in the building plan is foolish and irresponsible.

- As mentioned in the previous bullet, safety is of primary concern with a doubling of the number of residents in the area. Aside from the increased traffic that will (absolutely) occur, which will create safety concerns for children who attend the area schools, there also exists a potential safety issue for current residents of the area, which can only be determined upon review of the residents for the proposed project. Without an increase in protective resources, there is more than likely to be a negative impact on the surrounding community.

There is also the issue of how to respond to fire emergencies in a building that is five stories tall without access on all sides of the building. In particular, access on the West side of the building is inhibited by high-tension power lines, which will likely preclude reasonable emergency response in the event of a fire, particularly on an upper floor.

- The safety issues extend to the proximity of those high-tension wires, as well as the location of the high pressure gas line, both the property of SDG&E. In San Bruno eight years ago a pipeline exploded, killing eight people and injuring dozens of others. This was in a neighborhood with single-family homes, no high-density housing close by, and it was still a devastating event. Imagine the aftermath if such a gas line were to explode essentially underneath a project such as the one proposed.

- We are unclear about the proposed services that have been referred to in the scoping meetings. It seems that there are a number of reports about what, exactly, will be included in this project. There is talk of 464 units, as well as a community center, limited parking, green space, and other resources for residents that are in need of

community support. That seems to be a very ambitious agenda for such as small plot of land. The 4.09 acre lot may *seem* large, but it will quickly fill up with all the proposed options included. This does not seem reasonable and it appears that any reasonably necessary resources will be foregone in the interest of increasing unit count. This is unfair to the community and, even more so, to the potential residents of the proposed project.

- There is already a lack of green space in Clairemont, and imposing such a large project in a community that sorely needs open space is detrimental to the well-being of the community at large, including any proposed residents. Green space should be a priority in San Diego, where we have the great fortune of being able to enjoy the outdoors year-round. Increasing high-density housing will contribute to the heat-sink condition of an already over-concreted community.

- Any housing project in this area will more than likely increase the number of students who will attend area schools. There are five schools in the immediate area: John Muir Academy, Mt. Everest Academy, San Diego Charter School, High Tech High (set to open soon), and Holmes Elementary, which is the default school for this area. In addition, Marston and Kroc middle schools and Clairemont and Madison high schools, which also service this immediate community, will see an impact in student attendance.

The schools are not equipped to handle such a drastic increase in student attendance. There are insufficient classrooms and insufficient teaching staff to support such an immediate and significant increase. This will lead to fewer available resources for these schools and, as a result, a lower quality educational experience for our youth. It is important to the future of San Diego as a whole to ensure our youth have access to quality, consistent schools and resources within those schools.

- There is limited access into and out of the proposed site. This was mentioned in the bullet above regarding traffic, but it is a significant issue and should be addressed. To date, when it has come up, persons who are in position to addressed the topic have sat stoically and not offered any comment on how that will be resolved.

There is a single driveway onto a residential road, a short ½ block from a major traffic throughway. Potential residents of the proposed project must approach the facility either from Genesee or Mt. Everest. Approach from Genesee will result in gridlock through that intersection as residents wait for traffic to clear to turn left into the driveway. Approach from Mt. Everest will only contribute to the gridlock on Genesee as they turn right into the facility and contribute to the inability of others to turn left into the driveway. This is not only poorly thought out, but shows either a blatant disregard for the existing traffic dynamic, or a sorely inept evaluation of the suitability of the site for such a large proposal.

- An issue raised by current residents who are immediately adjacent to the site is a concern about the resulting lack of sunshine and privacy that the imposition of a large facility overlooking their backyards will afford. This alone will negatively impact home values in this neighborhood.

- Finally, but also significantly, based on all input that has been provided, the size and architecture is not in keeping with Clairemont's community character. It seems to be more aligned with locations that have fashioned themselves into destination locations for transitory lifestyles, such as UTC or Mission Valley. The current proposal seems to lean to a high-density, transitory population, in that such a significant rental facility will lend itself to a population that is not committed to the Clairemont community as it is structured.

Clairemont desires to retain and continue to cultivate a bedroom community in which middle-income families can set down roots and remain as children grow and parents become grandparents. High-population rental facilities are engendered to attract individuals who choose to move from the location when other opportunities, be it a new job or a less expensive/more desirable apartment, becomes available. Clairemont has historically been a comfortable middle-class bedroom community that seeks to attract long-term residents whose interest is to better the community they are in, rather than viewing it as a short term stop over while on the way to something else.

thank you for your consideration.

--

Kelley M. Zanfardino, SPHR-CA

From: Yukawa Kenzo <kenzozilch@hotmail.com>
Sent: Wednesday, October 17, 2018 5:37 PM
To: Cass, Marc
Subject: 5858 Mt Alifan Project

Mr. Cass,

I had to babysit our children and neighbor's children while my wife and the neighbor attended the project meeting the day before yesterday 10/15, so I was not able join the meeting, but my wife and the neighbor updated me on what was discussed: the scope of the project, building layout, and the concerns our neighbors in Clairemont community voiced.

I must say that I'm very disappointed and it was not fair that the project had never been communicated to me until Monday of this week 10/14, through a gentlemen from our neighbor knocking on our door with a handout detailing the project. I take this as a very serious issue raised in our community, and I'm sure I would have acted much sooner had I been informed. Although people in our community including my own family are "spreading the word" walking our neighborhood to post the handouts, there were many individuals not properly informed of the project.

I feel that the project brings only negative effects to our community, creating issues in parking and traffic. Also, as a parent of 3 small children, I am extremely concerned about the safety and morale of the community. I can never understand the intention (decision) of adding safety risk to our safe, quiet, and peaceful living environment. I believe the responsibilities of the county office/community governance group are to listen to the concerns of current residents, to maintain the existing living environment or to help build a better community, but this project is not fulfilling any of these responsibilities but rather contradicting them.

1) Please give a in-depth careful reconsideration to the project and do NOT make any residential building in our Clairemont community for people with various "issues" in such a small space. Again, this is jeopardizing safety of the existing residents of our community. Please rethink and make what's best for our community.

2) Please consider elsewhere for such a residential building and zoning. There are other areas in San Diego already made available for people with low income or the "problems" to live. And these area should first be considered as the best candidate. Creating a new residential area on top of what's already available would spread safety, traffic, and all sorts of issues, and it would be more difficult to contain the issues once they are spread all over. Considering the consequences, I would at first consider the existing area, the area that already serves for such needs or requirements.

Thank you,
Kenzo Y resident of Mt. Davis Ave.

From: Kevin Hardy <krhardy4438@gmail.com>
Sent: Friday, October 12, 2018 5:34 PM
To: Cass, Marc
Cc: ChrisCate@sandiego.gov
Subject: WHATTT!!

How can you possibly fit 454 family units with a height limit of 3 stories at 5255 Mt Etna Drive???

That's nuts.

This "urban in-fill" in Clairemont is disrespectful of the people and neighborhood.

No.

Kevin Hardy
Clairemont

From: Ciero, Kimberly <kciero@ucsd.edu>
Sent: Thursday, October 11, 2018 10:14 AM
To: Cass, Marc
Subject: Mt. Etna
Attachments: MtEtna.pdf

Attached.

Kim Ciero

From: Kim Kane <kkane@san.rr.com>
Sent: Thursday, October 18, 2018 9:33 PM
To: Cass, Marc; Kim Kane
Subject: Clairemont Mesa Community Plan Amendment and Rezone Project,,Case Number WT-4224097 --Public Comment

Clairemont Mesa Community Plan Amendment and Rezone Project

Case Number WT-4224097
Notice of Preparation Public Review Period
September 10, 2018-October 19, 2018
Public Scoping Meeting Comment Sheet

Marc Cass
County of San Diego
Dept. of General Services
5560 Overland Ave
San Diego CA 92123
marc.cass@sdcounty.ca.gov

Written Comment Form:

I am unclear on why the people in charge of this project seem to be in a rush to get this project completed so quickly, and it comes at the expense of the residents in this area. Also, there is an error on page 2 of the Notice of Preparation of an Environmental Impact Report for the Clairemont Mesa Community Plan Amendment and Rezone Project it says comments are to be received "… no later than Tuesday, October 19, 2018 at 4:00 p.m." since Tuesday is October 16th, I hope this meant Friday October 19th.

On October 15, 2018, I attended the 2nd scoping meeting at Marston school in Clairemont. I am homeowner who lives approximately 6 blocks from this location. I have questions and concerns about the proposed "affordable housing" development on Mt. Etna Drive. I walk past this property every day.

At the meeting, I learned that the plan for this property was to build 454 units, and to do this the county/city would need to rezone the property from commercial to residential and to allow the developers to build 5 stories high approximately 60 feet high. I oppose the density of this complex at an already congested intersection. I also oppose the 58 foot height of the proposed buildings. This would look out of scope in our neighborhood. The project should keep with the current 30 foot standard for our area.

According to the information provided, the potential residents slated for this complex range from people with substance abuse problems, people who are or are close to being homeless including seniors, domestic violence victims and families, and people with brain injuries. While I agree these people all need housing, is putting them all in one location the best option? Has this been done at other complexes and has it been successful? Or would it be better to have half of the units for people who are currently in the workforce?

Adding 1,000 or more people to the 4 acre site would be a huge impact on our community. This could add 400-800 cars to an already busy intersection at Mt. Etna and Genesee and the surrounding area. A development like this would tax our already fragile water infrastructure. The large power lines that run right behind the proposed

development may be a health and safety hazard to the occupants of the building, along with the gas smell that has always been emitted from the Mt. Etna side of the property.

Questions:

- Will there be onsite security for the building?
- Will there be 24/7 onsite mental health services for the residents in the building?
- Will there be green space for residents to walk or sit in?

Suggestions:

- The density of this complex is too much for this already crowded intersection. Build 100 units. Include 48 units for people currently in the workforce and the rest for "affordable housing" and include 2 units for people who work in the mental health field and have skills that will make this development successful.
- Have on-site social services, including mental health services for the residents of the complex. Similar to what they did with the development in downtown on 6th and Cedar.
- According to the "Affordable Housing and Site Assessment Summary Table" it seems there are other properties on that list that could be used for the various groups of people the City/County has proposed serve at this one site. And this document recommends 118 units at this location which seems more realistic.

I would like to see this project be a success for both the tenants in the complex and the community.

Thank you,

Kim Kane
4826 Mt. Elbrus Drive
San Diego CA 92117

From: peoriakims@aol.com
Sent: Friday, October 19, 2018 2:02 PM
To: Cass, Marc
Subject: Mt Etna homeless project

Dear Mr. Cass,

I'm writing this letter to express my utter displeasure regarding the potential homeless project on Mt Etna. This is a much bigger issue than a housing project. Our state government has allowed our homeless population to double or triple in size. It's disgusting how our city and state cannot come up with a plan other than to just let the population grow and then our bankrupt city agrees to pay for their housing.
The police can't do anything as their hands are tied.
Furthermore, this housing complex is near the busiest shopping center in Clairemont, near 5 schools and there is no legitimate parking available for the new tenants. Where are they parking their vehicles!!!?? Will we have more police presence to watch over this area???
My family is completely and utterly against this housing project coming into our peaceful suburban life.
Kim Sierens
Concerned Clairemont Resident

Sent from Yahoo Mail for iPhone

From: Kris Nieder <nieder.kris@gmail.com>
Sent: Thursday, October 18, 2018 1:17 PM
To: Cass, Marc
Subject: Oppose proposed zoning changes on Mt. Etna

Dear Marc Cass:

As a longtime resident of the Clairemont and Bay Park area, I strongly oppose the rezoning changes proposed for the Mt. Etna/Crime Lab location in Clairemont. The developers have built smaller low income housing projects in other neighborhoods. A similar 140 unit development would be a much better fit for this area. It would improve the quality of life of the development residents. Based on resident complaints from other apartments in the area, four hundred units will significantly increase the potential for noise complaints, traffic and parking issues, theft, mold and ventilation issues, and vermin. Exceeding the current zoning is not good for the current neighborhood or future residents.
Sincerely,
Kris Nieder

--
Kris Nieder, M.Ed.
Director of Youth and Intergenerational Ministries
St. Mark's United Methodist Church, San Diego
619-708-6445

From: Ellis, Krista <krista.ellis@aecom.com>
Sent: Tuesday, October 16, 2018 9:41 PM
To: Cass, Marc; Mays, Jody; Fisher, Yara; KBlackson@esassoc.com; Murillo, Felipe; Estrella, David; Jackson-Llamas, Angela; Murphey, Erin
Subject: Clairemont: Residents oppose affordable housing project - The CW San Diego - News 8

http://www.thecwsandiego.com/story/39291824/clairemont-residents-oppose-affordable-housing-project

Krista Ellis

From: limask@juno.com
Sent: Thursday, October 18, 2018 7:58 PM
To: Cass, Marc
Subject: Mt. Etna Project

Dear Mr. Cass:,
I am sure you are getting tons of emails about this project, but wanted to add my thoughts. I will keep it brief.
1. I think that whatever is built it should stay within our Community guidelines i.e the 30' height limit and density requirements.
2. That location is an established community with MANY elderly living out their final years. If the project would give first consideration to the expanding elderly population that have now found themselves on the street, I would be very much in support. Targeting homeless that have put themselves on the streets due to their own decisions would be targeting the nearby population to much criminal activity. Since I work for the SDPD, I have access to Crime stats, which are actually available to most..
3. Someone has proposed a new site in Mira Mesa, on the old ball fields. I looked at that site and I really think that bit space and surrounding areas would fit the proposed project much better.
Thank you for listening.
L. Maskovich
Mt. Castle Avenue

From: Joe <jcook3@san.rr.com>
Sent: Friday, October 19, 2018 10:16 AM
To: Cass, Marc; chriscate@sandiego.gov
Subject: Mt. Etna Project

Dear Mr. Cass and Mr. Cate,

I am sure you are getting overwhelmed with letters concerning the redevelopment project for the Mt. Etna Crime Lab property. Here is another. My name is Laura Cook and I live on Mt. Davis Ave. My husband and I purchased our house in 1992. This was an important decision for us because we had two young children to raise. Our house was a "fixer upper" but we knew we wanted to be in this highly desirable neighborhood. Twenty six years later we are still here. We have made dear friends, as have our now adult children. We have fabulous neighbors and we have an awesome community. Several times a year our neighbors get together for what we call a Sit. We gather in my neighbor's driveway, have a potluck and enjoy each other's company. Every couple of years we have bigger block parties. Our neighbors are our friends, our family. We watch out for and take of each other. I personally have taken care two elderly neighbors when their spouses passed. It is a safe, quiet neighborhood that is still highly desirable. Clairemont has recently been named the "Next Hot Neighborhood" by San Diego Magazine. We have many new younger home owners with young children, desiring the same thing that we did when we bought our home. Some of our younger neighbors/friends have already stated they will put their houses on the market if the Mt. Etna Proposal goes through. It's heartbreaking. Clearly this cannot be in the best interest of our neighborhood.

I understand that there is a housing issue in San Diego. I also understand that the Mt. Etna site and its surrounding area, cannot support this 400 plus unit project. The proposal to rezone that property and put in the suggested HUGE development is ridiculous. This would bring in 1,000 to 2,000 more people. The number of residents would DOUBLE. Not to mention the cars. Where will they park? Our neighborhood streets would catch the overflow. Currently our streets can't even be repaired in a timely manner or done properly. Slurry coating does not solve the problem. The additional stress on the infrastructure would be overwhelming - especially on our streets that are already in bad shape and crowded. Then there's the traffic safety issue. We already have traffic. Imagine what this would do. The amount of people that take short cuts through our neighborhood already would dramatically increase. Right now the number of cars cutting through Mt. Davis and Mt. Culebra to avoid Balboa and Genesee is high. Rarely do these cars stop at signs or move safely through our neighborhood. Our neighborhood is filled with young children playing, seniors and others walking their dogs and many residents, including myself, out to get some exercise. It can be dangerous as it is stands now.

From what I understand, this project was introduced with the promise of educating Clairemont residents with their plan. There has been very, very little to no education on the proposal. Zoning is also potentially being changed without going through the proper review process. The zoning laws were put in place for a reason. How can this happen? People are angry. Most neighbors I have talked to didn't know about the plan and feel we have been bamboozled and lied to. Rumors are flying.

I want to make this clear that this is not an attack on low income residents. This is a concern that is changing one problem into an even bigger one.

I am asking that you put the brakes on this project. By size alone it is a disaster for our community. This property is very desirable and I know the county would like to do something with it. I am sure there are many options. But there are many things that need to happen before moving forward. Traffic studies would be a good start. Communication is another. I want to see Clairemont continue to be a desirable, peaceful community with controlled growth.

Thank you your consideration.

Laura Cook

From: selajolla@aol.com
Sent: Thursday, October 18, 2018 8:47 PM
To: Cass, Marc
Cc: ChrisCate@sandiego.gov; nwaney@plattwhitelaw.com
Subject: Mt . Etna Project

October 18, 2018

Marc Cass, County of San Diego, Department of General Services
Chris Cate, District 6 City Council Member, San Diego City Council
Naveen Waney, Chair, Clairemont Community Planning Group

Hello,

My name is Laura Silance. I live at 4442 Mt. Herbert Avenue. I have lived in this Clairemont neighborhood for most of my life.
I started kindergarten at Hans Christian Anderson, went to Hale Jr. High School for Middle School and onto Madison High School. I have raised and schooled my own 3 children here in Clairemont.
This has been a wonderful, safe and active neighborhood full of dog walkers, excercise/walkers, and joggers with a great Little League park on Mt. Etna which is often full of children playing Fall and Spring ball.
Many young professionals are beginning to move into the neighborhood to raise their own children as they see this as a safe and vibrant, attractive for many reasons area to raise their children.
Its a great place to live!

I attended the Public Scoping Meeting on Monday, October 15, 2018 and was **alarmed** to learn of the proposed plans for the old Clairemont Hospital/former SD County Crime Lab site!
It is obvious that something needs to be done with this site but a 400 plus unit, 5 story building is just way to large a project for this area.
I'm afraid that the impacts to our neighborhood should this project as stated go through would only be negative with horrendous and unsafe traffic resulting on Mt. Etna.

Please note that I am extremely **opposed** to the amendment of our Clairemont Community Plan (CPA) to allow the building of this 5 story,400 plus units. I am opposed to rezoning this area.
I also wish it to be noted that I **oppose** this project.

Please work within the set zoning and come up with a better plan for this space.

Thank you,

Laura Silance
4442 Mt. Herbert Avenue
San Diego, CA 92117
858) 248-3619

From: Lauren Kane <laurengwilkinson@gmail.com>
Sent: Thursday, October 18, 2018 11:26 AM
To: Cass, Marc
Subject: Mt. Etna Project Opposition

Mr. Cass,

I was given your email address through a community group in Clairemont Mesa. I am a homeowner in this neighborhood. I write to express my opposition to the proposed housing project on Mt. Etna and Genesee. If not well thought out it will have a detrimental effect on the quality of life here. I understand there is a state-wide housing crisis; however, I do not understand why the proposed development is for low/extremely low income occupants. The only reason I can think of is that the developer would be granted more subsidies. In any case, the project needs to be stopped.

Thank you.
Lauren

--
Lauren G. Kane, Esq.
Attorney at Law
Telephone: (619) 997-2658
LinkedIn: http://www.linkedin.com/in/laurengwilkinson
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From: Lauren Greenfield <laurengreenfield83@gmail.com>
Sent: Monday, October 15, 2018 2:34 PM
To: Cass, Marc
Subject: 5255 Mt. Etna Drive Proposed Project and Zoning Change

Dear Marc,

I am contacting you today as a concerned homeowner, taxpayer, and mother. I am OPPOSED to the zoning change for the 5255 Mt Etna Drive (Former Crime Lab) project.

I have lived in this community for 10 years. In the past three years there has been at least seven new young families that moved onto my street alone. We have created a tight family neighborhood that is safe for children to grow up in. I have an 8-month-old and a 2 ½ year old. Here are the reasons I am against the zoning change.

They want to put 454 units with a half a parking space per unit which is completely inadequate. With only 227 parking spots available, the only other place to park is on the nearby residential streets. This is going to create extreme congestion on our streets and an unsafe neighborhood for our children. The designated tenants of the building are going to be persons at risk with serious mental illness or substance abuse issues, HIV/AIDS infected persons, at risk youth, and survivors of domestic abuse. These people will be living 2 tenths of a mile away from our elementary school. How can I trust that my child can walk home safely living amongst this type of population? How is it ok to let this developer put this population here when the city won't allow for a cannabis dispensary or a sex offender in this close of proximity to a school.

We live in a middle-class neighborhood and work very hard for what we have. This would create extreme overcrowding in this area. They zone residential neighborhoods for a reason and it is not okay to let the city or county just come and change that.

Apparently, the county considers this area a transportation hub. They couldn't be more wrong. An analysis was done earlier this year that determined the transit in this area was fair/poor.

There are other options for this building that would benefit the community. How about a memory care or Housing for senior citizen? There's shopping and a medical facility nearby specifically for that population. This would also create less traffic and parking issues and it would not put a significant risk to our neighborhood.

There DO NOT need to be so many units in this development. It is not good for the community. Please hear our concerns and do not change the zoning from discretionary to ministerial. Thank you for your time.

From: Liljana Hristova <lile_hr@hotmail.com>
Sent: Friday, October 19, 2018 10:00 AM
To: Cass, Marc
Subject: AGAINST Mt. Etna Development

Hello Mr. Marc Cass,
As a resident in the Mount Streets area of Clairemont and having two young girls attending Mt. Everest Academy, I **strongly object** to the Mt. Etna Rezoning and Proposed Development.
My reasons for this objection are many and they include:

1. Mt. Everest Academy is an open campus, and placing a high concentration of developmentally disabled people as well as people with brain injuries might result in a **catastrophe at this school** or near the school where students walk, bike, and eat lunch. I vote for NO ADULTS WITH DEVELOPMENTAL DISABILITIES or BRAIN DAMAGE so close to a K-12 school. I also vote for NO ADULTS WITH CRIMINAL RECORDS so close to a K-12 school. These people need to be in an institution that will take care of them.
2. The proposed height and number of units will burden the area visually, with traffic, and with crime. I vote for NO CHANGE IN ZONING!
3. My property value and quality of life will be reduced.

Proposal from me:

Build a nice library at the site that everyone will enjoy. Clairemont doesn't have a nice library.

I hope you take my input seriously.

Liljana Hristova
(concerned resident and homeowner of Clairemont)

OBJECTIONS TO AFFORDABLE HOUSING PROJECT IN CLAIREMONT CRIME LAB SITE

OBJECTIONS

1. Object to changing the process from residential to ministerial so that the residents of the community, including the Clairemont Town Council and the Clairemont Community Planning Group are cut out of the planning process. I am against a Community Plan Amendment that would increase the height and density and allow for a multifamily residence on that site.

2. Object to the incredibly swift way all of this was done without any input from the community until the very last minute.

3. Object to having "at least 50% of the units" dedicated to persons with serious mental illness, substance abuse problems, homeless, domestic abuse survivors (statistics show the latter return to their abusive partners at a high rate which would be a safety issue for all); although it is indicated there will be some housing for veterans and seniors. At this rate, it has the potential to be another Chicago Cabrini Green situation, which, as you know, had to be destroyed due to all of the crime and drug issues and the tenants not taking care of their units.

ISSUES

1. Traffic: The traffic on Balboa and Genesee is almost gridlocked at the present time during the early to mid mornings, lunchtime, late afternoon and in the evening between 5 PM to 7 PM. The entrance to and from your proposed project will force traffic onto the residential side streets causing a backup up on these narrow residential streets as cars try to make their way onto Genesee or Balboa. You also have Mt. Everest Academy traffic with parents dropping and picking up the students as well as faculty coming and going. A little further down Genesee will be a large amount of traffic connected with the opening of the new Charter School on Mt. Alfian with a large number of students being dropped off and picked up including a large number of faculty

arriving and leaving. You are setting up extremely Dangerous traffic conditions.

2. High Density.

a. When the hospital was there, it was deemed that places for 130 persons was the maximum. You are going way beyond that with a proposed 454 units which has the potential to increase the residential capacity anywhere from 900 to 1,400 persons in this small fairly compact area is scandalous. You are simply warehousing people.

b. There is no planning for increased school attendees. The neighborhood elementary school is filled beyond capacity at the present time.

c. There is insufficient planning for parking spaces; ½ space per unit. In this day and age, even those in affordable housing have cars (just look at the large number of parked cars/traffic on Mt. Alifan by the Stratton BEFORE the 54 new affordable housing apartments are added).

d. There is no planning for any park or green space as part of this project. The residents aren't going to stay inside their units, they will be "hanging out" in the surrounding residential areas.

e. There is no planning to build a new library; Balboa is outdated and small.

f. There is no planning for the increase of water pressure in an area that is already experiencing low water pressure at times. Last year, many of us in surrounding neighborhoods had to upgrade our water pressure gauges. Accordingly, there is no plan to handle increase in sewage usage.

g. There are SDG&E power lines directly overhead the area being considered which is unsafe.

3. Insufficient Public Transportation: The area where the Crime Lab is situated is only listed as fair for public transit usage. Even if you wanted to add more buses, the traffic is too impacted to even do so.

4. Clairemont Doing Their Fair Share: In the immediate area on Mt. Alifan is the Stratton that has 312 units and a multitude of crime and

safety problems. Across the street on Mt. Alifan will be the new 54 unit low-income apartments. In addition, we have Sorrento Towers on Cowley Road, which is a low-income apartment complex of 198 units for low-income seniors and those with disabilities. So, within an approximate 4.5 mile radius there are already 564 low income housing units. What statistics do you have to show that Bay Park, Bay Ho, UTC, La Jolla, are doing their part to house these populations at the same level as is currently the case in Clairemont.

a. In the Morena Corridor Area where a large number of residences are to be built; there will not even be 10% designated for low income.

b. In the area near Overland, near your own county offices, there have been approximately 800 units built in the past couple of years and there were not any designated for low income.

c. In UTC directly adjacent to the huge transit terminal that would be ideal for public transportation usage, there are no units designated for low income.

d. In the Midway district, at the site of the old post office which is county property, that property is being developed so as to Revitalize the neighborhood; no proposals to build any low income housing, even though this area is designated good to excellent for transportation and is near welfare facilities and shopping.

MITIGATIONS

Traffic: There is no way to mitigate this unless you start tearing down some of the businesses and residences on Balboa and Genesee to widen the roads. That would be total decimation of a community.

Transportation: There is no way to mitigate this because no more buses could be added as there is just no more room for increased bus traffic on the roads unless you tore down businesses and residences to widen both Genesee Road and Balboa Avenue.

Schools: You would need to find property to build a new elementary school.

Library: You would need to build a new library on the existing space where the Balboa Library branch is located.

PROJECT ALTERNATIVE LOCATION

The ideal alternative would be where the old Post Office property is located. It is excellent for transportation, near welfare services and near a myriad of shopping facilities.

CRIME LAB ALTERNATIVE PROJECT

An upscale mixed use facility to continue revitalizing the Clairemont Community. This revitalization began with the upgrading of the Kohls shopping center. We need a facility that maintains the number of cars that were used by those who worked at the Crime Lab so the traffic does not become any worse. We also need a facility that does NOT require ANY REZONING to the area and does not change the current community plan.

From: Linda Lansville <linlarlon@gmail.com>
Sent: Thursday, October 18, 2018 2:40 PM
To: Cass, Marc
Subject: Highrise @ Mt Edna & Genesee

Mr. Cass,

As a close neighbor to the subject proposal, it was
a very recent surprise to learn about all of this out of nowhere. Was that intentional? Placing that many people in that small of a area is absolutely ridiculous. Parking and congestion are never addressed and certainly how the current community feels is not a concern of the builders or the city. They don't care!

Is this another case that the law doesn't apply to builders but does to community neighbors?? We have to adhere to a height restriction but new projects can change anything they want anytime they want?!

Safety is a very important issue that is currently not a problem. Bringing that many people into a tall structure cannot eliminate safety concerns and that is very worrisome. There are children and many, many seniors that have lived and raised their children here. Again, that's a risk that the builders and the city obviously aren't concern about. This neighborhood and Clairemont are doing well just as is. Why mess with a great thing?

As a current homeowner, this project , in fact needs to be stopped. This is not the location for such an undertaking in an already crowed location!

Linda Lansville
5086 Mt. Gaywas Dr.
SD 92117

From: limask@juno.com
Sent: Thursday, October 25, 2018 12:20 PM
To: Cass, Marc
Subject: Mt. Etna Project

Please don't file this email under NIMBY-Alert.
That is not the case. We care about our community and DO want to see good projects, but Mt. Etna is NOT one of those.
It violates the Community Plan and Zoning for the site. It exceeds density being to big, not commercial and is proposed to exceed the 30' height limit.
Aside from the fact that Clairemont already supports more of these housing projects than most other communities.
Mira Mesa has a wonderful site on the old ball fields that fit the requirement of size, zoning, community access.
Please hear the community, we are growing stronger each day.
Linda Maskovich
Clairemont resident

From: Alex <alex612@earthlink.net>
Sent: Saturday, October 6, 2018 9:52 PM
To: Cass, Marc
Subject: Comments regarding Crime Lab Site in Clairemont
Attachments: affordable housing rebuttal.pdf

Thank you for considering these comments, I appreciate it. Linda

OBJECTIONS TO AFFORDABLE HOUSING PROJECT IN CLAIREMONT CRIME LAB SITE

OBJECTIONS

1. Object to changing the process from residential to ministerial so that the residents of the community, including the Clairemont Town Council and the Clairemont Community Planning Group are cut out of the planning process. I am against a Community Plan Amendment that would increase the height and density and allow for a multifamily residence on that site.

2. Object to the incredibly swift way all of this was done without any input from the community until the very last minute.

3. Object to having "at least 50% of the units" dedicated to persons with serious mental illness, substance abuse problems, homeless, domestic abuse survivors (statistics show the latter return to their abusive partners at a high rate which would be a safety issue for all); although it is indicated there will be some housing for veterans and seniors. At this rate, it has the potential to be another Chicago Cabrini Green situation, which, as you know, had to be destroyed due to all of the crime and drug issues and the tenants not taking care of their units.

ISSUES

1. Traffic: The traffic on Balboa and Genesee is almost gridlocked at the present time during the early to mid mornings, lunchtime, late afternoon and in the evening between 5 PM to 7 PM. The entrance to and from your proposed project will force traffic onto the residential side streets causing a backup up on these narrow residential streets as cars try to make their way onto Genesee or Balboa. You also have Mt. Everest Academy traffic with parents dropping and picking up the students as well as faculty coming and going. A little further down Genesee will be a large amount of traffic connected with the opening of the new Charter School on Mt. Alfian with a large number of students being dropped off and picked up including a large number of faculty

arriving and leaving. You are setting up extremely Dangerous traffic conditions.

2. High Density.

a. When the hospital was there, it was deemed that places for 130 persons was the maximum. You are going way beyond that with a proposed 454 units which has the potential to increase the residential capacity anywhere from 900 to 1,400 persons in this small fairly compact area is scandalous. You are simply warehousing people.

b. There is no planning for increased school attendees. The neighborhood elementary school is filled beyond capacity at the present time.

c. There is insufficient planning for parking spaces; ½ space per unit. In this day and age, even those in affordable housing have cars (just look at the large number of parked cars/traffic on Mt. Alifan by the Stratton BEFORE the 54 new affordable housing apartments are added).

d. There is no planning for any park or green space as part of this project. The residents aren't going to stay inside their units, they will be "hanging out" in the surrounding residential areas.

e. There is no planning to build a new library; Balboa is outdated and small.

f. There is no planning for the increase of water pressure in an area that is already experiencing low water pressure at times. Last year, many of us in surrounding neighborhoods had to upgrade our water pressure gauges. Accordingly, there is no plan to handle increase in sewage usage.

g. There are SDG&E power lines directly overhead the area being considered which is unsafe.

3. Insufficient Public Transportation: The area where the Crime Lab is situated is only listed as fair for public transit usage. Even if you wanted to add more buses, the traffic is too impacted to even do so.

4. Clairemont Doing Their Fair Share: In the immediate area on Mt. Alifan is the Stratton that has 312 units and a multitude of crime and

safety problems. Across the street on Mt. Alifan will be the new 54 unit low-income apartments. In addition, we have Sorrento Towers on Cowley Road, which is a low-income apartment complex of 198 units for low-income seniors and those with disabilities. So, within an approximate 4.5 mile radius there are already 564 low income housing units. What statistics do you have to show that Bay Park, Bay Ho, UTC, La Jolla, are doing their part to house these populations at the same level as is currently the case in Clairemont.

a. In the Morena Corridor Area where a large number of residences are to be built; there will not even be 10% designated for low income.

b. In the area near Overland, near your own county offices, there have been approximately 800 units built in the past couple of years and there were not any designated for low income.

c. In UTC directly adjacent to the huge transit terminal that would be ideal for public transportation usage, there are no units designated for low income.

d. In the Midway district, at the site of the old post office which is county property, that property is being developed so as to Revitalize the neighborhood; no proposals to build any low income housing, even though this area is designated good to excellent for transportation and is near welfare facilities and shopping.

MITIGATIONS

Traffic: There is no way to mitigate this unless you start tearing down some of the businesses and residences on Balboa and Genesee to widen the roads. That would be total decimation of a community.

Transportation: There is no way to mitigate this because no more buses could be added as there is just no more room for increased bus traffic on the roads unless you tore down businesses and residences to widen both Genesee Road and Balboa Avenue.

Schools: You would need to find property to build a new elementary school.

Library: You would need to build a new library on the existing space where the Balboa Library branch is located.

PROJECT ALTERNATIVE LOCATION

The ideal alternative would be where the old Post Office property is located. It is excellent for transportation, near welfare services and near a myriad of shopping facilities.

CRIME LAB ALTERNATIVE PROJECT

An upscale mixed use facility to continue revitalizing the Clairemont Community. This revitalization began with the upgrading of the Kohls shopping center. We need a facility that maintains the number of cars that were used by those who worked at the Crime Lab so the traffic does not become any worse. We also need a facility that does NOT require ANY REZONING to the area and does not change the current community plan.

From: lisa nordquist <atonefitness@yahoo.com>
Sent: Friday, October 19, 2018 2:18 PM
To: Cass, Marc
Cc: chriscate@sandiego.gov
Subject: Mt. Etna Housing Project

Hello Marc,

My husband, I and our two children are residents of Clairemont--very nearby the proposed Mt. Etna low income housing project. My husband Doug is a local small business owner and I have been a very active parent at our daughter's schools, Holmes & Marston Middle, for 9 years.

We have worked very hard, spent countless hours, and donated thousands of dollars to make Clairemont a great community. Together, with thousands of others, we have contributed to make this a thriving place to of business and a wonderful place to raise children or retire.

The Clairemont community has finally started to see a return on our investment: families are staying in the Clairemont school cluster, property values are increasing, and more quality retailers are moving into our community or making improvements to local shopping centers.

I know (personally) that I speak for hundreds of families when I say **this project is a threat everything we have worked for for decades**.

There is no secret as to why we say this. We all know the reality of a high volume housing project like this: higher crime rates, more drug use, increased mental illness, more traffic, over crowed classrooms, higher school delinquency rates, and so on. Overall, **this development places more stress on our community, which is already bearing the financial burdens of the middle class, including increasing taxes of all kinds, a lack of Title I funding at our schools, and thousands of low income housing units.**

That's right! **Clairemont Mesa already has 15 low income housing apartments**. (Diane Apts, Elivia Apts, Pacific Sands Apts, La Casa Balboa, The Stratton, Bayview Apts, Coral Bay Apt, Cerro Pueblo Apts, Park Genesee Apts, Crandall Apts, Mesa Vista, Barclay Sqr, Riviera De Ville--should I keep going?) We are doing our part in hosting low income families, seniors, and mentally disabled.

Furthermore, I understand there are *no improvements to infrastructure, schools, roads*, etc., and that the Clairemont Community Planning Group will be ousted from partaking in submitting project feedback. How can this be?

As the daughter of a residential and commercial real estate developer, I am familiar with some of the processes of housing and development. I am well aware that this project is likely a displacement for low income housing from another community--a high end development or community in La Jolla or the like that is being passed down to we middle class residents of Clairemont. NOT FAIR!

I know this project can go to any other number of places **without** requiring such heavy rezoning, building code changes, or **negative residential/community impacts and blatant disregard for voters' desires.**

We are a tight knit community and we will fight to keep the Clairemont we have built.

Thank you for your time.
Lisa & Doug Johnson

From: Michael Early <tmikee@sbcglobal.net>
Sent: Thursday, October 18, 2018 12:51 PM
To: Cass, Marc
Subject: Mt. Etna low income apt

Hello,
I'm writing this as a concerned resident on the Mt. streets in Clairemont.
Please consider this low income housing project in Clairemont to be too overwhelmingly big for his area.
This is not the right site for a project like this because of traffic increases to an already busy traffic area, our property values being jeopardized, crime increase in a neighborhood with schools and young children so close by, and no supervision for the persons being considered to live in this project.
I am opposed to this project.
Sincerely,
Lisa Early

From: Lori Chapin <lorichapin54@gmail.com>
Sent: Thursday, October 18, 2018 10:24 AM
To: Cass, Marc
Cc: Lori Chapin
Subject: Public Comment for: Clmt Mesa Community Plan Amendment & Rezone Project: Case No.: WT4224097

Marc Cass, County of San Diego, Department of General Services
Chris Cate, District 6 City Council Member, San Diego City Council
Naveen Waney, Chair, Clairemont Community Planning Group

Hello all,

My name is Loraine Chapin. I live at 4252 Mt. Foster Avenue. I have lived here for 30 years. I raised my two children in this quiet, wonderful and family oriented neighborhood. They attended Holmes Elementary, Marston Middle School and Clairemont High School. I know my neighbors. We are a close knit community. We look out for each other, our homes, our children, our seniors and our beloved Tecolote Canyon. We have annual block parties and spontaneous driveway BBQ's. It is the perfect neighborhood to raise a family. It is quiet, safe and close to good schools, shopping and houses of worship. I walk my neighborhood regularly at all times of the day. I have walked as late as midnight and as early as 7 AM. I have never felt unsafe. It is my home. I am pleased to see many new families moving into the neighborhood with children or with dreams of having children and raising them here. Unfortunately, the tranquility, peacefulness and safety of our neighborhood is at risk.

On Monday night, October 15, 2018, I attended a "public scoping meeting" at Marston Middle School for the above referenced item to rezone the ~ 4 acre parcel where the Sheriff's Crime Lab now sits. It was formerly (before I moved to the neighborhood 30 years ago) the Clairemont Hospital. Now there is a proposal to amend our community plan to permit a development, the size and scope of which are totally out of character and unnecessary for our neighborhood community. T

I send these comments and observations to voice my STRONG OPPOSITION to the amendment of our Clairemont Community Plan (CPA) to allow the construction of a 5 story building containing 450 units. Specifically, I was informed that the request to amend the CPA was initiated by the County of San Diego. In fact, the County sent a RFP to developers with the proviso to "assume" the requested zoning had been achieved. As such I heard from Chelsea representatives, the developers who were selected pursuant to this RFP, a description of the superstructure proposed for the site. Quite frankly I find this appalling. The RFP process is expensive and laborious. To include any statement about zoning changes NOT YET made in the description of the project to be bid upon is not only an audacious act but a waste of taxpayer funds.

I am also very concerned that I am now required to provide comment by tomorrow (October 19, 2018) for a project I just learned about. I don't know how the County has been noticing this significant impact to the character of our neighborhood. I learned about it from a neighbor who heard something from another neighbor. At the meeting I was given a summary of activity to date written by Karen, a community member I have not yet met. That will change. The existence of this project as well as its size and scope are now spreading like wildfire and all of my neighbors are just as angry, confused and surprised as me. I encourage you to put the brakes on this project. A project of this size, scope and magnitude warrants more community input. Plus, it is difficult to

provide “meaningful” comments to a project which was presented to the community on Monday night, three days ago.

That said, here are my comments:

1. The project is too big for our neighborhood. We are a community of 300 single family residences. This project would add 450 more units. This more than doubles our density. Our infrastructure can’t handle this. Our streets can’t handle this. We are already a pass through for motorists heading east on Balboa to avoid the light at Balboa & Genesee. They make a left on Mt. Culebra and then make a right on Mt. Davis and then another left on Mt. Etna to Mt. Herbert where they make a right to get to Genesee. It is often a steady stream.

2. There is only one entrance/exit to this property on Mt. Etna very close to Genesee and across from the main entrance/exit to the shopping plaza housing Little Caesars, restaurants and Sharp Senior Care. This poses a serious safety concern should there be any emergency.

3. Mt. Etna is already conjested at this area. Traffic is often backed up at the light at Genesse and Etna.

4. Down the street on Mt Etna is the John Muir Academy. Formerly, Anderson Elementary, this school is currently increasing its enrollment bringing more traffic to the neighborhood.

5. Horizon located on Genesee is now the site for High Tech High. The freshman class is moving in this year. Over the next 4 years the other grades will be moving in. This is additional stress on our traffic.

6. A 5 story super structure is totally out of character for our community. We do have the one building on Balboa and it is an eyesore. I don’t think it is filled.

7. Of the ~ 450 units proposed in this project “50% would be set aside for seniors, persons with disabilities, persons with serious mental illness or substance abuse problems, persons with HIV/Aids, military personnel and veterans, at risk youth, survivors of domestic violence, persons who are homeless or at risk of homelessness, transition age youth, and families in need.” These are important groups. Our community needs more time to assimilate just what the County is proposing for this very small site.

8. The development is more units per acre than any previous development of Chelsea according to their presentation on Monday night.

9. The public transportation in this area is dreadful. It always has been. Bus rides can take hours with numerous changes. This is certainly not conducive to seniors who no longer drive.

10. While at the meeting on Monday night, neither the County officials nor Chelsea Representatives provided answers to the numerous and valid questions posed by the clairemont Community members in attendance.

1i. I don’t know who is driving this train but it looks as if it has left the station without a conductor. I encourage reasonable minds to put the brakes on this project. There were several other sites suggested which offer better public transportation, ingress & egress and a greater compatibility for this project.

Be assured, I plan to attend all future meetings concerning this project. I realize the county would like to do something with this project. This, however, is not the appropriate solution. As a thought, what about a park or open space? This would be far more desirable .

Thank you Chris Cate for attending the meeting. It seemed you were concerned about the scope, noticing and rush of this project. I know your position as a Council Member precludes you from support one way or another.

I have seen you, however, to be a big believer of “getting the issue out in the open for discussion.” I would encourage you to do what you can to bring to the light of day “everything" that is going on with respect to this project and any attempt to rezone or amend our community plan to allow this.

Thank you for your consideration.

Loraine Chapin
4252 Mt. Foster Avenue
San Diego, CA 92117
lorichapin54@gmail.com
(858) 342-3795

From: Loren Fink <lpfink@gmail.com>
Sent: Friday, October 19, 2018 10:27 AM
To: Cass, Marc
Subject: Fwd: Mt. Etna Affordable: EIR Comment

Hi Mr. Cass,

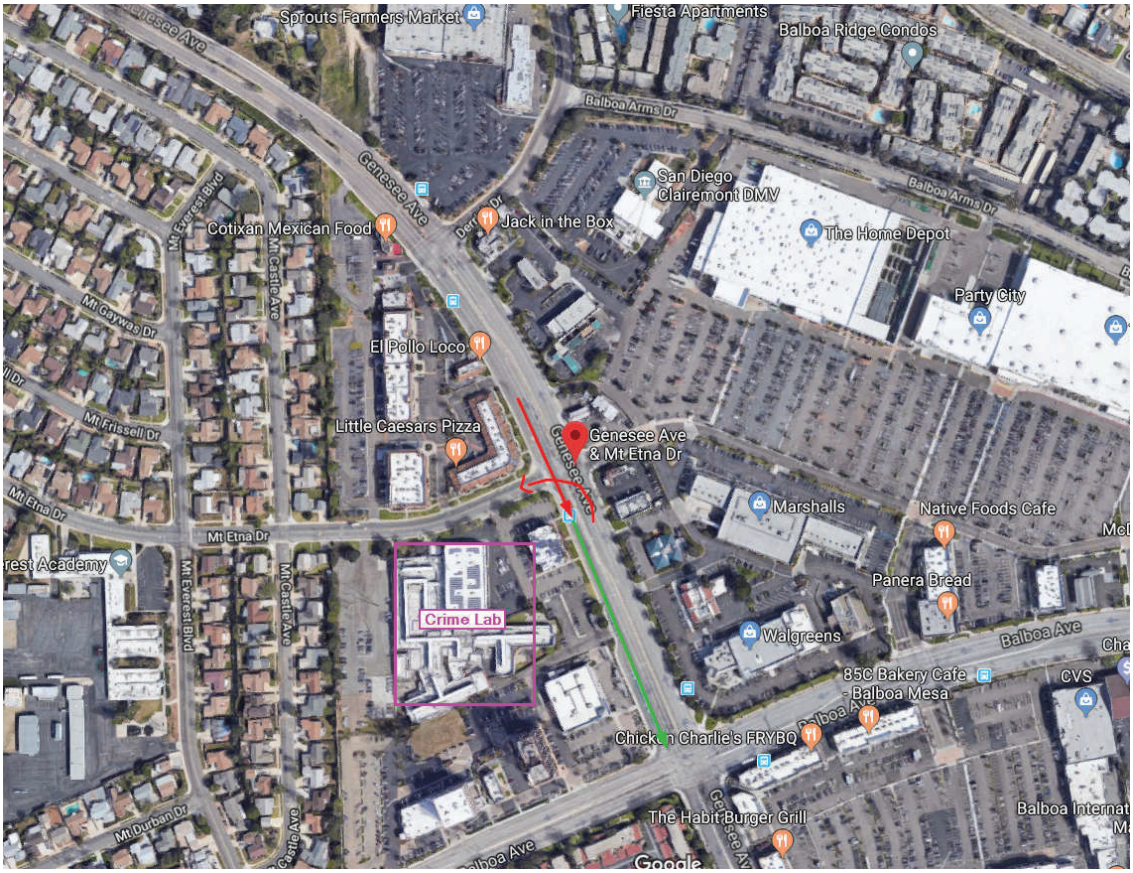
Thank you again for taking these comments into consideration for the scope of the EIR.

As mentioned in my previous email (excuse all of my misspelling errors) , the traffic in the Genesee Ave. Mt. Etna Dr. area are already very congested and so I'd like to provide more detail and more comments regarding the scope of the EIR.

During weekday hours starting around 4 p.m. traffic headed south on Genesee Ave. will become backed up past Mt. Etna Dr. The light at Mt. Etna will still be green, allowing cars to try and squeeze in to the southbound lanes between Balboa Ave. & Mt. Etna Dr. Once the light at Mt. Etna Dr. turns red there will almost always be cars in the middle of the intersection blocking it. This prevents the the cars with a green arrow, headed north on Genesee Ave., turning left onto Mt. Etna. to make that left hand turn.(See screen shot below). This along with what I mention in my previous email is the current situation, whether right or wrong, and having only one entrance off of Mt. Etna will in my opinion be a traffic disaster for all, and must be mitigated if possible!

Other concerns for the EIR are as follows:

1) During construction, will Mt. Etna Dr. be shut down to local traffic?
2) Has light pollution from the units facing the neighborhood, or the site itself been considered?
3) Will the public transportation system be upgraded to include lighting for night, more comfortable stops, safer stops, more attractive or distinct stop enclosures?
4) Is there reliable senior/special needs public transportation in the area, since hopefully many of the residents will be senior or those with special needs?
5) Will the public transportation be expanded to include more stops that apply to the potential residents, since many may not be within walking distance?
6) There may need to be a cutout for the bus on the west side of Genesee Ave. in front of the proposed housing so that the it does not impede high traffic flow on Genesee Ave and/or cause any safety concerns especially for the new residents which include seniors who may move much more slowly than a healthy adult, special needs residents, and small children that may now be in the area.



Thanks again Mr. Cass and feel free to call me for any follow up if you need.

---------- Forwarded message ---------
From: **Loren Fink** <lpfink@gmail.com>
Date: Wed, Oct 10, 2018 at 9:18 AM
Subject: Mt. Etna Affordable: EIR Comment
To: <marc.cass@sdcounty.ca.gov>

Hi Mr. Cass,

Thank you for taking these comments into consideration for the scope of the EIR.

The exisiting traffic conditions for the areas/intersections of Mt. Everest Blvd. & Balboa Ave. and of Genessee Ave. & Mt. Etna Dr. are very congested due to traffic from the residents in the area, but just as much from visitors using Mt. Everest/Mt. Etna as a shortcut between Balboa Ave. and Genessee Ave.

There are business and offices near Mt. Etna and Genessee that contribute to the neighborhood streets being so well traveled, however, I believe that directing traffic from new residents, visitors, employees, nurses, etc. toward the main roads will cut down on the number of fast drivers through the neighborhood. There is also an issue with the traffic light there at that Mt. Etna/Genessee Ave. intersection.

Traffic coming from the Home Depot Plaza do not have a green left turn signal to make a left (south) onto Genessee. That causes accidents that I witness nearly every morning due to "right of way" drivers (mostly turing right onto Genessee) almost being side swiped by drivers who do not yield when making their left. It also has a tendency to cause a backup on Mt. Etna heading east to Genessee, due to ignorant and/or cautious drivers stopping to allow the vehicles to turn left from the Plaza. Perhaps the cautious ones don't want to run the risk of

being hit? I've also seen the drivers from the Plaza or even from Mt. Etna almost hit or come way too close to pedestrians, many times, due to the frantic nature of that intersection and drivers doing whatever it takes to catch the green light and make their turn.

I propose 2 things:

1) Add a left arrow green light for those leaving the Plaza which will help current and future traiffic flow. (See Exhibit 2)

2) Build a curved driveway exiting the Affordable Housing site onto Mt. Etna that only allows for right turns headed toward Genessee, and not into the neighborhood preventing a heavily traveled thoroughfare. Also, to help assure the flow toward Genessee Ave. from the Afforadble Housing site, I would propose building a short curb in the middle of Mt. Etna so that any drivers that would disregard the curb on the Affordable Hosuing Site would be hesitant to then neeed to jump over a curb on Mt. Etna. (See Exhibit 3)

Exhibit 1 is a screen shot of Clairemont honing in on the afforadble housing site and the intersections in question.
Exhibit 2 is another screen shot showing the first issue and the proposed solution again would be adding the left turn arrow to the existing light.
Exhibit 3 is the final screen shot showing the second proposed solution of the curbs that direct traffic toward Genessee Ave.

Exhibit 1:

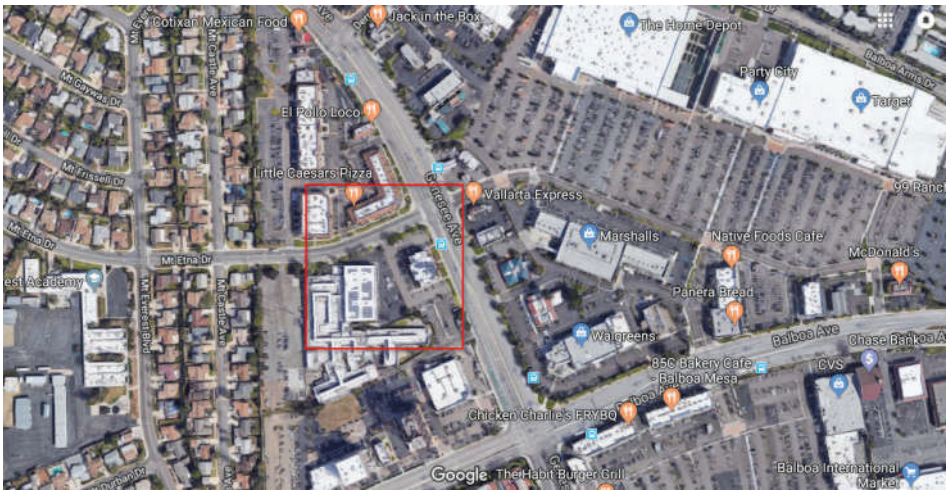
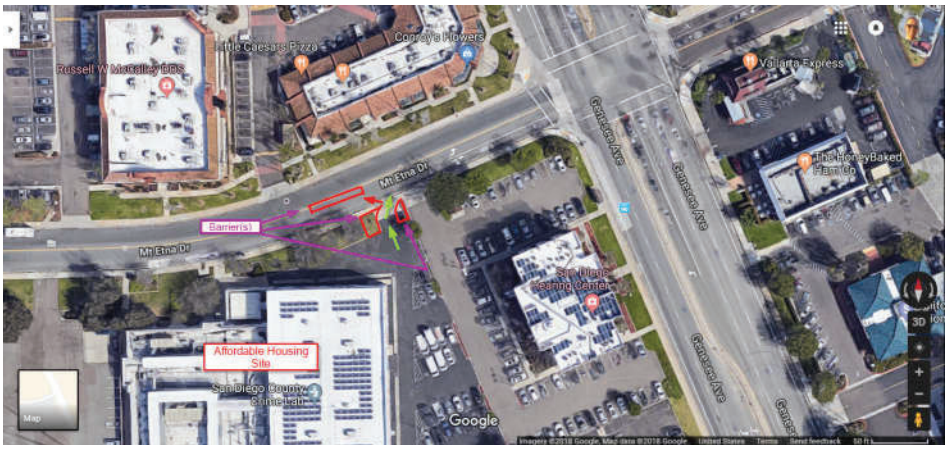


Exhibit 2:



Exhibit 3:



Please feel free to contact me with any follow up questions, and thank you again!

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Loren Fink
(619) 930-1921
lpfink@gmail.com

--
Loren Fink
(619) 930-1921
lpfink@gmail.com

From: Lori Chapin <lorichapin54@gmail.com>
Sent: Thursday, October 18, 2018 2:54 PM
To: Cass, Marc
Subject: Clairemont Mesa Community Plan Amendment & Rezoning Project Case No: 4224097

Hello Marc,

This is an email I tried to send to you this morning regarding the proposal to amend the Clairemont Community Plan to allow the construction of a 5 story building on a 4 acre site in Clairemont where the Sheriff's Crime Lab sits, I am not sure if it was sent. I also attempted to send this same email to Council Member Chris Cate & Naveen Waney, Chair of the Clairemont Community Planning Group. In an abundance of caution I am sending these comments individually to all of the intended recipients.

Thank you for your time and attention.

Lori Chapin

October 18, 2018

Marc Cass, County of San Diego, Department of General Services
Chris Cate, District 6 City Council Member, San Diego City Council
Naveen Waney, Chair, Clairemont Community Planning Group

Hello all,

My name is Loraine Chapin. I live at 4252 Mt. Foster Avenue. I have lived here for 30 years. I raised my two children in this quiet, wonderful and family oriented neighborhood. They attended Holmes Elementary, Marston Middle School and Clairemont High School. I know my neighbors. We are a close knit community. We look out for each other, our homes, our children, our seniors and our beloved Tecolote Canyon. We have annual block parties and spontaneous driveway BBQ's. It is the perfect neighborhood to raise a family. It is quiet, safe and close to good schools, shopping and houses of worship. I walk my neighborhood regularly at all times of the day. I have walked as late as midnight and as early as 7 AM. I have never felt unsafe. It is my home. I am pleased to see many new families moving into the neighborhood with children or with dreams of having children and raising them here. Unfortunately, the tranquility, peacefulness and safety of our neighborhood is at risk.

On Monday night, October 15, 2018, I attended a "public scoping meeting" at Marston Middle School for the above referenced item to rezone the ~ 4 acre parcel where the Sheriff's Crime Lab now sits. It was formerly (before I moved to the neighborhood 30 years ago) the Clairemont Hospital. Now there is a proposal to amend our community plan to permit a development, the size and scope of which are totally out of character and unnecessary for our neighborhood community. T

I send these comments and observations to voice my STRONG OPPOSITION to the amendment of our Clairemont Community Plan (CPA) to allow the construction of a 5 story building containing 450 units. Specifically, I was informed that the request to amend the CPA was initiated by the County of San Diego. In fact, the County sent a RFP to developers with the proviso to "assume" the requested zoning had been achieved.

As such I heard from Chelsea representatives, the developers who were selected pursuant to this RFP, a description of the superstructure proposed for the site. Quite frankly I find this appalling. The RFP process is expensive and laborious. To include any statement about zoning changes NOT YET made in the description of the project to be bid upon is not only an audacious act but a waste of taxpayer funds.

I am also very concerned that I am now required to provide comment by tomorrow (October 19, 2018) for a project I just learned about. I don't know how the County has been noticing this significant impact to the character of our neighborhood. I learned about it from a neighbor who heard something from another neighbor. At the meeting I was given a summary of activity to date written by Karen, a community member I have not yet met. That will change. The existence of this project as well as its size and scope are now spreading like wildfire and all of my neighbors are just as angry, confused and surprised as me. I encourage you to put the brakes on this project. A project of this size, scope and magnitude warrants more community input. Plus, it is difficult to provide "meaningful" comments to a project which was presented to the community on Monday night, three days ago.

That said, here are my comments:

1. The project is too big for our neighborhood. We are a community of 300 single family residences. This project would add 450 more units. This more than doubles our density. Our infrastructure can't handle this. Our streets can't handle this. We are already a pass through for motorists heading east on Balboa to avoid the light at Balboa & Genesee. They make a left on Mt. Culebra and then make a right on Mt. Davis and then another left on Mt. Etna to Mt. Herbert where they make a right to get to Genesee. It is often a steady stream.

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Be assured, I plan to attend all future meetings concerning this project. I realize the county would like to do something with this project. This, however, is not the appropriate solution. As a thought, what about a park or open space? This would be far more desirable .

Thank you Chris Cate for attending the meeting. It seemed you were concerned about the scope, noticing and rush of this project. I know your position as a Council Member precludes you from support one way or another. I have seen you, however, to be a big believer of "getting the issue out in the open for discussion." I would encourage you to do what you can to bring to the light of day "everything" that is going on with respect to this project and any attempt to rezone or amend our community plan to allow this.

Thank you for your consideration.

Loraine Chapin
4252 Mt. Foster Avenue
San Diego, CA 92117
lorichapin54@gmail.com
(858) 342-3795

From: Lorina Bennett <lorina77@gmail.com>
Sent: Friday, October 19, 2018 10:01 AM
To: Cass, Marc
Subject: Fwd: Mount Etna Project

---------- Forwarded message ---------
From: **Lorina Bennett** <lorina77@gmail.com>
Date: Fri, Oct 19, 2018, 9:56 AM
Subject: Mount Etna Project
To: <matc.cass@sdcounty.ca.gov>

Hi, Marc!
I'm writing to you to ask you to please reconsider the location of the Mount Etna low income apartment complex.
My family has lived in this neighborhood for seven years now. We chose this neighborhood because of the safety, sense of community, and most importantly for the neighborhood schools!
I'm disheartened that more community input wasn't sought out during this planning.
We are concerned about safety, crime and traffic issues with this location in addition to not following city regulations in regards to height limits.
Mt Etna is a very small street that already gets congested with the current neighborhood population. The street cannot support more traffic or street parking.
It is also the main street to the only community park. Many children walk or ride their bikes to this park and I worry about their safety with increased traffic and their safety with increased crime.
Most importantly, we love our neighborhood school, Holmes Elementary! This year admittance was to capacity and no 'Choice' applications were excepted. Every student at that school is from the neighborhood. They have already been discussing changing boundary lines for the school because of the amount of children that are in this area. Adding an apartment complex of that size would dramatically impact our children's classroom sizes!! And possibly drastically change the boundary lines for our neighborhood schools, causing us to loose the very reason for choosing a home in this neighborhood!
We have a great neighborhood with wonderful neighbors and schools! The community has grown and changed to include many young families with young children. We all work hard to keep it a safe place for our children. We will fight to keep it this way and we hope that you consider our concerns and will fight with us to keep it the wonderful neighborhood that it is.

Sincerely,
Lorina and Clint Bennett
4865 Mount Durban Drive

From: Lynn Froeschle <lfroeschle@aol.com>
Sent: Friday, October 19, 2018 3:05 PM
To: Cass, Marc; lfroeschle@aol.com
Cc: kurt.hoffman@ubs.com; lisa.armacost@ubs.com
Subject: Mt. Etna Project + EIR Concerns

Dear Marc Cass,
I have just reviewed the Mt. Etna Project PowerPoint Presentation from the 10-15-18 Scoping Meeting which I was not able to attend due to receiving only a one-business day notice about the meeting.
I am a licensed Architect who lives and works near the intersection of Mt. Etna and Mt. Herbert. Mount Etna Avenue is a very short street with a lot of planned projects for construction in 2020. The John Muir School will be tripling it's size from 260 students to 760 students with construction beginning in 2020 on the new buildings and parking lots with an anticipated 500 added cars twice a day on top of the existing 300 school-related cars that travel Mt. Etna, an already busy street. The admin building will also be relocated to Mt. Etna. Figure the school impact at 800 cars twice a day.
Now, the County is planning a high-density affordable housing project for the crime lab site at the other end of Mt. Etna Ave. and requesting zoning changes from Commercial to RM-3-9, plus a significant increase in density to nearly tripling the current 29 dwellings/acre to 73 dwellings/acre in order to justify 454 units (plus 2 cars per unit). And, exceed the current 30-foot building height limit for Clairemont.
All of these proposed changes to the Codes set a dangerous precedence for planning and development in Clairemont. The 30-foot height limit is ideal for the scale of the community. The current commercial zoning of the site is intended for development that *supports* the community such as more restaurants, shops, and services. I can envision a mixed-use development with shops, restaurants, and a Trader Joes on the main level with residential above creating 3-story buildings with ample parking. However, the current proposed plan indicating 454 units at 5 stories high with 900 cars would be a traffic nightmare leading to gridlock at the busiest intersection in the heart of Clairemont.
I already avoid the congested intersection of Mt. Etna, Genesee and Balboa Avenues. Imagine, now over 900 cars at the proposed county affordable housing project at one end of Mt. Etna and then add the 800 cars twice a day at the planned school expansion on the other end of Mt. Etna, and what does that create? 1,700 additional cars figuring 3,400 trips a day on a street that is only a few blocks long! This on top of the current heavy traffic by locals using Mt. Etna as a shortcut, baseball at the park, and soccer.
And, where would all of the new residents park, eat, and shop? What additional services would be provided to support approximately 1,800 more people squeezed into the 454 units? What about the current traffic problems at the intersection of Genesee and Balboa Ave. and on Mt. Etna, a residential street? How can adding 1,700 cars (both projects) with 3,400 trips per day work on such a short street?
Also, there are power lines adjacent to the site with electromagnetic fields. EMFs are not healthy nor conducive for residential areas. This would not bode well for the goal of a USGBC LEED Silver rating. And, what about noise, air quality, light pollution, safety, mass transit, parking, and traffic?
I encourage the County to reconsider the project intention and re-envision it as an opportunity to provide actual needed services for the community (and added tax base), aesthetically pleasing, low-scale development based on the current zoning laws for building type, density, and honor the 30-foot height limit which are all there for a reason, supporting the integrity and aesthetics of Clairemont.
In closing, I would like to be informed of any future public meetings at least two weeks in advance, not one business day. There are many other neighbors who did not know about the meetings and would also like to provide input and be informed. Thank you for your consideration.
Environmentally,
Lynn M. Froeschle, NCARB, LEED AP
Lynn Froeschle Architects
Creating Green Built Environments
in Harmony with Lifestyles + Nature.
(858) 571-2858

From: Lynn Sampson <lynnsampson5@gmail.com>
Sent: Saturday, October 13, 2018 2:16 PM
To: Cass, Marc
Subject: Clairemont Mesa Community Plan Amendment and Rezone Project (WT-4224097)"

Hello Marc I am a 30 year Clairemont resident and have never gone to one of your meetings. I am hoping to come on Monday to understand the project more.I have a couple of questions/comments.
I do understand the need for lower income housing in San Diego and feel we need to provide more housing for that clientele.
I feel that in Clairemont we already have a many low income housing .
How does our community compare to say PB, University City, La Jolla, Tierrsanta in how many affordable housing units they have compared to us. (I am just choosing communities close to ours)
Second is it a done deal that this site will be for housing? No other optons?
Is Affordable housing for seniors always clumped in with general affordable housing or can the property be zoned for just low income seniors?
Have other options been discussed?
Ideas: New and LARGER DMV
New Clairemont Library (the Balboa branch has a design already in place)
What other needs does the city have for land?
I hope but do not expect to get a response by email but look forward to understanding more.
Also I do not completely understand what an EIR report covers and it might well be more about water and electricity than about a residents concerns.
Thank you
Lynn Sampson

From: Vanasse, Lynx R CIV PSNS&IMF, Code 246 <lynx.vanasse@navy.mil>
Sent: Thursday, October 18, 2018 10:52 AM
To: Cass, Marc
Subject: Mt Etna Low Income Housing Project

Mr. Cass –

I am writing, like many others, to express my opposition to the proposed Low Income housing project being planned for the former San Diego Crime Lab site at Mt. Etna and Genesee. I am a resident of Clairemont West (I live on Mt. Culebra) and have seen by personal observation that this housing development is not the right fit for our community, for the following reasons:

1. Traffic – This area of Clairemont is already overburdened with traffic, especially during rush hour in the mornings and afternoons. I often have to wait through more than one cycles of stoplights at the Balboa/Genesee intersection and this housing project will add more cars to an area that is already over-capacity for traffic.
2. Parking – Similar to the traffic concern, parking is already at a premium in this area. Many streets and local business don't have enough parking as it is, and 400+ additional residents in high-density housing will only make the problem worse.
3. Crime – Crime has become an increasing problem in this area with several residents reporting car break-ins and property theft in recent months. The intent of this housing project is house low and extremely low-income residents; statistically a large percentage of crimes are committed by low-income individuals. It stands to reason that the inject of 400+ low-income residents to this area will have a negative impact on crime.
4. Schools/Children's Safety – Similar to the concern with crime, myself and several other Clairemont residents have small children that routinely play outside. We are already experiencing times where we have to quarantine the kids inside due to helicopters circling looking for at-large criminals; these occurrences are likely to increase with the addition of 400+ low-income residents to the area.
5. Property values – I can appreciate the need for low-income housing and the opportunity for everyone to establish a residence; however, West Clairemont is not the place to do so. Clairemont West is a relatively low-density, family neighborhood primarily comprised of single-family homes. The addition of a massive, high-density housing unit will negatively affect the value of mine and other residents' homes. We bought these homes partially as investments and for San Diego County to devalue them by changing zoning restrictions is simply unacceptable.

I appreciate your taking the time to read and understand my concerns and sincerely hope that this project be reconsidered.

v/r
Lynx Vanasse
Mt. Culebra Ave

From: Makalani Hudgens <makalani.hudgens@gmail.com>
Sent: Monday, October 1, 2018 6:00 PM
To: Cass, Marc
Subject: Mount Etna housing

Hi, my name is Makalani Hudgens. I moved into Clairemont when I was 3 years old to attend Lafayette elementary school since they had the deaf and hard of hearing program there. I've grown up in Clairemont until I was about 21, I moved out of Clairemont/San Diego with my son. I couldn't find any apartment in clairemont that will approve me with my low income, I was just a SSI issuer. Now as of I am reading the news about the housing for Mt Etna. I am thrilled about that because I would love to move back in Clairemont where I grew up. I have a 6 years old deaf daughter now and my 16 years old son is living in clairemont with his aunt right now and is attending James A Madison High School as a junior in the music band. I would love for my daughter to be grown up in Clairemont and attend Lafayette, CPMA and Madison. I will support the idea of housing the units to Low Income Families, Foster Youth housing transitional (18-21, maybe 24) but I don't like the idea of homeless and sober living being in Clairemont with this housing project. Please do let me know if you would like me to come out and voice my concerns too. Thank you.

Sincerely,
Makalani Hudgens

From: Marci Richards <mjrhjm@hotmail.com>
Sent: Monday, October 15, 2018 2:30 PM
To: Cass, Marc
Subject: Clairemont Mesa Mt. Etna Project Opposition - 2nd Scoping Meeting

I am opposed to the zoning change for the 5255 Mt Etna Drive (Former Crime Lab) project.

Why is the zoning trying to be changed from DISCRETIONARY to MINISTERIAL? This will give the community no input or recommendations. The height, and other issues could be changed at the developers whim and the community could be stuck with a multitude of problems associated with the tenants (that the city is not willing to deal with regarding appropriate 24 hour care facilities for mentally challenged and/or drug addicts), parking, traffic, and infrastructure.

Is not the city owned land and buildings for the citizens of San Diego and to benefit the communities in which they are located? We the citizens want quality of life to be enhanced by new housing and construction. Not a developer out to profit at the expense of the residents or for the easy way out for politicians. The developers and politicians don't live in this community and therefore, it doesn't impact their lives, only their bottom line and/or reputation. Don't let the problems of insufficient housing prompt hasty action by the mayor, city counsel, etc. The city ordinance requires developers of multifamily buildings to set aside 10% of the units, not 50% to 100% for low income/affordable units.

What is the definition of low income and affordable units? Low income is usually Section 8 housing, a no accountability program. Affordable units – is there an accountability?

The fact that low income (Section 8), the mentally unstable, and drug addicts, all without accountability, are being added to the list of allowable occupants is the catalyst for my opposition on this project and that it is trying to be approved through the back door (ministerial). Other factors include but are not limited to the number of units, lack of reasonable parking, added traffic to an already existing problem, and undue pressure on the infrastructure that has not been upgraded. I could elaborate on some of the challenges with the standard EIR topics (e.g., parking, traffic, safety, appearance, utilities, etc.), which will likely be covered by others, but instead will focus on the heartbeat of our community, the people that live here.

Clairemont is a supportive community; we have grown over the years and made Clairemont a better place to live, have a business and work. It is the people of this community that have created and changed Clairemont; not some developer or politician.

For the upcoming EIR report I would like to see the following addressed:

1. Definition of low income and affordable housing by price, square footage, and number of occupants.
2. How many of these type units already exist in Clairemont?
3. How do the statistics for low income and/or affordable housing include multiple incomes that are required to pay the rent? (e.g., Clairemont has a lot of duplexes that house a large number of people for the space, have limited to no parking and require multiple incomes……how are these classified?)
4. How do the number or percentage of low income and affordable housing units in Clairemont compare to other portions of San Diego?

5. Which zip codes in Clairemont are considered low income or qualify for medical/dental graduates to work with a relief from their student loans because it is a "low income" zip code?

6. If affordable housing is the real goal, why are units being built for standard rent? (Not really an EIR topic but could be addressed).
7. Compare the number of low income/affordable housing units proposed in this project to other development projects of similar size?
8. Address how putting low income (Section 8 and the like), mentally challenged, and drug addicts, all without accountability, in a housing development help them with their real issues.
9. Like #7, address how putting low income (Section 8 and the like), mentally challenged, and drug addicts, all without accountability, in a housing development helps Clairemont.
10. Provide general residential distances and directions (not addresses) to political supporters and developers of this project AND similar projects in their respective neighborhoods.

There are other acceptable alternatives to address the issue of lack of affordable housing at this location without impacting the current residents. For example, a **MEMORY CARE** or **HOUSING FOR SENIOR CITIZENS**. **VETERANS** without mental or other issues that put them in "at risk" category.

Build at 45 units per acre, approximately 160-170 units, as zoned and put aside 10% for affordable housing. This would be in keeping with city's plan for new development.

The mentally challenged and drug addicts need to be assisted at qualified facilities; Clairemont residents are not qualified to deal with people that have these characteristics and should not be put at risk to meet some quota of housing.

Marci Richards

4177 Cole Way

San Diego, California 92117

From: Marcia Bodnar <mjbod@sbcglobal.net>
Sent: Wednesday, October 17, 2018 4:14 PM
To: Cass, Marc
Subject: Re: Clairemont Mesa CPA 2nd Scoping Meeting

Thank you for sending this notice. We did not receive this notice in the mail and I think you saw from the meeting that only one resident in attendance received the notice.

The county has NOT been transparent with meeting notices and frankly I don't understand why the county doesn't solicit input prior to making a decision on a location. As I heard in the two meetings I attended, residents actually provided a couple of alternative options to the Mt. Etna site. We have not been provided with any commentary about other locations that may have been considered and why they were not selected. The fact that we are just recently learning about a project that is already this far along with planning is of great concern.

I hope you heard loud and clear that the scope of the project is way too large. While I don't agree with all the concerns about using the site for low income housing I do think there are enough concerns that should result in this project being slowed down and scaled back.

I am also very concerned about the amendment to rezone and taking the issue out of the hands of the community is inappropriate!

The developer admitted that the RFI they received asked for them to submit a proposal assuming the zoning changes occur. That is a huge assumption and one that should not be made! At least one developer declined to submit a proposal because they did not feel this was the right site for this type of project. That should tell you something!

I live on Mt. Castle, which is the street directly behind the site. Our house is on the west side - those on the east side are very concerned with a tall building being right behind their lot. Traffic is one of the biggest concerns I have. As many have mentioned the neighborhood already has a lot of traffic and people cutting through to avoid the intersection of Balboa and Genesee. There will absolutely be a lot more cut through traffic as people will attempt to avoid Mt. Etna. I currently go to work via Genesee and turn right from Mt. Castle to Mt. Etna to get to Genesee. I can only imagine the back up at that light and estimate it will increase my commute substantially. The fact that there is only one entrance to the project is a great safety concern, as well as a traffic issue. Anyone coming from the west on Balboa will turn left on Mt. Culebra or Mt. Everest/Mt. Castle to get to the property - which is through residential streets. No one will turn left on Genesee to turn left on Mt. Etna.

I could go on and on with my concerns - but I don't want this email to be too long that you won't read it. I have lived in Clairement since 1990 and my husband said he wants to move if this project goes through. I do not want to move, but fear I may have no choice if this project goes through as planned. I believe that is a common theme from the community, many of whom will be forced to sell their homes for a lot less than they were worth last year.

There is time to reconsider the scope of this project and as someone said at the meeting the other night - please work with the community to get them to support this project. And think about how you might be affected if you lived in this community.

Marcia Bodnar
858-220-5901

On Thursday, October 11, 2018 2:26 PM, "Cass, Marc" wrote:

Hi there,
The notice for the second scoping meeting was mailed out on October 5th, but to ensure folks weren't missed in the mailing, it's attached. If you've already received the notice, please disregard.
Thanks,
Marc Cass, Assoc. DBIA
Environmental Project Manager
CCAEA-Secretary
_____
Dept of General Services, County of San Diego I 858-694-2047 I Marc.Cass@sdcounty.ca.gov
5560 Overland Avenue, Suite 410
San Diego, CA 92123
Please consider the environment before printing this e-mail

From: Maria Occhipinti <occhip@outlook.com>
Sent: Wednesday, October 17, 2018 7:34 PM
To: Cass, Marc
Subject: Clairemont Mystery Project

So the deadline for comment is the 19th of this month, yet this is the first any of us are hearing about this FAR too large and WAY too high project? What the heck? Who owns this ramrod and why has the City of San Diego allowed it to be shoved down our throats by surprise? I have no objections to low income housing, but this concentration is absurd and can only overload the existing infrastructure to a degree that will ruin the living standard of local residents and new residents alike. Why is it being allowed to exceed the height limit everyone else has to abide by? Why such density? My neighbors and I will have to object, and I would like to be informed of any venue of public input. This stealth project should not go forward without proper environmental and neighborhood impact studies, which I believe will put an end to them.

Sincerely,

M. K. Occhipinti
San Diego 92117

Sent from Outlook

From: Marija Hristova <marijahristova@yahoo.com>
Sent: Thursday, October 18, 2018 4:44 PM
To: Cass, Marc
Subject: Against Mt Etna project at Crime La

Hello Mr. Cass,
This email is regarding the Mt Etna project where the Crime Lab is.

I have been a resident of Clairemont for more than 20 years. My family and I are against changing the zoning for this location. Our kids go to school at Mt Everest Academy, k-12 school with an open campus right across this location. This building will introduce many residents, some of who might jeopardize the children's safety if not supervised. The parking around the school will be difficult, it already is impacted by the increasing number of students, this will worsen it. Traffic will be increased multiple times and the area will be more prone to accidents, which further jeopardizes the safety of our children. The building will surpass the local height limit.

I hope all of these reasons and many more will be taken in co consideration to abort this project.

Thank you,
Marija Hristova

Sent from Yahoo Mail on Android

From: floreszambo@sbcglobal.net
Sent: Thursday, October 18, 2018 8:23 AM
To: Cass, Marc
Subject: Mt Etna project - oppose!

Dear Mr. Cass,

I/we strongly oppose a project of this scale. To the point, this project is WAY too big for our residential area both in size (height limit) and number of people crammed into a limited footprint. The planners need to look at other possible sites to meet the objectives.

There are several other reasons for our objection to this project: Firstly it will become a magnet for crime! It will pack the surrounding residential streets with cars and adding to an already congested area. This will greatly impact the safety of the schools within a few hundred feet.

We are the PEOPLE who live here and our voices should be heard! We do not want this monstrosity in our residential neighborhood.

I speak for all of my family members. My wife and two adult daughters.

Sincerely,
Mark A. Flores
5042 Mt. Casas Drive
San Diego, CA 92117

From: Mark Zanfardino <mzanfardino@gmail.com>
Sent: Friday, October 19, 2018 10:26 PM
To: Cass, Marc
Subject: Mt. Etna EIR NOP Comment

Hello Mr. Cass,

I understand that today is the last day to provide input for the Mt. Etna EIR NOP. I cannot find a place on the county-provided website re: Mt. Etna's proposed project, so my husband and I will submit our comments here.

- The noise and disruption created during construction will be detrimental to the current residents in this housing area, and of particular concern to those who are immediately adjacent and across the street from the proposed site. The current building on the site may have materials that could create significant health hazards, aside from an increase in dust and dirt that will be generated and may create breathing hazards for current residents who have sensitive respiratory conditions.

- Traffic is of great concern. The location of this project is in very close proximity to a busy street and a busy shopping center. There is already significant traffic at the Mt. Etna/Genesee intersection and having a large facility with the only entry/exit on Mt. Etna just past the intersection will create delays and gridlock while residents wait for a clear path to turn into the facility.

- Parking will be of great importance in a facility the size of which is proposed. There is already insufficient parking, creating a need for current residents to park not only in their driveways, but also on the street. With the estimated doubling of the number of residents in this area, parking on streets in the neighborhood will become nearly impossible, and when parents arrive to drop off or pick up their children from local schools that are in immediate proximity to the proposed site, poses increased risk to children who are attempting to enter or leave school property. Building a large facility without sufficient parking included in the building plan is foolish and irresponsible.

- As mentioned in the previous bullet, safety is of primary concern with a doubling of the number of residents in the area. Aside from the increased traffic that will (absolutely) occur, which will create safety concerns for children who attend the area schools, there also exists a potential safety issue for current residents of the area, which can only be determined upon review of the residents for the proposed project. Without an increase in protective resources, there is more than likely to be a negative impact on the surrounding community.

There is also the issue of how to respond to fire emergencies in a building that is five stories tall without access on all sides of the building. In particular, access on the West side of the building is inhibited by high-tension power lines, which will likely preclude reasonable emergency response in the event of a fire, particularly on an upper floor.

- The safety issues extend to the proximity of those high-tension wires, as well as the location of the high pressure gas line, both the property of SDG&E. In San Bruno eight years ago a pipeline exploded, killing eight people and injuring dozens of others. This was in a neighborhood with single-family homes, no high-density housing close by, and it was still a devastating event. Imagine the aftermath if such a gas line were to explode essentially underneath a project such as the one proposed.

- We are unclear about the proposed services that have been referred to in the scoping meetings. It seems that there are a number of reports about what, exactly, will be included in this project. There is talk of 464 units, as well as a community center, limited parking, green space, and other resources for residents that are in need of community support. That seems to be a very ambitious agenda for such as small plot of land. The 4.09 acre lot

may *seem* large, but it will quickly fill up with all the proposed options included. This does not seem reasonable and it appears that any reasonably necessary resources will be foregone in the interest of increasing unit count. This is unfair to the community and, even more so, to the potential residents of the proposed project.

- There is already a lack of green space in Clairemont, and imposing such a large project in a community that sorely needs open space is detrimental to the well-being of the community at large, including any proposed residents. Green space should be a priority in San Diego, where we have the great fortune of being able to enjoy the outdoors year-round. Increasing high-density housing will contribute to the heat-sink condition of an already over-concreted community.

- Any housing project in this area will more than likely increase the number of students who will attend area schools. There are five schools in the immediate area: John Muir Academy, Mt. Everest Academy, San Diego Charter School, High Tech High (set to open soon), and Holmes Elementary, which is the default school for this area. In addition, Marston and Kroc middle schools and Clairemont and Madison high schools, which also service this immediate community, will see an impact in student attendance.

The schools are not equipped to handle such a drastic increase in student attendance. There are insufficient classrooms and insufficient teaching staff to support such an immediate and significant increase. This will lead to fewer available resources for these schools and, as a result, a lower quality educational experience for our youth. It is important to the future of San Diego as a whole to ensure our youth have access to quality, consistent schools and resources within those schools.

- There is limited access into and out of the proposed site. This was mentioned in the bullet above regarding traffic, but it is a significant issue and should be addressed. To date, when it has come up, persons who are in position to addressed the topic have sat stoically and not offered any comment on how that will be resolved.

There is a single driveway onto a residential road, a short ½ block from a major traffic throughway. Potential residents of the proposed project must approach the facility either from Genesee or Mt. Everest. Approach from Genesee will result in gridlock through that intersection as residents wait for traffic to clear to turn left into the driveway. Approach from Mt. Everest will only contribute to the gridlock on Genesee as they turn right into the facility and contribute to the inability of others to turn left into the driveway. This is not only poorly thought out, but shows either a blatant disregard for the existing traffic dynamic, or a sorely inept evaluation of the suitability of the site for such a large proposal.

- An issue raised by current residents who are immediately adjacent to the site is a concern about the resulting lack of sunshine and privacy that the imposition of a large facility overlooking their backyards will afford. This alone will negatively impact home values in this neighborhood.

- Finally, but also significantly, based on all input that has been provided, the size and architecture is not in keeping with Clairemont's community character. It seems to be more aligned with locations that have fashioned themselves into destination locations for transitory lifestyles, such as UTC or Mission Valley. The current proposal seems to lean to a high-density, transitory population, in that such a significant rental facility will lend itself to a population that is not committed to the Clairemont community as it is structured.

Clairemont desires to retain and continue to cultivate a bedroom community in which middle-income families can set down roots and remain as children grow and parents become grandparents. High-population rental facilities are engendered to attract individuals who choose to move from the location when other opportunities, be it a new job or a less expensive/more desirable apartment, becomes available. Clairemont has historically been a comfortable middle-class bedroom community that seeks to attract long-term residents whose interest is to better the community they are in, rather than viewing it as a short term stop over while on the way to something else.

thank you for your consideration.

Signed,
Mark and Kelley Zanfardino

4209 Mt. Voss Dr.
San Diego, CA 92117

From: mchalm7198@aol.com
Sent: Friday, October 19, 2018 11:56 PM
To: Cass, Marc
Cc: MChalm7198@aol.com
Subject: Mount Etna

My name is Mark Chalmers at 4481 Mount Everest Blvd just a short way from the project site of the home for disadvantaged people. I have a friend that has moved here from Michigan, he informs me this type of project was tried there. The results were it created a slum neighborhood and eventually the building was torn down.

I think a study should take place looking at results and experiences of other cites across America that has tied this concept before it is built here. Thank you.

Mark Chalmers
760-443-6232
mchalm7198@aol.com

From: Medved, Marko
Sent: Tuesday, October 16, 2018 12:32 PM
To: Powell, Sabrina; Cass, Marc
Cc: Mays, Jody; Alejandre, Nicole
Subject: RE: Mt Etna Complaint

Thx. Believe Nicole already discuss with him.
Marc can take this in as a public comment.
Marko

From: Powell, Sabrina
Sent: Tuesday, October 16, 2018 12:14 PM
To: Medved, Marko
Cc: Mays, Jody ; Alejandre, Nicole
Subject: Mt Etna Complaint

George Hagood – Georgeh73@icloud.com Mt. Etna – wants to voice his very strong opinion against this project. Wants to use the building for a hospital as it was intended and use it to treat older adults with dementia and Alzheimer's. The high rise will ruin the neighborhood and they don't want that in the area.

Thank you,
Sabrina Powell
Administrative Secretary
Dept. of General Services
(858) 694-2338

Safety – Live with it!

From: Mary Freistroffer <suefreistroffer@icloud.com>
Sent: Thursday, October 18, 2018 11:28 PM
To: Cass, Marc
Subject: Building

We have concerns about the Mt.Etna, Genessee project. We are concerned that the Balboa Ave. corridor cannot handle anymore traffic. Crossing the streets at that corner is all but impossible for the elderly. We have a terrible time as it is and more traffic will really hurt us.

We also have concernes about the height limits. We don't understand how the limits can be changed without a vote.

Please stop trying to ruin our neighborhoods just to get more tax dollars.

We are retired and have chosen our neighborhood and do not want changes that will not benefit all.

Mary Freistroffer
Terry Freistroffer
3051 Peters WY
San Diego 92117

From: Matthew Beskin <mbeskin@appinc.com>
Sent: Wednesday, October 17, 2018 5:00 PM
To: Cass, Marc
Subject: New low income property on Mt Etna in Clairemont

I am highly concerned on this development. It is was too big for our community. This is already a very congested area. To bring on potentially over 1000 more people to the area will cause even more congestion. Also, this is an area that has been turning around it's rough and tumble image of a military and blue collar town. The average home here is over $550,000. New families are moving into old places and fixing them up. Now you want to dump a 400 unit complex in the middle of Clairemont with mentally challenged people and low income individuals. Why not put this in La Jolla or university city. They don't have any of these types of facilities. There is 1000 better places to put this building which would cost taxpayer less and keep an up and coming neighborhood on the right path. Thanks for listening.

Matt Beskin
See our line of grocery!
Click below!
http://www.appinc.com/products/FOODSHELFSTABLE.aspx
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From: Matthew Bohlin <mattbohlin@yahoo.com>
Sent: Friday, October 19, 2018 2:20 PM
To: Cass, Marc
Subject: Mt Etna

I live in the area and am concerned about these issues regarding redevelopment:
- 5 stories is too high-DO NOT CHANGE the current height restriction
-New high density plan will adversely affect near by schools that are already financially crippled due to repeated annual budget cuts
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING
-Density with low income demographics are associated with higher crime rates: The plan put forth has no extra safety measures to off set the possible increase in crime levels that will be a burden to local law enforcement

Thank you,
Matt

From: Megan Beach <mbeach19@yahoo.com>
Sent: Saturday, October 20, 2018 9:17 AM
To: Cass, Marc
Subject: Mt etna project

Marc Cass,
I cannot imagine that anyone who lives in the remote vicinity would think that this housing project is in any way a good idea for our neighborhood

In recent years, we have seen the Clairemont area truly blossom into a desirable neighborhood for families. It is in a great location, housing prices have drastically risen, and the population has transitioned into a higher concentration of young families and remains a relatively safe/convenient location for seniors that have raised their own families in this area. All have a close tie and investment into the community that has been created.

Should this high density, at risk housing development be approved, we would only see that deteriorate. We do not have the infrastructure to sustain 400 residence building.

As a registered nurse, I constantly work with this population and am comfortable in dealing with them in the workplace or walking downtown. But I do not want them in my neighborhood. Due to repeated drug use, alcohol abuse, lack of resources, mental illness that is underfunded/untreated, I can tell you that this is not the population you would want in your backyard. Families with small children do not want to deal with Harassment and safety concerns of such individuals. I want my kids to be able to play out in the front yard without constant fear of what type of person is walking by. I want them to be able to go to the park with their friends in this currently safe neighborhood.

If approved, I fear for the deteriation of our community and families will simply feel forced to leave.

Sincerely,
Megan Beach
Sent from my iPhone

From: Melody Daversa <mdaversa@gmail.com>
Sent: Wednesday, October 17, 2018 6:09 PM
To: Cass, Marc
Subject: Etna housing

Hi Mr. Cass,

I am writing because I am a very concerned homeowner. The Mt. Etna project is way too many people for an already congested Clairemont. I own a home less than a mile away and I am already concerned about the increase in homeless, petty crime, and traffic. This project will only make it worse. Please listen to the people that already live and pay taxes here—this project is not good for Clairemont.

Concerned resident,

Melody Crisp

Sent from my iPhone

From: mmm mc <emtravellover36@gmail.com>
Sent: Friday, October 19, 2018 5:33 PM
To: Cass, Marc
Subject: EIR for Mt. Etna

Mr. Cass,

As a concerned community member I have some comments on Mt. Etna EIR:
-Where else in San Diego is this being done at such a high-density?
5 stories is TOO high-DO NOT CHANGE the current height restriction
-New high density plan will adversely affect near by schools that are already financially crippled due to repeated annual budget cuts
-How do you plan to address the crime in the area?
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING

Too many low income housing in one area is bad for ANY community (and Clairemont will have multiple already assigned housing of this source) The COUNTY should look at other County properties to develop this housing.

Can the County answer these questions regarding new developments but NO affordable housing??

Town and Country Hotel = adding 850+ apartment units with NO mention of affordable housing
Midway/Rosecrans = 11,000 new homes and apartments with NO mention of affordable housing
Morena Blvd by NEW trolley station = 5,000+ units and NO mention of affordable housing
Downtown/Little Italy = So much construction going on with little to NO affordable housing being built. “We wanted the building to have class, character and a timelessness,” said H.G. Fenton CEO Mike Neal during a recent tour of the Vici, one of the most luxurious new apartment buildings in San Diego County. Average rent for a 1 bedroom downtown/Little Italy $2900/mo.

I know in the past the County has worked with community stakeholder in providing a 3rd party independent source to also gather community feedback. It think it would be a good idea to look into this.

Looking forward to transparency and that the County should be putting forth.

Respectfully,
Meredith, a Clairemont Resident

Michael Dwyer
4734 Mount Saint Helens Dr
San Diego, CA 92117
(858) 268-4354

October 19, 2018

Via e-mail: Marc.cass@sdcounty.ca.gov

Suggestions for an Environmental Impact Report

Clairemont Mesa Community Plan Amendment and Rezone Project [WT-4224097].

AESTHETIC

Please conduct a review of the solar envelope of the proposed 5-story buildings to ascertain whether the profile will cast a shadow off-site, or whether the shadow will remain on the property. An off-site shadow will impinge on the rights of neighbors. This review should include daylight hours and seasonal effects.

Please conduct a review of the Venturi wind effect that could be created between the nearby buildings and the new structures. Include in the review whether this wind effect would also exist between the several buildings of the project. Be sure to account for Santa Ana wind conditions.

Quote from the County of San Diego Affordable Housing Phase II Feasibility Analysis of February 2018, "An exception …can be applied for as long as the new structure is compatible with surrounding one, two, or three-story structures, as described in San Diego Municipal Code Section 101.0452.5.D."
https://www.sandiegocounty.gov/content/dam/sdc/dgs/Doc/RES_DO_CrimeLabFamCtAFHAppA6.pdf

Please describe how the proposed 5-story structures are compatible with and matches the character of the current surrounding neighborhood of single family detached homes.

Will a park like open space be provided on-site?

HAZARDOUS MATERIALS

Please review the demolition of the existing building in terms of short term noise exceedances of the City's noise standards, errant debris wafting over the neighborhood, and traffic consisting of dump trucks, bulldozers and other material handling equipment entering and leaving the property via limited ingress/egress points. Include review of debris holding areas and whether daily trips will be utilized to dispose of the debris. Include hazmat handling procedures if the existing building contains asbestos or similar material. Include whether water trucks, or other palliative measures might be necessary to reduce fugitive dust to protect nearby schools, businesses and residences.

Describe if the transport, use, storage and disposal of hazardous material is to be handled in accordance with the County Department of Environmental Health Hazardous Materials Division and conducted according to state and local regulations. Review

whether a Spill Prevention and Emergency Plan should be prepared as determined by the City of San Diego to respond to any construction related sewage spills.

NOISE

How will construction and demolition noise issues be applied against City standards, such as, will all noise-producing equipment and vehicles be equipped with mufflers, air inlet silencers and any other shrouds, shields or other noise-reducing features, and whether all of which will be in good operating condition that meet or exceed original factory specifications? Will all mobile or fixed noise-producing equipment, such as generators used on-site, comply with the City's noise standards? Will idling equipment be kept to a minimum and moved as far as practicable from residential areas? Will the use of noise-producing signals, including horns, whistles, alarms and bells, be used for safety warning purposes only? Will use of back-up alarms be minimized? If nighttime work is needed during demolition or construction, will a permit be obtained beforehand from the San Diego City Noise Abatement and Control Administrator?

ENDANGERED SPECIES

What protections will be used to protect endangered species? This should include no clearing, grubbing, grading, or other construction or demolition activities to occur for any coastal California gnatcatcher habitat during breeding season from March 1 to August 15. Applies also for the least Bell's vireo breeding season from March 15-September 15 and the southwestern willow flycatcher breeding season from May 1 to September 1.

CONSTRUCTION

Will material stockpiles and mobile equipment staging, parking and maintenance areas on-site be minimized? Will construction site and access road speed limits be established and enforced during the construction and demolition periods? In the event of any holiday moratorium, such as during the holiday shopping period, will all construction and demolition related activity be completely demobilized prior to the beginning of the moratorium periods?

Will best practices be implemented during construction and demolition to reduce particulate emissions, soil erosion and trackout? This includes covering any on-site stockpiles of debris, dirt or other dusty material. Will the use of adequate water and/or other dust palliatives on all areas be considered to avoid particle blow-off and to reduce dust amounts damaging to property, cultivated vegetation, domestic animals or causing a nuisance to persons living or occupying buildings in the vicinity? Will washing down or sweeping paved areas as necessary be used to control trackout? Will covers or tarps should be used on all vehicles hauling dirt or spoils on public roads if sufficient free board is not available to prevent material blow-off during transport? Will use of gravel bags and catch basins during ground-disturbing operation be used? Will methods to minimize public exposure to dust generated as a result of the proposed activities include covering sources, misting sources with water, reducing the pace of work and stopping work especially on windy days? Will a plan be prepared to completely contain, transport and dispose of all excess construction or demolition materials and construction fluids away from the site on a daily basis?

Will a construction fire prevention/protection plan be prepared prior to commencement of work?

Review tree removal procedures to include daily removal of all trimmings, wood stumps, roots, surface roots, other vegetation, debris and litter.

POLLUTION

Please review how construction and demolition related materials, wastes, spills or residues will be prevented from discharging from the work site to streets, drainage facilities, or adjacent properties by wind or runoff. Likewise how to ensure non-storm waste runoff from equipment, vehicle washing or any other activity shall be contained within the work site. Will covers and applying berm around loose stockpiled construction materials and debris that are not actively being used be implemented? Identify actions to ensure that sediment will not leave the site and the surrounding public streets shall be kept clean to keep sediment out of the storm drain conveyance system.

During construction or demolition, will material stockpiles be placed such that they cause minimal interference with on-site drainage patterns?

Will a Storm Water Pollution Prevention Plan be prepared and monitored by a Storm Water Pollution Prevention practitioner during demolition and construction?

TRAFFIC

Identify how to reduce potentially significant impacts by vehicle movement and access to surrounding roadways during three phases of the project: demolition, construction and duration of the project. Consider rush hour traffic northbound in the morning and southbound in the evening along Genesee. Similarly consider east and west bound traffic along Balboa Avenue during morning and evening rush hours, especially after the Mid-Coast Trolley is operational in 2021.

Review preparation of a Transportation Demand Management plan to limit the number of construction worker trips that travel through adjacent and impacted intersections and roadways during peak periods, as well as parking in the adjacent neighborhood. Review use of other mitigating steps such as a rideshare program, adjusting worker schedules to avoid access to the site at peak hours, providing off-site parking location for workers such as at the County Operations Center and shuttling them to the site and providing transit passes for construction workers.

A Traffic Control Plan should be prepared to include an accessible pedestrian access plan through the construction zone with approved signage. This would include description of vehicle traffic during demolition and construction via the proposed single ingress/egress to the site and impact on adjacent road wear and tear from heavy equipment and vehicles and disruption to existing traffic on nearby roads.

If sidewalks are closed, describe if an alternate walkway would be provided. Show how pedestrians will not be directed into direct conflict with vehicles operating within the work site or other traffic. When it is necessary to divert pedestrians into the parking lane or a street, show how barricades or temporary traffic barriers shall be provided to separate the pedestrian walkway from the adjacent traffic lane. Show what procedures will be used if crosswalk closures are necessary. Show how roadways adjacent to the work site shall be kept free of obstructions or other hazards to bicyclists.

Show what barriers, guards, lights, signs, flag persons and watch person will be used to comply with public safety requirements that may arise. Show what traffic control will be used for access of local pedestrian and vehicular traffic.

Review the addition of tenant traffic to the neighborhood considering available ingress/egress portals. Include anticipated additional traffic along Balboa due to the Mid-Coast Trolley being completed in 2021. Describe how this location is a suitable location for use of local transit when there is only one bus line, number 41, which could effectively take residents to work sites with transfers, using as a reference the designation of Fair/Poor for this location's Transportation Amenities on page 20, Table 3-8 of the previously referenced Feasibility Analysis.

Review time of day construction and demolition to avoid daytime rush hour traffic jams and to minimize the number and type of operating equipment, especially noise generating equipment.

Will driveway access for nearby businesses and residences be disrupted during the demolition and construction phases due to construction equipment traversing the single ingress/egress to the site?

Review how roadways adjacent to the work site can be kept free of obstruction or other hazards to bicyclists during demolition and construction.

EMF

Review the deleterious short term and long term effects of electromagnetic field radiation from nearby high tension power lines on the tenants of all ages especially those living on the upper floors of the new multi-story buildings.

PARKING

Conduct a review of the likelihood of tenant parking off-site in nearby neighborhoods and/or parking lots of nearby shopping areas, despite having one parking space for each unit on site. Will the proposed parking structure be enclosed? If so, will exhaust fans be implemented to remove noxious fumes? Will CO2 monitors be installed with alarms connected to a central security office?

UTILITIES

Review the increase in water, sewer, gas and electric services which will be required for the new residential towers. Include a review of additional fire protection requirements for high-rise, high density residential towers.

PUBLIC SERVICES

The report should describe the lack of County resources in the vicinity of the site.

AIR QUALITY

How will mobile and stationary equipment meet San Diego Air Pollution Control District emission standards during demolition and construction?

From: michael dwyer <dwyerm@san.rr.com>
Sent: Friday, October 19, 2018 1:20 PM
To: Cass, Marc
Subject: Clairemont Mesa Community Plan Amendment and Rezone Project (WT-4224097)
Attachments: Suggestions for an Environmental Impact Report.doc

Marc - Here are my suggestions for topics to be included in the Environmental Impact Report for the Clairemont Mesa Community Plan Amendment and Rezone Project (WT-4224097), also known as the Mt Etna Housing Project.

Let me know if you need the attachment in another format.

Michael Dwyer

From: Michael Puente <michael.puente@gmail.com>
Sent: Friday, October 19, 2018 3:40 PM
To: Cass, Marc
Subject: Proposed Mt. Edna Low income housing project - My comments

Dear Mr. Cass,

I am a third generation Clairemont resident. I love this neighborhood and I want to see it grow and prosper. I understand San Diego has a need for affordable housing. However,:

1. Clairemont already has more than it's fair share of low income housing. The Stratton is a large 312 unit 100% low income housing development just two blocks away from the proposed Mt. Etna site and,
2. an additional 500 units of 100% low income housing in the community core will degrade our community.

Clairemont has done it's fair share. Other communities need to step up and do their fair-share.

Michael Puente

4130 Genesee Ave.

San Diego, Ca. 92111

858-539-5266

From: Michael Guerrero <michael.r.guerrero@icloud.com>
Sent: Friday, October 19, 2018 12:43 PM
To: Cass, Marc
Subject: Mt. Etna Project

Hi Marc,

I own a single family house in Clairemont's Mount Streets. I am concerned about the new Mt. Etna Project. This portion of Clairemont already has numerous apartment complexes and a lack of parking. Genesee is is already very congested. It seems that there are other options with better access to public transit for this type of a project (e.g., locations along the new trolley line). Other options could include those in Mira Mesa or further east. The Balboa/Genessee thoroughfare is very densely populated. There is already another, albeit smaller, transitional housing project blocks away on Mt. Alifan (which is practically adjacent to a bar). A community focused development would be fantastic (the area seems to be at a crux between the industrial businesses in Kearny Mesa and the residential neighborhoods to the west). The recently developed High Tech High would have been a nice addition to the area, but it is unfortunate that it does not directly serve the neighborhood. The neighborhood is in need of development that supports its existing community and brings it together. There are already numerous apartment complexes and single family neighborhoods.

Happy to discuss.

Thanks,
Mike

Michael R. Guerrero
(858) 886-6315

From: Michael van Asselt <michaelvanasselt@gmail.com>
Sent: Thursday, October 18, 2018 9:37 PM
To: Cass, Marc
Subject: Clairemont low income project

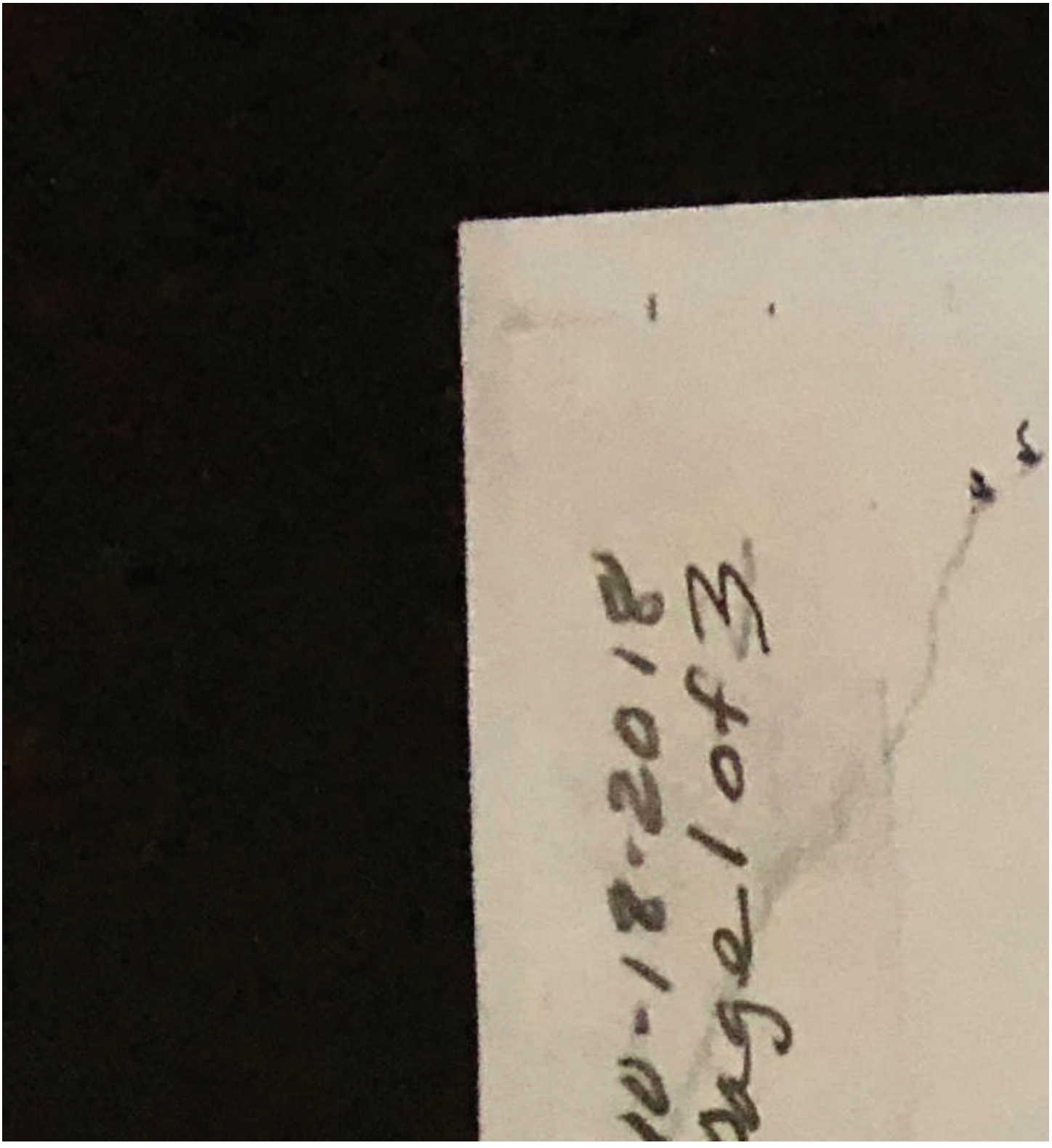
Marc,

I want to join the community here in Clairemont to support the fact that this proposed low income housing project is a grossly negligent project. Over populating a community that is already over populated and greatly increasing the risk of crime and dangerous circumstances with 3 elementary schools all within a mile of the proposed sight. Along with deflated home values you are putting together the potential destruction of all the gains Clairemont has experienced over the previous years. I understand there is a housing crisis in SD, but the level of risk this project brings to the community of Clairemont is far too great.

Regards,
Michael van Asselt

Sent from my iPhone

From: Michelle Fuchs <mrfuchs2@gmail.com>
Sent: Thursday, October 18, 2018 12:32 PM
To: Cass, Marc
Subject: Case No. WT-4224097 comment sheets



10-18-2018
page 3 of 3

ity Plan

224097

10/15-2015

page 20 #3

Plus

From: Michelle Meade <mountainschell@gmail.com>
Sent: Friday, October 19, 2018 1:47 AM
To: Cass, Marc
Subject: I'm So happy about this project...

Congratulations Chelsea Investment Company on the contract to build on the site of former county crime lab! Your prior buildings look beautifully designed. I am looking forward to the proposed drawings of this site.

Please include as much public access to the Senior Rec Space that I have heard about. Our schools and public buildings in Clairemont are lacking workable, flexible space for community meetings, small faith groups, scout meetings etc. This might even be an ideal location for the Clairemont Town Council or Community Planning Group to hold their meetings. I implore you to make sure this community space is large and openly accessible to the public. Maybe an upcycle center (thrift store) staffed by any of the proposed residents could be scheduled for rotation in the rec center space? (We like our garage sales in Clairemont) Maybe we could get some local teens to teach computer skills there? Could an immunization clinic be started at time-sensitive parts of the year (like the beginning of fall) Really, the possibilities for a large area are endless.

Could there be space permanently dedicated to an intergenerational garden and farmer's market? Maybe a WIC or CalFresh store/ eligibilty center tied into the garden. Building up shouldn't take away green space. Maybe there could even be a vertical garden incorporated into the building design particularly facing the neighbors behind the complex as they are very upset about living so close to this increased height building. Please work with already established community, government, and faith resources. The more you listen to smart, obtainable suggestions from these groups the more the community will embrace the project.

I think that this project has an immense amount of potential for integrating SDUSD and other government agencies into making the space a vibrant, community based center.

I am interested to know if Chelsea Investments will also be the property manager of the building, and if so, what are the maintenance plans? How will the residents be assured of continued rental space?

Please keep me updated. I am very interested in helping make this project a happy reality.

Thank you,
Michelle Meade
858-723-4899
--
—Michelle
Old 👀+tiny 📱may =!?

From: Midory Esquer <midory.esquer@exp.com>
Sent: Monday, October 15, 2018 11:49 AM
To: Cass, Marc
Subject: Mt. Etna Project

Dear Marc,

I'm contacting you regarding a Zoning change that would allow for a large low-income apartment building in my neighborhood.

Both my husband and I have worked so hard to finally purchase ourselves a home in a safe neighborhood for our child. Every hard earned penny goes to our mortgage and our taxes so we ca call this place our home. We are very level headed people and completely understand that there is a need for this type of housing, but we too come from families with mental disabilities where we understand the unfortunate severity of many of these future residents' conditions. We cannot have that around our little 2 year old, specially not for the price that we paid to be in our home. We are 100% opposed to this development and we are beyond heartbroken about the idea of packing up our belongings and selling our home, if the rezoning of this site does get approved.

Our concerns are as followed:

The low-income housing development at 5255 Mt. Etna Drive projects 450 plus single-family units into a four-acre space in a neighborhood that currently has around 300 single family homes. This will more than double the population of our tight knit community in one fell swoop, creating a great weight on the local infrastructure. The plan for those 450 units only procures around 250 parking spots, further impacting the traffic and street congestion. I am also concerned with the proposed development's close vicinity to the schools that my children will be attending in the years to come (two tenths of a mile from the proposed building site). I am inclined to also point out that one reason for choosing this location is that the county feels the area is a transportation hub...with that in mind a feasibility study done in February 2018 done by our own county rated the transportation in this very area as fair to poor. Which forces me to ask what has changed in the last 10 months to make it such a hub of transportation? Lastly, I worry about the "special needs residents" that the county wishes to house in this building with no local major health facilities in the immediate area.

I appreciate your time, and I would appreciate your vote of no regarding the rezoning of this area.



Midory Esquer
EXP | Lighting Designer 2
t : +1.858.597.0555, 331 | e : midory.esquer@exp.com
5670 Oberlin Drive
San Diego, CA 92121
USA

exp.com | *legal disclaimer*
keep it green, read from the screen

From: Mike Cristofani <mikecristofani@gmail.com>
Sent: Friday, October 19, 2018 11:20 PM
To: Cass, Marc
Subject: Mt. Etna Housing Project

Mr. Cass,

I and my neighbors are vehemently opposed to the Mt. Etna housing project on the site of the former crime lab based on the RFP specifications. My major concern is the density. Please keep in mind the Mt. Alifan project is already bringing almost 100 new residents to the immediate vicinity, as well as the High Tech High School opening soon, which is a charter school that requires transportation to the area for almost every student. I live at Balboa and Genesee directly in he middle of all this and witness first hand on a daily basis how impacted the area has already become over the years and how terrible the traffic is even on the weekends. Parking is already a complete nightmare with the current overcrowding of homes in the area. And the proposed number of units in excess of 400 will surely require a variance of the 30 foot height limit. A height limit on which residents have based home buying decisions and count on the City to adhere to. The influx of residents will increase the number of children that will put more strain on an already overburdened public schools. And although I'd like to remain optimistic towards the low-income housing aspect, we already have enough problems with crime at the low-income housing development on Mt. Alifan. As you can tell, my position is "enough is enough". This area of Clairemont is already doing its part. Other neighborhoods need to pony up and do theirs. The residents that live here have worked very hard for the right to enjoy their homes. Don't allow the past failures of our civic leaders continue to downgrade our quality of life by trying to push through a quick fix.

Mike Cristofani

From: Mike <mkostec1@san.rr.com>
Sent: Friday, October 19, 2018 10:07 PM
To: Cass, Marc
Subject: Clairemont Appt Project

Mr Cass,

I am writing you this evening to express my displeasure with the proposed apartment project at the County property room at the corner of Mt Etna and Genesee. As a nearby resident and very concerned citizen I feel that this is a terrible idea and poorly thought out project for this area. Traffic, crime, home values are just a few of the numerous major drawbacks of this project. I strongly urge you not to move this project forward!!

Sincerely,

Mike K.
Clairemont Mt. street resident

From: Mitchell Rice <lmrice2@att.net>
Sent: Tuesday, September 25, 2018 12:21 PM
To: Cass, Marc
Subject: Affordable Housing proposal on Mt. Etna and Genesee

Mr. Cass-

We have lived in the Clairemont area on Mt. Everest Blvd. for 35 years and enjoy the walkable neighborhood and easy access with the surrounding stores. We are in favor of affordable housing in San Diego. We realize the need and that many S.D. residents are unable to afford housing. Our chief concern is the size of this proposed development on Mt. Etna/Genesee both in the number of units and height requirements.The impact that this development will have on the surrounding area in terms of traffic and parking will be cumbersome.

This area has been developed even more in the past several years on both sides of Balboa and Genesee and the traffic flow has greatly increased. Now we also have High Tech High and other affordable housing planned on Mt.Alifan. It is critical as these housing developments are planned to not only insure quality of life for those living there but to determine how this will affect the quality of life for those already living in the area. This is the challenge in balancing this.It is also important that all areas in S.D. city and county share equally in the development of these projects. We appreciate your consideration of our concerns and hope that they will be directed to the appropriate persons.

Mitchell and Leslie Rice

From: Mitchell Armstrong <MitchellArmstrong@WhalenUS.com>
Sent: Thursday, October 18, 2018 11:11 AM
To: Cass, Marc
Subject: Clairemont Low income housing plan

Marc
Writing this as a concerned resident of 17 years in Clairemont. This proposed development at Mt. Etna/ Genesee is going to cause major issues in our community. Simply put too many people are being dropped into a neighborhood that doesn't have the infrastructure to support it. There is no room in the current schools. The Vons across the street can barely handle the crowds as it is. Traffic is already ugly at that intersection.

Regards,



Mitch Armstrong
Director of Sales
1578 Air Wing Road • San Diego, CA, 92154 USA
Tel: 1 (619) 423-9948 Ext 1705
Cell: 1 (619) 571-0068
www.whalenfurniture.com
www.lifung.com

From: Morgan Lloyd <morganlloydinteriors@gmail.com>
Sent: Thursday, October 18, 2018 1:59 PM
To: Cass, Marc
Subject: Fwd: comments for housing project

Good Afternoon Mr. Cass,

I was made aware of a low income housing project proposed for 5255 Mount Etna Drive in Clairemont. I live in the adjacent neighborhood. I have two young children. I am concerned there is not proper infrastructure to support a high density development in the area. How will there be space for the schools to absorb that many children all at once? There are not any drug rehabilitation centers or hospitals in close proximity. Will it be safe to send my kids to Rite Aid to get ice cream? The closest park is Mount Etna neighborhood park. I am scared they will be sharing the park with recovering addicts and mentally unstable people.

It does not seem that the plan for the housing project includes any additional parks, parking, or schools. It is important above all else that San Diego citizens feel safe and have an opportunity to obtain a quality public school education. I toured Holmes elementary last week and we already have kindergarden classes at 27 kids per class.

I appreciate your time and concern on the matter.

Sincerely,

Morgan L. Lloyd, LEED-AP
Interior Designer
4680 Mount Laudo Drive
San Diego, CA 92117
Tel 858.226.1379
Fax 866.467.6657

From: moreyrahimi@aol.com
Sent: Saturday, October 13, 2018 11:42 AM
To: Cass, Marc
Subject: Public Comments for the EIR, Clairemont Mesa Community Plan Amendment and Rezone, Project WT-4224097
Attachments: October 13 letter to Marc Cass.docx

Happy Saturday Mr. Cass,
Attached, please find my comments regarding the subject EIR.
I am mailing that letter today.
Thank you and best regards,
Morteza Rahimi

From: Makalani Hudgens <makalani.hudgens@gmail.com>
Sent: Monday, October 1, 2018 6:00 PM
To: Cass, Marc
Subject: Mount Etna housing

Hi, my name is Makalani Hudgens. I moved into Clairemont when I was 3 years old to attend Lafayette elementary school since they had the deaf and hard of hearing program there. I've grown up in Clairemont until I was about 21, I moved out of Clairemont/San Diego with my son. I couldn't find any apartment in clairemont that will approve me with my low income, I was just a SSI issuer. Now as of I am reading the news about the housing for Mt Etna. I am thrilled about that because I would love to move back in Clairemont where I grew up. I have a 6 years old deaf daughter now and my 16 years old son is living in clairemont with his aunt right now and is attending James A Madison High School as a junior in the music band. I would love for my daughter to be grown up in Clairemont and attend Lafayette, CPMA and Madison. I will support the idea of housing the units to Low Income Families, Foster Youth housing transitional (18-21, maybe 24) but I don't like the idea of homeless and sober living being in Clairemont with this housing project. Please do let me know if you would like me to come out and voice my concerns too. Thank you.

Sincerely,
Makalani Hudgens

From: Cynnielou <Cynnie@san.rr.com>
Sent: Friday, October 19, 2018 10:59 AM
To: Cass, Marc; ChrisCate@sandiego.gov; DManley@sandiego.gov
Subject: Mt. Etna construction nightmare

Expires: Wednesday, April 17, 2019 12:00 AM

Marc, Chris, Daniel -

While reading Clairemont's Nextdoor site I had seen that that there was a deadline to voice opinions for the proposed building of low income housing in our neighborhood.
I opted out of going to the meetings knowing that it would be a screaming match and no one on the board would be listening but needed it to passify the public so the public thought that they were being heard.

Here is my opinion (which I am sure won't mean squat):

I have lived on Mount Herbert Avenue since 1973. Where I live is close to the Genesee light. It is a race for cars to get to and from the light - cars cutting through the streets from Balboa Avenue to avoid the Genesee traffic mess - coming out of the side streets non-stop and not stopping at the stop signs on the corner and then racing down Mount Herbert to get to Genesee Avenue. (and returning the same way) So this is a little lesson on traffic that we have going on now.

THEN TO ADD the 800 more cars (everyone has at least 2 cars) that will be using these back streets to race to take shortcuts is ridiculous.

If someone worth anythings would sit and watch how many cars turn down Mount Etna from Home Depot intersection that turn on Mt. Everest to go to Balboa Avenue then to ADD all those extra vehicles they would need to build a freeway!

Where the hell would everyone park? OF COURSE - all over the neighborhood!!!

When we moved in here Clairemont Hospital was on that site. Loved having the Sheriff's Crime Lab there because it didn't generate the traffic.

We didn't buy in this area to have this be happening.

While driving on Market Street a couple weeks ago there was OPEN LAND that they could pick to build. Would be plenty of room for parking. Loitering. Buses. Grocery store. Or anywhere else for that matter.
I am assuming that none of you live in the Clairemont area or you would have the same opinion. Maybe your area would be a better choice of location.

LETTING THIS BE BUILT WOULD BE A NIGHTMARE FOR THIS ENTIRE COMMUNITY!! FIND ANOTHER LOCATION THAT WON'T HAVE AN IMPACT WITH TRAFFIC, LOITERING AND MORE FOOT TRAFFIC AND TRASH.

WHY DIDN'T SOMEONE WITH *COMMON SENSE* NIP THIS IS IN THEY BUD BEFORE IT GOT TO THIS LEVEL? (oh yeah, probably money greed - someone got paid a pretty penny by the developers!!)

Please forward this to someone who may do something about this stupid developing in a residential community.

Mrs. Stewart

From: Arlene Spencer <aspencer5015@att.net>
Sent: Wednesday, September 19, 2018 8:17 PM
To: Cass, Marc
Subject: Mt Etna Project

Dear Mr. Cass,

Regarding the Mt. Etna Project, its current proposal of making this project all low-income house, building 400 to 450 units on 3-acres including 0.5 parking spaces per bedroom, and raising the Clairemont building from its set 30 feet, is a BAD IDEA. Modify the numbers of units or change the location.

Firstly, don't make the project all low-income, include other socioeconomic income levels. Councilman Scott Sherman of Allied Gardens commented on housing where 100% of the residents are low-income in The San Diego Union-Tribune dated Sunday, August 19, 2018:

> He supports inclusionary housing, calling it the antidote to housing projects that become riddled with crime partly because 100 percent of the residents are low-income.
>
> "You want to have people of all socioeconomic groups working together and living together and getting to understand one another," Sherman said.

Secondly, lower the number of units significantly. If you put 400 to 450 units on the Mt. Etna property, you will create high-density problems in these areas. The Genesee/Balboa/Mt. Etna areas already have traffic flow problems in the morning, at noontime, and after work. They already experience parking problems on neighboring surface streets and on neighboring shopping malls. If you consider 2 to 4 people in 400 to 450 units, you are adding at a minimum of 800 people to a maximum of 1800 people assuming no more than 4 people per unit in 450 units. Adding that many people and their cars to the areas will exacerbate the already existing traffic flow and parking problems.

Lower the number of units significantly or move this project near a freeway. In Mira Mesa, spacious, luxury Casa Mira View apartments house thousands of people. The apartment development offers many amenities to encourage its residents to remain on the premises. And when they need to commute, their location next to the freeway makes it easy for them to take the freeway minimizing inundation of surface streets.

Do not assume putting the Mt. Etna Project along a bus route means its residents will take the bus. For the most part, like most residents in Clairemont, they will take their own car to commute. It is best to locate the Mt. Etna Project next to a freeway.

Lastly, keep the Clairemont 30-foot height restriction. Let's not re-interpret what 30-foot means. It is a literal measurement meant to limit the height of buildings. Keep the 30-foot height limitation. If a builder wants to

exceed that limitation, he/she can request for a variance. The variance application provides the county planning and development department time to examine whether this is good or not good for the Clairemont community.

To reiterate, modify the Mt. Etna Project by including other socioeconomic income levels, not just low-income. Lower the number of units significantly to not exacerbate the already existing traffic flow and parking problems. Relocate the Mt. Etna Project near a freeway so commuters from this project do not inundate surface street flow. And keep the Clairemont 30-foot height restriction. Builders can still request a variance.

On a different, yet related topic, revisit whether builders can have an option to buy their way out of having to provide 10% housing for low-income residents to help address the affordable housing need. Are the funds received from builders taking up this option sufficient to build affordable housing for residents of varying socioeconomic levels? It would be interesting for you to look into.

Thank you. I wish I could attend tomorrow's meeting, but I have a previous engagement. I will, however, be emailing this to Marlon Pangilinan and Councilman Chris Cate.

~Arlene

Sent from my iPhone

From: Gregory Hawkins <gregory.hawkins1@gmail.com>
Sent: Thursday, September 20, 2018 5:04 PM
To: Cass, Marc
Subject: Mt. Etna Crime Lab redevelopment

Mr. Cass,

As a resident of the area (5076 Mt Harris Dr), I would like to express my strong support for this project. San Diego's housing prices are unaffordable; the only solution is more stock. I think the smartest way to add stock is to upzone in current low density areas, Clairemont is a prime spot for more density.

Please feel free to contact me if you need a more balanced view on development. Generally, the majority of people who show up to these community meetings are older and very resistant to change. Unfortunately, people like me who support sustainable development have young children are not always able to make the meetings.

Thank you for you time.

Gregory Hawkins, PE
--
Greg Hawkins

From: Julee Jenkins <jjenkins@qti.qualcomm.com>
Sent: Tuesday, September 25, 2018 9:07 AM
To: Cass, Marc
Cc: Julee Jenkins
Subject: Mt. Etna Project at County Crime Lab

Hello Mr. Cass,

As a resident who resides very near to this location I am quite concerned regarding the number of units propsed for the Mt. Etna site in Clairemont. My primary concern is traffic on Genesee. The evening commute down Genesee is already quite congested, adding hundreds of units to this part of Genesee will most certainly increase the traffic and lengthen commute times.

My objective with this email is to ensure that we as Clairemont residents will have input on the scope, height and number of units for the proposed site prior to the city moving forward with any permitting.

I look forward to hearing any updates you may have.

I appreciate your time,

Julee

Julee Jenkins
Project Analyst, Sr.
jjenkins@qti.qualcomm.com
(858)845-2096

From: Abbie Hawkins <abbie.a.hawkins@gmail.com>
Sent: Thursday, September 20, 2018 3:55 PM
To: Cass, Marc
Subject: Mt. Etna Project Support Letter

Hello Mr. Cass,

I am a resident down the street from the proposed project on Mt. Etna in Clairmont. My husband and I recieved a letter from Karen (not sure who she is) about the project and we would just like to say that we are in SUPPORT for this project.

We fully support the height limit being raised , increased density and the need for affordable housing in San Diego.

We were unable to make it to the meeting last night because I am due with our 3rd child. We will try and make it to the next meeting but with a new born it is very unlikely. Please feel fre to share this letter of support for the project with who ever may be interested.

Thank you,

Abbie Hawkins
5076 Mount Harris Drive
(303) 829-5394
Abbie.A.Hawkins@gmail.com

From: Myra <spmaira@gmail.com>
Sent: Friday, October 19, 2018 7:39 AM
To: Cass, Marc
Subject: Clairemont Project

Good morning Marc,

We are residents of Clairemont and have major concerns with your project proposal. We live on Mount Frisell drive and are only a block from the low income properties you are proposing to build. While the idea is great and I understand the need, this is a tight community with school and businesses all around. Please re-evaluate your project as you would have concerns, like any parent, about your children's safety and crime rate if you lived here.

The Cummings Family
Myra Cummings

Sent from my iPhone

From: Nancy Jungling <nancyjungling@gmail.com>
Sent: Tuesday, October 16, 2018 3:23 PM
To: Cass, Marc
Subject: Mt. Etna crime lab project rezone

Hello Mr. Cass,
I wish to express my concern over the proposed Mt. Etna crime lab project rezone.
I live in the Mt. Etna neighborhood, and I have a child in preschool who will attend Holmes Elementary. I am already concerned about the potential class sizes at Holmes, with the current ratio being 1 teacher to 25 students. With the addition of 400 units in the neighborhood, that ratio can only be expected to rise, compromising the classroom and learning environment. I am also well aware of the current traffic patterns in the neighborhood, with the intersection of Genesee and Mt. Etna already backing up well before 8:20 in the morning during school drop off times...again,m this will only get worse with the addition of 400 units. I have seen cars attempt to speed through our neighborhood top avoid traffic backups, at speeds well over the 25 mph zoning. This concerns me with all the young children in the neighborhood, and this despite our street already having speed bumps to address such issues.
Children frequent the Mt Etna Park area, and I am not sure the project leaders have fully assessed the possible impact of 400 additional units, with multiple occupants to each. Public transportation stops are minimal at best, and it seems it would make more sense to have such a multi-unit property where multiple bus routes and trolley access would be more accessible...where will the additional cars park? Will there be additional patrol in the area as density increases? Will the canyon access at Mt. Etna Park be monitored for safety and encampments? We don't have answers to these questions, and as a parent in the community I don't feel that due diligence is being paid to exploring the effects and impact on the neighborhood.
Please reconsider this project, as the size of the proposed lot is not adequate for the scope of the proposed project.
Thank you for your time,
Nancy Jungling
(619) 787-4622

From: Nancy Woods <nawoo55@aol.com>
Sent: Friday, October 19, 2018 2:37 PM
To: Cass, Marc
Cc: Jim Sofios
Subject: Clairemont Mount Etna Project

Dear Marc / Clairemont City Planners:

In 1997, we scraped together our hard earned dollars to purchase a "fixer upper" in Clairemont. We chose the "Mountain Streets", as this appeared to be the optimal area close to work and community.

We have watched this neighborhood evolve, from original aging owners, in many cases, to young families, with children that feel safe riding bicycles and walking to the neighborhood parks and events. We have all spent "hard earned dollars", into making this neighborhood updated, and drought tolerant.

So, to hear of this new project, suddenly, re: an up to 500 unit complex that will increase an already congested area, into a traffic and parking nightmare. With the variety of patrons to be housed, we question autonomy.

We therefore vehemently oppose this project, and refuse to have our tax dollars support this going forward without our community permission.

Sincerely,

Nancy M Woods, and James Sofios at Mount Castle Avenue

From: narda crossley <narda.crossley@gmail.com>
Sent: Friday, October 19, 2018 7:58 PM
To: Cass, Marc; ChrisCate@sandiego.gov
Subject: Mt Etna redevelopment

Good evening,

I would like to contribute some of the reasons the clairemont residents and I oppose to this project, besides the ones listed below, I would like to point out the fact that UC doesn't have affordable housing and their electric cables are underground. I have the feeling that Clairemont is seen as a much lesser valuable neighborhood and we're treated as such. That's absolutely unacceptable, and I know elections are coming up, and we have had plenty of bad experiences trying to make our voices heard. If you care about our neighborhood, our children and our homes, you will stop this project.
Respectfully,
Narda Crossley

- 5 stories is too high-DO NOT CHANGE the current height restriction
-New high density plan will adversely affect near by schools that are already financially crippled due to repeated annual budget cuts
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING
-Density with low income demographics are associated with higher crime rates: The plan put forth has no extra safety measures to off set the possible increase in crime levels that will be a burden to local law enforcement

From: Natalie Bohlin <nbohlin@yahoo.com>
Sent: Friday, October 19, 2018 2:25 PM
To: Cass, Marc
Subject: Mt Etna

The plan put forth on Monday eve will not improve or align with the current community character or community plan:
Key issues:
- 5 stories is too high-DO NOT CHANGE the current height restriction
-New high density plan will adversely affect near by schools that are already financially crippled due to repeated annual budget cuts
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING
-Density with low income demographics are associated with higher crime rates: The plan put forth has no extra safety measures to off set the possible increase in crime levels that will be a burden to local law enforcement

You attention to this matter is a extreme importance to me. Please know and let your supervisors know, I Vote.

Thank you,
Natalie

From: zoomiv@yahoo.com
Sent: Friday, October 19, 2018 6:18 PM
To: Cass, Marc
Subject: Mount Etna project at the crime lab

Hello Mr. Cass,
I resident of Clairemont for more than 20 years. Like to voice my opinion about the project on Mount Etna at the crime lab. I am absolutely against changing the zoning of the location to accommodate so many residence and especially residents with developmental handicap. My kids go to school at Mount Everest Academy we just just a few feet away from the location and walk freely on a daily basis together with their friends. The school is an open campus and there is another nearby school Muir Elementary that could endanger the safety of the children. The traffic will be immensely increase with this population and the infrastructure is not designed to support so many people on this location. The apartments that you are trying to build an mainly one bedroom apartments and as claimed this will be mainly for families, which is contradictory. I'm absolutely against this project changing the zoning and going forward with it. I appreciate you taking our input on them. If there is any other way I can get involved and stop this project please let me know.
Sincerely,
Nazeeh Shaheen

Sent from Yahoo Mail on Android

From: Nicholas William Reed <nicksair@gmail.com>
Sent: Thursday, October 25, 2018 9:50 AM
To: Naveen Waney; Matt Valenti; Fisher, Yara
Cc: Cass, Marc; Jensen, Richard; Mays, Jody; Jackson-Llamas, Angela; Wood, Gary; Murillo, Felipe; Estrella, David; Ellis, Krista
Subject: RE: Mt Etna CPA CPG Subcommittee
Attachments: CCPG Mt. Etna Agenda 10-29-18.pdf

Good Morning Yara & All,

Attached is a copy of the Agenda for Monday's meeting if you had not already received it from Matt.

Yes, i will be handling A/V & Computer duties for the meeting, and all will be provided by our group.

Due to my rather fluid schedule on Monday and if you can, please have the presentation sent over to me no later than 11am. I will not be able to upload it quickly after then due to not being near decent WiFi most of the day leading up to the meeting. And the Venue has slow WiFi.

For Marc, Gary, & Krista.. Please let Matt, Naveen, or myself know as well if you have any questions or need to discuss further meeting preparations.

Have a great weekend all, and enjoy your Vacation Yara.

-Nick/CCPG Vice-Chair



Nicholas William Reed Vice-Chair
Clairemont Community Planning Group

Email nicksair@gmail.com

Cell 858-692-5263

The Main CCPG Meetings occur every 3rd Tuesday of the Month (except August & December) at the following location: Alcott Elementary School, 4680 Hidalgo Ave, San Diego, CA, 92117, USA

On Oct 25, 2018, 09:23 -0700, Fisher, Yara , wrote:

Good morning all – I am touching base about the October 29th meeting. County staff and AECOM will provide a brief presentation (probably about 15 minutes) and then be prepared to answer questions. We understand Marlon P. will also be there, and a representative from Chelsea will also be in the audience.

We anticipate sending over the presentation Monday morning. Will Nick or someone else be able to load the presentation for us? I believe Nick indicated all audio-visual resources would be provided by the CPG for us?

One other note – I am out on vacation from today until November 5th. Marc Cass will continue to be your primary contact at the County. One of my colleagues – Gary Wood, will be assisting the team for the meeting on October 29th. He helped prepare the Initiation Letter and is looking forward to interacting with you.

Because I will be out, please ensure you coordinate with Marc Cass, Gary Wood, and Krista Ellis regarding any meeting needs. They are copied here.

Thank you very much,

Yara L. Fisher, AICP

Principal Planner

AECOM

401 West A Street, Suite 1200

San Diego, CA 92101

Office: 619-610-7794; Mobile: 858-900-5594

From: Naveen Waney [mailto:nwaney@plattwhitelaw.com]
Sent: Friday, October 12, 2018 1:35 PM
To: Fisher, Yara; Nicholas William Reed; Matt Valenti
Cc: marc.cass@sdcounty.ca.gov; Jensen, Richard
Subject: RE: Mt Etna Crime Lab CPG Subcommittee

No further comments, however Yara, if you have a presentation prepared sending it to us for early review would be appreciated.

Thanks,

Naveen

Naveen H. Waney, AIA

Principal

nwaney@plattwhitelaw.com

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From: Fisher, Yara
Sent: Friday, October 12, 2018 11:01 AM
To: Nicholas William Reed ; Matt Valenti
Cc: marc.cass@sdcounty.ca.gov; Naveen Waney ; Jensen, Richard
Subject: RE: Mt Etna Crime Lab CPG Subcommittee

Thank you. That aligns with my last email sent! I hope he recovers quickly! Take care.

Yara L. Fisher, AICP

Principal Planner

AECOM

401 West A Street, Suite 1200

San Diego, CA 92101

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From: Nicholas William Reed [mailto:nicksair@gmail.com]
Sent: Friday, October 12, 2018 10:59 AM
To: Matt Valenti; Fisher, Yara
Cc: marc.cass@sdcounty.ca.gov; nwaney@plattwhitelaw.com; Jensen, Richard
Subject: RE: Mt Etna Crime Lab CPG Subcommittee

Good Morning Yara,

I will answer that question for agenda placement as i handle those duties.

Unfortunately the agenda is already set in stone for the Main October CCPG Meeting and is being posted today. So the November meeting (which you are correct is on the 20th) is what we can offer to place you on at this time. Let me know if that is acceptable.

And i apologize to all for not being fully responsive over the last few days, as my better half had Surgery last Friday and have been tending to his needs.

I will let Naveen add any further comments from here on.

Thanks.

-Nick



Nicholas William Reed Vice-Chair
Clairemont Community Planning Group

Email nicksair@gmail.com

Cell 858-692-5263

The Main CCPG Meetings occur every 3rd Tuesday of the Month (except August & December) at the following location: Alcott Elementary School, 4680 Hidalgo Ave, San Diego, CA, 92117, USA

www.sandiego.gov/planning/community/profiles/clairemontmesa/
Sign up to the CCPG Email List at clairemontplanninggroup@gmail.com.
CCPG Sub-committee meetings meet at varying locations in Clairemont, please check the agenda for the time and location of each meeting.

On Oct 12, 2018, 10:50 -0700, Fisher, Yara <Yara.Fisher@aecom.com>, wrote:

HI Matt. Thank you. Please see our question on Item #3 below. We are getting a lot of questions about whether the 16th meeting is on and whether we are on the agenda. Please confirm whether we are on the 16th agenda or whether we will be placed on the November agenda. Is that meeting the 20th? Thank you.

Yara L. Fisher, AICP

Principal Planner

AECOM

401 West A Street, Suite 1200

San Diego, CA 92101

Office: 619-610-7794; Mobile: 858-900-5594

From: Matt Valenti [mailto:mattvalenti@outlook.com]
Sent: Thursday, October 11, 2018 3:17 PM
To: Fisher, Yara
Cc: marc.cass@sdcounty.ca.gov; nwaney@plattwhitelaw.com; nicksair@gmail.com; Jensen, Richard
Subject: Re: Mt Etna Crime Lab CPG Subcommittee

Yara and Marc,

Thanks very much for the prompt responses. We'll review and get back to you with any follow up questions.

Regards,

Matt

From: Fisher, Yara

Sent: Thursday, October 11, 2:58 PM

Subject: RE: Mt Etna Crime Lab CPG Subcommittee

To: Matt Valenti

Cc: marc.cass@sdcounty.ca.gov, nwaney@plattwhitelaw.com, nicksair@gmail.com, Jensen, Richard

Hi all – this took us a bit longer than expected but provides a pretty thorough response to the questions you have sent to date. Please let us know if you have further questions and also see our request for confirmation of Item 3 below.

Thank you very much,

Yara and Marc

Please provide the following documents:

1. The development plan submitted by the selected developer and all associated documents. The Initiation Request is not for a specific project, it is for the City to consider a land use designation change from commercial to residential, adjusting the CPIOZ language, and an associated zone change to RM-3-9, which under the City's Affordable Housing Regulations would allow up to a maximum of approximately 450 dwelling units on the site. The Initiation Request before you is whether the County can move forward with the land use designation change consideration only. The selected developer proposal for future development of the site is Chelsea Investment Corp. Their contact information is: Buddy Bohrer, Director

of Acquisitions, 760-795-5612 bbohrer@chelseainvestco.com. Due to where we are in the selection process, the County is unable to release the proposals.

2. All non-privileged communications possessed by the County/AECOM regarding the Mt. Etna project. (I.e., both internal communications and communications between the County/AECOM and all third parties, including all developers who submitted proposals.) County Department of General Services has initiated a review of this request per the California Public Records Act.

Please answer the following questions:

1. Provide an update on the EIR process. The process is the same as described in the presentation at the scoping meeting September 25 located at https://www.sandiegocounty.gov/content/dam/sdc/sdhcd/docs/cd/Clairemont_CPG_Meeting_County_DGS_CPA_NN_9-18-18.pdf and as will be described in the 2nd scoping meeting described in 2 below.

2. When is the 2nd scoping meeting? The second scoping meeting is Monday, October 15 from 6-8 pm at Marston Middle School, 3799 Clairemont Drive, San Diego, CA 92117.

3. Provide revised timeline, now that the approval by Planning Commission has been rescheduled to Nov 8. Would the County consider rescheduling this meeting once again, to allow more time for the community to give input? The timeline has not yet been formally revised. Similarly, our goals for major milestone dates have not changed. The Initiation Request was submitted and Accepted by the City on August 24, 2018. The County CPA team has attended or held two public meetings to-date with one more scheduled prior to the next CPG meeting on October 16. Per the GP Amendment Manual, "depending on workload issues and agenda availability for scheduling the initiation request, the community planner should make an effort to schedule the item for Planning Commission hearing within 45 working days of receiving the request. This will require prompt action by the planning group to schedule and hear the item in a timely manner." However, the County has recently been made aware of concerns regarding the timing of the requested recommendation from the CPG for the Oct 16th agenda. In an effort to alleviate those concerns, the County CPA team will agree to postponing the item considered for a recommendation to the CPG meeting in November. It is still the intent of the County CPA team to have the item heard with a recommendation from the CPG at the City's Planning Commission in November. Please confirm with us that we will be agendized as a discussion and action item for the November CPG meeting.

4. Where are the other 8 county properties that have been identified located? For each of the properties, please identify how many and what type of units are proposed. How long will the lease be for each of those projects? As described in the County Board of Supervisors meeting on June 20, 2017, there were 11 excess properties originally analyzed for potential affordable housing reuse. Three of those properties are currently in process for affordable housing/redevelopment: Crime Lab site on Mt. Etna Dr., Family Court site that is located downtown on 6th Avenue, and the Downtown Union and A property that includes entire block bounded by Union, West A St., Front St., and West B St. The 8 other sites considered and their potential housing yield (based on existing 2017 zoning, without considering the potential affordable housing density incentive) are listed below:

1. Descanso Detention Facility 7878 Campbell Ranch Rd, Descanso, Jurisdiction: County, 18.84 acres, 2 units (8 acre lot minimum)

2. HHSA - North Inland FRC/Regional Center 600 E. Valley Parkway, Escondido, Jurisdiction: City of Escondido, 2.02 acres, 65 units (at 880 SF per unit)

3. Levant Service Center 6950 Levant St., San Diego, Jurisdiction: City of San Diego, 4.57 acre, 58 units

4. Assessor Recorder County Clerk - El Cajon 200 S. Magnolia Ave., El Cajon, Jurisdiction: City of El Cajon, 0.8 acres, 35 units (subject to City Housing Element Rezoning)

5. Southeast Family Resource Center (FRC) 4588 Market St., San Diego, Jurisdiction: City of San Diego, 2.46 acres, 62 units

6. Central Region Public Health 5202 University Ave., San Diego, Jurisdiction: City of San Diego, 0.53 acres, 17 units

7. Comprehensive Health 3177 Ocean View Blvd., San Diego, Jurisdiction: City of San Diego, Currently under lease to San Ysidro Health, SDSU WIC, 1.97 acres, 49 units

8. Health Services Complex, 3851 Rosecrans, San Diego, Jurisdiction: City of San Diego, 2.5 to 6 acres, 72 to 174 units

The County typically requests 99 year affordable housing ground leases but each property ground lease is negotiated individually with the site developer.

5. How many low income/affordable units are already located in Clairemont? The County does not have this information, please contact the City of San Diego for specific community information. We also initiated this request, but the planner has not yet responded.

6. What research, if any, has been done on the existing community's infrastructure needs? The City of San Diego maintains Clairemont Mesa infrastructure and information regarding Clairemont Mesa Public Facilities planning is found here: https://www.sandiego.gov/facilitiesfinancing/plans/clairemont.

7. What plans does the County have to help improve the community's infrastructure, if any? This issue is addressed in the FAQ located here: https://www.sandiegocounty.gov/content/dam/sdc/sdhcd/docs/cd/FAQ%27s_October_03_2018.pdf.

8. How many low income/affordable sites does the county lease out or control? How many units total? The County of San Diego has funded and restricted over 2,300 affordable housing units county wide and the County's Housing Authority currently owns 121 Public Housing Units in the City of Chula Vista.

9. What information did county representatives gain from the September 25th Scoping meeting? What thoughts and input was shared with the decision makers? Based on the CPG meeting, scoping meeting, emails, and phone calls received, we have identified the following major issues to be of concern to the community. The following list is not exhaustive and will be updated as additional scoping input is received through the October 19 scoping process:

· Development specifics: height, density, total units, housing demographics (serious mental illness, substance abuse, 50% affordable what is other 50%?), services (available to public, which ones, who will provide), safety, developer

· Community input: Lack of community visibility (not part of RFP process or able to review proposals) and input (no say regarding RFP/developer/CPA, future ministerial development , haven't received public notice)

· Process: seems backwards (no development plan before CPA/EIR), wait for community plan update, need more time

· Potential community impacts:

· parking (overflowing into community),

· traffic (already substandard ("F" level of service), access to site from Mt. Etna only, not enough mass transit, shortcuts through neighborhood),

· aesthetics (potential for looming structure, shading issue),

· safety (increased crime/drugs, construction traffic past elementary school, pedestrian safety at intersections near the site)

· noise (large development would generate more background noise),

· population/housing (increase in population),

· public services (strained by large development, burden on local library and already crowded schools, child care will be needed),

· recreation (appropriate development green space and rec facilities)

· utilities (will need to be upgraded to accommodate large development, gas line through the property)

· mitigation (adequate to address the impact)

· Location: County looked at other sites for affordable housing (what about those sites?), third affordable housing development in this community, decreased property value

10. Who are the decision makers for the county, other than the supervisors? Please provide a complete list. The decision makers for the County are the Supervisors, who will be asked to consider approval of the Community Plan Amendment and Environmental Impact Report in late 2019. The current County Supervisors and their districts are:

Greg Cox – District 1

Dianne Jacob – District 2

Kristin Gaspar- District 3

Ron Roberts- District 4

Bill Horn- District 5

The County Board of Supervisors webpage is located here, for additional information: https://www.sandiegocounty.gov/general/bos.html.

11. Does the county have other developments with low income, physically and mentally challenged, substance abuse and chronically homeless tenants? Where are they located? What oversight does the County provide? The County of San Diego has funded and restricted over 2,300 affordable housing units county wide including units for individuals and families with special needs such as physical and mental disabilities, and those experiencing homelessness. The County performs regular monitoring activities of low income/affordable housing units that have received U.S. Department of Housing and Urban Development funding or other funds through the County. These activities include reviewing annual progress report from developers, resident income/asset documentation to ensure eligibility, fiscal solvency of contractor, and insurance requirements; site visits for tenant file review and habitability of the property; and, Housing Quality Standards inspections. Monitoring activities are designed to verify that affordable housing developments followed proper procedures in leasing affordable housing units and to ensure that tenant income is calculated correctly. Additionally, the County of San Diego Health and Human Services Agency, through its Behavioral Health Services department, has partnered with the California Housing Finance Agency (CalHFA) to provide services as well as capital funding to developments throughout San Diego County that serve those with serious mental illness (approximately 235 units).

12. Has an onsite homelessness service provider been selected? If so, please identify the provider. If not, please describe the process by which such a provider will be selected. The project is a CPA and no specific development proposal is proposed that includes homeless services.

13. What oversight, if any, will the County retain regarding the operation of the development once complete? The County of San Diego Housing and Community Development Services will perform regular monitoring activities of these units. Including: reviewing annual progress reports, resident income/asset documentation to ensure eligibility, fiscal solvency of contractors, and insurance requirements; site visits for tenant file review and habitability of the property; and, Housing Quality Standards inspections. Monitoring activities are designed to verify that affordable housing developments follow proper procedures in leasing affordable housing units, to ensure that tenant income is calculated correctly and to ensure the developer maintains the units in safe and sanitary conditions.

Yara L. Fisher, AICP

Principal Planner

AECOM

401 West A Street, Suite 1200

San Diego, CA 92101

Office: 619-610-7794; Mobile: 858-900-5594

From: Fisher, Yara

Sent: Wednesday, October 10, 2018 4:21 PM

To: 'Matt Valenti'

Cc: 'marc.cass@sdcounty.ca.gov'; 'nwaney@plattwhitelaw.com'; 'nicksair@gmail.com'; 'Jensen, Richard'

Subject: RE: Mt Etna Crime Lab CPG Subcommittee

Hi all – we had meant to get you our responses by end of day today and we are just not going to make it. We will wrap them up tomorrow for your review. Thanks for your patience.

Yara L. Fisher, AICP

Principal Planner

AECOM

401 West A Street, Suite 1200

San Diego, CA 92101

Office: 619-610-7794; Mobile: 858-900-5594

From: Fisher, Yara

Sent: Wednesday, October 10, 2018 11:15 AM

To: 'Matt Valenti'

Cc: marc.cass@sdcounty.ca.gov; nwaney@plattwhitelaw.com; nicksair@gmail.com; Jensen, Richard

Subject: RE: Mt Etna Crime Lab CPG Subcommittee

Hi all – you will have responses by the end of day today. Thank you.

Yara L. Fisher, AICP

Principal Planner

AECOM

401 West A Street, Suite 1200

San Diego, CA 92101

Office: 619-610-7794; Mobile: 858-900-5594

From: Matt Valenti [mailto:mattvalenti@outlook.com]

Sent: Tuesday, October 09, 2018 11:56 AM

To: Fisher, Yara

Cc: marc.cass@sdcounty.ca.gov; nwaney@plattwhitelaw.com; nicksair@gmail.com; Jensen, Richard

Subject: Re: Mt Etna Crime Lab CPG Subcommittee

Dear Ms. Fisher,

Thank you for your message. Below are requests for documents and questions I've received from community members. If any of the requested documents have already been posted or any questions answered, please identify where they may be found on the County's website.

This should not be construed as a complete list, and I will continue to send you further requests/questions as I receive them from the community.

I appreciate your assistance.

Regards,

Matt Valenti

Chair, CCPG Ad Hoc Committee on the County Mt. Etna Proposal

Please provide the following documents:

1. The development plan submitted by the selected developer and all associated documents.

2. All non-privileged communications possessed by the County/AECOM regarding the Mt. Etna project. (I.e., both internal communications and communications between the County/AECOM and all third parties, including all developers who submitted proposals.)

Please answer the following questions:

1. Provide an update on the EIR process.

2. When is the 2nd scoping meeting?

3. Provide revised timeline, now that the approval by Planning Commission has been rescheduled to Nov 8. Would the County consider rescheduling this meeting once again, to allow more time for the community to give input?

4. Where are the other 8 county properties that have been identified located? For each of the properties, please identify how many and what type of units are proposed. How long will the lease be for each of those projects?

5. How many low income/affordable units are already located in Clairemont?

6. What research, if any, has been done on the existing community's infrastructure needs?

7. What plans does the County have to help improve the community's infrastructure, if any?

8. How many low income/affordable sites does the county lease out or control? How many units total?

9. What information did county representatives gain from the September 25th Scoping meeting? What thoughts and input was shared with the decision makers?

10. Who are the decision makers for the county, other than the supervisors? Please provide a complete list.

11. Does the county have other developments with low income, physically and mentally challenged, substance abuse and chronically homeless tenants? Where are they located? What oversight does the County provide?

12. Has an onsite homelessness service provider been selected? If so, please identify the provider. If not, please describe the process by which such a provider will be selected.

13. What oversight, if any, will the County retain regarding the operation of the development once complete?

From: Fisher, Yara <Yara.Fisher@aecom.com>

Sent: Tuesday, October 9, 2018 10:53 AM

To: Matt Valenti

Cc: marc.cass@sdcounty.ca.gov; nwaney@plattwhitelaw.com; nicksair@gmail.com

Subject: RE: Mt Etna Crime Lab CPG Subcommittee

Good morning. We are checking in on the outstanding questions you may have in order to make your CPA Initiation recommendation on the 16th. Please let us know. Thank you.

Yara L. Fisher, AICP

Principal Planner

AECOM

401 West A Street, Suite 1200

San Diego, CA 92101

Office: 619-610-7794; Mobile: 858-900-5594

From: Matt Valenti [mailto:mattvalenti@outlook.com]

Sent: Friday, October 05, 2018 11:40 AM

To: Fisher, Yara

Cc: marc.cass@sdcounty.ca.gov; nwaney@plattwhitelaw.com; nicksair@gmail.com

Subject: Re: Mt Etna Crime Lab CPG Subcommittee

Ms. Fisher, Thank you for your message. I'm reaching out to see what information the community is most interested in at this time, and I'll get back to you next week with a complete list. Regards, Matt Valenti

From: Fisher, Yara <Yara.Fisher@aecom.com>

Sent: Friday, October 5, 2018 10:37:44 AM

To: mattvalenti@outlook.com

Cc: Marc.Cass@sdcounty.ca.gov; nwaney@plattwhitelaw.com; nicksair@gmail.com

Subject: RE: Mt Etna Crime Lab CPG Subcommittee

Hello - checking in on this again to see if you need any additional information from us in order to bring a recommendation to the full CPG on October 16? Thank you.

Yara L. Fisher, AICP

Principal Planner

AECOM

401 West A Street, Suite 1200

San Diego, CA 92101

Office: 619-610-7794; Mobile: 858-900-5594

-----Original Message-----

From: Fisher, Yara

Sent: Wednesday, October 03, 2018 9:27 AM

To: mattvalenti@outlook.com

Cc: Marc.Cass@sdcounty.ca.gov; nwaney@plattwhitelaw.com; nicksair@gmail.com

Subject: Mt Etna Crime Lab CPG Subcommittee

Hi Matt. We are following up to see if you have any questions for us or a need to meet prior to the 16th. Marc and I are available if you'd like to schedule something with us. Otherwise, we are happy to answer any additional questions you have by phone, email, etc. Let us know what works best for you. Thank you.

Sent from my iPhone

From: Alejandre, Nicole
Sent: Tuesday, October 16, 2018 8:02 PM
To: Medved, Marko; Powell, Sabrina; Cass, Marc
Cc: Mays, Jody
Subject: RE: Mt Etna Complaint

I did speak with Mr. Hagood and let him know if we had any answers to the FAQs asked in the two meetings we would be sure to send them to him. He also mentioned that he had already sent a letter to Marc and was planning to send letters to the Board of Supervisors.

From: Medved, Marko
Sent: Tuesday, October 16, 2018 12:32 PM
To: Powell, Sabrina; Cass, Marc
Cc: Mays, Jody; Alejandre, Nicole
Subject: RE: Mt Etna Complaint

Thx. Believe Nicole already discuss with him.
Marc can take this in as a public comment.
Marko

From: Powell, Sabrina
Sent: Tuesday, October 16, 2018 12:14 PM
To: Medved, Marko
Cc: Mays, Jody ; Alejandre, Nicole
Subject: Mt Etna Complaint

George Hagood – Georgeh73@icloud.com Mt. Etna – wants to voice his very strong opinion against this project. Wants to use the building for a hospital as it was intended and use it to treat older adults with dementia and Alzheimer's. The high rise will ruin the neighborhood and they don't want that in the area.

Thank you,
Sabrina Powell
Administrative Secretary
Dept. of General Services
(858) 694-2338

Safety – Live with it!

From: Nicole Dietz <Nicole.Dietz@vistage.com>
Sent: Wednesday, October 17, 2018 4:35 PM
To: Cass, Marc
Subject: Mount Etna Project

Importance: High

Dear Marc,

My name is Nicole Dietz and I have been a resident of Clairemont Mesa for the last 10 years and of San Diego for 42 years. I am sickened by the irresponsibility of the proposed project for low income apartments on the corner of Mount Etna and Genesee….1 block away from a HIGHLY ranked elementary school (rated 10 out of 10 on Greatschools), a few blocks away from a Park and near multiple families. While I am not opposed to this type of housing…this is a completely irresponsible location for such establishment. Additionally, the congestion and space is not sufficient to support the additional units.

Clairemont Mesa is an up and coming location. We are in the process of signing a $300K construction contract to upgrade our home and are no seriously considering relocating as our family is a few blocks away on Mount Harris.

This project cannot go through. Would you like this 1 block from your home????? There will be quite a few people relocating if this project is not stopped.

Nicole Dietz
Vice President, Controller

858.480.2334 Direct | 619.846.9712 Mobile | nicole.dietz@vistage.com | vistage.com
Vistage Worldwide, Inc. 4840 Eastgate Mall, San Diego, CA 92121

Our Purpose:
To help high-integrity leaders make great decisions that benefit their companies, families and communities.

VISTAGE
Private advisory groups for CEOs, executives and business owners.

From: Nicole Maston <nicole.maston@gmail.com>
Sent: Wednesday, October 17, 2018 8:14 PM
To: Cass, Marc
Subject: Mount Etna Project

Hello Marc,

I live in the mount street neighborhood off of Clairemont and am very concerned about the proposed re-zoning project at the old crime lab. I only became aware of this issue tonight and would have attended meetings if I had known before.

Additionally it is concerning that there are so many low income / high risk projects within a close vicinity in Clairemont (reference Mt Alifan).

In particular, I am concerned about parking, traffic impacts, safety / crime, and the negative impacts on the community in general. Finally, I am concerned about the potential negative impact on the value of my home. It does not appear as though these concerns were adequately addressed.

I drive and walk by the old crime lab project on a daily basis, so this would heavily impact me.

Please do not move forward with this project as proposed.

Thanks,
Nicole Maston

Sent from my iPhone

From: Nicole S. <nicolemjwalden@hotmail.com>
Sent: Saturday, October 20, 2018 1:23 PM
To: Cass, Marc
Subject: Mt Etna project site

Dr. Mr. Cass,

Please do whatever it takes to stop the rezoning plan for the Mt. Etna crime lab site. I was born and raised in Clairemont and now enjoy raising my children here. I am sure such a change would harm this fine community. I do not want this proposed site to be a high-rise building for any reason. I also think the addition of low income residents is not a safe move for this community. Please stop this huge mistake.

Sincerely,
Nicole Spuhler

From: Norman Johnson <njohnson22@san.rr.com>
Sent: Saturday, October 20, 2018 3:36 PM
To: Cass, Marc
Subject: Reject rezoning for low income housing

Dear Mr. Cass,

Four hundred units for seniors, families, and developmentally disabled people along with hundreds of parking spaces far exceeds reasonable usage of the property at Balboa and Genesse. Clairemont neither wants nor needs this blight on our community.

Heavy traffic already present in this area guarantees more L.A type congestion.

The proposed development will crush property values in the surrounding neighborhoods.

Schools will be heavily impacted and danger to Children will be greatly heightened.

As has been demonstrated on numerous similar projects, crime will increase thereby negatively effecting adults and children alike.

Please Mr. Cass, do all you can to prevent rezoning for this unfortunate project!

Sincerely,

Norman Johnson

P.S. Why have we not heard about this plan before?

From: polski@san.rr.com
Sent: Friday, October 19, 2018 2:56 PM
To: Cass, Marc
Subject: Mt. Erna Project

Hello Marc! I am writing to you to let you know how much I oppose the Mt. Erna project. A five story building with 400 units in that space is beyond ridiculous. That general area is already overcrowded and to add 700-1,000 more people is incomprehensible. A scaled down 2 story 50-75 unit building would be more doable for that area. Better yet, how about building this huge project on a different site all together. The county has plenty of vacant land. High rise buildings belong downtown, not in Clairemont!! Pam Sobczyk

Sent from my iPhone

From: Patsy Lippiatt <patsylippiatt@gmail.com>
Sent: Wednesday, October 17, 2018 11:26 AM
To: mpangilinan@sandiego.gov; Cass, Marc
Subject: MT Etna Project

Hello ,

Now on to the new issue, as a Clairemont resident I am opposed to the Crime Lab housing site on Balboa and Genesee. Traffic on Genesee and Balboa is already very bad. The neighbors have filed many complains with your office directly and the police regarding the increasingly worse situation of red light runners and blocking the intersection.

Where would these people park? Will the building have 2 spaces per unit? Will there be visitor parking? As you likely know, there is already a low income housing project slated up in our neighborhood on the south side of Balboa. The County should find another use for this building .

Bottom line Clairemont does not want this development in our neighborhood. What can you do to help?

Regards,

Patsy Lippiatt

From: Rachel Semanisin <rsemanisin@gmail.com>
Sent: Friday, October 19, 2018 1:20 PM
To: Cass, Marc
Subject: Mt. Etna Project

Dear Mr. Cass,
As a resident of Clairemont I strongly oppose the Mt. Etna project as it currently stands. 400 units in that section of Clairemont will add a significant amount of traffic and noise to an already overcrowded area. I'm not opposed to more housing there but I'd like to see fewer units.
Clairemont is a wonderful community already filled with low income families. The majority of the schools in the area receive title 1 funding and the parents in the community have taken a proactive approach to moving away from that. Adding this project to Mt. Etna would set back their efforts. Please oppose this project in our area.

Sincerely,
Rachel Semanosin

From: Randy Cremer <rwcremer@hotmail.com>
Sent: Friday, October 19, 2018 12:03 AM
To: Cass, Marc; ChrisCate@sandiego.gov; nwaney@plattwhitelaw.com
Subject: Mount Etna Low Income Project - Upset Clairemont Resident

October 18, 2018

Marc Cass, County of San Diego, Department of General Services
Chris Cate, District 6 City Council Member, San Diego City Council
Naveen Waney, Chair, Clairemont Community Planning Group

Hello,

I recently learned, by word of mouth, of a plan to cram in a massive 400+ low income unit complex into a tiny 4 acre lot off Mount Etna. Every single house in our neighborhood is a single-detached dwelling... and has been since inception of our neighborhood. I honestly have no clue how someone dreamed this plan fits within the character of our neighborhood. There is a reason why this land was zoned for commercial use only; it was NEVER intended to be residential... especially not a giant 5-story complex.

The number one priority, when planning a project of this nature, should be to safeguard the essence of the target neighborhood. This project doesn't do that. This project actually tears at the very fabric that makes our neighborhood so great. This project is exactly why we didn't buy downtown or in University City. We bought here because this area wasn't built up. What's being shoved down our throats essentially doubles the number of residents of our neighborhood by shoehorning in this behemoth complex into a tiny lot that was NEVER intended for residents. IT DOESN'T FIT HERE!

We don't want this project for a number of reasons:

- **Traffic congestion.** Traffic here is already a bit tough to manage. Cramming in 1500+ additional people is going to make our neighborhood really frustrating to navigate... and will potentially double my commute time.
- **Elevated Crime.** Crime is ALWAYS higher in low income areas. I'm certain the majority of people set to live in this complex would be lawful... we all get that; unfortunately, a high percentage won't be. Crime in our neighborhood is pretty low today, but your plan would drastically increase the crime rate. We feel safe in our neighborhood today, but that'll change with this proposal.
- **Commercial Zoning.** The zoning for this area is not conducive to this plan. This land is not zoned for residential use. We are NOT open to a change in the zoning.
- **Single Entrance.** Looking at the plan, there's only one entrance. Seriously?
- **Public transportation.** I'm guessing the majority of people housed in this proposal would utilize public transportation, yet the bus system in this area is pathetic at best.
- **Five stories.** The size of this project is completely absurd and doesn't fit the character our single-family detached home neighborhood.
- **Real Estate Values.** This plan will absolutely cause our real estate values to tank.

I have to bring up communication on this project. This part is pretty infuriating. The communication from the County... or the City for that matter is an absolute train wreck. The fact that this project kicked off months ago and we just learned about it on Monday is stunning. Seriously, what's wrong with this picture? At a meeting we attended on 10/15 it was stated that notices were mailed out... yet only two of roughly 100 people who attended the meeting received these notices. If notices were going out, and only 2% of the people received them... where did the other 98% go? The perception doesn't look good... and actually seems pretty suspect.

Look, I know there is good reason to push for these projects... and I'm sure your hearts are in the right place... but shoving a project like this down our throats... into a neighborhood of single family detached homes is just awful. The fact that I need to point that out is pretty unbelievable.

What little time we have left will be spent trying to get the word out. EVERY resident I've spoken to in our neighborhood is completely against this plan. Every single one. I'm hopeful the County and City will reconsider another area where this project actually fits. The Mount Streets of Clairemont is NOT the right fit.

Respectfully,
Randy Cremer
4192 Mount Putman Ave
San Diego, CA 92117
rwcremer@hotmail.com
619-534-0349

From: Readean Ellis <memawellis6@gmail.com>
Sent: Wednesday, October 17, 2018 10:14 AM
To: Cass, Marc
Subject: Mt. Edna Project

County of San Diego
Department of General Services
5560 Overland Avenue
San Diego, CA
October 16, 2018

Attn: Marc Cass

I've been a Clairemont resident for 59 years and have appreciated the opportunity to raise our children and grandchildren in a quiet friendly safe environment. The fact that this Mt. Edna Project along with the Mt. Alifan Project has changed our community into a low income housing district is heart breaking. Not only would the rezoning cut our property value in half, it would greatly impact our small neighborhood schools and our family park and little league field would be the perfect place for an "undesirable element" to hang out exposing our children to numerous dangers. The Balboa/Genesee intersection is already very congested, so I can't even imagine what would happen with the addition of 454 more cars, not to mention the added street parking that would be needed too accommodate all the additional cars in the neighborhood! I know for a fact, to avoid that intersection, traffic would re-route through our quiet neighborhood streets causing a danger to the children and impacting the quality of our already deteriorating roads, because it is already happening.
I understand the need for low income housing, but why put it in the middle of a quiet family community with the excuse that it needs to be close to public transit and stores. I'm pretty sure there must be less expensive land available in east county that has easy accessibility to the transit system, supermarkets and stores.
I know you've already heard all these concerns and much more. I am adding my voice to the 100's of families that say.....we don't want the Mt. Etna Project and all the crime, traffic, parking, congestion, noise and pollution that would come with the rezoning of our family community. I can only hope that someone is listening. Thank you for reading this.

Readean Ellis
A Concerned Resident of Clairemont

From: Becky Jarrett <rutteb@gmail.com>
Sent: Thursday, October 18, 2018 6:11 AM
To: Cass, Marc
Subject: Mt. Etna Crime Lab

I am a 10 year Clairemont resident, mother of 2. I understand the need for affordable low income housing and I am not saying that we shouldn't be creating options for all people or "not in my backyard", however the sheer size of the project concerns me. A 450 unit affordable housing option is too big for this small single family home neighborhood. Without adequate parking options, the traffic and spill over will affect the whole neighborhood.

My other concern is the mentally ill and drug addicts. Again, I support finding a place for them to live and thrive...but also have concerns about how that will affect my own children, 10 and 13. We are trying to give them increasing independence in this community, but if it becomes a place where I have to worry about what/who they will see/encounter, I will have to restrict that freedom more.

I would be more likely to support a smaller scale, family and elderly affordable housing project. It seems that if something is going to be put in that space, it should help people AND fit the community. There are a lot of good families in this neighborhood who would support helping other families get back on their feet. We also have a lot of elderly in the neighborhood and maybe some type of connection could be made there. But drug addicted and mentally ill people are not the right fit. We already have a growing population of them in our community parks and in the nearby shopping centers. Break ins for those living closest to the canyon have been on the rise.

A 450 unit complex is NOT right for our neighborhood.

Thank you for your time.

Rebecca Jarrett
Clairemont Resident

Sent from my iPhone

From: Richard Jensen <rwjok@hotmail.com>
Sent: Friday, October 19, 2018 3:20 PM
To: Cass, Marc
Cc: Chris Cate
Subject: Public Scoping Meeting Comments. Case No. WT-4224097

Please address these comments in the EIR.

1) Fails to follow community plan.
2) Effects of increase density (400+ units/1000+ people) to adjoining single family neighborhood.
3) Increase in height (double) above 30' height limit.
4) Lack of ingress/egress for 400+units.
5) Visual effect and neighborhood character.
6)Effects of increased traffic and circulation on existing 2 lane neighborhood streets. Include cut through traffic from Balboa Ave. and Genesee Ave.
7) Lack of public transportation. Currently rated fair/poor.
8) Loss of job opportunity due to rezoning.
9)Conflicts with Specific Plan Guiding Principles of ensuring"that new development respects general mass, volume and scale of the existing built environment",and "to improve visual quality". Visual Effects and Neighborhood Character impacts would be significantly lessened with a Low Height, Low Density alternative.
10) A combination of Seniors, Disabled, Mentally Challenged, Low Income and Affordable Housing tenants at one site is experimental and untested. Empirical and anecdotal evidence would imply such a cramped site and proposed density would cause sever problems and even failure for many of the people most in need of assistance. There is no site in the City or County that has this mix in one small location. 400+ units, 1000+ people. No facts point to success.
11) Air Quality due to increased traffic and LOS F intersections.

From: Rick Rossiter <rjrkhome@gmail.com>
Sent: Friday, October 19, 2018 1:55 PM
To: Cass, Marc
Subject: Mt. Etna Project

Marc,

I have been to most of the meetings regarding the project and I would like to voice my concerns.

First off I fully agree that this property should be redeveloped and put to good use. I also agree with putting Low Income housing there with approval.

The parts that I fully disagree with is the density you are requesting. Lot is permitted to just over 100 units and the county wants to put in 4 times that amount. This is just to much density to put in a tight area like this. Especially without it having exit to a major road.

You have to realize the major push back on this is because if it goes through then you have opened the door for other properties to be changed from Commercial to Residential with a high density. Just look around at all the commercial property that could be bought and changed into high density. Just not acceptable.

It's still confused why the county is actually trying to put such high density there. Just put 100 units and move on. That would be two new projects withing 4 blocks of each other within the next 2 years.

Also I heard the developer can opt out of low income with a fee. This is not acceptable.

I have been in Clairemont since I was 6 years old. I have been in my Clairemont home for over 23 years which is a few blocks away from the Mt Etna project.

Thank you for your time.

--
Rick Rossiter

From: Rita Florea <ritamcfree@san.rr.com>
Sent: Thursday, October 11, 2018 8:05 PM
To: Cass, Marc
Subject: Case No. WT-4224097 Former Crime Lab Project

I am opposed to the zoning change for the 5255 Mt. Etna Drive (former Crime Lab) project.
Don't change the zoning from DISCRETIONARY to MINISTERIAL. The Mount Streets of Clairemont are a community. The height and other issues could be changed at the whim of the developers and the community needs to be able to have input. The community west of Genesse Avenue is made up of all single family homes. There isn't a tall building or apartment complex anywhere in the area. There is an ELEMENTARY SCHOOL at Mt. Etna and Mt. Everest. The SAFETY of these children should be a BIG CONCERN, with the tenants in the proposed complex to be made up of 1) Persons with serious mental illness or substance abuse, 2) HIV/AIDs persons, 3) at risk youth, 4) survivors of domestic abuse. This Mt. Street community is made up of middle class residents who have worked hard to maintain a comfortable and well kept home. The quality of life for these residents would be compromised by adding **over 400 units**. Nothing has been mentioned about green space/recreation for the area. Where are the tenants going to go - into the streets?
The Genesee Avenue businesses, Target, Home Depot and Sprouts, create a huge amount of traffic already. To drive west on Balboa Avenue, from Genesee Ave, to Clairemont Drive at rush hour sometimes takes up to 3 light changes to get through NOW. Balboa is a two lane street, and the stress on it from a multitude of additional automobiles would be horrific.
SUGGESTION: Why not consider the property for HOUSING FOR SENIORS or Memory Care. There are medical facilities right there which would HELP ease the life of the residents.
So, PLEASE DON'T Change the current zoning, or at least, don't make the designation Ministerial.
Rita Florea
3682 Mt. Abbey Ave. - just celebrating 42 years at this address
San Diego, 92111

Virus-free. www.avast.com

From: Rita Florea <ritamcfree@san.rr.com>
Sent: Thursday, October 11, 2018 8:05 PM
To: Cass, Marc
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So, PLEASE DON'T Change the current zoning, or at least, don't make the designation Ministerial.
Rita Florea
3682 Mt. Abbey Ave. - just celebrating 42 years at this address
San Diego, 92111

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From: Rob Thompson <thomperyt@gmail.com>
Sent: Monday, October 15, 2018 1:05 PM
To: Cass, Marc
Subject: Crime Lab Project in Clairemont

Hello -

I'm Rob Thompson and a Clairemont resident and am opposed to the Crime Lab site on Balboa and Genesee.

Traffic on Genesee and Balboa is already very bad. The neighbors have filed many complains with Chris Cate and the police regarding the increasingly worse situation of red light runners and the increase of homeless and drug users in the Vons shopping center.

Placing more individuals in this small area when there already is a planned shelter less than 150 yards away on the other side of Vons is absurd.

I care less about the environmental report and more that this project is halted immediately based on the safety of those who already inhabit this area with a high population density.

-Rob Thompson

From: Rob Fischlowitz <imrobfish@gmail.com>
Sent: Friday, October 19, 2018 7:55 AM
To: Cass, Marc
Subject: your Clairemont problem...

Good morning Marc,

As the subject line states, you really do have a problem on your plate.

Is there a need for lower income housing? Yes.
Is the proposed site (old Crime Lab) the right location? No.

Besides the reasons of building height, no local community input, parking fiasco, and a long list of other negative aspects...how about the most obvious fact.
The proposed location is nowhere close to other city/county institutions of support and services for the proposed residents. Where are all of these? Downtown.
Because the proposed location is vacant and available, does not make it the right choice for the proposed re-purpose.

Seems obvious to me.

Local resident, business owner, and tax payer.

Robert Fischlowitz

From: Robyn Fagnan <rlfagnan78@gmail.com>
Sent: Friday, October 19, 2018 3:02 PM
To: Cass, Marc
Subject: Mt Etna Project

To whom it may concern,

As a resident of Clairemont, I am opposed to the vision of this property described in the RFP. We have gathered 388 signatures of residents who oppose this project.

https://www.change.org/p/residents-of-clairemont-clairemont-residents-say-no-to-the-clairemont-community-plan-amendment-rezone-project

We DO NOT want the following:

1. Increased Density
2. 100% low to extremely low income residents
3. Any Rezoning
4 Increased traffic and burden placed on our schools due to over crowding
5. 100% residential space
6. Any change in the Height regulations

The only people this is good for are the developers who will receive tax credits and density bonuses. The developers are not giving anything positive to the community. The residents were clearly ***not*** taken into consideration. Shame on the county- they identified 11 locations and rather than each area doing their part, they are adding ANOTHER low to extremely low income housing project in an area that currently has 364 units dedicated to low and extremely low & homeless housing. How about finding another location so everyone does their part, not just Clairemont.

Regards,
Robyn Cristofani

From: Rudy Larsen <rudyalarsen@gmail.com>
Sent: Friday, October 19, 2018 12:35 PM
To: Cass, Marc
Subject: Mount Etna Project

Good day Mr. Cass,

Lately I have received a lot of information regarding the proposed project on Mt. Etna. From what I have heard from concerned citizens now as me a little concerned. My house is located very close to the proposed project and with 2 young kids I don't want to see 400 low or extremely low income apartments built within .25 miles from my house.

I am taking in the information that I have received with an open mind. I would like to hear your side of the story. Can you please provide me with any and all information that would help me understand why this project is important?

Thank you for your time

Rudy Larsen

From: Ruth McCormick <ruth.mccormick@hotmail.com>
Sent: Friday, October 19, 2018 3:24 PM
To: Cass, Marc
Cc: kevinfaulconer@sandiego.gov; ChrisCate@sandiego.gov
Subject: Mt. Edna Affordable Housing

-5 stories is too high--DO NOT CHANGE the current height restriction
-High-density plan will adversely affect nearby SCHOOLS that are already financially crippled due to repeated annual budget cuts
-Nearby streets (esp. Mt. Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING-Density and low-income demographics are associated with high crime rates: The plan put forth has no extra safety measures to offset increases in crime levels that will be a burden to local law enforcement

Thank you for your attention to this important matter.

From: Ruth McCormick <ruth.mccormick@hotmail.com>
Sent: Friday, October 19, 2018 6:44 AM
To: Cass, Marc
Subject: Mt. Etna Project

Please, think about this and how unfair it is to Clairemont:

https://www.sandiegoreader.com/news/2018/jul/23/stringers-county-proposes-apartments-old-crime-lab/#



Cate to Clairemont: Drop dead | San Diego Reader
Quentin lives about three blocks from the proposed project. His biggest concern is the number of proposed units. "When the project was scheduled for [116] units, it would have had a noticeable ...
www.sandiegoreader.com

From: Ruth McCormick <ruth.mccormick@hotmail.com>
Sent: Friday, October 19, 2018 6:31 AM
To: Cass, Marc
Subject: Mt. Etna Project

No, no, no! This is so wrong on so many levels!

From: Ruth McCormick <ruth.mccormick@hotmail.com>
Sent: Thursday, October 18, 2018 12:23 PM
To: Cass, Marc; Jackson-Llamas, Angela
Subject: Mt. Etna Project

Imagine that you have lived in your home for 30 years. You love your house. You bought in the community because it had a "neighborhood" feel to it. The shopping is so convenient and close. Your neighbors are a family with young children who recently bought the house next door because they chose to live in the community for the same reasons you did.

Imagine that one day the government and some developers tell you that they are going to take away your neighborhood, that in your backyard, on a small parcel of land, will be a large barracks of a building (a "project") that will house hundreds of people who have had lots of trouble in their lives. Many of these people will have substance abuse problems and severe mental health issues that require treatment.

Imagine that the government will not be forthcoming about this, that it will try to shut you out and ramrod a change in the zoning to allow for this building and future high-density, multi-story buildings to be built on small parcels in your community. Eventually you learn that there are no plans to update the infrastructure to accommodate the housing, no plans to mitigate traffic and parking issues, no plans to deal with overcrowding at the two elementary schools that are very close by, no plans to ensure the safety of the children walking to school, no consideration given to the impact on property values and the character of the neighborhood.....

The media coverage is bare-bones, saying that the people of the community oppose affordable housing. The implication is what a bunch of jerks you are for not welcoming the project. The community is told that it needs to "step up and get with the program." You try to point out to anyone who will listen that you are not opposed to doing your share but, you say, my community has already done its part! There is already lots of low-income housing in Clairemont, and a new affordable project for seniors will be built nearby. You wonder, why isn't every community in the county, LaJolla to LaMesa to Sorrento Valley being required to step up and do their part?

The government cannot say how this project will benefit your community in any way. You say, well, if this project is inevitable, the density must be lowered drastically. As it stands, this is way too many people crammed on a 4.09 acre parcel that is zoned for a hundred or so residents, not 1,000 residents. Ameliorate the density and traffic and safety and school issues, put a community center and a public green space, perhaps a retail space in the plans. Make this a part of our community that we can be proud of. Make it right, you think, and the community will support it.

From: Ruth Roberson <ruthcroberson@gmail.com>
Sent: Friday, October 19, 2018 5:01 PM
To: Cass, Marc
Subject: Mt Etna housing project

Mr. Cass,

-Clairemont has already done its part in taking on affordable housing. Move this project to another part of the city.
- 5 stories is too high-DO NOT CHANGE the current height restriction
-New high density plan will adversely affect near by ***schools*** that are already financially crippled due to repeated annual budget cuts
-Near by streets (esp. Mt Etna) are already too congested at peak hours; proposed high density will adversely affect local traffic and parking
-DO NOT CHANGE CURRENT ZONING

Respectfully,
Ruth Roberson

Sent from my iPhone

From: Ryan R <rollacoasta2002@gmail.com>
Sent: Thursday, October 18, 2018 11:46 AM
To: Cass, Marc
Subject: R. Rolla / Mt Etna Project / Public Comment
Attachments: Mt Etna_Traffic.pdf

Mr. Cass,

My name is Ryan Rolla, I am a member of the Clairemont Community Planning Group and have family that has lived on Mt. Etna Drive since ±1962.

This is my personal public response about the proposed development at the former SD County Crime Lab located at 5255 Mt Etna Drive.

Based on reviewing the February 2018 " COUNTY OF SAN DIEGO AFFORDABLE HOUSING PHASE II FEASIBILITY ANALYSIS SAN DIEGO, CALIFORNIA - FINAL"

https://www.sandiegocounty.gov/content/dam/sdc/dgs/Doc/RES_DO_CrimeLabFamCtAFHAppA6.pdf

I agree with the "CRIME LAB FINDINGS AND RECOMMENDATIONS" (Page 44) :

" Also displayed in Table 1-1 and Appendix A, four hypothetical prototypes were tested for the Crime Lab site. ***The three rental prototypes include a total of 116 units, which is the maximum number or residential units allowed under current base zoning, even with an exception.*** *The three rental prototypes include a ground floor retail component that would be neighborhood serving, while the fourth prototype is 100 percent for-sale market-rate community."*

The recommendation that was prepared for the site for the County, recommends no more that 116 units, which is inline with the Clairemont Community Plan.

The current proposal that the Developer "Chelsa" has presented is 450+ units, requiring Zoning and Community Plan amendments.

How a developer could offer a RFQ Proposal, ignoring the recommendations of the County's own feasibility analysis is irresponsible.

The traffic impacts from such a development will only have a direct negative impact on the surrounding neighborhood, that already has a traffic calming measures in place.

Please see the below/attached graphic, clearly showing how the residents enter/exit the neighborhood, specifically coming from closest freeway access points (I-5 and SR-52).

The impacts will be clearly defined in the EIR, mitigators will have to put in place, even if the development was only 116 unit as recommended.

The "TOD Priority" area that is being tauted only has two bus lines (41 running N/S, 27 running E/W), of which the 27 does not run with a schedule to support the developers proposed density.

The surrounding community is defined by it canyons, which inhibit ease of access for pedestrians and bicyclists.



Most residents of the "Northern Mount Streets" Neighborhood (highlighted in Blue), enter from:
- Mt Culebra Ave off Balboa Ave
- Mt Herbert Ave off Genesse Ave

Most residents of the "Northern Mount Streets" Neighborhood (highlighted in Pink), enter from:
- Mt Culebra Ave off Balboa Ave
- Mt Everest Blvd off Balboa Ave
- Mt Foraker Ave off Genesse Ave

As there are 5 Streets within the neighborhood that already have Traffic Calming measure in place, due to the high volume of existing residents cutting thru side streets vs feeder streets.

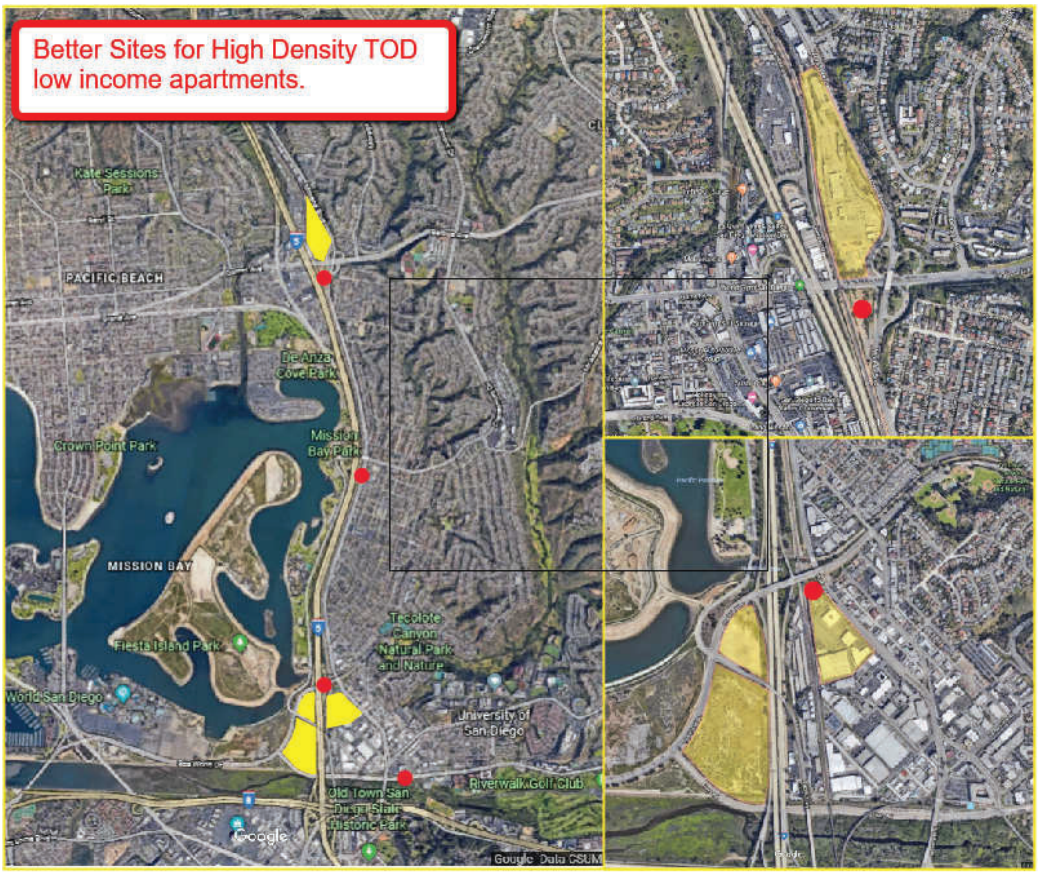
Additional density, in excess of the Feb 2018 "CRIME LAB FINDINGS & RECOMMENDATIONS" of 118 units, will significantly negatively impact the residents of this neighborhood.

The EIR will need to identify this and offer mitigators if additional density, in excess of the Feb 2018 "CRIME LAB FINDINGS & RECOMMENDATIONS" of 118 units is prusued.

This site at 5255 Mt Etna Drive is not suited for the proposed density that the developer has presented. However the site is suited for the 116 units that were recommended within the February 2018 " COUNTY OF SAN DIEGO AFFORDABLE HOUSING PHASE II FEASIBILITY ANALYSIS SAN DIEGO, CALIFORNIA - FINAL"

There are several other sites that much closer to the new MCTC Trolley project, perhaps the proposed density can be made up at those sites that are within walking distance to the the new trolley stops.

- SD City Rose Canyon Operations Yard adjacent to the new Balboa Trolley Stop
  - Move to the Operations Yard to Fiesta Island
- Toys 'r us / Jeromes site adjacent to the new Tecolote Trolley Stop
- "OTL overflow parking lot"
- Open Space bordered by Sea World Dr, Friars, PCH and I-5



Thank you for reviewing my comments, i look forward to a direct response.

Ryan Rolla
CCPG member
619-203-4849
rollacoasta2002@gmail.com

From: Sakina <sakinaclaytor@gmail.com>
Sent: Friday, October 12, 2018 6:48 AM
To: Cass, Marc
Subject: Mt Edna/Genessee Housing

Dear Sir,

I own a home on 4765 Mount Durban which my son lives in. I am opposing the building for the affordable housing that is being proposed in that area. I am most concerned about the parking issue and safety of the neighborhood. Crime is getting higher in the area and now with the housing proposal, I know it will be worse.

Please help us keep our neighborhood safe and crime free.

NAMASTE!

SAKINA CLAYTOR
808-594-9044
sakinaclaytor@gmail.com

"Doing the right thing, in the right way, at the right time, in the right place, for the right reason, with the right feeling ... the first time!"

From: Hentrich, Katie <Katie.Hentrich@sandag.org>
Sent: Tuesday, October 9, 2018 1:52 PM
To: Cass, Marc
Cc: Litchney, Seth
Subject: Clairemont Mesa CPA and Rezone NOP - SANDAG Comments
Attachments: Clairemont Mesa CPA and Rezone NOP - SANDAG Comments.pdf

Dear Mr. Cass,

Thank you for the opportunity to comment on the County of San Diego's Clairemont Mesa Community Plan Amendment and Rezone Project Notice of Preparation. Please see the attached comments from SANDAG. If you have any questions or concerns, please contact myself or Seth Litchney (seth.litchney@sandag.org).

Thank you,

Katie Hentrich
Associate Regional Energy/Climate Planner

SANDAG
(619) 595-5609
401 B Street, Suite 800, San Diego, CA 92101



Facebook | Twitter | YouTube | Instagram

From: Sara Oswald <saraoswald@gmail.com>
Sent: Thursday, October 18, 2018 7:46 PM
To: Cass, Marc
Subject: comments: housing proposal for Mt. Etna

Hello Marc,
I am writing re. the 400 unit proposal for Mt. Etna Ave. in Clairemont. I am a retired teacher (San Diego City Schools) and have lived on Mt. Castle Ave. for over 25 years. I am not against housing for senior citizens or at-risk populations in Clairemont. We already have both. A friend recently moved into an assisted living home in Clairemont. A sober-living home in Clairemont has 24/7 onsite supervision; they manage a tightly run program for residents who are dealing with issues of drug and alcohol abuse. What I am against is 400 units and (conservatively speaking) 800 residents living on 4 acres of land with no green space, on a busy intersection, in a building literally surrounding a parking lot for over 400 vehicles. No one should have to live that, anywhere, in 2018 or 2021.

My elderly neighbor who recently moved into assisted living used to cover the neighborhood with his walker. He'd walk along Mt. Etna and cross Genesee on his way to Home Depot. I told him he shouldn't be doing that, especially at night. He told me he'd learned to navigate 'suicide corners'. I'm grateful he is no longer attempting that crossing. It is an intense, multi-laned intersection. Anyone (especially the elderly or disabled) shopping for groceries, going to Target or wanting or get out of the house, will be at risk. Traffic will only get worse over time….with or without a 400 unit development.

Has the developer or anyone on your board been to our closest green space…Mt. Etna Neighborhood Park? It's about 3-4 actual blocks away from the site. However, the blocks are long along that stretch of Mt. Etna…it's equivalent to 5-6 traditional blocks. The elderly and disabled will not be able to walk that far and back. The developer's slide showing a green space across the street from the proposed building is fictionalized. It's only a narrow stretch of grass outside several restaurants with trees down the middle. Police regularly pick up individuals who loiter in that area.

How many people will have a view only into someone else's home? How many windows open onto a cement parking lot where hundreds of cars will be starting/entering/exiting all day and all night long? How many residents will be tempted to cross 'suicide corners'? How can folks be expected to live without access to green space for a picnic, a place to kick a ball, grass to walk through? How can this monster warehouse be proposed by a developer, endorsed by the county, supported by senior services, or accepted by a neighborhood community?

Thanks,
Sara Oswald
4314 Mt. Castle Ave.
San Diego, CA 92117
858-663-1291

From: Sally <SMor2Ditto@aol.com>
Sent: Friday, October 19, 2018 2:05 PM
To: Cass, Marc
Subject: Proposed low income housing development in Clairemont

Dear Mr Cass,

This email is to express my misgivings about the proposed housing development on the corner of Mt Etna and Genesee in Clairemont.
I understand that the development will provide low income housing for various people and while I'm not opposed to the principle of providing lousing for those in need, I do have grave misgivings about the proposed location. Firstly let me assure you this is not a case of "not in my backyard" syndrome. I've been a resident of Clairemont for 60 years and I value our community as it is and wish it to be a safe community for all of us. The county's proposal would seem on the surface to be contrary to the current and planned community guidelines for height and density regulations. And for this reason only I strongly object to this project going forward.

There are other reasons for my objection to this proposed project. Has the county put any consequential thought into the potential
outcomes, if this proposal goes ahead?

Has the county considered the effect on schooling? Do the local schools have the capacity to absorb the increased number of students which will occur if this proposed development goes forward?

Has the county considered the effect on traffic in and area already heavily congested with traffic?

Has the county considered the health and safety of seniors living alongside developmentally disabled people?

Has the county considered or does the county even care about the potential impact of property values for the existing residents?

Another crucial point, has the county considered the impact this high density development would have on the safety and well being of the children in this neighborhood?

Question for you. Of the 52 proposed units for the developmentally disabled, are pedophiles/sex offenders, recovering drug addicts/alcoholics considered to be developmentally disabled? With two schools in close proximity to the proposed development, this would hardly be an appropriate location.

It is universally recognized that the incidences of crime are higher than average in low income/high density developments. Why would the county want to inflict increased creme rates on the residents of the largely law abiding community of Clairemont with this proposal?

It is also recognized that this type of development will attract congregants. While these congregants may not actually reside in the proposed development, has the county considered the potential negative impact this would have on existing Clairemont residents?

I would appreciate it, if you would address all my above concerns and not by way of a boilerplate form letter.

You may email me at: SMor2Ditto@aol.com

Sarah Morris

From: Sean Kane <kaneksean@gmail.com>
Sent: Friday, October 19, 2018 12:16 PM
To: Cass, Marc
Subject: Opposition to the Proposed Mt. Etna Project

Dear Marc,

I am writing to express, on the strongest terms possible, my dissatisfaction and opposition with the proposed Mt. Etna project. Clairemont is the ONE neighborhood left in San Diego where a middle class family can afford a single family home. Don't ruin our community.

Sincerely

Sean Kane

From: Shawn O. Meade <someade1@gmail.com>
Sent: Thursday, October 18, 2018 9:13 PM
To: Cass, Marc
Subject: EIR Comments on 5255 Mt Etna Dr Crime Lab CPA and Rezone Project [WT-4224097]

Dear Mr. Cass,
My wife and I, along with our four-year-old son, reside on Mt. Etna Dr and appreciate the opportunity to offer our input for the EIR. Our comments are divided into the recommended categories: significant environmental issues, mitigation measures and project alternatives. References are numbered in brackets and listed in the last section. Again, thank you for the opportunity to contribute to the EIR. We appreciate the work you and your team are doing.
Sincerely,
Shawn and Michelle Meade

SIGNIFICANT ENVIRONMENTAL ISSUES

Population/Housing: We believe 404 units over 4 acres is too high for the area and should be the principle issue investigated in the EIR. Even a developer thought the RFP's density range, at 300-400 units was "more intense than what appears to be fit for the site" [1].

Hazards and Hazardous Materials: What are the implications of having a 200+ PSI, large diameter, gas transfer pipeline immediately adjacent to a very high density residential building [2]? A similar type of pipeline blew up in San Bruno killing 8 people and destroyed part of a low-density neighborhood [3,4]. Evacuation of a very high density residential building, especially one housing a large amount of old and disabled people, could be difficult, possibly putting the lives of the residents and first responders at risk. Is there currently precedent for such a building immediately adjacent to a gas transfer pipeline (dark blue on SDG&E map)? What is the opinion of SDG&E as well as other local, state and federal agencies on this issue?

Traffic: Mt Etna Dr already has very high levels of traffic at high speeds and appears to be a short-cut between Genesee Ave and Balboa Ave. Effects of the shopping center at the terminus of Mt Etna Dr also need to be considered. Therefore, traffic studies should take data at multiple points all along Mt Etna Dr as well as other streets to properly characterize the cumulative impact of the development on traffic.

Parking: Will there be enough on-site/off-street parking for all the residence, guests and support staff? Resultant on-street parking will flood the neighborhood.

Public Services: The enormous increase in population, in such a small area, will put stress on schools, police and fire services. Will there be enough first responders to handle the evacuation of the proposed building in addition to assisting the existing population in a large-scale event like an earthquake?

Aesthetics: 404 units on 4 acres would be grossly monolithic in comparison to other residential structures. Some of our neighbors will be deprived of sunlight.

Greenhouse Gas Emissions and Air Quality: Auto and air traffic emissions already overburden our neighborhood. Specifically, AVGAS used by small aircraft, such as those from Montgomery Field, contains lead [5]. The development's cumulative impact should include these factors.

Noise: A very high residential density building will generate noise in both construction and operation. For example, the project's residents who park their cars in the neighborhood all night will not hear their car alarms and with therefore not turn them off.

Recreation: Will there be enough recreational space? Future tenants, especially children, deserve recreational space.

MITIGATION MEASURES

Population: Reduce the population density of the development to levels in line with the current city–community plan, therefore not requiring an amendment or circumventing CEQA. This is the primary mitigation measure. All other mitigation measures listed below are secondary.

Hazards and Hazardous Materials: Reduce the full-time residential population density of the proposed development to levels considered good practice, or required, near a natural gas transfer pipeline.
Public services: More police, fire and school services will be needed. Is this in the project budget?
Traffic: First, add a stop sign at intersection of Mt Etna Dr and Mt Davis Ave. Second, add speed bumps all along Mt Etna Dr, Mt Everest, Mt. Herbert and the other short-cut streets. Third, allow for additional access to the development from Genesee Ave and Balboa Ave through the SDG&E easement. Fourth, do not allow a left-hand turn out of the proposed complex onto Mt Etna Dr. Finally, Mt Etna Dr should not be the only access point.
Parking: Lease additional SDG&E property on south side of Balboa Ave; connect with pedestrian bridge.
Recreation: The proposed lease of SDG&E property south of Balboa Ave, connected by a pedestrian bridge, could also be used for a recreational park.
Noise: Put elderly designated apartments on the side of the building that faces the neighborhood – less talking and noise late at night.

PROJECT ALTERNATIVES

A new library with park space is our first suggestion for an alternative project on the Mt Etna site. If housing is possible, given the pipeline safety concerns, then we propose a lower density development, in line with current density limits of the city-community plan, including affordable and market rate housing, more retail, more on-site parking and more green space. Equally distribute remainder residential units and services across all 11 county properties, including the newly proposed MTS properties. Additional parking and green space could also allow for community events such as farmers markets and craft fairs, possibly providing entrepreneurial opportunities for future tenants as well. These improvements could bring in more revenue for the county, city and developer as well as create a flagship property - a model for future affordable housing developments in San Diego and beyond. Let's build something great that uplifts the entire community; uniting it, not dividing it.

REFERENCES

1. Request for Proposal (RFP); AFFORDABLE HOUSING GROUND LEASE DEVELOPMENT OPPORTUNITY – 5255 Mount Etna Drive; Addendum 2 - May 24, 2018 - County's response to developer questions received on 5/22/2018; https://www.sandiegocounty.gov/content/dam/sdc/dgs/Doc/RES_DO_CrimeLabFamCtAFHRFPAdd2.pdf
2. https://www.sdge.com/safety/gas-safety/pipeline-map
3. https://www.wsj.com/articles/pg-e-fined-3-million-ending-san-bruno-explosion-case-1485461825
4. https://en.wikipedia.org/wiki/San_Bruno_pipeline_explosion
5. https://www.faa.gov/about/initiatives/avgas/

From: Shayne McCool Peller <smccoolpeller@gmail.com>
Sent: Friday, October 19, 2018 4:29 PM
To: Cass, Marc
Subject: Clairemont rezoning

Mr. Cass,

This is documentation of my disagreement to the Mt. Etna project. That area off of Balboa is already low on parking, and this project will create more traffic as a result. My fear is that it will also reduce property values as a result.

In addition, I would like a response in regards to the vetting process for tenants for the affordable housing. There better not be anyone on the sex offender registry. We already have too much of that in Clairemont.

Thank you,

Shayne McCool
Sent from my iPhone

From: Shirley <shirleyve@att.net>
Sent: Wednesday, October 17, 2018 1:47 PM
To: Cass, Marc
Subject: 5255 Mt EtnaDrive (formerly crime lab)

October 17, 2018
To Whom this may concern;
My name is Shirley Kay Van Ess and I live at 4972 Mt Casas Dr. San Diego, Ca. 92117 my phone # is 858-279-4494
My concerns are these plans need to be changed with no more than 200 units and should have 2 exits and entrances. One is not enough. Also all the elementary children will go to Holms elementary school and they will have to cross a very busy street Balboa Avenue. Also it is approx. 1 mile.
you are asking for big trouble if you are going to put families in there with homeless, seriously mentally ill,and substance abuse problems people.What are you thinking?? You evidently don't care! I know something needs to be done to help people but that many in one little area.
What about filling up a canyon and building there. Or where the old stadium is? I have lived in this area for almost 50 years and I hate to see what you are trying to do. Please rethink it.
Sincerely;
Shirley Kay Van Ess
(my last name is two words)

From: Shivali Gohel <dr.shivali.gohel@gmail.com>
Sent: Friday, October 19, 2018 5:25 PM
To: Cass, Marc; chriscate@sandiego.gov
Subject: Strong Concern regarding Mt. Etna Project

Dear Mr. Cass and Mr. Cate,

I am writing to you to express my strong concern regarding the Mt. Etna Project. I believe this location is not fit for this particular project.

I am a periodontist located directly across from the proposed site (4320 Genesee Ave; in the Liberty Medical Dental Building off Mt. Etna). My office window looks directly at the proposed site. The type of housing that is being provided, specifically the 400+ additional units and especially the 52 units dedicated to those with a history of drug use or mental illness will inevitably bring down the value of the neighborhood and create a drug haven in the area. Crime, which is already on the rise, will increase even more. I can personally attest to being approached by a police officer as I was leaving my building late at night asking if I had seen a particular individual they believed to be hiding out in the area. At the same time, helicopters were circling above. This was truly a frightening experience. According to Trulia.com and CrimeReports.com, there have been at least 38 reported incidents of various crimes ranging from petty theft to battery with serious bodily injury at the corner of Balboa and Genesee in the last month! In addition, there were 11 reported crimes at the corner of Balboa and Mt. Everett and 4 at the corner of Genesee and Mt. Etna. Again, it is only going to increase with this building.

By putting "the projects" across the street, small businesses like mine will suffer immensely. I am outraged that this location was selected over other locations which were more suitable (specifically the corner of Camino Ruiz and Mira Mesa). Frankly, if this project is built, I have no choice but to move my practice (which has been here for 30+ years) to another location. The value of my business, as well as many others will plummet. As a result, I believe other businesses will also relocate as the clientele that we currently serve will change.

Clairemont is currently the home to many who have resided here for decades. It is also an up-and-coming neighborhood with many new younger families like mine moving into the area. The current medium value of homes in Clairemont is currently listed between $500k-600K. The expectation that a family who can afford a home in that price range would reside next to a complex that houses former/current drug addicts and individuals who are mentally unstable is absurd. I would never put my family at risk. This location is too close to many small businesses, homes and a school right down the street!

Clairemont also has many beautiful canyons and trails. It is only logical to think that these current/former drug addicts will use our beautiful parks for their "recreational" activities, again, making the area unsafe for families.

Furthermore, building additional units in this location will bring unwanted and excessive congestion to the area. The current plan to build a 5-story building is also against current city code. I find it unfair that city officials did not approach the community with this important decision. I believe that these individuals should have a place to live, more importantly that those with mental illness and addiction problems should get help! This building does NOT solve the underlying problem, but merely puts a band-aid on the situation and burdening the residents of Clairemont.

I request that this project NOT be built! Please feel free to contact me via email or at the office (858) 541-7676.

Thank you for taking the time to read this,
Shivali Gohel DMD, MSD

From: Gioia, Stephanie
Sent: Monday, October 22, 2018 2:26 PM
To: Cass, Marc; Estrella, David
Subject: RE: Mt Etna Community
Attachments: Land Use Entitlement for the County of San Diego... ; Mt Etna Input - Corinne Cummings 10 19 18.docx; Mt. Etna multifamily proposal, (former crime lab); Mt. Etna Input - Cathy Jarvis 10 18 18.docx; Mt. Etna property; Mt. Etna Input - Julie Wilds 10 19 18.docx; Mt. Etna Input - Julie Wilds 9 07018.docx; Mt. Etna Input - Justin S Martin 10 19 18.docx; Mt. Etna Input - Kate Van Erck 10 15 18.docx; Re: WHATTT!!; Mt. Etna Input - Lauren Greenfiled 10 15 18.docx; Mt. Etna Input - Midory Esquer 10 15 18.docx; Mt. Etna Input - Victoria Williams 10 19 18.docx; Mt. Etna Input - Zachary Greenfiled 10 15 18.docx; Mt. Etna Input -Martha Carver 10 15 18.docx

Hi Marc: Here are 15 e-mails that were sent to Supervisor Roberts with input on the Mt. Etna Project. I didn't include the correspondence that Supervisor Roberts was copied on that was sent to you already.

Thanks,
Stephanie

Stephanie Gioia-Beckman
Senior Policy Advisor
Office of Supervisor Ron Roberts
County of San Diego, 4th District
(619) 531-5544 (main)
(619) 515-6989 (direct)
Stephanie.Gioia@sdcounty.ca.gov

From: Cass, Marc
Sent: Monday, October 22, 2018 9:08 AM
To: Gioia, Stephanie; Estrella, David
Subject: RE: Mt Etna Community

Hi Stephanie,

Yes, please forward all emails to me. I'm archiving everything we receive from the public. You never know what will come up.

Regards,

Marc Cass, Assoc. DBIA
Environmental Project Manager
CCAEA-Secretary

Dept of General Services, County of San Diego l 858-694-2047 l Marc.Cass@sdcounty.ca.gov
5560 Overland Avenue, Suite 410
San Diego, CA 92123

Please consider the environment before printing this e-mail

From: Gioia, Stephanie
Sent: Friday, October 19, 2018 2:12 PM
To: Cass, Marc ; Estrella, David
Subject: Mt Etna Community

Hi Marc and David:

Supervisor Roberts has received several community resident e-mails in the past few weeks while the scoping meetings have been taking place. The Supervisor has or will respond to them all, but should I be sending them to one of you to include in the record? Please advise.

Thank you,
Stephanie

Stephanie Gioia-Beckman
Senior Policy Advisor
Office of Supervisor Ron Roberts
County of San Diego, 4th District
(619) 531-5544 (main)
(619) 515-6989 (direct)
Stephanie.Gioia@sdcounty.ca.gov

From: Stephanie Pfaff <stephaniepfaff@earthlink.net>
Sent: Tuesday, September 25, 2018 1:28 PM
To: Cass, Marc
Subject: Comments on the Notice and Preparation Document "Clairemont Mesa Community Plan Amendment and Rezone Project WT-4224097"

1.The proposed development is too large for the site and neighborhood. The corner of Mt Etna and Genesee is highly congested due to the surrounding shopping centers and the fact that Genesee is a thoroughfare connecting 163 and University City. Adding the proposed number of units will greatly impact the area in a negative way.

2.The mount streets have been used as a shortcut from Balboa to Genesee for decades. An influx of residents and cars will result in more traffic using Mt Everest and Mt Castle as shortcuts. My children attend Mt Everest Academy and the speeding traffic along Mt Everest and Mt Etna is already a problem at both school start and end times.

3. The limited amount of parking being proposed at this site for the number of units will result in cars parking all over the neighborhood.

4.The proposed low income tenancy of at least 50% is too high. The Stratton is already a low income complex in the neighborhood and an additional homeless project is being built on Mt Alifan. This is creating a low income hub in the center of Clairemont. Other neighborhoods and zip codes need to absorb some of the low rent units. Who will spend the market rate (expensive) on a brand new rental unit when over half the other residents will be on Section 8, disability etc?

5. The height limit needs to be maintained in the neighborhood. Clairemont is not Hillcrest or North Park or even University City. We are not a high rise community.

-Stephanie Pfaff
3666 Vista de la Bahia
San Diego, CA 92117

5255 Mt. Etna. Re- Crime Lab 1800 people of NO parking. or little

Clairemont Mesa Community Plan Amendment and Rezone Project
Case No. WT-4224097
NOTICE OF PREPARATION PUBLIC REVIEW PERIOD
September 10, 2018 through October 19, 2018

ASAP

PUBLIC SCOPING MEETING COMMENT SHEET

Tuesday, September 25, 2018
COUNTY OF SAN DIEGO
DEPARTMENT OF GENERAL SERVICES
5560 OVERLAND AVE
SAN DIEGO, CA 92123

WRITTEN COMMENT FORM

I DO NOT APPROVE OF THE OLD CLAIREMONT HOSPITAL / SERVICE FACILITY BEING USED FOR HIGH DENSITY HOUSING. IT WAS ORIGINALLY FOR A HOSPITAL TO SERVE THE COMMUNITY & SHOULD BE USED FOR SOMETHING THAT SERVES THE EXISTING COMMUNITY (LIKE THE HOSPITAL DID).

(Attach additional pages as needed)

MAIL or E-MAIL FORMS TO:

Marc Cass
County of San Diego
Department of General Services
5560 Overland Ave
San Diego, CA 92123
E-mail: marc.cass@sdcounty.ca.gov

Signature

STEVE FRANKS
Print Name

4929 MT GAYWAS DR.
Address

SAN DIEGO CA 92117
City State Zip Code

619-318-4552
Phone Number

COMMENTS MUST BE RECEIVED BY 5:00 PM OCTOBER 19, 2018

From: Steve Franks <shfranks12@gmail.com>
Sent: Wednesday, October 10, 2018 9:24 PM
To: Cass, Marc
Subject: old Clairemont Hospital
Attachments: comment form.pdf

Attached please find the Comment Form concerning the redevelopment of this property.

Thanks,

Steve Franks

From: Steve Hanger <hanges19@yahoo.com>
Sent: Friday, October 19, 2018 10:34 AM
To: Cass, Marc
Subject: Mt. Etna & Genesee Apartment Project

Good morning,
As a 20 year resident on Mt. Casas Drive in Clairemont I have tremendous concerns about the project being considered for the former Clairemont Hospital site. Specifically I am opposed to the density intended for these apartments, as well as the immediate adjacency to a long standing single family home community. The probability of increased traffic, crime by residents with no vested interest in the community and decreased property values for all is 100%.
I actually grew up on the "mount streets", as my parents moved here in 1958. We see an ebb and flow of older original owners, renters and new families moving in, creating a new vibrancy. The addition of low income housing on the immediate outskirts will jeopardize this continual rebirth.
Please note my vehement objection to this project. Our quality of life rests in the hands of politicians making the right decision on this project.
Respectfully,
Steven L. Hanger

Sent from my iPhone

Clairemont Mesa Community Plan Amendment and Rezone Project
Case No. WT-4224097
NOTICE OF PREPARATION PUBLIC REVIEW PERIOD
September 10, 2018 through October 19, 2018

PUBLIC SCOPING MEETING COMMENT SHEET

Tuesday, September 25, 2018
COUNTY OF SAN DIEGO
DEPARTMENT OF GENERAL SERVICES
5560 OVERLAND AVE
SAN DIEGO, CA 92123

WRITTEN COMMENT FORM

Rezoning from 30' to 60' is completely out of character with the neighborhood.

The environmental report lists schools close by that "normal" neighborhood children have "no" access to.

Parking, Parking, Parking — How do you guarantee those residents will not flood the neighborhood streets with cars?

(Attach additional pages as needed)

MAIL or E-MAIL FORMS TO:

Marc Cass
County of San Diego
Department of General Services
5560 Overland Ave
San Diego, CA 92123
E-mail: marc.cass@sdcounty.ca.gov

Signature

Stuart Johnson
Print Name

4323 Mt. Castle Ave
Address

SD CA 92117
City State Zip Code

858-349-0728
Phone Number

COMMENTS MUST BE RECEIVED BY 5:00 PM OCTOBER 19, 2018

From: Stuart Johnson <sjohnson@corodata.com>
Sent: Wednesday, October 17, 2018 4:49 PM
To: Cass, Marc
Subject: Case No WT-4224097 Clairemont Rezone Project
Attachments: doc01950720181017164820.pdf

Hi Marc,
Attached is a comment form for the rezoning project in Clairemont, Crime Lab/Caliremont Hospital.

Thanks,
Stuart
858-349-0728

corodata
Off-site information at your fingertips

Free Ransomware Webinar + $10 Giftcard
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From: Susan Fanno <susan.fanno@yahoo.com>
Sent: Wednesday, October 10, 2018 1:09 PM
To: Cass, Marc
Subject: Environmental Impact Report for the 5255 Mount Etna Project

Dear Mr. Cass,

I live on Mt. Etna. Please study how this proposed project would directly affect the residents of this street. My biggest concern is traffic. I already have a hard time getting in and out of my driveway during the morning and afternoon rush times. We have three schools located on our street with no bus service, so all the kids are being driven in.

Traffic in the surrounding neighborhoods - regarding our children's safety - and on the main thoroughfares, such as Genesee and Balboa, which are already impacted in the rush hour commutes. Genesee already backs up from the 52 in the evenings, so dropping 800 more cars (400 units/2 workers per unit) in the mix will be a NIGHTMARE.

Please study how the bus system will be of use to the residents. It got a poor rating from the feasibility study.

Please let us know where the children will go to school. This will most certainly bring more cars and traffic to our roads.

The three schools on Mt. Etna are:

Mt. Everest Academy. This is a home school/independent study school. Most children, especially low income, have two working parents. Obviously we'll assume there are not parents home to teach them.

The second school is Tsumiki preschool. This is a private preschool that speaks only Japanese. This is a great option for those who speak Japanese.

The third school is John Muir. John Muir is a magnet/choice school. My children applied for the choice program and did not get in to the school. We live about 10 houses away. This is not a neighborhood school and therefore can not be considered a real possibility for the majority of the kids.

The actual neighborhood school is Holmes Elementary, which was running at 100% capacity this year. There is no more room and thus the new project would need to find another "neighborhood school". Nothing in walking distance for the younger ones, thus more cars on the road.

The middle and high schools are also not walkable as Balboa Ave has no sidewalk on the route to Marston Middle and Clairemont High. - Thus even more cars on the road.

This project would be better suited in a different area that has programs, transportation and space zoned residential - as this piece of land is not zoned residential.

Thank you,
Susan Fanno
4932 Mount Etna Drive

San Diego, CA 92117

From: Susan Harris <susieharris845@gmail.com>
Sent: Friday, October 12, 2018 11:45 AM
To: Cass, Marc
Subject: Project Case No.WT-4224097

Dear Mr. Cass,

As a former successful housing coordinator for homeless families under a HUD McKinney grant and a current home owner a half mile from the proposed site at the former SD Crime Lab on Mt. Etna I have some ideas about what might be an advantageous use of this development.

Single mothers with small children are frequently either on the brink of homelessness or living in inappropriate housing situations. Since their is a grammar school less than half a mile from the site, and a shopping center across the way, these families could have working single mothers with children in school without needing transportation.

The other population that could be served are seniors and/or handicapped individuals who also would benefit from convenient shopping centers again without transportation needed as well as senior medical facilities located directly across the street. Should the need for transportation arise their are bus stops on the corner. This serves two at risk populations as well as the community.

My concerns about the proposals I have been hearing and reading about are mixing populations that could have dangerous implications for the people who are being served as well as our community. The Housing First model might work well in an urban environment however this is a quiet neighborhood of families with small children and the elderly. Housing First does not have a screening process which has the potential of putting the untreated severally mentally ill, Veterans with PTSD, as well as people in active addiction with no tox screening living next door to children, sick people or women who have only recently left an abusive environment. In my extensive experience in this field this can have consequences that nobody wants to think about.

Thank you for considering the importance of our community as well as the population who will be served.

Sincerely,

Susan Harris
619-252-4022

From: Susan Whitney <selizabethwhitney@gmail.com> on behalf of Susan Whitney <swhitney@san.rr.com>
Sent: Thursday, October 18, 2018 3:08 PM
To: Cass, Marc
Subject: Mt Etna project

I live on Mt. Culebra in Clairemont and want to provide my input on the proposed housing project on Mt. Etna. As a Realtor, I understand the housing shortage and need for new development. However, the size of this project is too big for our neighborhood.

I encourage you to drive around the area, specifically on Genesee and Balboa any weekday around 5 p.m. The traffic is already very congested and a large influx of residents would make the situation nearly impossible to get in and out of our neighborhood at rush hour. Also, people use my street as a 'cut-through' to avoid the corner of Balboa and Genesee, many of whom speed through our streets and create extra traffic and dangerous conditions for pedestrians and children. This project would only exacerbate the problem.

Maybe there is a way to have a smaller version of this project that would lessen the impact to those of us already living here. I understand that most people will say 'not in my back yard', but the size of this project will be a true burden on the area residents, so I hope you can identify a better location for this size of development, or downsize the scope of this project and re-propose it to the community.

Thank you -

Susan Whitney

From: Suzan Thompson <thompsonsuzan@ymail.com>
Sent: Thursday, October 11, 2018 2:56 PM
To: Cass, Marc
Subject: Crime Lab Site project in Clairemont

Hello -

My name is Suzan Thompson, a Clairemont resident, with objections to the housing project proposed for the Crime Lab site on Balboa and Genesee.

The very swift way this project has been handled without community input is an outrage. To me that means someone is profiting somehow, and wants no input.

Any site for individuals with serious mental illness, substance abuse problems or homeless must be in a location that is near welfare services and excellent for transportation. This site has neither.

Traffic and parking on Genesee is already bad. If only a few of the planned residents had a vehicle it would impact this heavily traveled intersection.

There are problems with characters in the Von's shopping center now, to house more individuals with issues in this area, would mean more police calls to an already overburdened force.

Yes, we need more housing, but more thought has to go into these projects to make them successful. Get community input.

How can I access the Environmental Impact Report for this project? How can a project with such density go forward without rezoning?

Please let me hear from you on these concerns.

Suzan Thompson

From: suzanne harper <harpersuzanne2000@gmail.com>
Sent: Friday, October 19, 2018 10:11 AM
To: Cass, Marc
Subject: Ridiculous Housing Project

Dear Marc,

We purchased our home in Clairemont in 2002, with the hopes of raising our children in a great family oriented community. When my husband and I, who is a police officer & I am ER nurse, hear of housing of this nature being built down the street, we take pause and wonder why Chris Cate & other community leaders would put this poorly planned project in our midst?

Firstly, there is absolutely no infrastructure to support a project of this kind. There is limited access through a residential area, with poor public transportation options.

Secondly, putting mentally diabled and homeless people down the street from three schools??? Are you kidding??? If you want to see holy hell unleash on the city of San Diego, just wait until the first incident involving a 'project resident' and a child from a neighboring school happens, because it's just a matter of time.

Clairemont shoulders it's fair share of section 8 & affordable housing. Lets build this down the street from Chris Cate's house which I hear is no where near Clairemont.

Marc, Lets find a more viable option for low income housing, with better planning to accommodate anither 1000 people within a small area, as well as a huge impact on traffic.

If you would like to see Clairemont become the 'Meth Capitol' of the United States like it was in the 1980's,then by all means this is a GREAT idea!! I say we find a better option and keep Clairemont the family community It is.

Sincerly,
Suzanne & Joseph Harper

P.s.Tell Chris Cate, he'll NEVER get another vote from anyone in Clairemont if this poorly devised scheme goes through.

--
Sent from Gmail Mobile

From: Tanja <tanjakropf@gmail.com>
Sent: Friday, October 19, 2018 11:50 AM
To: Cass, Marc
Subject: Mount Etna

Mr. Cass,

I am writing to express my concern over the Mt. Etna project. I live on 4321 Mt. Everest, just a couple blocks away. I am vehemently opposed to this project, particularly how our elected officials tried to ramrod it through without ANY initial discussion with actual members of the community.

Clairemont residents don't want our community to be the guinea pig for a project that was so poorly thought through and is clearly meant to benefit the developers but not the taxpaying citizens who pay the salaries of our representatives.

I've been trying to get lighting on my street, which is across from a school, for two years now--to no avail. Yet now in addition to already feeling unsafe with lack of lighting, there will now be an at risk population living two blocks away who put me at additional risk.

The Balboa/Genessee area is already overrun with traffic, so I'm not sure what genius decided it would be a good idea to add another 1000 residents to that area, particularly with no parking.

I am a native of Clairemont and have watched this community develop for the better over the years. I purchased my own home 15 years ago and for this project to put my property value at risk is unfair and unethical.

Clairemont should not be the dumping ground of this city. We are the largest neighborhood in the county and many of us chose Clairemont because of it's affordable proximity in comparison to other neighborhoods. We have a voice and it should be heard. Our collective voice says WE DON'T WANT THIS PROJECT!!!!

Please hear us.

Regards,
Tanja Kropf

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Do Affordable Housing Projects Harm Suburban Communities? Crime, Property Values, and Taxes in Mount Laurel, NJ

Len Albright,
Northeastern University

Elizabeth S. Derickson, and
Princeton University

Douglas S. Massey[*]
Princeton University

Abstract

This paper offers a mixed-method analysis of the municipal-level consequences of an affordable housing development built in suburban New Jersey. Opponents of affordable housing development often suggest that creating affordable housing will harm surrounding communities. Feared consequences include increases in crime, declining property values, and rising taxes. To evaluate these claims, the paper uses the case of Mt. Laurel, NJ – the site of a landmark affordable housing legal case and subsequent affordable housing development. Employing a multiple time series group control design, we compare crime rates, property values, and property taxes in Mt. Laurel to outcomes in similar nearby municipalities that do not contain comparable affordable housing developments. We find that the opening of the affordable housing development was *not* associated with trends in crime, property values, or taxes, and discuss management practices and design features that may have mitigated potential negative externalities.

Keywords

suburbs; affordable housing; mixed methods; low income housing tax credit

After one year of operation, the Ethel Lawrence Homes in Mount Laurel, N.J. were proclaimed in November 2001 as “The Affordable Housing Complex That Works” (Capuzzo, 2001). This proclamation of success followed decades of opposition to the project’s construction. At planning board meetings, community members repeatedly expressed concerns about increasing crime rates, falling property values, and rising tax burdens that were expected to follow from its opening (Haar, 1996; Kirp, Dwyer, and Rosenthal, 1997). The project grew out of two New Jersey Supreme Court decisions that together established “the Mount Laurel Doctrine,” stating that municipalities throughout the state had an “affirmative obligation” to provide for their “fair share” of the regional need for

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affordable housing. Mount Laurel thus constitutes a landmark in the inclusionary zoning movement and a touchstone for affordable housing advocates everywhere.

Akin to residential mobility programs such as Chicago's Gautreaux Program, the federal government's Moving to Opportunity Program, and inclusionary zoning efforts such as the Massachusetts 40b Program, California's Housing Element law, and the Moderately Priced Dwelling Unit Program of Montgomery County, Maryland, the Mount Laurel doctrine has led to the movement of low-income black and Latino households into white middle class suburbs (see Rubinowitz and Rosenbaum, 2000; Briggs et al., 2010; Goetz and Chapple, 2010). Here we examine this high-profile case to determine whether the fears articulated by Mount Laurel residents about the project were indeed realized.

We situate our analysis in the broader literature on the effects of subsidized housing on surrounding communities and draw upon publicly available data to undertake a multiple time series control group quasi-experiment to assess the effect of the opening of Ethel Lawrence Homes (ELH) on local crime rates, home values, and property taxes. Finding no detrimental effects, we draw on qualitative interviews with residents and officials to reveal the social processes and management practices that produced the benign outcomes we observe. We conclude that careful property management, aesthetic consistency with local architecture, spatial congruency with surrounding neighborhoods, and the cultivation of high levels of formal and informal social control were important in mitigating potential negative externalities.

In the course of this analysis, we make three contributions to the broader literature on affordable housing. First, we focus on *suburban* affordable housing development. Save for a small number of studies (Funderburg and MacDonald, 2010; Deng, 2011a, 2011b) little research has assessed subsidized housing in suburban areas. Second, we employ quantitative and qualitative methods in complementary fashion within the same analysis. Prior research on affordable housing has generally utilized either quantitative methods (e.g. Bauman, 1987; Goldstein and Yancey, 1986; Bickford and Massey, 1991; Massey and Kanaiaupuni, 1993; Deng 2011a, 2011b) or qualitative analysis (Rainwater, 1970; Hirsch, 1983; Venkatesh, 2000); but rarely have both been combined in the same study. Heeding the call in reviews by Nguyen (2005) and Freeman and Botein (2002), we employ quantitative methods to study the influence of affordable housing on communities and qualitative methods to understand how affordable housing project personnel acted to manage potential threats to social disorder.

Finally, in assessing effects of ELH on the surrounding municipality we focus on multiple outcomes – crime, property values, and property taxes – the three issues that were most often mentioned as concerns by Mount Laurel residents. Past studies of subsidized housing have focused either on property values (see Nguyen, 2005 for a review) or crime (Griffiths and Tita, 2009) but not both simultaneously. We are unaware of any studies that have examined the effects of subsidized housing development on property tax burdens. By considering all three outcomes, as well as the underlying social processes that govern the behavior of project residents, we offer a more comprehensive understanding of how

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affordable housing developments affect suburban communities and the actions that one may undertake to promote their successful integration.

AFFORDABLE HOUSING AND SOCIAL DISORGANIZATION

The development of affordable housing in suburban areas invariably entails increasing the ethnic heterogeneity, residential mobility, and class diversity of suburban communities. In response to these developments, social theory predicts---and suburban neighbors clearly expect---increases in social disorganization that will, in turn, lead to increased rates of crime and declining property values (Shaw and McKay, 1969; Sampson, 1993; Sampson and Wilson, 1995). Of course, the tacit assumption that poor neighborhoods promote social disorganization has been strongly contested (Suttles, 1969; Small, 2004).

Prevailing theories about the relationship between affordable housing and crime focus on the characteristics of either people or places. “Place” theories link aspects of affordable housing *design* to levels of social disorganization. The design hypothesis asserts that the built environment of subsidized housing provides greater opportunities to commit crimes, thus explaining higher rates of violent crime in subsidized housing compared to non-subsidized housing (Griffiths and Tita, 2009). “People” theories link the *allocation* of poor people to confined spaces to the social production of disorganization. Wilson’s (1987) social isolation hypothesis argues, for example, that concentrated poverty produces social disorganization by isolating poor residents from “mainstream” society, concentrating crime-prone people spatially to produce a social environment that perpetuates criminality (Weatherburn et al., 1999).

Subsidized Housing and Crime

A number of studies have examined the relationship between affordable housing and crime. As already noted, however, all have analyzed crime patterns in *central cities*, where affordable housing has traditionally been concentrated (Holloway and McNulty, 2003). To date most studies have focused on violent crime rather than non-violent crime, and all have employed quantitative methods. In their study of crime and affordable housing in Sydney, Australia, for example, Weatherburn, Lind, and Ku (1999) used regression methods to test people and place theories. The authors employ multiple regression models to predict crime participation rates from affordable housing measures (quantity and building-type), while controlling for a variety of social and demographic characteristics. They found that variation in neighborhood crime is largely explained by the characteristics of housing residents, rather than the design of the housing itself. They concluded that the social isolation hypothesis was more promising as an explanation for higher crime rates than the design hypothesis.

Examining homicide trends in southeast Los Angeles from 1980 to 1999, Griffiths and Tita (2009) estimated logistic regression models to predict murders. They concluded that both people and place theories hold true to some extent. The design of public housing projects by definition spatially concentrates poor, crime-prone people to drive up local homicide rates. As a result, murder rates in public housing projects were much higher than expected, in keeping with the social isolation hypothesis. The authors also found, however, that homicide was largely self-contained within the projects themselves. Thus the housing projects served

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neither as a magnet for non-local offenders nor a generator of violence in surrounding neighborhoods.

The foregoing studies generally lend more support to the social isolation hypothesis than the design hypothesis. However, neither study assessed the effects of *introducing* subsidized housing on neighborhood crime rates. Given their cross-sectional design, a plausible alternative hypothesis is that crime rates were high in those areas to begin with, and that projects were built there precisely because they were socially disorganized, so that the construction of the projects themselves had no net effect on crime rates. In order to eliminate this alternative explanation, one must analyze the crime patterns before and after the introduction of subsidized housing into a community – as two recent studies have done.

Assessing crime trends in Louisville, Kentucky, Suresh and Vito (2007) found that increases in neighborhood crime were associated with changes in the location and concentration of affordable housing. Based on geographic clustering of crime reports to police, the authors conclude that crime hotspots emerged in two specific areas after the revitalization of low-income housing projects. The authors argue that both the characteristics of places and people determined spatial crime patterns. Supporting the place theory, higher density housing projects were associated with higher rates of aggravated assault than lower density projects. Supporting the people theory, individual criminal careers emerged within the niches of concentrated poverty the projects created. Using econometric models to test for discontinuities in crime trends before and after the opening of subsidized housing sites, Santiago, Galster and Pettit (2003) examined crime rates before and after the development of scattered site affordable housing in Denver, Colorado. They found that proximity to assisted housing was not associated with increases in crime. Their study does not utilize comparison neighborhoods or towns, instead comparing the crime trends near subsidized housing to city-wide trends.

As implied by the foregoing studies, both the general public and academic researchers have worried about the “spread effects” of low-income housing on surrounding neighborhoods. Spread effects, of course, are shaped by the size and density of housing projects and their spatial relationship to surrounding neighborhoods. Although Griffiths and Tita (2009) found little evidence of spread effects in Los Angeles, in Atlanta McNulty and Holloway (2000) found that the magnitude of association between racial composition and crime decreased with increasing distance of neighborhoods from housing projects. They used crime data provided by the Atlanta Police that permitted geo-coding of crime incidents by census block-groups. While their analysis speaks to the relationship between crime and distance from subsidized urban housing, it does not address the impact of the *introduction* of subsidized housing – the heart of contention in the Mount Laurel case.

The relationship between subsidized housing policy and crime is the subject of extensive speculation and contentious debate across academic and non-academic arenas. For example, in a controversial *Atlantic Monthly* article, Rosin (2008) suggested a direct causal link between subsidized housing policy changes and the dramatic increase in violent crime in inner-ring suburbs. Many social scientists disputed the Rosin article’s argument that the

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relocation of public housing residents resulted in more violent crime. Briggs and Dreier (2008) offer a particularly thorough critique of the Rosin analysis.

Subsidized Housing and Property Values

Even more than crime, the relationship between affordable housing and property values has been a subject of concentrated inquiry, with more than seventeen studies conducted since 1963 (Nguyen 2005). Studies have looked at the effect of a variety of types of subsidized housing programs on property values (low-income housing, elderly projects, special needs housing, Section 8 certificates, low income housing tax credit (LIHTC) developments, and Community Development Corporation (CDC) projects). As with the literature on affordable housing and crime, most studies have focused on urban areas, such as Denver (Santiago et al., 2001), Madison and Milwaukee (Green, Malpezzi, and Seah, 2002), Memphis (Babb et al., 1984), Minneapolis (Goetz et al., 1996), Philadelphia (Lee et al., 1999), Portland (Rabiega et al., 1984), and Yonkers (Briggs et al., 1999). However, there is a scant but potent research program evaluating the impact of affordable housing in the suburbs.

Deng (2011a) utilizes cluster analysis to assess the impact of LIHTC developments across Miami-Dade County in Florida. Deng generates clusters based on demographic, social, and housing variables, and finds the class and racial composition of neighborhoods to be primary factors associated with the varying effects of LIHTC developments. The study finds that black high-poverty neighborhoods enjoyed the most positive changes from LIHTC investment, while 63% of the LIHTC developments that had the most severe negative impacts were located in majority white middle-class suburbs. In addition to race and class, Deng points to a variety of possible intervening factors: density between LIHTC developments, municipal incorporation, and changes in political boundaries. Deng's (2011b) study of the impact of LIHTC development in Santa Clara County, California (Silicon Valley) includes 30 LIHTC developments in the suburbs. Twenty-five of the 78 developments analyzed are in majority white middle class neighborhoods. Deng generally finds *positive* impacts on property values of surrounding neighborhoods, and finds no difference in impact based on whether the developer is for-profit or non-profit.

Funderburg and MacDonald's 2010 study of LIHTC developments in Polk County, Iowa, which includes portions of suburban Des Moines, finds that clustered LIHTC housing developments were associated with a 2–4% slowing of property value appreciation among nearby single family homes that were matched with comparable homes elsewhere in the same county; but they also found that this effect was negligible when the housing was high quality and mixed-income. In a study of seven 40b projects in Massachusetts between 1982 and 2003, Pollakowski et al. (2005) utilize hedonic price modeling and find no evidence of a decrease in property values due to location of single family homes in the impact areas of subsidized housing. However, their study does not offer qualitative inference into how potential negative externalities have been mitigated.

Our analysis of a LIHTC development in a suburban, majority-white, middle class neighborhood deepens the foregoing research by investigating municipal level outcomes. This is necessary because the municipal and school district geographies are congruent, and perceived changes in school quality can affect all property values within the municipality.

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Furthermore, through our qualitative analysis, we explore how social structure and place managers (Eck 1994) within suburban LIHTC developments, which to date have not received adequate attention, can impact outcomes.

One factor that has been studied is the demographic composition of the housing project relative to the receiving community. Briggs et al. (1999) found that despite substantial racial and socio-economic differences between subsidized housing residents and neighboring residents, no change in property values occurred in Yonkers. Another key factor appears to be the trend in property values *before* the introduction of the project. Galster et al. (1999) found that neighborhoods with decreasing property values were more likely to evince a significant negative effect of affordable housing compared with neighborhoods that had appreciating property values. Moreover, areas with appreciating home values were likely to continue appreciating even after the construction and opening of affordable housing.

An additional factor is the character of the project itself, and hedonic regression models have revealed that the influence of subsidized housing on property values tends to be minimized when the development is of high quality (Lyons and Loveridge, 1993), is well-managed (Goetz et al., 1996), and is aesthetically attractive and consistent with the surrounding housing stock (Cummings and Landis, 1993). The effects of subsidized housing on surrounding property values also dissipate with distance, falling quite rapidly as distance increases (Guy, Hysom, and Ruth, 1985; Schwartz et al. 2006). Studies of the effect of project density on home prices have yielded mixed results, with Lyons and Loveridge (1993) finding that tightly clustered scattered site units had stronger negative effects on property values than dispersed scattered site units, but Lee et al. (1999) finding little effect on property values even of large-scale public housing projects.

Subsidized Housing and Property Taxes

As mentioned earlier, we know of no studies that investigate the consequences of low-income housing development on suburban property tax burdens. However, the logic behind communities' anticipation of higher tax burdens is straightforward: either tax revenues will fall as property values decline, thereby requiring a tax increase to maintain services, or low-income, high-need subsidized housing residents will consume higher levels of public resources than existing community members, necessitating property tax increases in the municipality. Public resources could include special educational support in schools, public transportation services, or myriad other municipally-provided goods. However, it is important to note that the development of subsidized housing can be accompanied by plans for Payment in Lieu of Taxes (PILOT). PILOTs are payments made to municipal governments to offset property tax revenue losses related to the use of the property. In the case of ELH, PILOTs were an integral part of the planning and execution of the homes.

RESEARCH DESIGN

Our analysis is drawn from a case study is a 140-unit affordable housing complex known as the Ethel Lawrence Homes (ELH). Previous research has shown that proposals for affordable housing construction typically encounter strong resistance from potential neighbors (Briggs et al., 1997; Galster et al., 2003; Goetz 2003; Hogan 1996) and Mount

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Laurel was no exception. Opposition to the proposed development in 1997 was fierce. Twice vandals destroyed the sign advertising the site of the proposed housing (Bell, 1997). Public hearings were raucous and vitriolic, and the controversy garnered considerable attention in local and national media (Smothers, 1997; Capuzzo, 2001; Getlin, 2004), thus demonstrating the disruptive potential inherent even in a relatively small housing complex in a municipality of 40,000 people (NJ Division of State Police, 2000). In addition to crime, taxes, and property values, residents had concerns about increases in traffic and environmental impacts (DeGenova et al., 2009; Briggs, 1997; Goetz, 2003; Hogan, 1996) but we do not address these issues in this study.

ELH is located adjacent to a neighborhood of luxury, market-rate, single family homes and an age-restricted retirement community. It was opened in two phases – with 100 initial units in late 2000 and 40 other units early in 2004. The project consists of one-, two-, and three-bedroom two-story townhouses that are 100% affordable to lower income households, defined as those with incomes under 80% of the regional median income, who pay no more than 30% of their incomes for rent and utilities. The project is unusual in that it is open to families with a wide range of annual incomes. In order to qualify for residency in ELH, a family's annual income had to lie between 10% and 80% of the regional median income, yielding a range of $7,000 to $56,000for a family of three in 2010. Although all units are affordable and all residents earn below-average incomes, therefore, the project does not concentrate poverty to the same extent as the typical central city family housing project. It nevertheless contains much poorer families than other housing projects developed with tax equity credits in New Jersey, which typically only include families earning 50% to 69% of the regional median income, a range of $35,000 to $42,000 for a three-person family in 2010.

ELH was financed and built for approximately $26.7 million, or $190,459 per unit for 140 townhouses (Ethel R. Lawrence Associates, L.P., 2009; Ethel Lawrence Associates Two, L.P., 2009). Around half of the funds (49%) came from the federal Low Income Housing Tax Credits program, which was established to encourage private investment in low-income rental housing. Thirty-four percent of the funds came in the form of loans from the State of New Jersey, and the remaining 17% was provided by a variety of private sources (Massey et al., 2013). ELH is owned and managed by Fair Share Housing Development, Inc. – a non-profit entity.

Although the project opened in late 2000, it was not occupied until 2001, thus creating the basis for a time series quasi-experiment (Campbell and Stanley, 1963). If the opening of the ELH project had any effect on crime rates and property values, we would expect to observe a clear discontinuity in time trends before and after 2001, perhaps with an additional disjuncture after the 40% expansion of the development in 2004. If the expressed fears of neighbors were realized, in other words, we would expect to see a drop in the rate of appreciation if property values had been rising before 2001, an increase in the rate of decline if they had been falling before 2001, or a clear turn downward if they had been flat until that date.

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Any of these outcomes after 2001 would be consistent with the hypothesis that the advent of the project depressed local property values, but of course it would not prove it. Some other historical event might have operated simultaneously to shift property values from their pre-2001 trend, such as a recession, a region-wide housing bust, or a shift in state home lending regulations. The internal validity of the time series quasi-experiment is greatly enhanced by the addition of control groups – in this case, other, similar townships in the same region that did not experience the sudden opening of a 100% affordable housing project in 2001. If it was the ELH homes that caused the disjuncture in the trend for Mount Laurel, we would expect to see the discontinuity in that township but not in other nearby and otherwise similar townships.

To assess the impact of the ELH opening on the outcomes of interest, we designed a multiple control group time series quasi-experiment and conducted what Galster (2004) calls a difference in differences study. First, we assembled a longitudinal series of outcomes in Mount Laurel Township and comparison townships before and after the opening of ELH. We then undertook a statistical test (a Wald test) to assess whether there was a significant discontinuity in the time trend for each outcome before and after the opening of ELH. Again, the inclusion of comparison townships helps to address the principal threat to the validity of a time series design – what Campbell and Stanley (1963) call “history,” or the coincidence of a policy intervention with another event that could have produced the discontinuity. Thus, if we were to observe a temporal discontinuity in the time series for Mount Laurel but not in other townships, it would strengthen our causal inference that the opening of the affordable housing development affected crime rates, property values, and tax burdens.

We selected a city level analysis because the municipal boundary is highly relevant socially in Mount Laurel and the surrounding region, as it is the primary boundary for school assignments – with one high school serving the entire municipality. All homes in Mount Laurel should thus reflect the capitalized value of the access to this high school, even after controlling for neighborhood level characteristics (see Chiodo et al., 2010). Fear of and resistance to suburban affordable housing developments typically manifests at the municipal level, with residents across the municipality mobilizing to oppose proposed developments because of concern about a reduction in municipal services, including school quality, or an increase in municipal costs. Furthermore, the Mount Laurel doctrine in New Jersey adjudicates regional fair share affordable housing compliance at the municipal level.

Figure 1 presents a map showing the geographic locations and median household incomes for Mount Laurel and three neighboring townships chosen to serve as comparison cases: Cherry Hill, Cinnaminson, and Evesham. As the figure indicates, each of the comparison municipalities lies in close proximity to Mount Laurel and has a similar median income. The figure also depicts the geography of inequality prevalent in Southern New Jersey by showing the high degree of spatially concentrated poverty in and around the City of Camden, just a few miles away from the suburban comparisons.

The degree of similarity between the control cases and Mount Laurel is further substantiated in Table 1, which presents selected social, economic, and demographic characteristics for the

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four townships based on the Census of 2000, when the ELH project first opened (U.S. Bureau of the Census, 2009). At that point (and still today), all of the municipalities were predominantly white (ranging from 85% in Cherry Hill to 91% in Cinnaminson), overwhelmingly owner-occupied (ranging from 78% in Evesham to 96% in Cinnaminson), characterized by very low poverty rates (ranging from 2% in Cinnaminson to 4% in Cherry Hill) with similar median incomes (ranging from $63,800 in Mount Laurel to $69,400 in Cherry Hill). Although Cinnaminson's population is much smaller than that of the other municipalities (15,000 versus 40,000–70,000), it comprises a much smaller geographic area (see Figure 1).

In addition to their geographic proximity and socioeconomic comparability to Mount Laurel, the comparison townships were chosen for the relative absence of 100% affordable housing developments during the time period under observation. The Council on Affordable Housing (COAH) is the state agency responsible for monitoring municipal affordable housing developments in New Jersey and issues reports on all proposed and completed affordable housing projects in the state. Utilizing COAH reports, we examined the amount, type, and timing of affordable housing developments in each township from 1990–2008 (New Jersey Department of Community Affairs, 2010). Additional potential comparison townships included adjacent Moorestown Township. While Moorestown Township has very similar demographic characteristics to Mount Laurel Township, we ruled it out as a comparison township due to the construction of 148 units across several 100% affordable housing developments during the study period.

Compared with Mount Laurel's addition of 140 units of affordable housing in 2000, there were no such units added in Cherry Hill or Cinnaminson during the study period (1990–2008). In Evesham, one 100%-affordable housing project of only 16 units opened during the study period. However, 100% affordable housing is just one type of subsidized housing – other common types include elderly housing, housing for the disabled, rehabilitated existing housing, and "inclusionary" development of affordable housing units as a portion of a market-rate development project. Table 2 includes the number of subsidized housing units in Mount Laurel and the comparison townships. Although all of the comparison townships developed subsidized housing, Mount Laurel has by far the most and no other townships had a large number of units of 100% affordable housing come on-line in 2001.

Our multiple control group time series quasi-experiment focuses on three primary outcomes: crime rates, property values, and property taxes. Crime data come from the 1990–2009 Uniform Crime Reports for the State of New Jersey. Each year, the New Jersey State Police prepares a tally of crime statistics gathered from state enforcement agencies that are then reported to the Uniform Crime Reporting System (NJ Division of State Police 2009). These data include all crimes categorized by the Federal Bureau of Investigation (FBI) as "index crimes," including homicide, rape, robbery, aggravated assault, burglary, larceny, theft, and motor vehicle theft.[1] Among these index crimes, homicide, rape, robbery, and aggravated assault are classified as violent whereas burglary, larceny-theft, and motor vehicle theft are

[1]Manslaughter, domestic violence and simple assault are not index crimes. Domestic violence is not counted as an index crime, unless it is concomitant with one of the listed index crimes.

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designated as non-violent. Each crime is attributed to the municipality in which it was committed rather than the municipality that received the report or responded to the crime.

These crime data are uniformly reported and available across municipalities and over time. However, these official crime data are limited in that they exclude "quality-of-life" crimes like vandalism and disorderly conduct. A further limitation of these data is that they do not indicate the location of crimes (e.g. street address) within each municipality. Accordingly, these data do not permit analysis of the precise distance of crimes from the affordable housing development. A third limitation of reported crime data is that, of course, it only reflects reported crime, omitting unreported crime and including reports that do not result in arrest or prosecution.

Property value and property tax data come from reports prepared by the New Jersey Division of Taxation and are available at the municipal level from 1994 through 2010 (property values —see New Jersey Division of Taxation, 2010a) and from 1997 through 2010 (property taxes —see New Jersey Division of Taxation, 2010b).[2] Each year, the Division calculates the average residential sales price for each municipality and reports the municipal-level property tax burden (the "general tax rate"), which is a multiplier used to calculate the tax levied on each property. In addition to *township*-level property value data, we used public property records to compile *neighborhood*-level data for two specific areas located immediately adjacent the ELH development, Hillside Lane and Holiday Village, both of which were developed in the early 1990s and predate ELH. Holiday Village is located just across the street from ELH and is an age restricted retirement community comprised of single family homes and condominiums limited to persons 55 years or older. Hillside Lane is a just down the road and is comprised of stand-alone, luxury single-family homes that follow a handful of design models.

We supplement our time series analysis with two sources of qualitative data to identify the reasons Mount Laurel residents opposed the housing project and to examine the internal social processes and management practices within ELH. The qualitative analyses are based on data compiled from archival and historical sources, as well as 102 in-depth interviews. From Mount Laurel Township, we obtained transcripts and audio recordings of the public hearings held in 1997. Newspaper articles covering the controversy were gathered from personal collections as well as local archives, and minutes from ELH Neighborhood Watch meetings from 2006–2010 were obtained from Fair Share Housing.

In addition, we undertook qualitative interviews with 42 inhabitants of ELH and 15 residents of surrounding subdivisions between August 2009 and August 2010. The interviews were semi-structured and focused on daily life. In addition, numerous stakeholders were interviewed using a semi-structured approach, including on-site interviews with five Fair Share Housing staff and interviews with 31 local officials from the township, public schools, and police department.

[2]Because the New Jersey Division of Taxation only provides effective tax rates for the years 2000 through 2010, we used an estimated effective tax rate for 1997 through 1999.

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EFFECTS ON CRIME, PROPERTY VALUES, AND TAXES

Figure 2 compares the trends in crime rates observed from 1990 to 2009 in Mount Laurel, the three comparison townships, and the State of New Jersey as a whole using curves fitted using the method of locally weighted polynomial regression, known as LOESS estimation. LOESS estimation fits simple linear and polynomial models to localized subsets of data to create a representation that describes variation in the data on a point-by-point basis (see Cleveland, 1979; Cleveland and Devlin, 1988). As shown in the resulting curves, all geographic areas experienced a drop in crime over the period.

In the state as a whole, the rate dropped from 54.5 crimes per 1,000 residents in 1990 to around 23.9 crimes per 1,000 nineteen years later. The trend in Cherry Hill closely followed the state trend, moving from crime rates in the 50s in the early 1990s to values in the mid-30s by late 2000s. Crime rates in Mount Laurel, Evesham, and Cinnaminson were much lower than the state average in 1990, so they had less room to fall and the decline was much less dramatic in those townships. Nonetheless crime declined in all three townships from 1990 to 2009. Although the decline was flatter in Mount Laurel, there is no evidence of any discontinuity in its trend in the years subsequent to 2001, when ELH opened, or after 2004 when it expanded by 40%.

In Table 3 we undertake a formal test of temporal discontinuities in Mount Laurel's crime rate relative to trends in the comparison cases by estimating simple OLS regressions of crime rates on year for each township during two separate periods: a pre-ELH period from 1990 to 2000 and a post-ELH period from 2001 to 2009. We also present results separately for violent and non-violent crimes. The resulting slopes indicate the average rate of linear change in each township over the time period under consideration. If the opening of ELH caused an increase in crime, we should observe a significant difference between the 1990–2000 slope and the 2001–2009 slope and this difference should be significantly greater than the corresponding slopes observed in the comparison townships, corresponding to Galster's (2004) "difference in differences" approach.

As the regression results very clearly demonstrate, there is no evidence that the opening of ELH caused an increase in crime within Mount Laurel Township. Indeed, overall crime rates decreased during both periods under consideration. Crime rates fell everywhere before and after the opening of ELH, except in Cherry Hill. Although the rate of decline slowed or reversed in all townships after 2000 (significantly in three cases), in none of the comparisons was the change in crime rates observed during 2001–2009 significantly different from that observed in Mount Laurel.

Examining violent and non-violent crime rates separately, we see that the decline in crime rates observed between 1990–2000 and 2001–2009 is largely attributable to a drop in non-violent criminal activity. Across all four townships there was no statistically significant difference in the rate at which violent crime declined between the two periods. The decline in violent crime in Mount Laurel after 2000 was no different than that observed in Cherry Hill and Cinnaminson. Although there was a significant difference post-2000 compared with Evesham, this difference reflects the fact that we observe no significant decline in violent

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crime at all in Evesham, either before or after 2000, whereas Mount Laurel's violent crime rate continued the decline established pre-ELH. The rate of decline in non-violent crimes declined or reversed after 2000 in all townships. This discontinuity was significant in three of the four cases. The exception here is Evesham, whose non-violent crime rate declined more rapidly than the others. But in this case Evesham is the outlier, not Mount Laurel.

Thus, despite the negative expectations of townspeople, we find no evidence that the opening of ELH had any effect on crime rates in Mount Laurel, which were falling before 2001 and continued to fall afterward, just as they did in nearby townships. In Figure 3 we move on to consider the project's potential effects on property values by presenting LOESS curves estimated to show trends in home prices in Mount Laurel and the three comparison townships from 1994 through 2010. After 2000, housing values rose rapidly in all townships, mirroring the explosion in housing prices that occurred nationally over the period. From figures in the range of $120,000 to $140,000 in 1994, average home values in the townships rose up to the range of $245,000 to $265,000 by 2010. Of the four townships, Mount Laurel tied with Evesham for the lowest average home value in 1994 and its average home value remained below the other three townships throughout the period, going from around $125,000 in 1994 to $249,000 in 2010. Over the same period, Evesham went from approximately $125,000 to around $250,000, while Cherry Hill rose from $138,000 to $261,000 and Cinnaminson grew from $137,000 to $255,000.

In other words, the price gap between Mount Laurel and the three comparison townships increased slightly over the period, especially after 2000, as can be seen in Figure 3. In the top panel of Table 4 we undertake a formal statistical test to discern whether the increase in home prices was slower in Mount Laurel than the comparison townships. Using OLS regression we estimated the average linear change in home prices across the four townships during the periods 1994–2000 and 2001–2010. Once again there are no significant differences between Mount Laurel and the three comparison townships, either in the rate of home price increase after 2000 or the change in slopes between 1994–2000 and 2001–2010. Simply put, we find no evidence that the opening of the ELH had any significant effect on township home prices. It is possible, of course, that property values could have declined prior to 1994, in an anticipatory response to the Mount Laurel affordable housing controversy emergence in the 1970s. Unfortunately, we only had access to property value records for 1994 and subsequent years. Nonetheless, the findings pertaining to the 1994–2000 period, however, provide some evidence to counter an anticipatory effects argument.

Although we found no significant effect of the project's opening on property values in Mount Laurel as a whole, it may be that the township is too large an aggregate to detect price effects. Thus Figure 3 also includes LOESS curves for home prices in the two adjacent neighborhoods of Holiday Village and Hillside Lane. Of the two neighboring areas, Holiday Village is the most comparable to ELH in layout and construction, though not in composition, of course. It is a retirement village composed mainly of older couples and singles without children. Nonetheless, like ELH, it is physically composed mainly of cul-de-sacs surrounded by townhouses. It is also located directly across the street. In contrast, although it is adjacent to ELH property, Hillside Lane is a few blocks away and is more of a luxury home development targeted to wealthier families, many with young children.

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The luxury nature of the Hillside Lane development is clearly indicated in Figure 3. Whereas the average home value in Hillside Lane stood at $260,000 in 1994, considerably above the Mount Laurel average, the average home value in Holiday Village was around $112,000, slightly below the Mount Laurel average. Home values remained flat through the late 1990s and even stagnated somewhat in Hillside Lane, but then increased beginning around 2000. Whereas the trend in Holiday Village closely followed that of the township, property values increased more rapidly in the upscale Hillside Lane neighborhood, peaking at $534,000 in 2006.

The statistical tests performed in the bottom portion of Table 4 indicate that the price increase after 2000 in Hillside Lane was significantly greater than price increases either in the township as a whole, or in Holiday Village. In addition, the difference in slopes between 1994 and 2000 and 2001–2010 was much greater. Although the difference in the Holiday Village slopes between 1994–2000 and 2001–2010 is negative (−$601) compared with the positive differences in the township as a whole and in Hillside Lane, Wald tests of the hypothesis that the Holiday Village slopes are equal demonstrate that the pre- and post-2001 difference is not statistically significant.

In sum, we find no statistical evidence of a discontinuity in Holiday Village property values before and after the opening of ELH. As with township-level property values, it is possible that property values at the neighborhood-level could have declined prior to the beginning of our data series in 1994, anticipating the project's construction. However, the neighborhoods of Holiday Village and Hillside Lane were only built in the early 1990s – rendering an anticipatory effect less relevant in this comparison.

In Figure 4 we present LOESS curves estimated to show trends in property tax rates in Mount Laurel and the three comparison townships from 1997 through 2010, the period for which data are available. The data consist of effective tax rates indicating the municipal-level property tax burden, adjusted by the New Jersey Division of Revenue to account for municipal tax reassessments. It is immediately apparent that property tax rates followed similar patterns in all four townships: remaining steady overall before the opening of ELH, increasing slightly in the early 2000s following the opening of ELH, and declining in the mid- and late-2000s. For most of the period under observation, Mount Laurel had the lowest tax rates and Cherry Hill the highest. Formal tests provide little evidence that the opening of ELH had any particular adverse effect on tax rates in Mount Laurel particularly.

In Table 5 we again use regression methods to estimate average linear changes in property tax rates across the four townships during 1997–2000 and 2001–2010. Although we observe a systematic increase in tax rates after 2000 in Mount Laurel, Cherry Hill, and Evesham, the rate of increase was significantly lower in Mount Laurel compared with the latter two municipalities, and this time Cinnaminson was the outlier. Owing to the reassessment, its rate of increase in taxes averaged out to zero in the post-ELH period. Even so, this rate was not significantly different from the slow rate of property tax increase observed before 2001, and prior to this date all townships experienced more rapid growth in taxes than Mount Laurel.

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EXPLAINING THE LACK OF EFFECTS

In the end, we find no evidence that the opening of ELH caused an increase in crime rates, a decline in property values, or an increase in property taxes in Mount Laurel after the project opened in late 2000. How were such benign effects achieved? Here we describe the social practices of ELH residents and the practical policies of ELH staff that we believe worked to mitigate potential threats to disorder in a 100% affordable housing project. Rather than yielding disorganization within the project, these measures produced a high level of social organization, a high degree of participation by residents in community organizations, and generally high levels of satisfaction and social integration reported by residents despite their common background of material hardship.

ELH management runs what both residents and staff call a "tight ship." The required applicant screening is thorough and includes credit checks, criminal background checks, income verification, and a home visit. Applicants with substantial criminal backgrounds are disqualified from participation. Of the population seeking affordable housing in New Jersey then, the residents of ELH are a screened subset of people who are less likely than poor people in general to have the proclivity, knowledge, and ability to engage in criminal or delinquent activities. Minority group members, however, are substantially overrepresented, with blacks comprising 59% and Hispanics 29% of all residents, compared with just 10% for whites.

In addition, project management is closely involved in the daily lives of residents. The management office is located on-site at the front of the complex, and it houses a property manager, leasing agent, and social service coordinator. A maintenance worker also lives on-site in one of the units. The staff works to resolve lease infractions quickly, and does not hesitate to employ eviction against troublesome residents. Most residents say they like the management's heavy hand and believe that it contributes to maintaining a desirable community.

Drawing on extensions of routine activity theory elaborated in criminological and environmental criminological studies (Clarke and Robertson, 1998; Eck, 1994; Mazzerole, Kadleck, and Roehl, 1998), our findings support the idea that the presence of active place managers and their routine activities work to reduce the opportunities for criminal behavior to take place. Tenants regularly share information with the management during casual conversations when they drop off their rent every month. These conversations provide regular check-ins, in which good or bad feelings about neighbors, management, or the complex are voiced. In addition, the routine activities of place managers extend the social control that was purposefully designed and built into the housing complex.

ELH management has organized a Community Watch that meets monthly, comprised of residents and staff members, many of whom were trained by the township's Community Watch Program. These meetings offer residents a chance to report issues and concerns and to learn from management about any police or criminal activity in the area. The local police maintain close contact with the property management, seeking and sharing any information pertaining to ongoing criminal investigations. From the project's inception, the police

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provided input into the design of ELH in an effort to build greater social control into its physical structure. As a result of police input, for example, the construction of high fences was prohibited so as not to impede the ability of residents to monitor public spaces. Although it is set back from the main roadway and located on cul-de-sacs, it is not a gated community.

Beyond these formal control mechanisms, residents have evolved a variety of informal mechanisms of social control such as the active sharing of information and the ongoing monitoring of people's behavior in and around the complex. Key components of information come from parental monitoring of children. The shared information focuses on the activities of other residents: who they are, where they work, what they are up to, who is coming in,who is leaving, problems in the home, etc. Particularly important in the flow of information are children, who serve as active collectors and distributors of data. Of particular importance in both the informal and formal management of potential disorder and criminality is the strong attention paid to outsiders---people who do not live in ELH but may be staying in or visiting the complex (Freeman and Botein, 2002).

Most residents see formal and informal monitoring as essential to the security of the complex. Our findings echo those of Miller (1998), whose study of a mixed-income development in Illinois found a similar trade-off between domestic control and public safety. Interestingly, despite frequent gripes about intrusive monitoring, ELH residents regularly complain to the management about what they perceive as insufficient screening of rental applicants, and regularly ask for stricter screening policies. As a result, little crime is reported in or around ELH. Reports of crimes are largely confined to domestic disturbances. Minor crimes do occur in ELH, but management and residents count on reliable and well developed formal and informal social control mechanisms to keep crime rates down and maintain social order. The constant monitoring of residents and visitors by residents and place managers reduces the potential that people with criminal intentions will find safe harbor in ELH.

One of the key concerns raised by local residents about the project was that it would be unattractive and easily identified as "public housing" and that poor management would quickly lead to its becoming run down, thus "bringing down" the surrounding neighborhood. In addition to implementing policies and encouraging informal actions to prevent social disorder and social isolation, therefore, management paid considerable attention to the aesthetics of the housing complex. The property developer sought to create and maintain housing that is physically and aesthetically similar to that in surrounding subdivisions by using cul-de-sac designs, spatial layouts, and materials that were roughly similar to those in nearby suburban homes. ELH consists of 140 rental units in a subdivision, organized in clusters of attached single family townhomes, built around four cul-de-sacs that feed into a single drive leading to the main entrance, which is not gated in any way. In addition, the maintenance budget for ELH has a line item for landscaping, and according to the property manager landscaping was deliberately modeled after properties in Haddonfield and Moorestown, two nearby suburbs with high average household incomes and property values.

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The foregoing management practices and concerns for aesthetics have minimized the stigma of the project within Mount Laurel and generally contributed to a decreased awareness of its existence. When asked their perception of the housing, a common response from neighbors is to assess its aesthetics and to describe whether or not it looks like affordable housing. In a letter to the school district, one resident of Mount Laurel living outside of ELH stated in 2006, “I recently drove through ELH and it looked so nice you would have no clue that it’s affordable housing.” Indeed, as part of our larger evaluation, we surveyed 127 randomly selected residents of the two neighborhoods adjacent to the project and discovered that nearly a third of the respondents were unaware that an affordable housing project was located nearby and only 13% reported having any contact with ELH residents (Massey et al., 2013). When the affordable project finally opened, it was not with a bang but a whimper.

DISCUSSION

Our findings suggest that affordable housing can indeed be developed in an affluent suburban community without increasing social disorganization or producing negative externalities in terms of crime, property values, or taxes. Our systematic analyses of trends in Mount Laurel and surrounding municipalities revealed no significant differences in crime rates, property values, or tax burdens before or after the opening of the Ethel Lawrence Homes. Although prior studies of subsidized housing have documented negative effects on surrounding communities, such was not the case in Mount Laurel (though we were unable to assess potential environmental effects noted in previous research---see DeGenova et al., 1999).

This benign outcome did not simply happen, but was likely achieved by specific features of the project’s design that were incorporated into plans and practices by developers explicitly to mitigate potential negative externalities and to promote social cohesion and security among project residents. These features include judicious selection of residents, architectural consistency with surrounding neighborhoods, careful attention to landscaping and aesthetics, close cooperation between managers and residents, access to onsite after-school programs, organization of a town watch, and close collaboration with municipal officials.

Subsidized housing assumes many forms in the United States, with a variety of income mixes, eligibility requirements, and project designs, and in many ways ELH is rather unusual. Some plans call for setting aside a small share of units for subsidy in larger market-rate developments, but in ELH all units are affordable to low and moderate income families. Other projects are open only to the very poorest families and little attention is paid to tenant selection, but ELH offers a range of affordability (ranging from 10% to 80% of the regional median income) and prospective residents are carefully screened for their suitability as tenants. In many ways, ELH offers an example of best practice to ensure the successful integration of an affordable housing project and its residents into the surrounding community.

Like the Moving to Opportunity and Hope VI programs implemented by the U.S. Department of Housing and Urban Development in the 1990s, ELH is a housing mobility program, one structured to enable residents of disadvantaged neighborhoods to relocate to

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more advantaged locales that offer greater access to employment, education, and security. However, unlike these earlier mobility programs, which generally yielded modest benefits to participants, ELH was an unqualified success. Although it is beyond the scope of this paper to recount the socioeconomic progress of ELH residents, moving into the project clearly led to marked improvements in mental health, employment, and income among project residents and vastly improved educational outcomes for their children (Massey et al., 2013; Casciano and Massey, 2012a, 2012b, 2012c), suggesting that developments such as ELH provide not just access to housing, but real opportunities for poverty reduction and socioeconomic mobility.

Recent Obama administration initiatives such as the Choice Neighborhoods and Promise Neighborhoods Programs have shifted away from housing mobility schemes toward place-based programs that target distressed neighborhoods for investment in hopes of improving the lives of residents and mitigating negative spatial spillovers from concentrated poverty. There is nothing contradictory in pursuing both place-based investments and promoting residential mobility to better neighborhoods, but the experience of the Ethel Lawrence Homes suggests that the funding of well-designed and well-implemented affordable housing projects in suburbs funded by the Low Income Housing Tax Credit may provide greater benefit to participants per dollar spent while imposing no costs on host communities and little burden on taxpayers generally.

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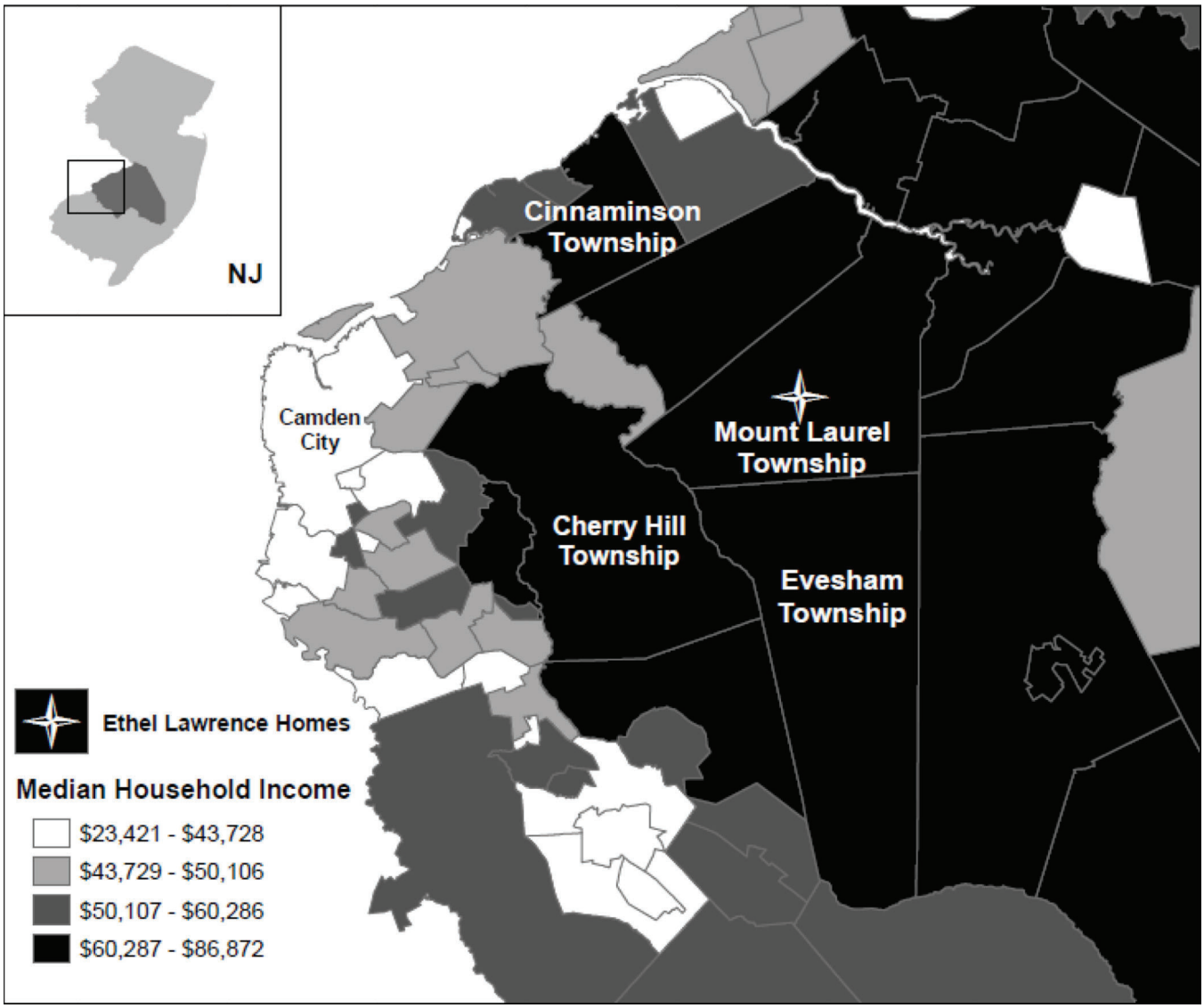


Figure 1.

The location and median income of Mount Laurel and three comparison townships in Southern New Jersey, 1999.

Data Source: U.S. Census Bureau 2000

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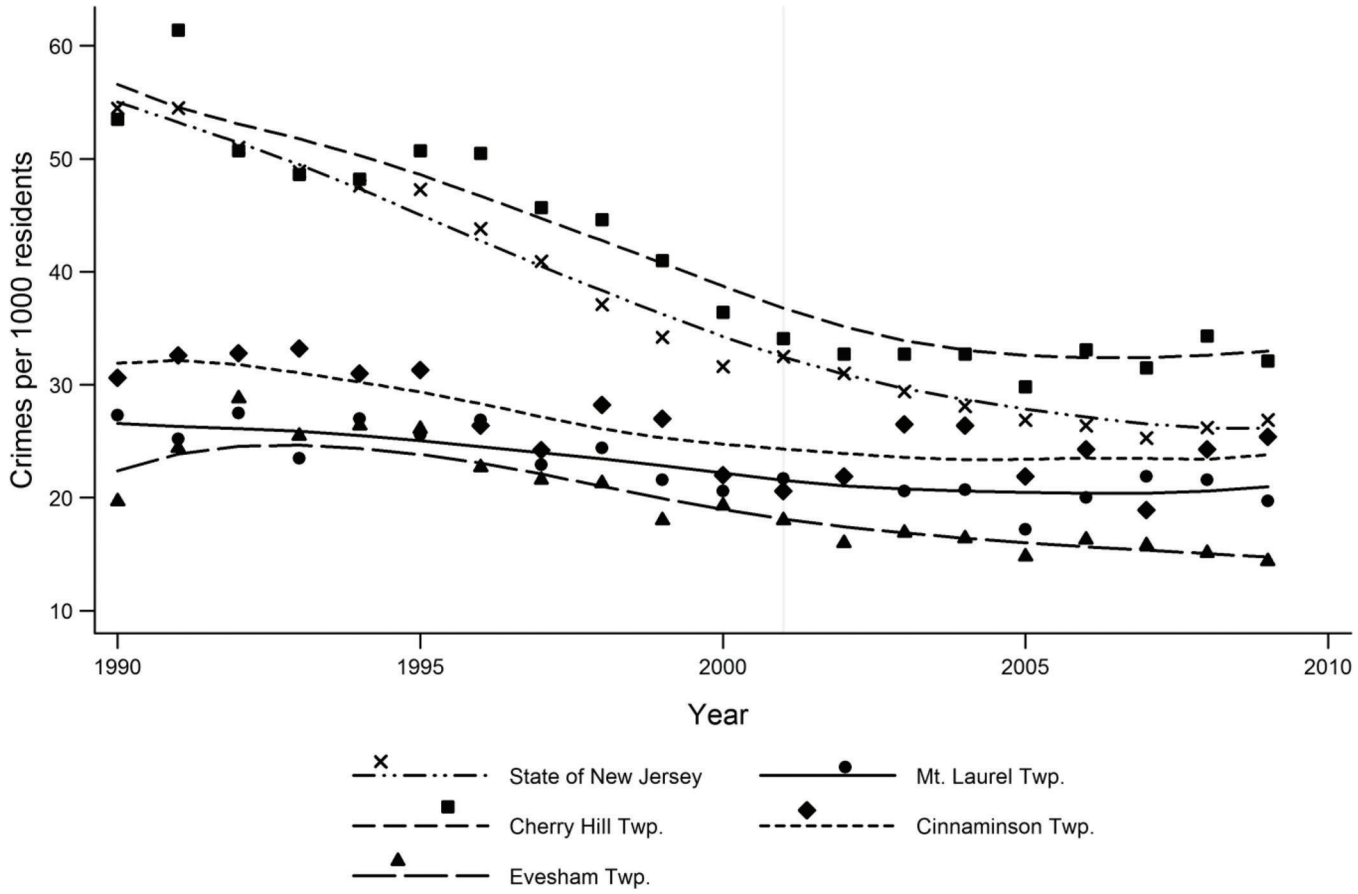


Figure 2.

Crime rates in Mount Laurel and comparison townships, 1990–2009

Data Source: NJ Division of State Police, 1990–2009

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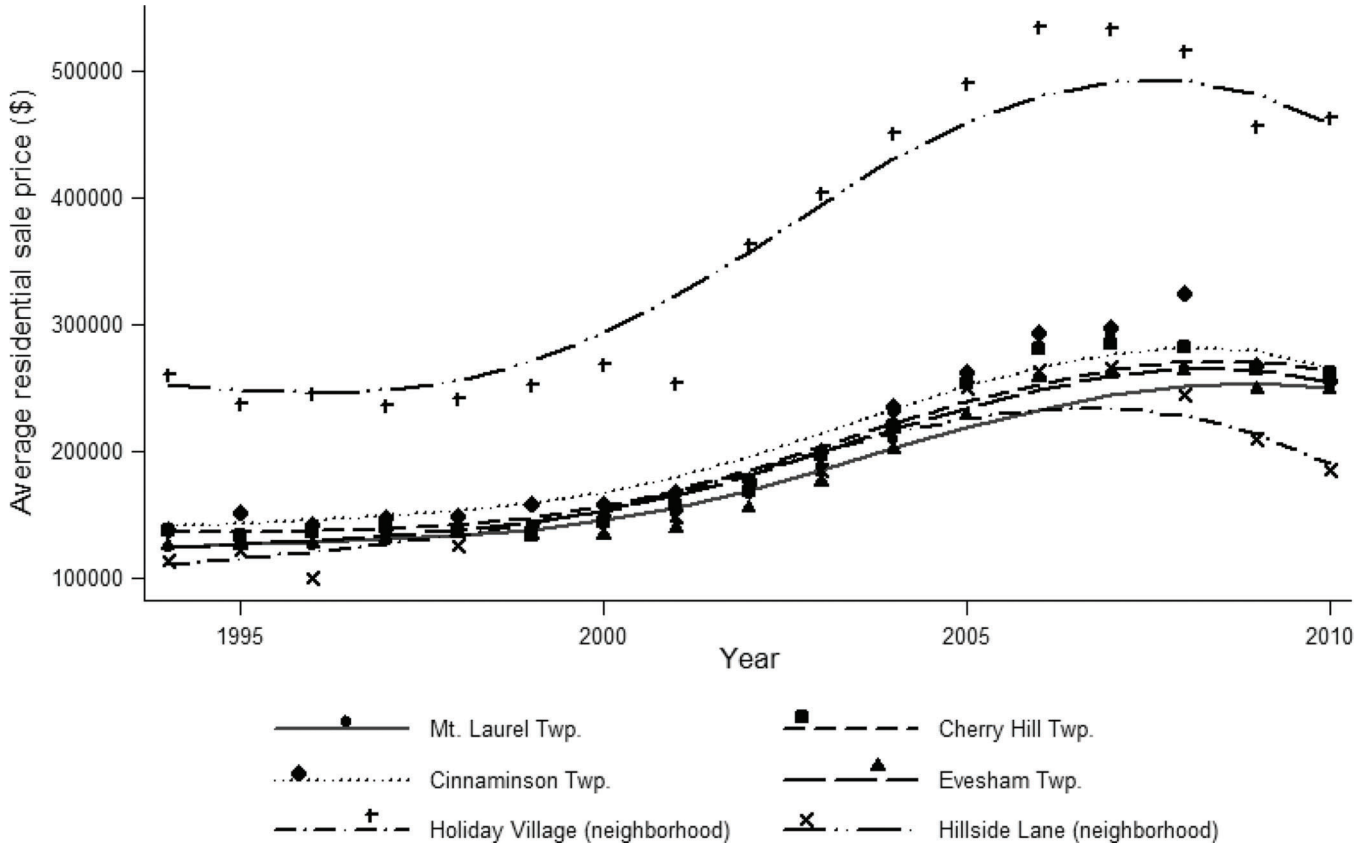


Figure 3.

Property values in Mount Laurel, comparison townships, and nearby neighborhoods, 1994–2010

Data Sources: NJ Division of Taxation 1994–2010; Asbury Park Press property records 1994–2010

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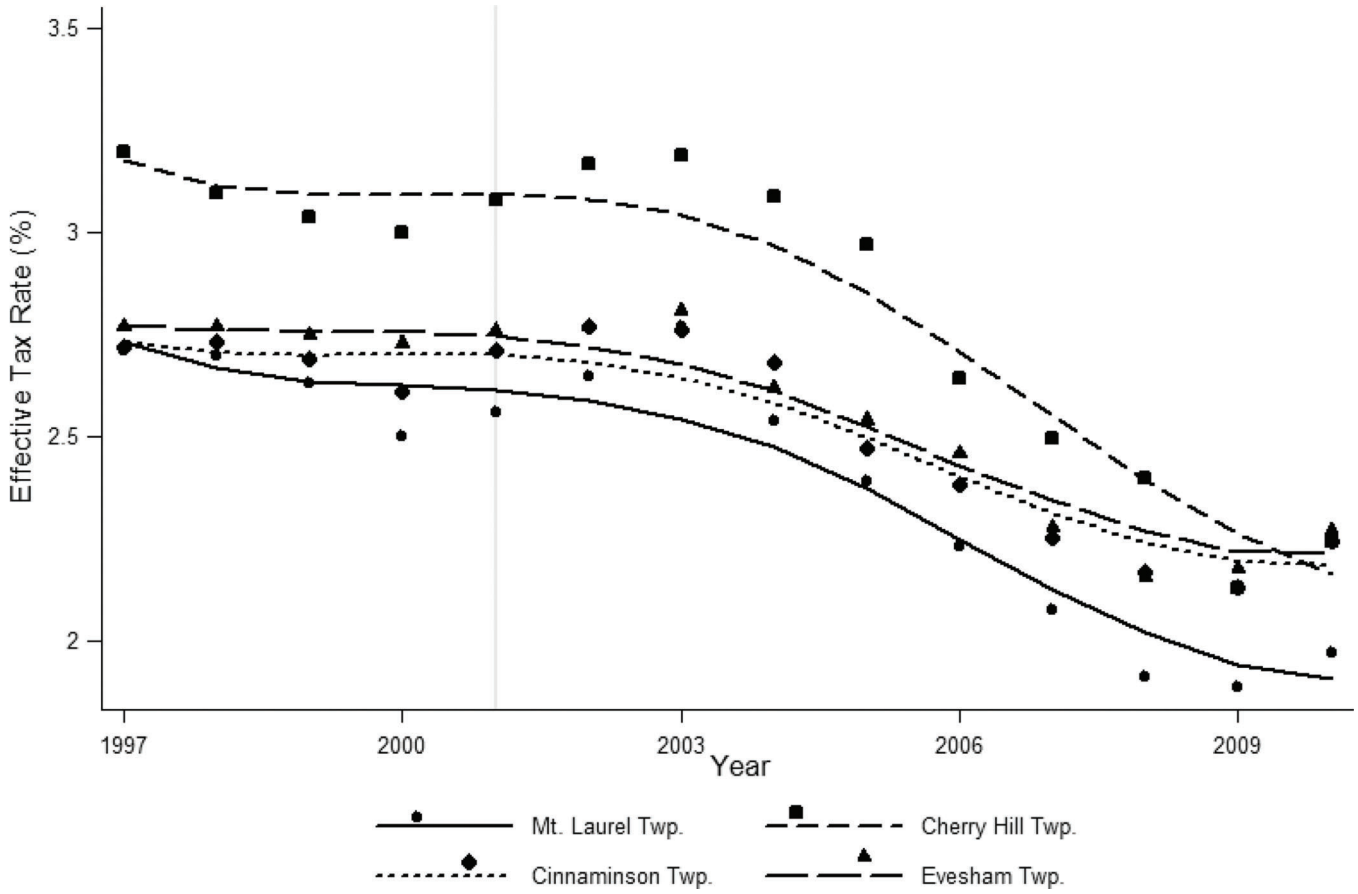


Figure 4.
Effective tax rates in Mount Laurel and comparison townships, 1994–2010
Data Source: NJ Division of Taxation 1997–2010

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Table 1

Demographic and economic characteristics of Mount Laurel and comparison townships in South Jersey.

Characteristic	Mount Laurel	Cherry Hill	Cinnaminson	Evesham
Demographic Status				
Median Age	38.9	41.8	42.0	36.0
% Family Households	66.8	74.0	81.9	72.2
% Households with Persons <18	31.9	34.0	36.3	40.1
% Households with Persons 65+	24.5	31.3	36.3	17.4
Race and Ethnicity				
% White	87.1	84.7	91.4	91.3
% Black	6.9	4.5	5.1	3.1
% American Indian	0.1	0.1	0.2	0.1
% Asian	3.8	8.9	1.9	4.1
% Two or More Races	1.4	1.2	1.0	1.0
% Hispanic (Any Race)	2.2	2.5	1.5	2.0
Economic Status				
Median Household Income (000)	$63.8	$69.4	$68.5	$67.0
Poverty Rate	3.1	4.0	2.4	2..8
Housing Cost				
Median Monthly Mortgage	$1,467	$1,538	$1,398	$1,501
Median Monthly Rent	$939	$793	$916	$886
Housing Tenure				
% Owner Occupied	83.7	83.0	96.2	77.7
% Renter Occupied	16.3	17.0	3.8	22.3
Total Population	40,221	69,865	14,595	42,275

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Table 2

Subsidized Housing Developments Completed in Mount Laurel Township and Comparison Townships (1990–2008)

	100% Affordable	Elderly Housing	Inclusionary Development	Rehabilitated Housing	Supportive or Special Needs	Total
Mount Laurel Twp.	140	193	238	21	73	665
Cherry Hill Twp.	0	100	398	18	0	516
Cinnaminson Twp.	0	0	0	0	21	21
Evesham Twp.	16	89	101	16	97	537

Source: New Jersey Department of Community Affairs 2010

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Table 3

OLS regressions of crime rates on time (year) in Mount Laurel and comparison townships.

		Pre-ELH *(1990–2000)*		Post-ELH *(2001–2009)*		Pre vs. Post $\beta_{1990–2000} \neq \beta_{2001–2009}$
	township	**β**	**$\beta \neq \beta_{Mt.\ Laurel}$**	**β**	**$\beta \neq \beta_{Mt.\ Laurel}$**	
Crime	Mt. Laurel	−0.53 (0.16)	–	−0.12 (0.20)	–	yes**
	Cherry Hill	−1.71 (0.33)	yes***	−0.09 (0.18)	no	yes***
	Cinnaminson	−0.93 (0.22)	no	0.15 (0.36)	no	yes***
	Evesham	−0.56 (0.29)	no	−0.32 (0.09)	no	no
Violent Crime	Mt. Laurel	−0.05 (0.01)	–	−0.06 (0.02)	–	no
	Cherry Hill	−0.05 (0.02)	no	−0.06 (0.02)	no	no
	Cinnaminson	−0.04 (0.04)	no	−0.03 (0.05)	no	no
	Evesham	−0.01 (0.04)	yes***	0.00 (0.02)	yes**	no
Non-Violent Crime	Mt. Laurel	−0.49 (0.16)	–	−0.06 (0.21)	–	yes**
	Cherry Hill	−1.67 (0.32)	yes***	−0.03 (0.17)	no	yes***
	Cinnaminson	−0.89 (0.19)	yes*	0.19 (0.36)	no	yes***
	Evesham	−0.55 (0.26)	no	−0.31 (0.10)	yes*	no
Number observations		11		9		

*** p <0.01

** p<0.05

* p<0.10, based on Wald test of the hypothesis that the slopes are equal standard errors in parentheses

City Community. Author manuscript; available in PMC 2016 July 05.

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Table 4

OLS regressions of property values on time (year) in Mt. Laurel and comparison townships.

	Pre-ELH 1994–2000		*Post-ELH 2001–2010*		*Pre- vs. Post* $\beta_{1994–2000} \neq \beta_{2001–2010}$
geographic area	β	$\beta \neq \beta_{Mt.\ Laurel}$	β	$\beta \neq \beta_{Mt.\ Laurel}$	
Mt. Laurel Township	1726 (389)	-	13827 (2403)	-	yes ***
Cherry Hill Township	867 (622)	no	13693 (2837)	no	yes ***
Cinnaminson Township	2915 (905)	no	13790 (3783)	no	yes ***
Evesham Township	3284 (498)	yes	13722 (3231)	no	yes ***
Hillside Lane (neighborhood)	1896 (2407)	no	20588 (7118)	no	yes **
Holiday Village (neighborhood)	6476 (2546)	yes ***	5875 (4267)	no	No
Number observations	7		10		

*** p <0.01

** p<0.05

* p<0.10, based on Wald tests of the hypothesis that the slopes are equal standard errors in parentheses

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Table 5

OLS regressions of property taxes on time (year) in Mt. Laurel and comparison townships.

	Pre-ELH 1997–2000		*Post-ELH 2001–2010*		*Pre vs. Post* $\beta_{1997–2000} \neq \beta_{2001–2010}$
geographic area	β	$\beta \neq \beta_{Mt.\ Laurel}$	β	$\beta \neq \beta_{Mt.\ Laurel}$	
Mt. Laurel Township	−0.07 (0.02)	–	−0.10 (0.01)	–	no
Cherry Hill Township	−0.07 (0.01)	no	−0.09 (0.02)	no	yes***
Cinnaminson Township	−0.04 (0.01)	yes*	−0.08 (0.02)	no	no
Evesham Township	−0.01 (0.00)	yes***	−0.08 (0.01)	no	yes***
Number of observations	4		10		

*** p <0.01

** p<0.05

* p<0.10, based on Wald tests of the hypothesis that the slopes are equal standard errors in parentheses

From: Tara Tenenbaum <tionn3@gmail.com>
Sent: Thursday, October 18, 2018 3:03 PM
To: Cass, Marc
Subject: Affordable housing development on Mount Etna
Attachments: nihms768473.pdf

Hello,

I am a resident of the Mount Etna neighborhood and I am writing to let you know my concerns about the proposed affordable housing development on Mount Etna and Balboa/Genesee.

I understand that the project was initially approved for 116 units, but the city has now been trying to push through up to 450 units. I am greatly concerned about the impact of traffic and crime in my neighborhood. I just purchased my first home on Mt. Putman, so I feel I have a large stake in this development as I've purchased my home in an expensive market.

San Diego is, without a doubt, in need of affordable housing. However, I believe there is a right and a wrong way to go about doing it. I feel 450 units is to big of an ask for our neighborhood. I would be happy with the 116 units that was originally proposed and feel that our neighborhood would have no problem dealing with an additional 116 units. 450 units is just too much, and the city has also alienated a lot of our community members by suddenly proposing 4X what they originally asked for. Additionally, this housing development cannot go through without consideration for parking, traffic, and safety.

I have a research article (attached in this email) that I would like you (or someone on the planning development team) to read. It discusses a variety of practices that affordable housing developments can use to keep crime low in the suburbs that they are located in. Mainly, 1) strict, intensive screening of all applicants to the development (the most violent offenders are immediately disqualified regardless of low income status or section 8 housing vouchers status) 2) having a social worker(s) on site to help with the at risk population 3) issuing swift eviction notices for any troublesome tenants, 4) surveillance of the property to monitor crime and who is coming in and out of the property (to prevent people living in units not on leases).

Parking is also a main concern for our community, and it MUST be addressed. Surface lots alone will not be sufficient to mange the parking space need that will result from this development. It's the cities responsibility to make sure that our surrounding community is not impacted by the increase of parking from this development. A really good way to to get the community members on board with this project is to address the parking situation head on. So far I haven't seen anything that addresses this issue. Make an underground lot, make a lot on the surface and put the units over the lot. Give the surrounding existing community members parking permits to ensure that they get reserved street parking and restrict the members of the development from parking on the streets of the surrounding neighborhood (I know it is heavy handed but these are things you need to do to get community support). The community around the UCSD Hillcrest hospital all have special permits that allow them to park on the street because the community knew that the Hospital would impact street parking.

Please don't dismiss the concerns of our community. I worked really hard to purchase my first home in Clairemont. At the same time I know what it's like to be faced with rising rent costs and little to no housing availability. Affordable housing and home security can absolutely make a difference in someone's life. Keeping people of the streets is good for everyone, but you have to do it right. Infrastructure of future housing

developments is incredibly important. A poorly designed project with no consideration for the existing community that it will reside in will doom your project.

Best,

Tara Tenenbaum
Mt. Putman Ave.

From: Taylor Buchholz <alohataylorb@gmail.com>
Sent: Friday, October 12, 2018 8:09 AM
To: Cass, Marc
Subject: Clairemont homeless project

Is there a website you can direct me to?
Petition?

Sent from my iPhone

From: Thomas Stephens <tstephens@san.rr.com>
Sent: Friday, October 19, 2018 12:29 PM
To: Cass, Marc
Cc: chriscate@sandiego.gov; Ron-Roberts
Subject: County Crime Lab redevelopment opposition

Sirs,

I want to register my firm opposition to the County Crime Lab redevelopment at Genesee and Mt Etna, as currently planned. This out-of-scale and poorly conceived project will have a huge negative impact on the immediate area, and likely destroy the character of the nearby neighborhood, of which I am a home owner. I also object to the city/county's ramrod planning and scheduling process which seems designed specifically to circumvent proper review and input from the community.

Respectively yours,

Thomas Stephens 4475 Mt Henry Ave San Diego, CA 92117

From: Todd Burton <tallynburton@yahoo.com>
Sent: Thursday, October 18, 2018 12:28 PM
To: Cass, Marc
Cc: Tanja Kropf; Claire Burton
Subject: Etna project

I'm a home owner on mt Everest and am opposed to this project. Not only do I fear this will affect my property value , I'm concerned about the increased traffic, lack of parking, and potential increased crime. I originally lived in this area in the sixties. I retired, bought a house, and thought I would live in a quiet community. The mid fifties houses and neighborhood seems to be experiencing people updating and remodeling their homes after a period of neglect. County appraisals of homes seems to be in the 630,000 area. I doubt that the appraisal s will reflect a devaluation and lower the amount of taxes I currently am paying. If I do decide to move and find due to this project that I've loss money of my home and investment, rest assured I will sue the county to recoup my losses.
Already on my street due to construction on the school across from my house, I am dealing with construction trucks and their workers parking on my street and in some cases in front of my driveway. On Sunday's the school rents its auditorium out for a church. Again I'm dealing with overflow parking on my street. The streets are also being resurfaced and again I'm dealing with construction trucks blocking and causing traffic problems. This is all within 30 days. In addition mt Everest Blvd is being used by drivers in bypassing Genesee and balboa traffic congestion. The cars and trucks speed thru here at an unsafe velocity. We don't even have the street lamps that we are zoned for due to lack of funds. This affects our nite time safety. I have attached pictures of the construction trucks parked on my street.
Cass, I attended on of the county meetings where speakers were voicing their concerns. As one woman addressed you personally, you had become distracted and asked her to repeat her statement as you missed it. I sense a lack of real concern and interest with you and the other representatives . I hope I am wrong.









Notice the deaf child sign on this street. How do you guarantee that child and other children's safety ?

Todd Burton
858-736-4073

From: Tom Cebulski <solviz@hotmail.com>
Sent: Friday, October 19, 2018 1:35 PM
To: Cass, Marc
Subject: Mt Etna

I am writing to express my concerns regarding the low income housing being proposed for the Old Crime Lab on Mt. Etna. As a homeowner that is 4 blocks from this project I am objecting to the amount of units being proposed as well as changing the current zoning to accommodate such a big project. This is a family neighborhood. We chose to live outside of downtown because there is less traffic and less people. Adding over 400 units in area that is already getting overpopulated places a burden to the current residents and to the area. Proposing that all units be slotted for low income, homeless, and disabled places us in a situation where the residents of the area carries a higher burden to provide for this population than other areas such as Mira Mesa, UTC, Serra Mesa etc. Why not share the burden with other areas? We already have a low income apartment complex and a future homeless project within .5 miles from Mt. Etna. How is this fair? Make the site be for 50% low income and 50% market value as well as only allowing half the units of what is proposed.

Sincerely,
Tom Cebulski

From: Tracy Yates <tracys.yates@gmail.com>
Sent: Friday, October 19, 2018 5:15 PM
To: Cass, Marc
Subject: No on Mt Etna low income housing!!

I do not want this and am stupified that you would attempt to alude this under the radar.
Tracy Yates

From: Lisa Hudson <lisahdsn@san.rr.com>
Sent: Friday, October 19, 2018 1:34 PM
To: Cass, Marc
Subject: FW: RE: Mt. Etna Crime Lab Re-Development Site for Low-income Housing

From: Lisa Hudson [mailto:lisahdsn@san.rr.com]
Sent: Friday, October 19, 2018 11:43 AM
To: 'marc.cass@sandiego.gov'
Cc: 'ChrisCate@sandiego.gov' ; 'Ron-Roberts@sdcounty.ca.gov' ; 'kevinfaulconer@sandiego.gov'
Subject: RE: Mt. Etna Crime Lab Re-Development Site for Low-income Housing

October 18, 2018

County of San Diego
Department of General Services
5560 Overland Avenue
San Diego, CA 92123

The plan proposed at the October 15th meeting on the Mt Etna Crime Lab Re-development site by Chelsea does not even come close to fitting in with the surrounding neighborhood. The proposed height limit of 60 feet is over the 30-foot limit, over the approved housing density and is a not fit for the neighborhood. The proposed plan would be adding the equivalent of a new "neighborhood" to the existing neighborhoods of the Mount Street area without any additional expansion of surrounding facilities. For more than 30 years the City of San Diego (and the County by extension) has ignored any upgrades or expansions of public works (road building, library, water, sewer, communications, power, transportation, fire department and police) in Clairemont. We don't understand why this location was chosen when there are bigger lots east of Clairemont where the county could build thousands of units and not impact a small community with NO RESOURCES.

The Site is only approved for a "116 residential units with a 10,000 square foot neighborhood serving retail component". Instead of requesting that plans follow this description, the County has decided to push for over 400 units without any retail. In addition, the County pushed ahead with plan selection **without any COMMUNITY INPUT** and kept the plan a secret until after the approval of a development plan. This has been highway robbery!!

We're tired of the middle class families who follow the rules, pay their taxes, and work hard to be RUN over by our government. This entire project is not acceptable in any other part of San Diego County, so why should we be accepting it in our neighborhood? This facility would be the LARGEST high-density low-income/homeless housing in San Diego county. How is that fair to put this burden on our community? We currently have a 52-unit homeless senior housing that will be built over the next two years within 2 blocks of Mt. Etna and 350+ section 8 (The Stratton) housing right next door. The crime at The Stratton is so bad that the residence don't

even feel safe living there (see Yelp reviews). Clairmont has more low-income density housing than any other area surrounding it.

The homeless problem is NOT Clairemont's problem but the entire City of San Diego. We wouldn't be in this predicament if the city required the big developers to build their 10% of affordable housing. Instead they've allowed them to buy out and now you expect us to take on that burden? There should have been a better plan in place because now the problem has exploded. We'd like to see a citywide plan of affordable housing for all communities with equal numbers before any NEW developments are built in our city. This includes Mira Mesa, La Jolla, Bird Rock, Bay Park, Bay Ho, Pacific Beach, Mission Beach, Rosecrans/Midway, Little Italy, Downtown, and Mission Valley to name a few.

How are these NEW developments contributing to the low-income housing crisis?

- Town and Country Hotel = adding 850+ apartment units with NO mention of affordable housing
- Midway/Rosecrans = 11,000 new homes and apartments with NO mention of affordable housing
- Morena Blvd by NEW trolley station = 5,000+ units and NO mention of affordable housing
- Downtown/Little Italy = So much construction going on with little to NO affordable housing being built. San Diego Union Tribune quoted, "We wanted the building to have class, character and a timelessness," said H.G. Fenton CEO Mike Neal during a recent tour of the Vici, one of the most luxurious new apartment buildings in San Diego County. Average rent for a 1-bedroom downtown/Little Italy $2900/mo. This quote goes hand and hand with every NEW development that is going on around Clairemont. All have class, lots of amenities and very little Affordable Housing.

This entire project has done one good thing for our family – it has lit a fire under us and now we are involved in politics, the Clairemont Community Planning Group, Clairemont Town Council, community discussions on future plans, and we've been able to educate ourselves on the affordable housing crisis. One thing is for sure … we need to take care of our middle class families who are educated but cannot find affordable housing. We keep building for low-income/homeless who more than likely won't contribute to this community instead of the hardworking middle class families who make a decent wage but can't afford to live in San Diego.

We will not let the county or city take our quality of life and back-breaking investment so that they can hit their "LOW-INCOME/HOMELESS HOUSING NUMBERS". This entire project has been rushed and we will not be bulldozed over. We will take this fight public and picket every day until there is a resolution.

The County should be ASSAMED for even trying to build this monstrosity within a community that does not have the resources or land to support it.

Shame on …….The County of San Diego, City Councilmember Chris Cate, Mayor Faulconer, and County Board of Supervisors.

Best,

Tyrus Barth & Lisa Hudson (Resident of Clairemont for 20 years)
3115 Mount Acmar Court
San Diego, CA 92111

From: michael jarvis <mjarvis64@gmail.com>
Sent: Thursday, October 18, 2018 11:54 AM
To: Cass, Marc

Greetings~

We own and occupy our SFR property located on the 4200 block of Mount Castle Avenue, the first street west of the proposed multi-family project for low income, homeless and at risk, drug and recovering individuals. I and my husband along with multitudes of neighbors are vehemently against the proposed project and of the plan to waive current height restrictions for new construction. This area cannot afford such developments which will more than double the amount of SFR's and population in the area and increase what is locally already a significant problem with drug addicted transients and mentally ill individuals.

Furthermore, we understand the current plan does not provide appropriate numbers of parking spaces to accommodate the influx of new residents. Mount Castle Avenue, a quiet family, owner occupied street will be the nearest option for overflow parking which takes away from our own on-street parking in front of our homes. Expanding population in this already dense area is not the right solution and punishes owners who pay VERY HIGH taxes to own and live in this area!

Our home was purchased in 2003 and at that time, city improvement plans focused on the undergrounding of power lines with a then published ETA of work in or around 2017 for our area. We looked forward to this upgrade to beautify our neighborhood and increase property values. We are painfully aware this hasn't happened and now the current proposal will bring more blight to the area and negatively impact our property values…not OK! As a matter of fact, on the east side of our street, several houses have recently been put up for sale, a certain indication residents are bailing out before the situation worsens.

Our quality of life and safety is at risk! Stop the planned multi-family development.

Please keep the best interests of existing surrounding homeowners in mind.

Best wishes,

Mike Jarvis

Mjarvis64@gmail.com

Clairemont Mesa Community Plan Amendment and Rezone Project
Case No. WT-4224097
NOTICE OF PREPARATION PUBLIC REVIEW PERIOD
September 10, 2018 through October 19, 2018

PUBLIC SCOPING MEETING COMMENT SHEET

Monday, October 15, 2018
Marston Middle School
3799 Clairemont Drive
San Diego, CA 92117

WRITTEN COMMENT FORM

I am OLD - I have low vision + only 30% hearing. I do not drive. I use a walker. I moved here in this Neighborhood knowing I could walk to stores. IF someone were to push me at the slightest, I most likely will Fall and with most falls - Break something. Another one just might be the end of my Freedom. Intentionally bringing mentally ill, Alcoholics, drugies, substance abuse - the undesirable, is A major SAFETY CONCERN not to mention how it will negatively impact the value of our neighborhood. Where will all those people park? To go higher than approved is Not fair to any of us. All of us in the neighborhoods suffer - the Businesses will suffer - home owners will suffer elderly will suffer

(Attach additional pages as needed)

MAIL or E-MAIL FORMS TO:

Marc Cass
County of San Diego
Department of General Services
5560 Overland Ave
San Diego, CA 92123
E-mail: marc.cass@sdcounty.ca.gov

Phyllis Berg
Signature

Phyllis Berg
Print Name

4334 Mt. Jefferson Ave
Address

San Diego, CA 92117
City State Zip Code

904-460-8988
Phone Number

COMMENTS MUST BE RECEIVED BY 5:00 PM OCTOBER 19, 2018

Scanned with CamScanner

From: Valerie <flyvberg@gmail.com>
Sent: Friday, October 19, 2018 11:46 AM
To: Cass, Marc
Subject: cqse WT-4224097
Attachments: cqse WT-4224097.pdf

Valerie

From: Val Berg <flyvberg@yahoo.com>
Sent: Friday, October 19, 2018 12:40 PM
To: Cass, Marc
Subject: WT-4224097
Attachments: WT-4224097.pdf

Valerie

From: Victoria Ngo Border <v.ngo.border@gmail.com>
Sent: Friday, October 19, 2018 9:30 AM
To: Cass, Marc
Subject: Mt. Etna Concerns

Good morning Marc,

I'm sure you've heard about many of the concerns Clairemont residents have regarding the proposed Mt. Etna project, and I wanted to add my thoughts. I am not against affordable housing, but I disagree with the number of units proposed and the disregard for the height limits the community has worked so hard to keep. The influx of an additional 1,000 residents at that site will result in tremendous traffic in an already congested major intersection. The schools in the area already have a hard time supporting the number of students they currently have; additional students will only put more stress on the situation. The neighborhood simply does not have the resources to support that many new bodies in the community all at once. I hope you'll take the concerns of the residents and fight to reconsider the number of units proposed for this site and maintain the current height limits.

Thank you in advance for your time,

Victoria Ngo Border

From: Victoria Williams <venwf@san.rr.com>
Sent: Friday, October 19, 2018 3:13 PM
To: Cass, Marc
Subject: Mt Etna project

I am appalled by what I am learning about the Mt. Etna project. At first I thought WT*, next I went to 'what idiot thought this was a good idea' then I moved on to 'follow the money'. The project shows no concern to what it will do to the existing neighborhoods surrounding the site. And the types of people it will potentially place in the neighborhood is not in the best interest of the area. It's one thing to plan a 100 unit project for seniors, persons with disabilities veterans, at risk of being homeless, it's entirely another thing to push a project through that clearly violates existing planning laws, and would allow persons with serioujs mental illness to live a block from an elementary school. This project is clearly designed to make someone a lot of money, with no real concern to fixing any problem. I strongly oppose this project in its current stated configuration.

Victoria Williams
5022 Mt. Casas Dr.
San Diego CA 92117

From: Viv <vsimon6@gmail.com>
Sent: Friday, October 19, 2018 7:42 AM
To: Cass, Marc
Subject: Mt. Etna "project"

I am a widow who treasures the property values of my Clairemont home. I do not want any "project" as the proposed Mt Etna project.

Are you planning on calling it Cabrini Green West?

No! On screwing Mt. Etna neighborhood.

Vivian Simon

Sent from my iPhone

From: Viv <vsimon6@gmail.com>
Sent: Friday, October 19, 2018 8:06 AM
To: Cass, Marc
Subject: Mt Etna

Save money. If you have to gave low income housing, use existing structure. Keep the numbers low, the skyline low and the neighborhood impact low. We have about 50 chronic homeless In Mt. Etna, take care of them here. Build a small project in Linda Vista for their homeless, etc.

We do not want a 5 story project in Mt. Etna

Vivian Simon

Sent from my iPhone

From: Walter Faulkner <jwfaulkner@yahoo.com>
Sent: Thursday, October 18, 2018 3:33 PM
To: Cass, Marc
Subject: Mt. Etna proposed project

Mr. Cass:

We wish to add our voices to our Clairemont neighbors' voices stating our concerns over the proposed development at Mt. Etna and Genesee.

First, we feel that this project has been dumped on us by surprise and is being fast-tracked to ram it through because the County knows it will not be popular or approved by the community. The promise of transparency and community in put feels like a sham. This reeks of back room deals and under-handed politics.

Second, our community, and all of California, needs affordable housing and Mt. Etna could be a potential site for such. However, the number of units crammed onto this site, plus the lack of adequate parking spaces, is a recipe for neighbor disputes and potential gang and drug activity, reminiscent of New York projects. Think of lab experiments of rats in over-crowded conditions. The same results could apply here. If affordable housing could be built here without such high density and without violating the 30 foot limit, the project would probably receive community support.

Third, traffic in this area is already very heavy. This many additional vehicles, and without adequate parking, will further aggravate the situation.

These are a few of our concerns; we have more. This site is not appropriate for this proposed project. We do not want our community to become high density and heavily congested. We understand that all communities will need to do their share to help the housing shortage. We have shown our willingness to help by receiving the Mt. Alifan project. The County owns other sites. Perhaps the County should review its holdings and select a site more appropriate for this type of project or re-think this project and make it suitable for the location.

We would appreciate receiving your response just as an assurance that human eyes have read this.

Sincerely,
Walt and Jan Faulkner
jwfaulkner@yahoo.com

From: Wes Dittman <wdiego9@gmail.com>
Sent: Friday, October 19, 2018 4:49 PM
To: Cass, Marc
Subject: Mt Etna project

Mr Cass,
As a resident of the Mount Street neighborhood directly adjacent to the county Sheriff's Crime Lab property, I am vehemently opposed to proposed development of this property to a multi-story housing facility for hundreds of disadvantaged people. I believe the intersection of Balboa and Genesee is already at maximum capacity, and this proposed development does not even have direct access to these large streets. Instead, the access is to the neighborhood street of Mt Etna, which is only one issue.
City and county planners appear to only consider the interests of big money and developers, and neglect residents interests.
I'll keep this email brief to state my opposition, and that I will join the other opposed residents of my community, to fight this development. It will destroy the quality of life in this area.

Thank you
Wes Dittman
4502 Mt Gaywas Dr, San Diego, CA 92117

From: William <wtsueng@alumni.ucsd.edu>
Sent: Friday, October 19, 2018 12:55 PM
To: Cass, Marc
Subject: Regarding Mt Etna Site for Affordable and Extremely Low Income Housing Project

Greetings Mr. Cass,

I am writing to with regards to the Mt Etna Site for Affordable and Extremely Low Income Housing Project. I have strong reservations, and even objections, to the project in its current state. The final feasibility study did not appear to include a traffic study. As is, the level of service of Genesee Ave and Balboa have steadily worsened with time. A large dwelling complex will severely and negatively impact the surrounding area, especially because the current infrastructure is not being improved. A fine instance of this can easily be seen at Mira Mesa off of the I-15, where several large apartment complexes have been and are currently being created. With no change to Mira Mesa Blvd, the traffic is a nightmare.

I do not wish for the same thing to happen to Genesee Ave and Balboa.
Rezoning to allow this sort of development without consideration to transportation and parking will certainly do more harm than good.

Best regards,

-William Tsueng

Appendix B

Mount Etna Community Plan Amendment *(Residential and Commercial Elements only)*

ESA

COMMUNITY PLAN IMPLEMENTATION OVERLAY ZONE

The Community Plan Implementation Overlay Zone (CPIOZ) is applied within the boundaries of the Clairemont Community per Chapter 13, Article 2, Division 14 of the Municipal Code. The purpose of the overlay zone is to supplement the Municipal Code by providing development regulations that are tailored to the three community centers (Clairemont Town Square, Genesee Plaza-Balboa Mesa, and Clairemont Village). These supplemental development regulations are designed to address landscaping, architectural design and establishment of identifiable pedestrian and bicycle circulation elements to visually and functionally integrate the centers with their surrounding neighborhood and improve the pedestrian environment. CPIOZ is also applied to the multifamily areas along Clairemont Drive and Cowley Way between Dakota Drive and Iroquois Avenue to implement a contiguous parkway streetscape environment.

RESIDENTIAL

EXISTING CONDITIONS

Of the 6,755 acres that comprise Clairemont Mesa, 4,213 acres (or 62 percent) are used for housing (**Figure 4**). The demand for housing in the community is due to: its inner-city location; job resources at Kearny Mesa, Centre City, Mission Valley and University; and, the recreational facilities of Mission Bay, Old Town, Tecolote Canyon Natural Park and Marian Bear Memorial Park. Vacant residentially zoned land in Clairemont Mesa is scarce and is predominantly located in the canyons and hillside areas. Most of the housing stock is in good condition, but some single-family homes and duplexes that were built in the 1950s and 1960s need to be renovated. With the lack of significant undeveloped land in the community, changes in housing will undoubtedly occur by the replacement of existing housing with new housing, probably at higher densities and from revitalization.

In 1989, the City Council adopted a 30-foot height limit for almost all of Clairemont Mesa (**Figure 5**). The height limit is intended to maintain the low-scale character of development in the community and to preserve public views of Mission Bay and the Pacific Ocean from western Clairemont. This community-wide height limit replaced the West Clairemont Height Limitation Overlay Zone that applied only to a portion of the community. Residents in the community believe that the number of guest quarters and companion units that have been developed in single-family neighborhoods is changing the character of those neighborhoods. Residents also feel that the conditions of approval for some of those permits are not adhered to. In Clairemont Mesa, approximately eight companion units were constructed as of 1987 and approximately four guest quarters were constructed as of 1987. The City of San Diego requires conditional use

permits for these additions when the addition is to be used for guest quarters or companion units.*

Approximately 41 percent of the multifamily development in Clairemont Mesa is comprised of duplexes located along the Clairemont Mesa Boulevard corridor and Clairemont Drive (**Figure 4**). The duplexes are in scale with the surrounding single-family homes, however, residents in the community believe that the deterioration of these duplexes has affected housing values and the image of Clairemont Mesa.

The deficiency of off-street parking resulting in a lack of on-street parking and alleys congested with parked cars has also been a problem. The duplexes located east of Clairemont Drive between Clairemont Mesa Boulevard and Feather Avenue have been redeveloping and are subject to the Hillside Review Overlay Zone and Tecolote Canyon Rim Development Guidelines which will assure that new development will occur in a manner that protects the environmental resources and aesthetic qualities of the area.

In Clairemont Mesa, there are two mobile home parks, Coastal Trailer Villa and Morena Mobile Village, both with the Mobile Home Park Overlay Zone (**Figure 6**). The purpose of the overlay zone is to provide adequate sites for mobile homes consistent with the City's goal of accommodating alternative housing types. Both mobile home parks are located on Morena Boulevard (**Figure 6**) and are within walking distance to public transit, commercial services, Tecolote Park and Recreation Center and Mission Bay. Coastal Trailer Villa is over 30 years old with established long term residents. Most of the units in the park are older recreational trailers that would most likely not be acceptable in other mobile home parks. The park is in fair condition and would benefit from on-site landscaping improvements and recreational facilities.

The second mobile home park, Morena Mobile Village, is also over 30 years old and has a combination of recreational trailers and mobile homes. Over the years, the park has undergone refurbishment to improve the park's landscaping and appearance of the units. The park is in good condition and offers on-site recreational facilities.

In Clairemont Mesa, there is only one historic site, the Stough-Beckett cottage that is listed on the City of San Diego Historic Site Board Register. The cottage was constructed in 1888 and has been completely restored. The architectural style is "Eastlake," and is an example of a modest Victorian rural home. The cottage is located in the southern portion of Clairemont Mesa at 2203 Denver Street.

* Guest quarters are located on the same premises with the main dwelling unit for the use of a person employed on the premises, members of the family or a temporary guest. Companion units are self-contained dwelling units (including a kitchen which is permitted in addition to that of the main dwelling unit) and may be rented by a member of the family, a person over 60 years of age, or a handicapped person.

Figure 4 Existing Residential Development



Figure 5 Height Limitation Zones

No change

Figure 6 Location of Mobile Home Parks

No change

HOUSING TYPE, TENURE AND VALUE

According to 1980 census data, there were 30,121 housing units in Clairemont Mesa. This represents an 18 percent increase in the number of housing units for Clairemont Mesa since 1970. During the same ten-year period, the number of housing units in the City of San Diego increased by more than 29 percent (**Table 1**). Approximately 69 percent of the housing units in Clairemont Mesa are single-family and 31 percent are multifamily. Single-family units in 1985 had increased by three percent since 1970, totaling 21,817 units, while multifamily units had more than doubled during the same time period, totaling 9,652 units. Within the community, 63 percent of the housing units are owner-occupied, compared to 49 percent on a citywide basis. In 1986 the average sale price for a home in the north central portion of the City, according to the San Diego Board of Realtors, was $132,695. This figure is slightly lower than the citywide average sale price of $134,774 for the same period.

TABLE 1
CLAIREMONT MESA HOUSING UNITS 1950 – 1980

	1950	1960	1970	1980	1970-1980 % Change
Clairemont Mesa (CM)	1,133	18,111	25,589	30,121	18.4
City of San Diego	110,005	192,269	241,010	341,928	29.5
CM Housing Units as a Proportion of the City	1%	9.4%	10.2%	8.81%	

Existing land uses generally correspond to the existing zoning. **Table 2** and **Figure 7** provide a summary of existing residential land uses by zone for Clairemont Mesa.

TABLE 2
LAND USE IN RESIDENTIAL ZONES (in acres)

Residential Zones	Acres in Zone	Total Acres	Residential Single-family	Residential Multifamily	Commercial	Other	Vacant
R1-15000	1,143	94	94	0	0	927	122
R1-5000	4,452	3,684	3,684	0	3	568	197
R-3000	421	205	47	159	1	209	6
R-1500	46	45	*	45	0	0	1
R-1000	194	176	4	172	*	5	12
R-600	7	7	1	7	*	0	0
R-400	3	2	0	2	*	1	0
Total:	**6,266**	**4,213**	**3,830**	**385**	**4**	**1,710**	**338**

Note: "Other" category includes industrial, public and semipublic uses and the "Vacant" category includes resource-based parks.

- Less than one acre.

Numbers may not add up due to rounding.

Figure 7 Existing Residential Zoning



POPULATION CHARACTERISTICS AND INCOME

According to 1980 census data, the population of Clairemont Mesa was 77,547. Between 1970 and 1980, the community experienced a decline in population of approximately 6.2 percent. During this period, the City's total population grew approximately 25.7 percent (**Table 3**).

TABLE 3
CLAIREMONT MESA POPULATION 1950 – 1980

	1950	1960	1970	1980	1970-1980 % Change
Clairemont Mesa (CM)	3,372	62,137	82,634	77,547	- 6.2
City of San Diego	334,587	573,224	696,769	875,538	+ 25.7
CM as a Proportion of the City	1%	10.8%	11.9%	8.9%	

The community's decrease in population from 1970 to 1980 was due to a decline in the average family size, which decreased from 3.4 persons in 1970 to 2.7 persons in 1980. This compares to the citywide average of 2.8 persons in 1970 and 2.5 persons in 1980. During this period, there was a decline in the number of children from zero to 14 years of age and an increase in adults from 20 to 34 and 55 to 64 years of age. The average family size in Clairemont Mesa is projected to decrease from 2.7 persons in 1980 to 2.6 persons by 1990 and until the year 2000. This compares to the citywide average of 2.5 persons by 1990 and 2.4 persons by the year 2000. The community's median family income, according to the 1980 census data, was $22,918, which was higher than the citywide median income of $20,133.

VACANT RESIDENTIAL LAND

By 1988, Clairemont Mesa had approximately 358 acres of vacant residential land that are mostly located in the City's open space retention areas (**Figure 32**). Development has occurred in some of the privately owned canyons that were previously designated as open space in the 1970 community plan. These areas include: Alcott Estates, a 59-acre subdivision located north of Jutland Drive; Stonehaven, a 65.7-acre Planned Residential Development project located south of Jutland Drive; Canyon Haven, a 19.3-acre Planned Residential Development with six acres in an open space easement located at the southern portion of Stevenson Canyon; Mission Bay Valley Estates, a 7.9-acre subdivision with 5.4 acres in an open space easement located north of Clairemont Drive; and a 13-acre subdivision on Erie Street. Pressure for development in the privately owned canyon areas will continue because of the development amenities such as the canyon views and rural aesthetics in an urban environment. As development occurs, however, it must meet the underlying zone and City regulations.

PROJECTED GROWTH

In summary, Clairemont Mesa is an urbanized community and for the most part is built out. Future development of the vacant residential land and redevelopment opportunities could result in an addition of 1,100 dwelling units (not including mixed-use development), totaling 33,000 dwelling units or a three percent increase over the existing stock in the next 15 years.

OBJECTIVES FOR RESIDENTIAL DEVELOPMENT

1. Provide a diversity of housing options in selected locations of the community.
2. Preserve the mobile home parks on Morena Boulevard to continue providing alternative means of housing.
3. Provide development guidelines to help ensure that new development is compatible with the existing neighborhood and does not overburden community or neighborhood facilities.
4. Locate higher density housing near the commercial areas where there are adequate services.
5. Provide adequate off-street parking.

RECOMMENDATIONS FOR RESIDENTIAL DENSITIES

1. Protected Single-family Neighborhoods

   Areas recommended for residential density ranges of zero to ten dwelling units per net residential acre, shown on **Figure 8**, are characterized by traditional single-family development (e.g. detached housing units on individual lots). These areas are recommended to have single-family zoning (R1-40000, R1-15000 or R1-5000) and should be protected as single-family neighborhoods in the future. Therefore, requests for rezonings or other discretionary actions in these areas that could result in construction of any type of residential structures other than traditional single-family residential dwellings, with one dwelling unit per lot, should be denied.

2. Single-family Development

   Planned Infill Residential Development (PIRD) permits should be used to develop new units in existing neighborhoods with single-family zoning or a combination of single-family and multifamily zoning. The PIRD regulations control residential development in already developed areas by assuring its compatibility with existing surrounding development, in terms of site design, architecture and density.

3. Residential Density Identification

Residential development should occur at densities shown on **Table 4** and in **Figure 8**. The density ranges are based upon dwelling units per net residential area (du/nra).

4. Rezoning

a. The following areas should be rezoned from R-3000 to R1-5000 in order to maintain the low-density character of predominantly single-family neighborhoods: Pocahontas Avenue, north of Luna Avenue; Moraga Avenue, south of Idlewild Way; and, Onodaga Avenue between Clairemont Mesa Boulevard and Willamute Avenue (**Figure 38**).

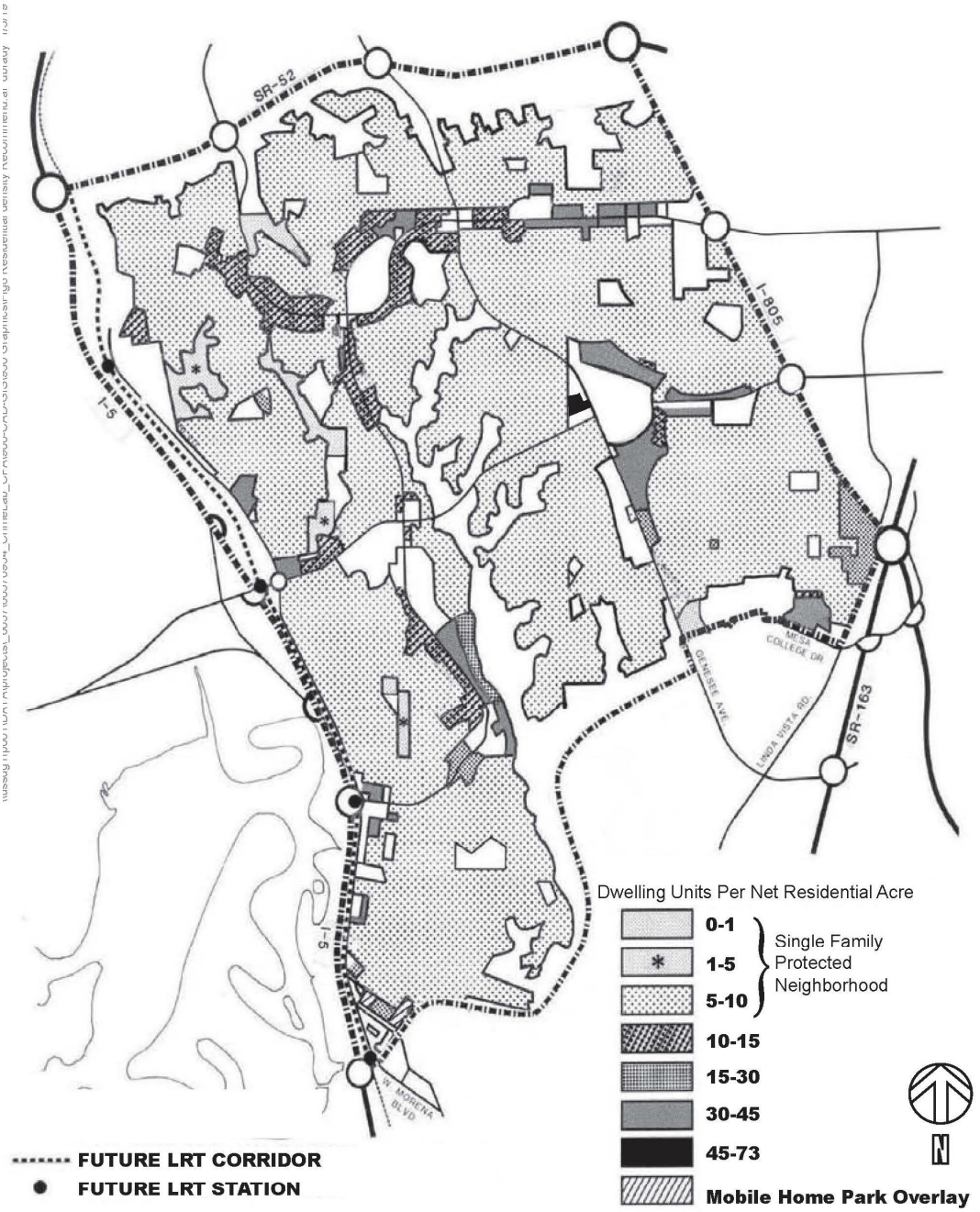
b. The duplexes on Clairemont Drive, between Balboa Avenue and Ute Drive should be rezoned from R-3000 to CO to be consistent with the surrounding commercial development (**Figure 38**). The site should redevelop with offices because the area is close to Balboa Avenue with good access from Clairemont Drive. On-street parking is available on Clairemont Drive and Modoc Drive.

c. The area located east of Cowley Way, south of Dakota Street and north of Iroquois Avenue should be rezoned from R-1000/HR to R-2000/HR (**Figure 38**). Future development at this density will be more compatible with the adjacent Tecolote Canyon Natural Park and single-family development to the north. This rezoning includes the approved residential development project, Villamar, which has developed under the R-2000 zone. The property is subject to the Hillside Review Overlay Zone and the Tecolote Canyon Rim Development Guidelines.

TABLE 4
RECOMMENDED RESIDENTIAL DENSITIES

Designation	Density Range (du/nra)*
Designated Open Space**	0 – 1
Very Low	1 – 5
Low	5 – 10
Low-Medium	10 – 15
Medium	15 – 30
Medium-High	30 – 45
High	45 – ~~55~~73

* dnu/nra= dwelling units per net residential acre
** See **Open Space and Environmental Resource Element**.



Residential Density Recommendations

Clairemont Mesa Community Plan
Draft Mt. Etna Community Plan Amendment

8
FIGURE

RECOMMENDATIONS FOR RESIDENTIAL DEVELOPMENT – CPIOZ B

The Community Plan Implementation Overlay Zone, Type B should apply to the area west of Cowley Way, south of Dakota Drive and north of Iroquois Avenue (**Figure 38**). The existing development, known as the Buena Vista Gardens, is currently developed with older multifamily housing at a density of less than that permitted by the underlying R-1000 Zone. Mature street trees in the public right-of-way and landscaping in the front yard setback create a parkway streetscape environment in this project. These significant site features could be lost from pressures to redevelop the site with the R-1000 Zone. In order to ensure the continuance of the streetscape environment along Clairemont Drive, Cowley Way and Dakota Drive, the following development features should be incorporated into the site design:

1. Maintain the 25-foot front yard setback and stagger buildings to create breaks between structures. This will help avoid the look of "row housing" along Cowley Way and Clairemont Drive.

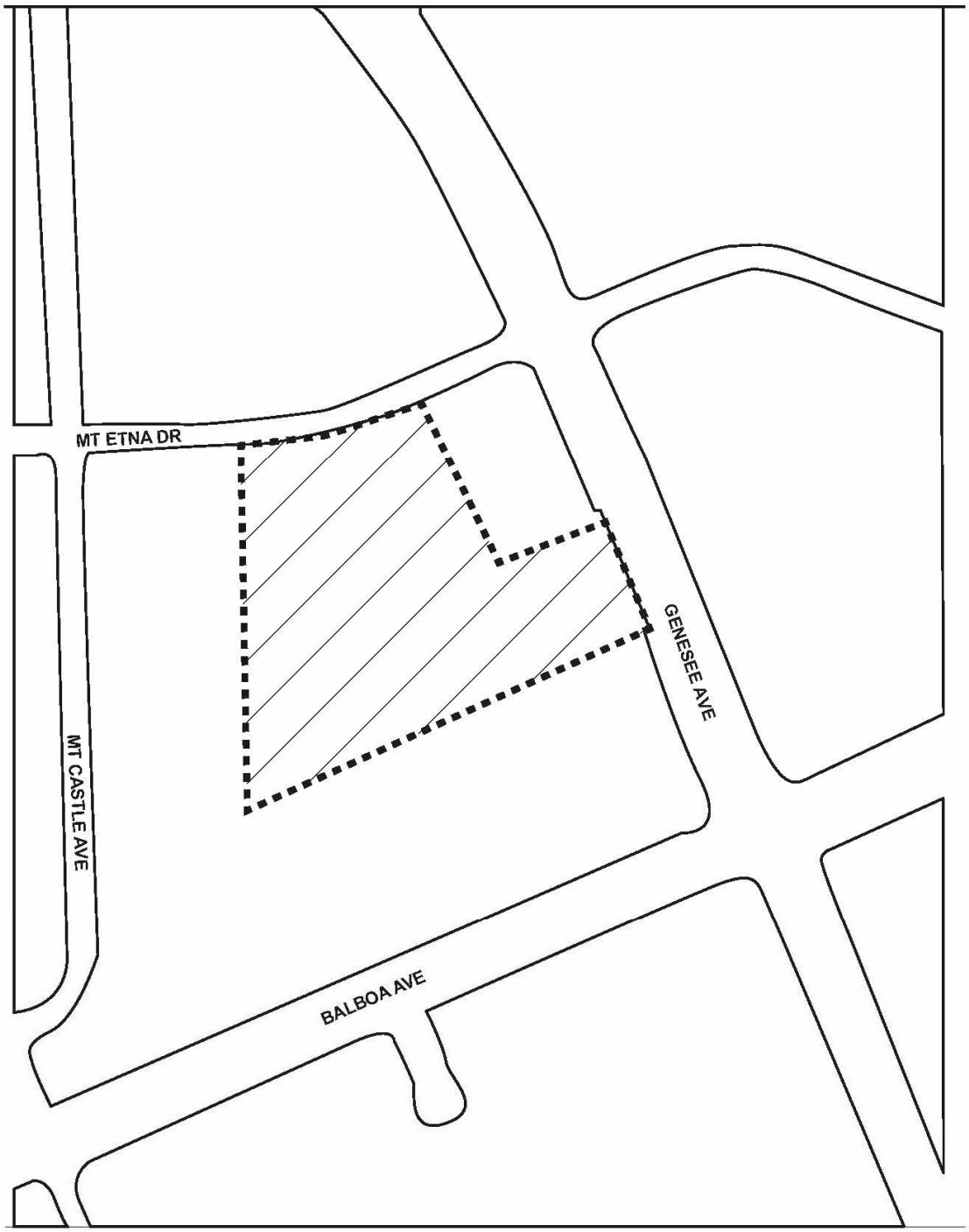
2. Provide a landscaped buffer with a 25-foot front yard setback along Dakota Drive to help create a transition area between the new multifamily development and the single- family residential neighborhood to the north.

3. Provide garages that are concealed from the public right-of-way.

MT. ETNA RESIDENTIAL DEVELOPMENT – CPIOZ A

CPIOZ, Type A sets the framework for infill development within the Mt Etna site shown on Figure 8A and provides supplemental development regulations to ensure a high-quality development that provides needed affordable housing opportunities near transit, shopping, and employment. The CPIOZ, Type A regulations are intended to result in development that is integrated within the Community Core, provides frontage elements that promote safe pedestrian activity, non-residential ground floor uses that support and enhance the public realm, supports multi-modal travel, strengthens community connectivity and identity, and promotes village-like development opportunities within the Community Core.

The proposed development shall comply with the following supplemental development regulations of the CPIOZ and be consistent with the general intent of the RM-3-9 zone as modified by these regulations and any incentives or waivers granted pursuant to Article 3: Supplemental Development Regulations, Division 7: Affordable Housing Regulations of the San Diego Municipal Code and any State allowed density bonus incentives. The proposed development will conform to the base density of the RM-3-9 zone and intends to qualify and obtain approval for density bonus at the time of project submittal to permit 404 dwelling units.



No Scale

Figure 8A
Mt. Etna CPIOZ Type A Boundary

Clairemont Mesa Community Plan

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SUPPLEMENTAL DEVELOPMENT REGULATIONS

SDR 1. Expected Development

The intent of the Mt. Etna CPIOZ, Type A regulations is to provide primarily for multi-family residential uses that complement the surrounding community core and existing single-family residential uses. Additional uses that activate the ground floor and provide community benefit for residents and the surrounding community are also desired. Permitted uses within CPIOZ, Type A area are as follows:

Multiple Dwelling Units

a. The multiple dwelling units may have on-site support services.

Non-Residential Ground Floor Area

a. A minimum of 1,500 square feet of non-residential ground floor area is required.
b. The minimum square footage cited above will be public spaces or uses allowed within the base zone.

SDR 2. Height

The maximum building height shall not exceed 70 feet including all affordable housing incentives.

SDR 3. Building Setbacks

The following building setbacks are intended to encourage pedestrian scale and compatibility with adjacent uses. Any minimum setback not included below would be consistent with the existing San Diego Municipal Code standard for the RM-3-9 zone.

a. The minimum building setback from Genesee Avenue is 0 feet from the property line.
b. The minimum building setback from the south property line is 10 feet (this does not apply to Genesee Avenue).
c. The minimum building setback from the westerly property line is 10 feet.

SDR 4. Landscaping and Streetscape Landscaping

Landscape Requirements

A minimum of 15 percent of the site must be landscaped. Any required landscaping, such as for required setbacks or parking lots, will count towards meeting the minimum amount of required landscaped area.

a. The minimum required landscaped area may be reduced to 10 percent of site area when the site includes an area with minimum dimensions of 15 feet by 15 feet planted with at

least one large-canopy tree. At least 50 percent of the ground area within this space must be planted with ground cover plants and the remainder may be hard-surfaced for use by pedestrians.

b. Landscaped areas raised above ground level may be used to meet the minimum landscaped area standard when soil depth is a minimum of 30 inches.
c. Up to 50 percent of the required landscaped area may be for pedestrian use, such as walkways and plazas, if the area is surfaced with pervious pavement approved by the City. If this provision is used, no impervious surfaces can be counted toward meeting the minimum landscaped area standard.

Street Trees

Street trees will be planted and maintained along public street frontages to provide a shaded pedestrian environment and give a pedestrian character to the street. As determined feasible and agreed upon by the City Engineer, the street trees shall conform to the following conditions:

a. Each street tree shall receive a minimum of 10 cubic feet of below surface volume.
b. Street trees in tree grates are allowed; however, if trees in tree grates are selected landscaped parkways must incorporate a permeable hardscape that allows water infiltration.

SDR 5. Ground Floor Design

At least 1,500 square feet of non-residential ground floor uses are required to facilitate multi-modal access and community connectivity.

a. All non-residential ground floor uses shall be oriented so that the primary pedestrian entrance(s) are from an abutting public street.

SDR 6. Building Articulation

The purpose and intent of these regulations is to diminish the overall visual mass of the building, create significant variations of the exterior façade, and enhance the view of the building by pedestrians and passersby.

a. Building facades shall be varied and articulated to provide visual interest. This can be accomplished by incorporating the following: changes in wall texture and color, changes in material and color, and special architectural elements such as: inset balconies, vertical fins, horizontal shading devices, roof overhangs, varied decorative railings and offsetting planes.
b. All building elevations fronting a public street or private street shall be composed of offsetting planes that provide relief in the building façade by insetting or projecting

surfaces (planes) of the building. The minimum horizontal separation between planes is based on the length of the new building façade as shown below:

	Length of Building Facade	**Offsetting Plane Requirements**
1	0-25 feet	Two planes with a minimum separation of 6 inches
2	More than 25 feet but less than or equal to 50 feet	Four planes: • Two with a minimum of 6 inches[1] • Two with a minimum of 1 foot
3	Each additional 50 feet of façade beyond the first 50 feet	Must incorporate the requirements of #2

[1] This requirement can be satisfied with the substitution of one of the following:

1. Nominal 2 inch recess around windows.
2. The use of two building materials.
3. Building color blocking using two colors.
4. Variation of balcony guardrail design.
5. Inclusion of a court.
6. Addition of bay windows.
7. Insert balconies.
8. Exterior shading devices such as overhangs, shadow boxes, and vertical fins.

c. Roof Designs:

i. Roof design shall include breaks or variations in the roof line.

ii. Any appurtenances or mechanical equipment on a flat roof shall be grouped and screened.

d. Pedestrian Entrances and Connections: The purpose and intent of these regulations is to provide a logical interconnected network for pedestrians to facilitate access to the premises and internal circulation within the premise.

i. Pedestrian Entrances: A minimum of one direct at-grade pedestrian entrance shall be required from the public right-of-way for every 300 feet of street frontage.

ii. Internal Pedestrian connections: A system of walkways shall connect all pedestrian entrances on the site and provide connections to other areas of the site used by building occupants and visitors, including parking areas, and any pedestrian amenities. Pedestrian connections to public sidewalks may be substituted for internal connections for main entrances that are within 10 feet of a public sidewalk.

SDR 7. Screening and Fencing

Screening and fencing shall be provided consistent with the following:

a. All storage areas shall be contained within an enclosed building area. Outdoor storage is prohibited unless completely screened from public view. Storage areas shall not be placed facing a public right-of-way.
b. Enclosures that surround the development are prohibited. Fencing can be used to delineate property boundaries, but shall not be used to create an enclave separate from the surrounding neighborhood.
c. Chain link fencing is prohibited.

SDR 8. Residential Open Space

A minimum amount of outdoor living area must be provided for residents as follows:

a. Private Exterior Open Space: Private open space shall be provided on a balcony, patio, or roof terrace for at least 50 percent of all residential units, with a minimum area of 40 square feet and a minimum dimension of 4 feet in any direction. Balconies should be proportionately distributed throughout the development in relationship to floor levels and sizes of units.
b. Common Space: Residential development must provide common space either indoor or outdoor at grade, podium level, or roof level. Common indoor or outdoor open space areas shall have a minimum dimension of 15 feet, or 25 feet when bordered by three building walls exceeding a height of 15 feet and may contain active and/or passive areas and a combination of hardscape and landscape features, but a minimum of 10 percent of the common outdoor open space area(s) must be planted. Common outdoor open space may be separate spaces designed for families and/or seniors and must be accessible to residents of the project.
c. Surfacing materials: Required outdoor areas shall be surfaced with lawn, pavers, decking, or sport court paving to allow the area to be used for active or passive recreational use.
d. Amenities, such as tables, benches, trees, shrubs, planter boxes, garden plots, pet areas, spas, fitness circuits, or pools, may be counted as common space. Common space may also be developed with amenities such as play areas, plazas, roof-top patios, picnic areas, and open recreational facilities.

SDR 9. Environmental Protection Standards

a. Any project proposed on-site is required to implement the feasible mitigation measures described in the Final Environmental Impact Report for the Mount Etna Community Plan Amendment and Rezone Project, SCH No. 201891016. Mitigation implementation and

timing is subject to the language in the final Mitigation Monitoring and Reporting Program (MMRP).

b. Any project proposed on-site must submit a complete project-level Climate Action Plan (CAP) Consistency Checklist and have the checklist approved by City staff prior to the issuance of a building permit.

c. Any project proposed on-site must prepare a project-specific waste management plan and have the plan approved by City staff prior to the issuance of a building permit.

RECOMMENDATIONS FOR HILLSIDE DEVELOPMENT

1. Preservation of Open Space

   Sites that should be designated as open space and rezoned to R1-40000/HR (one dwelling unit per 40,000 square feet and the Hillside Review Overlay Zone) in order to preserve existing canyon and natural open space systems (**Figure 32** and see **Open Space and Environmental Resources Element**) include:

   a. Approximately 39 privately owned acres comprising the northern two-thirds of Stevenson Canyon, located north of Ecochee Avenue and west of Clairemont Drive.

   b. A finger canyon of Tecolote Canyon, located south of Marlesta Drive and east of Genesee Avenue.

   c. A finger canyon of San Clemente Canyon, located south of San Clemente and east of Regents Road.

   d. Approximately five privately owned acres comprising the northern one-half of Padre Canyon, located west of Clairemont Drive and north of Erie Street.

2. Hillside Review Overlay Zone

   a. Residential development in the Hillside Review Overlay Zone must conform to the development design guidelines of that zone to assure that new development will occur in a manner that protects the environmental resources and aesthetic qualities of the area. Development should be clustered on the flatter portions of sites and grading should be minimal in order to preserve natural landforms and vegetation (**Figures 9** and **10**).

   b. The subdivision of single-family lots in the Hillside Review Overlay Zone should not result in a change in the neighborhood character by permitting the location of new houses behind and/or below existing houses rather than along the street, which is more characteristic of Clairemont Mesa.

Figure 9 Hillside Review Overlay Zone (HR)



Figure 10 Hillside Development

No change

c. New development along the rim of Tecolote Canyon, San Clemente Canyon and all designated open space areas must be in accordance with the Tecolote Canyon Rim Development Guidelines and Hillside Review Overlay Zone to protect the open space system.

RECOMMENDATIONS FOR COMPANION UNITS AND GUEST QUARTERS

1. Limits on Location

   a. The development of companion units and guest quarters should be permitted only in areas where such development will not adversely impact surrounding neighborhoods or the natural features of a site.

   b. Companion units and guest quarters should not be developed in the Hillside Review Overlay Zone, areas designated as open space or on lots smaller than 5,000 square feet.

2. Architecture/Design

   Companion units and guest quarters should be designed in a manner that is architecturally compatible with the main house and preserves the visual character of the single-family neighborhood from the street.

RECOMMENDATIONS FOR AFFORDABLE HOUSING

1. Range of Densities

   The range of housing densities recommended in this Plan (see **Figure 8**) should be maintained in order to provide a variety of housing types for both ownership and rental at varying costs.

2. Preservation and New Construction

   Low- and moderate-income housing should be provided by preserving existing housing in this category and by encouraging the construction of additional affordable units.

3. Assistance Programs

   City and other governmental programs should be utilized for the development of low- and moderate- income housing. The affordable Housing Density Bonus, Community Development Block Grant funds, Department of Housing and Urban Development programs are examples of existing affordable housing programs.

4. Compatibility

   Densities and housing types of proposed low- and moderate-income housing projects should be compatible with surrounding neighborhoods.

RECOMMENDATIONS FOR MOBILE HOME PARKS

1. Morena Mobile Village

   The mobile home park on Knoxville Street (**Figure 8**) should remain as such in order to provide a diversity of housing options for residents of all income levels.

   a. Single-family Housing

      The zoning on that portion of the site which is within the boundaries of the Mobile Home Park Overlay Zone (see **Figure 6**) should remain in the R1-5000 Zone and be designated as a protected single-family neighborhood. In this way, any alternative use of the residentially zoned portion of the site will be limited to single-family housing in a density range of five to ten dwelling units per acre.

   b. Alternative Use – Recreational Facility

      As an alternative to residential development, the site could be redeveloped with a recreational facility. This area has three recreational uses (Tecolote Canyon Natural Park, Tecolote Park and Recreation Center and private tennis courts) and an additional recreational facility would be compatible with these surrounding facilities. Landscaping improvements along the perimeter of the site adjacent to Tecolote Creek channel should be the same as the requirements stated above.

2. Coastal Trailer Villa

   The mobile home park on Morena Boulevard (**Figure 8**) should remain as such in order to provide a diversity of housing options for residents of all income levels.

   a. Single-family Housing

      The zoning on that portion of the site which is within the boundaries of the Mobile Home Park Overlay Zone (see **Figure 6**) should remain in the R1-5000 Zone and be designated as a protected single-family neighborhood. In this way, any alternative use of the residentially zoned portion of the site will be limited to single-family housing in a density range of five to ten dwelling units per acre.

RECOMMENDATIONS FOR HEIGHT AND SCALE

1. Harmony should be promoted in the visual relationships and transitions between new and older buildings. New buildings should be made sympathetic to the scale, form and texture of the surrounding neighborhood.

2. The height of new buildings should relate to the height of existing development. Tall buildings immediately adjacent to low buildings could create problems such as excessive shadows, undesirable wind tunnels, and lack of privacy.

3. Abrupt differences in scale between large commercial buildings and adjacent residential areas should be avoided. Gradual transitions in scale are preferred.

COMMERCIAL

EXISTING CONDITIONS

Clairemont Mesa contains several commercially zoned sites evenly distributed throughout the community (**Figures 11** and **12**). These sites comprise approximately 297 acres, of which 251 acres are developed with commercial uses, 23 acres are used for residential purposes, 19 acres contain other uses, and four acres are vacant (**Table 5**). Some of the commercial properties have been developed under the C Zone which has minimal development regulations, such as no off-street parking or setback requirements. In Clairemont Mesa, office and retail commercial consist of four community shopping centers, several neighborhood commercial centers, strip commercial development and visitor uses.

TABLE 5
LAND USE IN COMMERCIAL ZONES (in acres)

Commercial Zones	Acres in Zone	Residential			Commercial	Other	Vacant
		Total Acres	Single-family	Multifamily			
C	10	3	1	2	10	4	1
C-1	*	0	0	0	*	0	0
CA	191	2	*	2	191	7	0
CN	30	2	0	2	30	3	0
CO	17	13	0	13	17	5	3
CP	3	0	0	0	3	*	0
CR	0	3	3	0	0	0	0
Total:	**251**	**23**	**4**	**19**	**251**	**19**	**4**

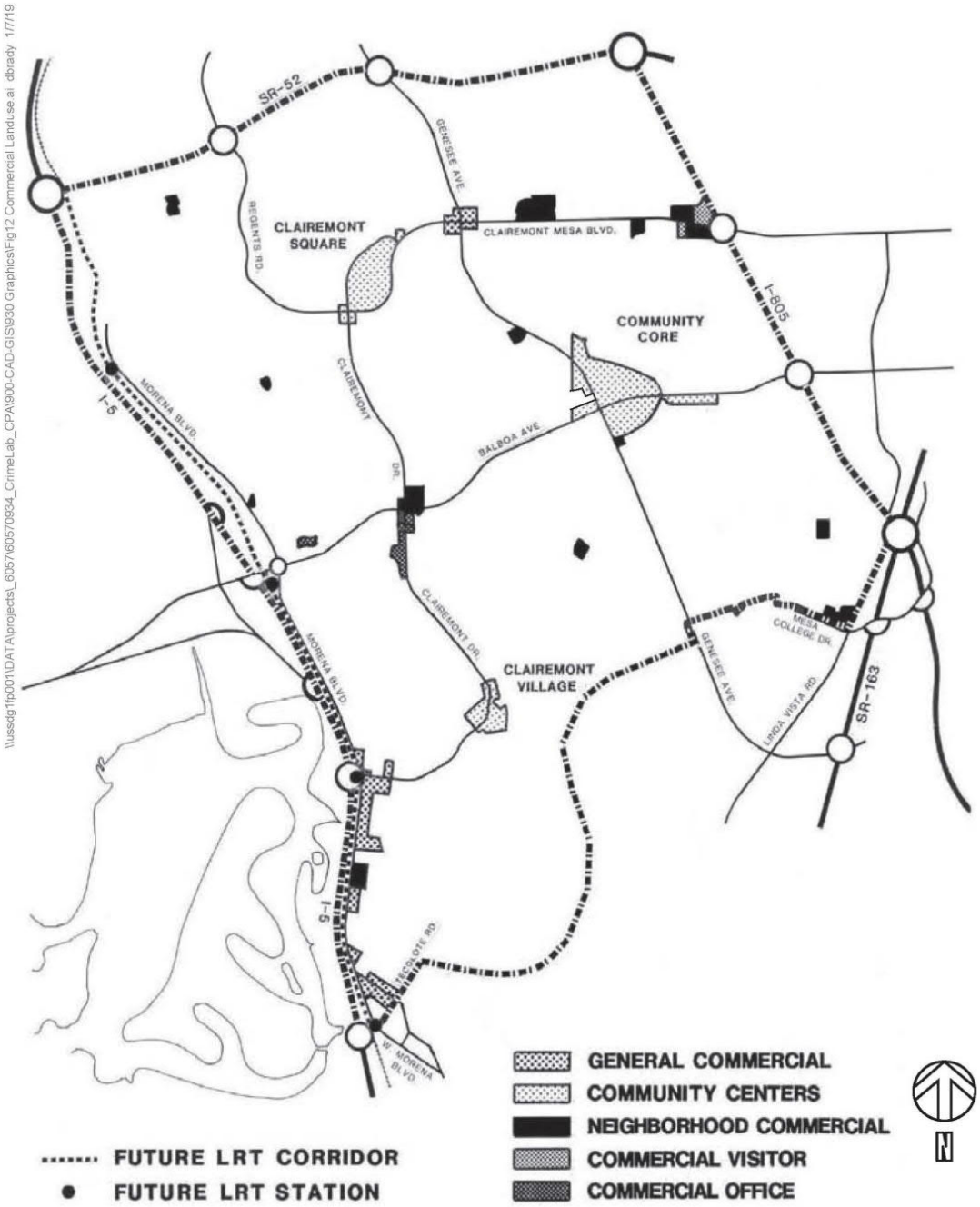
- Less than one acre.
  Numbers may not add up due to rounding

COMMUNITY CORE

The community core is located near the intersection of Genesee Avenue and Balboa Avenue (**Figures 11** and **12**). The core area encompasses approximately 105 acres, consisting of Genesee Plaza and Balboa Mesa shopping centers, Balboa Crest (a commercial strip center), and Balboa Towers (a medical office development). Traffic along Balboa Avenue and Genesee Avenue has increased creating some congestion during the early morning and late afternoon periods. In Clairemont Mesa, these two streets are well traveled because they serve as the primary east-west, north-south major thoroughfares other than the freeways which are located at the north, east and west boundaries of the community (see **Transportation Element**).

Figure 11 Existing Commercial Zoning





Commercial Land Use Recomentations

Clairemont Mesa Community Plan
Draft Mt. Etna Community Plan Amendment

12 FIGURE

Balboa Mesa and Genesee Plaza shopping centers consist of 85 acres with over 50 retail stores. These centers are in fair condition and are underutilized with one-story buildings surrounded and separated by excess parking and vacant land. Both centers would benefit from signs that are more compatible with the scale and height of buildings in the center. An improved internal automobile, bicycle and pedestrian circulation system is also needed, in addition to improving the landscaping along the sidewalks on Balboa Avenue.

The surrounding ~~commercial~~ development to the west of the Commercial Core consists of the Balboa Towers, the presently vacant ~~Clairemont Mesa Community Hospital~~Mt. Etna site, and four acres of vacant commercially zoned land on Genesee Avenue. Balboa Towers are two relatively new medical buildings that are seven and nine stories tall. A pleasant feature along Genesee Avenue in the core area is the landscaped median and street trees in the public right-of-way. Development to the east consists of a strip commercial area named Balboa Crest. The center is in fair condition and mostly low in scale except for a private school that is nine stories tall.

Community Shopping Centers

The remaining two community shopping centers, Clairemont Square and Clairemont Village, were built in the 1950s. Clairemont Square consists of 52 acres and is in good condition. The center is located adjacent to the intersection of Clairemont Drive and Clairemont Mesa Boulevard. Clairemont Village consists of 25.2 acres and is also in good condition. The center is located on Clairemont Drive between Iroquois Avenue and Burgener Boulevard.
The centers have undergone rehabilitation to modernize the sites, however, both shopping centers would benefit from improved signs and pedestrian access to the center from the surrounding development (**Figure 12**).

Neighborhood Commercial Centers

Clairemont Mesa had 13 neighborhood commercial centers. Two of these centers have been redeveloped with medium-density residential development. Both of these sites are located in single-family neighborhoods. Out of the remaining 11 neighborhood centers, one site, on the corner of Havasupai and Galatin Way, has a mixture of residential and commercial uses.

The 11 neighborhood centers are evenly distributed throughout the community (**Figure 12**) and range in size from 0.75 acres to ten acres. Some of the centers are older developments that need to be revitalized to enhance their appearance in the surrounding neighborhoods, while the centers on Moraga Avenue and Geddes Drive, Clairemont Mesa Boulevard and Diane Avenue, and Linda Vista Road and Mesa College Drive have redeveloped with commercial services.

Other Commercial Areas

The commercial strip development along the southern portion of Morena Boulevard between Clairemont Drive and Tecolote Road consists of 31 acres and has a mix of commercial zones (**Figure 12**). Examples of uses in this area include offices, mini-markets, restaurants, car sales and residential development. The area is in need of redevelopment because most of the commercial properties were developed under the C Zone which is an obsolete zone with minimal development requirements. The commercial strip would benefit from increased off- street parking and new landscaping which meets current standards, including landscaping in the public right-of-way. The area would also benefit from improved signage because there are many illegal signs still remaining.

There is one area in the community with a concentration of visitor-oriented commercial uses. The uses include two motels and a restaurant located on Clairemont Mesa Boulevard, west of Interstate 805 (I-805) (see **Figure 12**). This development is relatively new and visible from the freeway. In addition to the commercial development on Morena Boulevard and in the community core, Clairemont Mesa has commercial office development on Moraga Avenue, north of Balboa Avenue and on Clairemont Drive, south of Balboa Avenue (**Figure 12**). The office development is in good condition. The landscaping along Balboa Avenue from the office development on Moraga Avenue provides a scenic entryway into the community. A few of the properties on Clairemont Drive were residential duplexes that have been converted to medical offices, as permitted by the underlying CO Zone.

OBJECTIVES FOR COMMERCIAL DEVELOPMENT

1. Develop the community core as a town center with unique, architectural, sign and landscaping theme with pedestrian walkways and bikeways.

2. Ensure the availability of adequate commercial facilities within the community core to meet the needs of the existing and projected residential population of Clairemont Mesa.

3. Require commercial areas to incorporate landscaping which will help to integrate the commercial development into the surrounding neighborhood.

4. Design commercial areas to best utilize the existing transportation system and provide pedestrian linkages to and within commercial development as well as connections to adjacent uses.

5. Maintain commercial uses in neighborhood commercial centers.

6. Revitalize the commercial area along the southern portion of Morena Boulevard and improve both vehicular and pedestrian access along the Boulevard.

7. Design signs as an integral part of a development project which are informative, compatible with the scale of surrounding development and architecturally compatible with the project and surrounding area.

RECOMMENDATIONS FOR THE COMMUNITY CORE – CPIOZ

The Community Plan Implementation Overlay Zone (CPIOZ), Type B with a Planned Commercial Development permit should apply to the community core located on Balboa Avenue and Genesee Avenue (**Figure 38**). Development under the existing CA Zone lacks a pedestrian environment in the core area, including walkways that should provide direct access to adjacent residential neighborhoods. The development should be enhanced with landscaping in the public right-of-way, setbacks and parking lots. The internal automobile and bicycle circulation system and transit stops are also not well defined in the core area. As redevelopment occurs with CPIOZ, emphasis should be placed on creating a pleasant and convenient shopping environment for residents in Clairemont Mesa.

The community core has been defined based on existing land uses, the central location in the community, vacant and underutilized land which provides opportunity for additional growth and circulation. The core area should be the focal point of the community and continue providing commercial services for residents in Clairemont Mesa. The proposed growth of the community core would not encroach into single-family neighborhoods because of existing and well-established multifamily areas that serve as a buffer between the core and nearby single-family areas.

1. Use

   Commercial uses only should be permitted in the community core. Residential land uses should not be permitted in order to preserve the core as the commercial center of the community (**Figures 13** and **14**).

~~2. Hospital Use~~

~~Any expansion of or revision to the use of the existing Clairemont General Hospital will require an amendment to the existing Conditional Use Permit or an equivalent permit process. Any hospital facility developed in the community core, or any reuse of the existing hospital facility should be a community-serving facility.~~

~~3~~2. Architectural and Site Design

The Community Plan Implementation Overlay Zone (CPIOZ) Type B with a Planned Commercial Development permit should apply to the community core. This will help ensure that development will occur with a unifying architectural, sign and landscaping theme, pedestrian walkways and bikeways.

a. Development in the core should include plazas in a park-like setting. The plazas should be the focal point for the community core (**Figure 15**).

b. Outdoor restaurants should be located on the ground floor incorporating views and physical access into the plazas. Restaurants will be an important feature in establishing pedestrian activity in the core area.

c. Direct internal pedestrian, bicycle and automobile linkages to adjacent commercial areas should be incorporated in the site design in order to reduce traffic congestion and circulation conflicts on public streets.

d. New commercial development should be integrated into existing development to provide direct pedestrian access by linking the public right-of-way and the internal walkways of the core area.

e. Internal walkways should be a minimum of ten feet wide and connect to public sidewalks. The walkway should be landscaped with trees, shrubs and ground cover. A bicycle/pedestrian bridge should be constructed over Balboa Avenue to connect the two shopping areas in order to improve pedestrian circulation, reduce traffic congestion and provide a landmark feature for the core area (**Figure 15**). The recommended bridge should accommodate bicyclists, as well as pedestrians, and should be designed in such a manner as to separate the two functions to reduce potential conflicts, that is using both smooth and cobbled pavement surfaces to distinguish between bike and pedestrian ways. The construction of the bridge should be an integral part of the pedestrian, circulation and shopping environment.

f. Buildings in the core area should have a unified architectural theme and site design, pedestrian access, bicycle and automobile circulation, and public open spaces. Perspectives of the proposed project that show the relationship of the proposed project to adjacent development should be submitted as part of the permit application.

g. Mexican fan palm trees should be used as a theme street tree in the Community Core, interspersed with broad-headed flowering trees.

Figure 13 Existing Land Uses in the Community Core

No change

Figure 14 Community Core Recommendations

No change

Figure 15 Design Features in the Core Area

No change

~~4~~3. Parking Design

a. Parking in the community core should be underground, behind the building or within the building. If parking is located on the first and second levels of the building, automobiles should be screened from the public right-of-way with landscaping, and the facade of the parking structure should be sensitive to the pedestrian environment. The automobile or parking facilities should not be a dominant element of the community core.

b. Joint parking should be permitted to reduce space used for parking, provided that a parking study identifies what specific parking reductions are proposed, and how such reductions will not adversely affect required levels of available parking spaces. Examples of subjects to be analyzed in the parking study include: existing and proposed land uses; scheduling of business hours; secure bicycle storage facilities for both customer and employees, and, proximity to public transit.

c. Large surface parking areas should be broken up with landscaped islands and screened from the public right-of-way by landscaping. This can be accomplished through the use of trees, shrubs or mounding, where appropriate, to enhance the visual character of the core area. Large parking areas should also include colored concrete paving (instead of asphalt) as a means to visually enhance surface areas.

~~5~~4. Circulation

The estimated redevelopment potential of the community core is an additional 119,321 square feet of retail and 31,000 square feet of commercial. If new development exceeds the estimated redevelopment potential of the community core, a traffic study should be submitted in order to mitigate any potential traffic impacts to Balboa Avenue and Genesee Avenue.

RECOMMENDATIONS FOR CLAIREMONT SQUARE AND CLAIREMONT VILLAGE – CPIOZ

The Community Plan Implementation Overlay Zone, Type B with a Planned Commercial Development permit should apply to Clairemont Square and Clairemont Village in order to ensure that redevelopment will be compatible with the surrounding neighborhoods (**Figure 38**). Development under the existing CA Zone did not provide pedestrian walkways linking the centers to adjacent residential neighborhoods. The centers have many signs, and some of these signs are either too high or too large according to the citywide Sign Ordinance. The internal automobile and bicycle circulation system and transit stops are also not well defined in the centers. As redevelopment occurs with CPIOZ, emphasis should also be placed on creating a pleasant and convenient shopping environment for residents in Clairemont Mesa.

1. Use

   Clairemont Square and Clairemont Village should be retained as community commercial centers.

2. Site Design

   Any new retail development should be integrated with the existing center to ensure compatibility in height, architecture and site design, signs, landscaping and circulation. New development should be linked to the surrounding residential neighborhood by safe and effective pedestrian access through well-defined entryways.

   a. When adjacent to a residential area, the commercial development should be linked to the neighborhood with landscaping or architectural design so a transition is made.

   b. Commercial development should be connected to surrounding residential areas by pedestrian access between the public right-of-way and the internal pedestrian walkways of the center.

   c. Commercial development in the centers should participate in the landscaping improvements along Clairemont Mesa Boulevard and Clairemont Drive (see **Transportation Element**).

RECOMMENDATIONS FOR THE DIANE SHOPPING CENTER – CPIOZ

The Diane Shopping Center should be rezoned to CN with a Community Plan Implementation Overlay Zone, Type B. New development may occur only under a Planned Commercial Development permit in order to ensure that any commercial redevelopment in this center will be compatible with the surrounding neighborhoods (**Figure 38**). The CPIOZ will also ensure that this center will not be redeveloped with residential uses, thereby eliminating it as a commercial center. The CN Zone alone permits residential uses to occur on the site and does not require a discretionary permit, which gives the community and the city the opportunity to review the design of the center for neighborhood compatibility.

1. Restriction on Residential Uses

   The Diane Shopping Center should be preserved as a neighborhood shopping center. Therefore, no residential uses should be permitted to locate in the center.

2. Architectural and Site Design

   All new development should be integrated with the existing center in terms of height, architecture, signs, landscaping and circulation. New development should be linked to the

surrounding neighborhoods by safe and effective pedestrian access through well- defined entryways.

a. Any new development located adjacent to Conrad Avenue or Diane Avenue should provide entrances to establishments from those streets as well as from the shopping center.

b. Landscaping should be provided along Conrad Avenue and Diane Avenue as part of any redevelopment of the site.

c. All service and loading areas that are visible from the public right-of-way or from adjacent residences, should be screened by fencing, landscaping, or a combination of both.

RECOMMENDATIONS FOR THE WEST CLAIREMONT PLAZA– CPIOZ

The Community Plan Implementation Overlay Zone, Type B, should apply to the West Clairemont Plaza Shopping Center to ensure that redevelopment of the site is compatible with adjacent residential development, supports use of the Mid-Coast transit line, enhances the community image, and offers commercial services that are walkable to the surrounding community. The site should be developed with a first class retail and professional center. The existing center is characterized by older structures, underutilized parking areas, poor landscaping, and a lack of walkways to and from residential neighborhoods and throughout the site. Transit services are poorly integrated into the site.

1. Use

   Retail and commercial services should be encouraged on the site. Professional offices are also permitted. Residential uses may be permitted on the eastern and southern portions of the lot and above the ground floor throughout the site.

2. Architecture and Site Design

   Development should occur with a unifying architectural, signage and landscaping theme and comprehensive pedestrian and bicycle pathways.

   a. Development should capitalize on the site's topography. The rise in elevation should be used to provide below-grade parking, capture views, and reduce apparent building mass. Buildings should terrace down from the slope. Great sensitivity should be exercised to minimize view obstruction. Building height is limited to 30 feet.

   b. Pedestrian amenities such as landscaping and wide sidewalks (eight to ten feet wide) should be provided along the Clairemont Drive edge. This street segment should link the Clairemont Community to Mission Bay park through improved pedestrian access and a landscaping theme that visually relates to Mission Bay park.

c. Development along the Morena Boulevard frontage should be pedestrian-friendly, with building entrances and windows oriented to the street. A direct pedestrian connection should be made to the future trolley station. Landscaping should link the shopping center with the transit station.

d. The Ingulf Street side shall be developed with sensitivity to the residential areas to the south, minimizing noise impacts and street parking conflicts. Any vehicular entrance on this side should be located between Morena Boulevard and Chicago Street.

3. Transportation Improvements

a. Provide clear access points to the shopping center. The primary vehicular access should be from Clairemont Drive. Consolidate curb cuts.

b. Pedestrian pathways should occur throughout the site. The pathways should be landscaped and protected from vehicular interference.

RECOMMENDATIONS FOR NEIGHBORHOOD COMMERCIAL CENTERS

1. Rezone

Rezone the two centers on the corner of Clairemont Mesa Boulevard and Limerick Avenue and Clairemont Mesa Boulevard and Diane Avenue from CA to CN in order to assure the continuance of commercial services at the neighborhood level (**Figure 38**).

2. Use

Any proposed residential development in neighborhood commercial areas should occur under Planned Commercial Development Permit in order to ensure that commercial services will be provided at the neighborhood level.

a. Commercial development should be required on the ground floor with any residential uses on the second level of a mixed-use development.

b. Mixed-use developments should not exceed a density of 29 dwelling units per net residential acre.

3. Design

When adjacent to a residential area, the commercial development should be buffered by a non-transparent fence or wall with landscaping or architectural/site design so a transition is made.

4. Runoff

   Any development along a canyon rim should direct runoff away from the canyon. If runoff must be directed into the canyon, erosion and runoff control measures should be employed (see **Residential** and **Open Space Elements**).

RECOMMENDATIONS FOR OTHER COMMERCIAL AREAS

1. Rezone

   The area north of Savannah Street and west of Tecolote Road (referred to as the Tecolote Gateway area) should be rezoned from C, R-400 and M-1A to C-1 in order to be consistent with existing land uses and have improved parking and landscaping standards (**Figures 19** and **38**). The C-1 Zone permits a wide range of consumer goods and services and limited wholesaling and warehousing.

2. Rezone

   Rezone the two areas along Clairemont Mesa Boulevard from I-805 to Doliva Drive from CA and CR to CV or an equivalent zone (**Figure 38**). These areas provide existing commercial facilities such as motels, restaurants and other visitor uses, visible from I-805. New development should submit a Planned Commercial Development (PCD) permit in order to provide support uses such as restaurants and recreational facilities.

3. Rezone

   Rezone the duplexes on Clairemont Drive, south of Balboa Avenue from R-3000 to CO in order to be consistent with surrounding commercial development (**Figure 38**). The site should redevelop with offices, because the area is close to Balboa Avenue with good access from Clairemont Drive. On-street parking is available on Clairemont Drive and Modoc Avenue.

RECOMMENDATIONS FOR SERVICE STATIONS

1. Location

   Service stations should be permitted only in areas identified for commercial development (**Figure 38**). A Conditional Use Permit is required to develop or expand gasoline stations. The maximum number of service stations permitted at an intersection should be two, located on diagonal corners in order to provide maximum service to the community, minimize circulation conflicts and to provide diversity, interest and aesthetic entryways at major intersections in the community.

2. Access

   When a service station is located adjacent to a commercial center, direct access from that center to the gasoline station should be provided in order to minimize additional circulation conflicts on the street.

3. Landscaping

   a. Landscaped buffers should be provided along each street frontage adjacent to the public right-of-way. Landscaping should be consistent with citywide landscaping guidelines.

   b. Stations adjacent to residential development should provide a landscaped strip and a decorative wall adjacent to the residential development.

RECOMMENDATIONS FOR FAST FOOD RESTAURANTS

1. Location

   Fast food drive-in restaurants should be permitted only in retail areas where such restaurants are compatible with surrounding uses and will not impede circulation on public streets.

2. Access and Circulation

   a. Curb cuts should be minimized to eliminate interference with pedestrian movement and on-street parking.

   b. When fast food restaurants are adjacent to commercial centers, direct access from that center should be provided, in order to minimize circulation conflicts on the street.

RECOMMENDATIONS FOR SIGNS

1. Location

   a. Signs for various businesses in any shopping center should be clustered upon a directory sign near the main entryway(s) to the center.

   b. In shopping centers, those businesses that are located near the street and are visible from the public right-of-way should only be permitted wall signs.

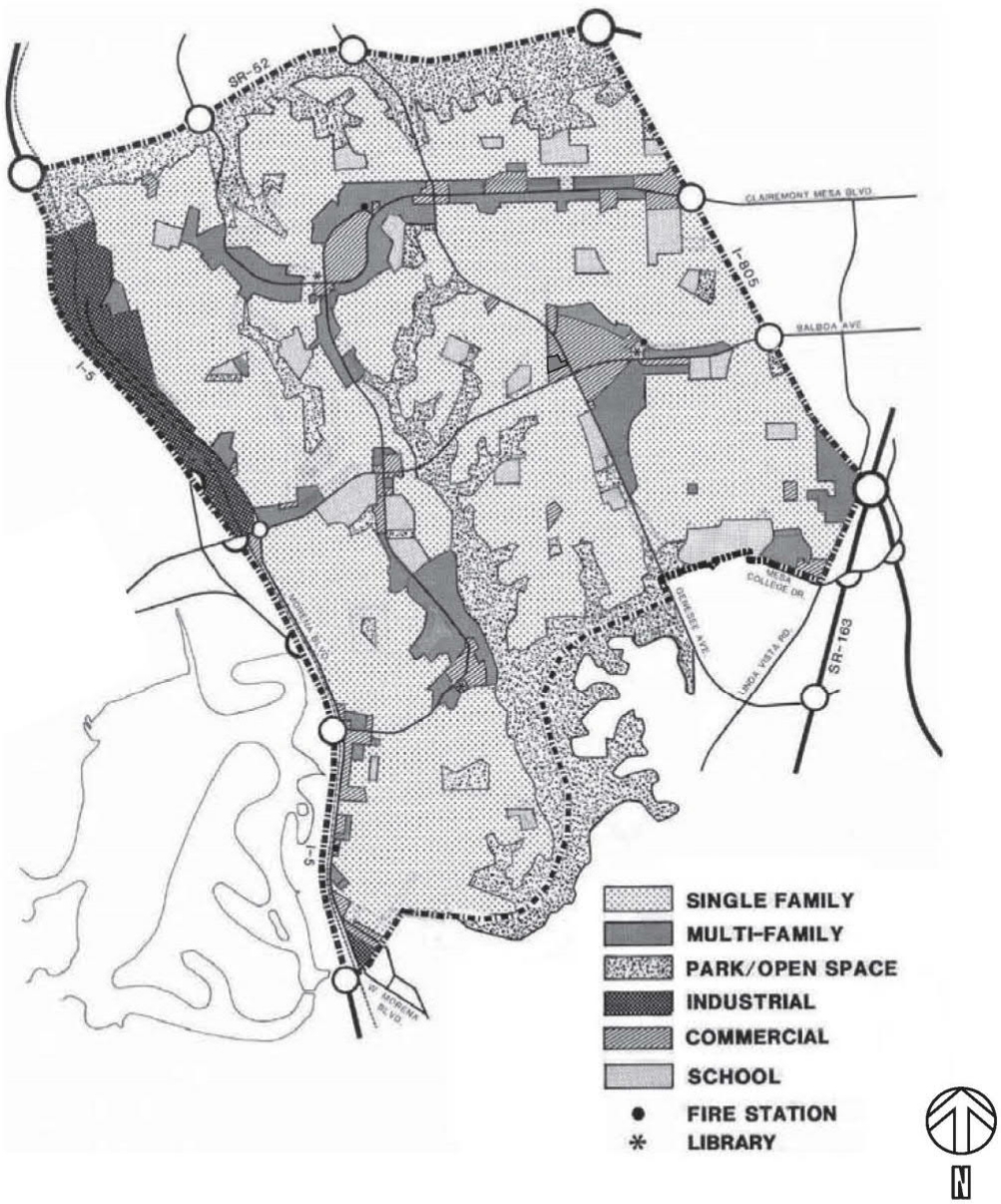
2. Discretionary Review

   A Comprehensive Sign Program (CSP) should be submitted as part of the development review process to integrate signs into the projects. A CSP will help to consolidate signs in commercial areas.

a. Signs should be well maintained and designed with respect for the scale and character of the street and surrounding development in order to enhance the overall quality of commercial areas. This can be accomplished with low-profile ground signs, wall signs and projecting signs that should be in scale with pedestrians.

b. Signs should be integrated into the design of the building and constructed of similar materials.

c. Lettering and color of signs should have uniformity throughout the project in order to reduce visual clutter.



Community Plan Map

Clairemont Mesa Community Plan
Draft Mt. Etna Community Plan Amendment

40
FIGURE

Appendix C

Planning Commission Resolution

ESA

PLANNING COMMISSION RESOLUTION NO. 4979-PC

INITIATING AN GENERAL/COMMUNITY PLAN AMENDMENT TO THE CLAIREMONT MESA COMMUNITY PLAN TO REDESIGNATE A 4.09-ACRE SITE LOCATED AT 5255 MOUNT ETNA DRIVE FROM COMMERCIAL-COMMUNITY CENTER TO RESIDENTIAL-HIGH 45 TO 73 DWELLING UNITS PER ACRE, AMEND THE COMMUNITY PLAN IMPLEMENTATION OVERLAY ZONE (CPIOZ) FROM CPIOZ TYPE B TO CPIOZ TYPE A TO ALLOW RESIDENTIAL USE ON SITE, AND PROVIDE SITE DESIGN STANDARDS FOR THE SITE, AND REZONE FROM CO-1-2 TO RM-3-9.

WHEREAS, on December 6, 2018, the Planning Commission of the City of San Diego held a public hearing to consider the initiation of a General/Community Plan Amendment to the Clairemont Mesa Community Plan; and

WHEREAS, the applicants requested a Community Plan in anticipation of future development that will allow additional affordable residential housing units on the subject property; and

WHEREAS, the Planning Commission of the City of San Diego considered all maps, exhibits, evidence and testimony; NOW THEREFORE;

BE IT RESOLVED, by the Planning Commission of the City of San Diego that it hereby initiates the requested community plan amendment; and

BE IT FURTHER RESOLVED that the Planning Commission directs staff to consider the following issues identified in Planning Report No. PC-18-066:

- Analysis of impact of potential residential development on public services and facilities
- Analysis of traffic impacts associated with increased density
- Analysis of bulk and scale simulations in relationship to the adjacent buildings surrounding the neighborhood
- Analysis of potential setbacks and stepbacks, shadow effects, and development of design guidelines
- Ability to incorporate commercial on site
- Incorporation of a robust public outreach process as part of the Community Plan Amendment process

BE IT FURTHER RESOLVED, that this initiation does not constitute an endorsement of a project proposal. This action will allow staff analysis to proceed.

Marlon I. Pangilinan
Senior Planner
Planning Department

Approved on December 6, 2019
Vote: 4-0-0
PTS No. 615352

cc: Legislative Recorder, Development Services Department

Appendix D
Air Quality

ESA

Mt. Etna Community Plan Amendment and Rezone Project
Maximum Daily Unmitigated Construction Emissions

CalEEMod	2016.3.2	Title:	Mt. Etna Community Plan Amendment and Rezone Project - Statewide, Winter	Date:	7/29/2019
			Mt. Etna Community Plan Amendment and Rezone Project - Statewide, Summer		7/29/2019
EMFAC	2017		Crime Lab - EMFAC2017 Emissions and CalEEMod Input	Date:	8/5/2019

Unmitigated - Construction

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
	Max Daily (lbs/day)					
Demolition	4	59	27	0	6	3
Site Preparation	3	31	21	0	2	1
Grading	2	22	15	0	1	1
Drainage/Utilities/Trenching	2	15	15	0	1	1
Foundations/ Concrete Pour	1	6	8	0	1	0
Building Construction	2	19	14	0	3	1
Architectural Coating	54	2	4	0	1	0
Paving	2	15	15	0	1	1
BC/AC/Paving	58	36	33	0	4	2
Max Daily	58	59	33	0	6	3
Threshold	75	250	550	520	100	55
Exceed Threshold?	No	No	No	No	No	No

Mt. Etna Community Plan Amendment and Rezone Project
Maximum Daily Unmitigated Construction Emissions

CalEEMod Outputs

Unmitigated - Construction

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
		(lbs/day)									
Demolition	Fugitive Dust					2.7726		2.7726	0.4199		0.4199
	Off-Road	3.1651	31.4407	21.565	0.0388		1.5513	1.5513		1.4411	1.4411
	Hauling	0.8097	27.764	5.5066	0.0838	1.9113	0.0898	2.0011	0.5239	0.0859	0.6099
	Vendor	0	0	0	0	0	0	0	0	0	0
	Worker	0.0626	0.0417	0.4249	1.20E-03	0.1314	9.30E-04	0.1324	0.0349	8.60E-04	0.0357
Site Preparation	Fugitive Dust					0.147	0	0.147	0.0161	0	0.0161
	Off-Road	2.6469	29.3731	20.4562	0.0435		1.2418	1.2418		1.1559	1.1559
	Hauling	0.0494	1.694	0.336	5.11E-03	0.1166	5.48E-03	0.1221	0.032	5.24E-03	0.0372
	Vendor	0	0	0	0	0	0	0	0	0	0
	Worker	0.0548	0.0365	0.3718	1.05E-03	0.115	8.20E-04	0.1158	0.0305	7.50E-04	0.0313
Grading	Fugitive Dust					0.147	0	0.147	0.0161	0	0.0161
	Off-Road	1.9632	20.0188	14.4628	0.0309		0.8516	0.8516		0.7906	0.7906
	Hauling	0.0494	1.694	0.336	5.11E-03	0.1166	5.48E-03	0.1221	0.032	5.24E-03	0.0372
	Vendor	0	0	0	0	0	0	0	0	0	0
	Worker	0.0548	0.0365	0.3718	1.05E-03	0.115	8.20E-04	0.1158	0.0305	7.50E-04	0.0313
Drainage/Utilities/ Trenching	Fugitive Dust							0			0
	Off-Road	1.5951	14.4556	13.9048	0.0256		0.7205	0.7205		0.6772	0.6772
	Hauling	0	0	0	0	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0	0	0	0	0
	Worker	0.0939	0.0625	0.6374	1.81E-03	0.1972	1.40E-03	0.1986	0.0523	1.29E-03	0.0536
Foundations/ Concrete Pour	Fugitive Dust							0			0
	Off-Road	0.6078	5.3571	6.2113	0.0102		0.2992	0.2992		0.2902	0.2902
	Hauling	0.0254	0.7206	0.1791	2.64E-03	0.0771	2.52E-03	0.0797	0.0222	2.41E-03	0.0246
	Vendor	0	0	0	0	0	0	0	0	0	0
	Worker	0.1643	0.1095	1.1154	3.16E-03	0.345	2.45E-03	0.3475	0.0915	2.25E-03	0.0938

		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
		(lbs/day)									
Building Construction	Fugitive Dust							0			0
	Off-Road	1.0627	10.1214	7.5251	0.0138		0.5573	0.5573		0.5228	0.5228
	Hauling	0	0	0	0	0	0	0	0	0	0
	Vendor	0.2557	8.0559	2.0282	0.0212	0.5351	0.0193	0.5544	0.154	0.0184	0.1725
	Worker	0.6649	0.443	4.5146	0.0128	1.3965	9.90E-03	1.4064	0.3704	9.12E-03	0.3795
Architectural Coating	Arch. Coating	53.5435					0	0		0	0
	Off-Road	0.2919	2.0358	2.4234	3.96E-03		0.1255	0.1255		0.1255	0.1255
	Hauling	0	0	0	0	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0	0	0	0	0
	Worker	0.1877	0.1251	1.2747	3.61E-03	0.3943	2.80E-03	0.3971	0.1046	2.58E-03	0.1072
Paving	Off-Road	1.5175	15.4241	14.5936	0.0268		0.7218	0.7218		0.6761	0.6761
	Paving	0.1378					0	0		0	0
	Hauling	0	0	0	0	0	0	0	0	0	0
	Vendor	0	0	0	0	0	0	0	0	0	0
	Worker	0.0732	0.0469	0.4867	1.45E-03	0.1643	1.13E-03	0.1654	0.0436	1.04E-03	0.0446

Mt. Etna Community Plan Amendment and Rezone Project

Total On-Road Emissions

Construction Phase	Daily One-Way Trips	Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Idling per Day (minutes)	Regional Emissions (pounds/day) ROG	NOX	CO	SO2	PM10 Dust	PM10 Exh	Total PM10	PM2.5 Dust	PM2.5 Exh	Total PM2.5
Demolition	2021														
Total Haul Trips	1639														
Hauling	110	15	8	20	15	0.75	20.72	4.48	0.07	1.92	0.31	2.23	0.53	0.20	0.73
Vendor	0	15	8	7.3	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	16	15	8	10.8	0	0.01	0.03	0.34	0.00	0.13	0.00	0.13	0.03	0.00	0.04
Site Preparation	2021														
Total Haul Trips	200														
Hauling	7	30	8	20	15	0.05	1.32	0.29	0.00	0.12	0.02	0.14	0.03	0.01	0.05
Vendor	0	30	8	7.3	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	14	30	8	10.8	0	0.01	0.02	0.29	0.00	0.11	0.00	0.12	0.03	0.00	0.03
Grading	2021														
Total Haul Trips	200														
Hauling	7	30	8	20	15	0.05	1.32	0.29	0.00	0.12	0.02	0.14	0.03	0.01	0.05
Vendor	0	30	8	7.3	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	14	30	8	10.8	0	0.01	0.02	0.29	0.00	0.11	0.00	0.12	0.03	0.00	0.03
Building Construction	2021														
Total Haul Trips	0														
Hauling	0	257	8	20	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	79	257	8	7.3	15	0.24	4.71	1.33	0.02	0.53	0.09	0.62	0.15	0.07	0.22
Worker	170	257	8	10.8	0	0.07	0.30	3.57	0.01	1.39	0.01	1.40	0.37	0.01	0.38
Paving	2021														
Total Haul Trips	0														
Hauling	0	23	8	20	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	23	8	7.3	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	20	23	8	10.8	0	0.01	0.04	0.42	0.00	0.16	0.00	0.16	0.04	0.00	0.04
Architectural Coating	2021														
Total Haul Trips	0														
Hauling	0	240	8	20	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	240	8	7.3	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	48	240	8	10.8	0	0.02	0.09	1.01	0.00	0.39	0.00	0.40	0.10	0.00	0.11
Drainage/Utilities/Trench	2021														
Total Haul Trips	0														
Hauling	0	29	8	20	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	29	8	7.3	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	24	29	8	10.8	0	0.01	0.04	0.50	0.00	0.20	0.00	0.20	0.05	0.00	0.05
Foundations/Concrete	2021														
Total Haul Trips	200														
Hauling	5	48	8	20	15	0.03	0.94	0.20	0.00	0.09	0.01	0.10	0.02	0.01	0.03
Vendor	0	48	8	7.3	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	42	48	8	10.8	0	0.02	0.07	0.88	0.00	0.34	0.00	0.35	0.09	0.00	0.09

Mt. Etna Community Plan Amendment and Rezone Project
Running Emissions

		Running Emissions Factor (grams/mile)					
		ROG	NOX	CO	SO2	PM10	PM2.5
2021Hauling	Hauling	0.1411634	4.084471031	0.7454088	0.0140884	0.0640322	0.0407165
2021Vendor	Vendor	0.1652143	3.416108421	0.7844517	0.0126815	0.068081	0.0548592
2021Worker	Worker	0.0180496	0.07473613	0.8821951	0.0030099	0.0018495	0.0017034

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Regional Emissions (pounds/day) ROG	NOX	CO	SO2	PM10	PM2.5
Demolition	2021									
Total Haul Trips	1639									
Hauling	110	15	8	20	0.68	19.81	3.62	0.07	0.31	0.20
Vendor	0	15	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	16	15	8	10.8	0.01	0.03	0.34	0.00	0.00	0.00
Site Preparation	2021									
Total Haul Trips	200									
Hauling	7	30	8	20	0.04	1.26	0.23	0.00	0.02	0.01
Vendor	0	30	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	14	30	8	10.8	0.01	0.02	0.29	0.00	0.00	0.00
Grading	2021									
Total Haul Trips	200									
Hauling	7	30	8	20	0.04	1.26	0.23	0.00	0.02	0.01
Vendor	0	30	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	14	30	8	10.8	0.01	0.02	0.29	0.00	0.00	0.00
Building Construction	2021									
Total Haul Trips	0									
Hauling	0	257	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	79	257	8	7.3	0.21	4.34	1.00	0.02	0.09	0.07
Worker	170	257	8	10.8	0.07	0.30	3.57	0.01	0.01	0.01
Paving	2021									
Total Haul Trips	0									
Hauling	0	23	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	23	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	20	23	8	10.8	0.01	0.04	0.42	0.00	0.00	0.00
Architectural Coating	2021									
Total Haul Trips	0									
Hauling	0	240	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	240	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	48	240	8	10.8	0.02	0.09	1.01	0.00	0.00	0.00
Drainage/Utilities/Trench	2021									
Total Haul Trips	0									
Hauling	0	29	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	29	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	24	29	8	10.8	0.01	0.04	0.50	0.00	0.00	0.00
Foundations/Concrete	2021									
Total Haul Trips	200									
Hauling	5	48	8	20	0.03	0.90	0.16	0.00	0.01	0.01
Vendor	0	48	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	42	48	8	10.8	0.02	0.07	0.88	0.00	0.00	0.00

Mt. Etna Community Plan Amendment and Rezone Project
Idling Emissions

	Idling Emissions Factor (grams/minute)					
	ROG	NOX	CO	SO2	PM10	PM2.5
2021Hauling Hauling	0.0182962	0.249054753	0.2389	0.0004223	0.0003915	0.0003746
2021Vendor Vendor	0.0096241	0.139414096	0.1275978	0.0002273	0.0002385	0.0002282
2021Worker Worker	0	0	0	0	0	0

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	Idling minutes per Day (miles)	Regional Emissions (pounds/day) ROG	NOX	CO	SO2	PM10	PM2.5
Demolition	2021									
Total Haul Trips	1639									
Hauling	110	15	8	15	0.07	0.91	0.87	0.00	0.00	0.00
Vendor	0	15	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Worker	16	15	8	0	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	2021									
Total Haul Trips	200									
Hauling	7	30	8	15	0.00	0.06	0.06	0.00	0.00	0.00
Vendor	0	30	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Worker	14	30	8	0	0.00	0.00	0.00	0.00	0.00	0.00
Grading	2021									
Total Haul Trips	200									
Hauling	7	30	8	15	0.00	0.06	0.06	0.00	0.00	0.00
Vendor	0	30	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Worker	14	30	8	0	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	2021									
Total Haul Trips	0									
Hauling	0	257	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	79	257	8	15	0.03	0.36	0.33	0.00	0.00	0.00
Worker	170	257	8	0	0.00	0.00	0.00	0.00	0.00	0.00
Paving	2021									
Total Haul Trips	0									
Hauling	0	23	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	23	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Worker	20	23	8	0	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	2021									
Total Haul Trips	0									
Hauling	0	240	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	240	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Worker	48	240	8	0	0.00	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Trench	2021									
Total Haul Trips	0									
Hauling	0	29	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	29	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Worker	24	29	8	0	0.00	0.00	0.00	0.00	0.00	0.00
Foundations/Concrete	2021									
Total Haul Trips	200									
Hauling	5	48	8	15	0.00	0.04	0.04	0.00	0.00	0.00
Vendor	0	48	8	15	0.00	0.00	0.00	0.00	0.00	0.00
Worker	42	48	8	0	0.00	0.00	0.00	0.00	0.00	0.00

Mt. Etna Community Plan Amendment and Rezone Project
Road Dust, Break Wear, and Tire wear Emissions

		Emission Factors (grams/mile)					
		PM10			PM2.5		
		RD	BW	TW	RD	BW	TW
2021Hauling	Hauling	3.00E-01	0.06085398	0.0354662	7.36E-02	0.0260803	0.0088665
2021Vendor	Vendor	3.00E-01	0.095597009	0.0237331	7.36E-02	0.0409701	0.0059333
2021Worker	Worker	3.00E-01	0.036750011	0.008	7.36E-02	0.01575	0.002

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Regional Emissions (pounds/day) PM10 RD	PM10 BW	PM10 TW	PM2.5 RD	PM2.5 BW	PM2.5 TW
Demolition	2021									
Total Haul Trips	1639									
Hauling	110	15	8	20	1.45	0.30	0.17	0.36	0.13	0.04
Vendor	0	15	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	16	15	8	10.8	0.11	0.01	0.00	0.03	0.01	0.00
Site Preparation	2021									
Total Haul Trips	200									
Hauling	7	30	8	20	0.09	0.02	0.01	0.02	0.01	0.00
Vendor	0	30	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	14	30	8	10.8	0.10	0.01	0.00	0.02	0.01	0.00
Grading	2021									
Total Haul Trips	200									
Hauling	7	30	8	20	0.09	0.02	0.01	0.02	0.01	0.00
Vendor	0	30	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	14	30	8	10.8	0.10	0.01	0.00	0.02	0.01	0.00
Building Construction	2021									
Total Haul Trips	0									
Hauling	0	257	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	79	257	8	7.3	0.38	0.12	0.03	0.09	0.05	0.01
Worker	170	257	8	10.8	1.21	0.15	0.03	0.30	0.06	0.01
Paving	2021									
Total Haul Trips	0									
Hauling	0	23	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	23	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	20	23	8	10.8	0.14	0.02	0.00	0.04	0.01	0.00
Architectural Coating	2021									
Total Haul Trips	0									
Hauling	0	240	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	240	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	48	240	8	10.8	0.34	0.04	0.01	0.08	0.02	0.00
Drainage/Utilities/Trench	2021									
Total Haul Trips	0									
Hauling	0	29	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	29	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	24	29	8	10.8	0.17	0.02	0.00	0.04	0.01	0.00
Foundations/Concrete	2021									
Total Haul Trips	200									
Hauling	5	48	8	20	0.07	0.01	0.01	0.02	0.01	0.00
Vendor	0	48	8	7.3	0.00	0.00	0.00	0.00	0.00	0.00
Worker	42	48	8	10.8	0.30	0.04	0.01	0.07	0.02	0.00

Mt. Etna Community Plan Amendment and Rezone Project

Statewide , Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.00	Space	0.00	0.00	0
Parking Lot	404.00	Space	1.21	161,600.00	0
Apartments Mid Rise	404.00	Dwelling Unit	2.88	404,000.00	1281

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	7			**Operational Year**	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted windspeed andprecipation for SD APCD

Land Use - Acreage adjusted for site area

Construction Phase - Based on client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Trips and VMT - Based on truck size of 12 CY provided by client

Demolition -

Grading - Client given inputs

Architectural Coating - See construction assumptions

Energy Use -

Construction Off-road Equipment Mitigation - Tier 4 Final Mitigation

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	240.00
tblConstructionPhase	NumDays	230.00	48.00
tblConstructionPhase	NumDays	230.00	257.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	10.00	30.00
tblGrading	AcresOfGrading	15.00	4.00
tblGrading	AcresOfGrading	45.00	4.00
tblGrading	MaterialExported	0.00	1,200.00
tblGrading	MaterialExported	0.00	1,200.00

tblLandUse	LotAcreage	3.64	1.21
tblLandUse	LotAcreage	10.63	2.88
tblLandUse	Population	1,155.00	1,281.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	PrecipitationFrequency	54	40
tblProjectCharacteristics	WindSpeed	2.2	2.6
tblTripsAndVMT	HaulingTripNumber	487.00	1,639.00
tblTripsAndVMT	HaulingTripNumber	150.00	200.00
tblTripsAndVMT	HaulingTripNumber	150.00	200.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	HaulingVehicleClass	HHDT	HDT_Mix
tblTripsAndVMT	VendorTripNumber	93.00	0.00

tblTripsAndVMT	VendorTripNumber	93.00	79.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	18.00	14.00
tblTripsAndVMT	WorkerTripNumber	30.00	14.00
tblTripsAndVMT	WorkerTripNumber	25.00	24.00
tblTripsAndVMT	WorkerTripNumber	418.00	42.00
tblTripsAndVMT	WorkerTripNumber	418.00	170.00
tblTripsAndVMT	WorkerTripNumber	84.00	48.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	55.9533	58.7478	27.0463	0.1257	9.1521	1.6403	10.7923	1.6354	1.5261	3.1616	0.0000	12,988.0020	12,988.0020	1.5195	0.0000	13,025.9897
2022	55.7535	18.8506	18.8413	0.0566	2.3259	0.8346	2.9362	0.6291	0.7886	1.2086	0.0000	5,705.8380	5,705.8380	0.7148	0.0000	5,718.8658
Maximum	**55.9533**	**58.7478**	**27.0463**	**0.1257**	**9.1521**	**1.6403**	**10.7923**	**1.6354**	**1.5261**	**3.1616**	**0.0000**	**12,988.0020**	**12,988.0020**	**1.5195**	**0.0000**	**13,025.9897**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	54.8300	29.3103	28.7611	0.1257	4.8154	0.1506	4.9659	0.9787	0.1467	1.1254	0.0000	12,988.0020	12,988.0020	1.5195	0.0000	13,025.9897
2022	54.7594	10.2075	21.6753	0.0566	2.3259	0.0550	2.3809	0.6291	0.0533	0.6824	0.0000	5,705.8380	5,705.8380	0.7148	0.0000	5,718.8658
Maximum	**54.8300**	**29.3103**	**28.7611**	**0.1257**	**4.8154**	**0.1506**	**4.9659**	**0.9787**	**0.1467**	**1.1254**	**0.0000**	**12,988.0020**	**12,988.0020**	**1.5195**	**0.0000**	**13,025.9897**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.90**	**49.07**	**-9.91**	**0.00**	**37.78**	**91.69**	**46.49**	**29.00**	**91.36**	**58.63**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/21/2021	5	15	
2	Site Preparation	Site Preparation	3/22/2021	4/30/2021	5	30	
3	Grading	Grading	5/1/2021	6/11/2021	5	30	
4	Drainage/Utilities/Trenching	Trenching	6/12/2021	7/22/2021	5	29	
5	Foundations/Concrete Pour	Building Construction	7/23/2021	9/28/2021	5	48	
6	Building Construction	Building Construction	9/29/2021	9/22/2022	5	257	
7	Architectural Coating	Architectural Coating	11/24/2021	10/25/2022	5	240	
8	Paving	Paving	9/23/2022	10/25/2022	5	23	

Acres of Grading (Site Preparation Phase): 4

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.21

Residential Indoor: 818,100; Residential Outdoor: 272,700; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rollers	1	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	2	8.00	8	0.43
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Drainage/Utilities/Trenching	Air Compressors	1	8.00	78	0.48
Drainage/Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Drainage/Utilities/Trenching	Excavators	1	8.00	158	0.38
Drainage/Utilities/Trenching	Forklifts	1	8.00	89	0.20
Drainage/Utilities/Trenching	Plate Compactors	2	8.00	8	0.43
Drainage/Utilities/Trenching	Rubber Tired Loaders	1	8.00	203	0.36
Drainage/Utilities/Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Foundations/Concrete Pour	Cranes	0	7.00	231	0.29
Foundations/Concrete Pour	Forklifts	0	8.00	89	0.20
Foundations/Concrete Pour	Generator Sets	0	8.00	84	0.74
Foundations/Concrete Pour	Plate Compactors	1	8.00	8	0.43
Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Foundations/Concrete Pour	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Foundations/Concrete Pour	Welders	0	8.00	46	0.45
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Sweepers/Scrubbers	1	8.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	1,639.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	14.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	14.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Trenching	10	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundations/Concrete Pour	3	42.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HDT_Mix
Building Construction	4	170.00	79.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1093	0.0000	7.1093	1.0766	0.0000	1.0766			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**7.1093**	**1.5513**	**8.6607**	**1.0766**	**1.4411**	**2.5177**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7834	27.2709	5.0132	0.0855	1.9113	0.0880	1.9993	0.5239	0.0842	0.6081		9,109.8301	9,109.8301	0.4609		9,121.3535
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0597	0.0362	0.4681	1.3100e-003	0.1314	9.3000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.2270	130.2270	3.6800e-003		130.3189
Total	**0.8431**	**27.3071**	**5.4813**	**0.0868**	**2.0427**	**0.0889**	**2.1317**	**0.5588**	**0.0851**	**0.6439**		**9,240.0570**	**9,240.0570**	**0.4646**		**9,251.6724**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7726	0.0000	2.7726	0.4199	0.0000	0.4199			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**	**2.7726**	**0.0616**	**2.8343**	**0.4199**	**0.0616**	**0.4815**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7834	27.2709	5.0132	0.0855	1.9113	0.0880	1.9993	0.5239	0.0842	0.6081		9,109.8301	9,109.8301	0.4609		9,121.3535
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0597	0.0362	0.4681	1.3100e-003	0.1314	9.3000e-004	0.1324	0.0349	8.6000e-004	0.0357		130.2270	130.2270	3.6800e-003		130.3189
Total	**0.8431**	**27.3071**	**5.4813**	**0.0868**	**2.0427**	**0.0889**	**2.1317**	**0.5588**	**0.0851**	**0.6439**		**9,240.0570**	**9,240.0570**	**0.4646**		**9,251.6724**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1470	0.0000	0.1470	0.0161	0.0000	0.0161			0.0000			0.0000
Off-Road	2.6469	29.3731	20.4562	0.0435		1.2418	1.2418		1.1559	1.1559		4,193.7455	4,193.7455	1.1866		4,223.4113
Total	**2.6469**	**29.3731**	**20.4562**	**0.0435**	**0.1470**	**1.2418**	**1.3889**	**0.0161**	**1.1559**	**1.1720**		**4,193.7455**	**4,193.7455**	**1.1866**		**4,223.4113**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0478	1.6639	0.3059	5.2200e-003	0.1166	5.3700e-003	0.1220	0.0320	5.1400e-003	0.0371		555.8164	555.8164	0.0281		556.5194
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0523	0.0317	0.4096	1.1400e-003	0.1150	8.2000e-004	0.1158	0.0305	7.5000e-004	0.0313		113.9486	113.9486	3.2200e-003		114.0290
Total	**0.1001**	**1.6956**	**0.7155**	**6.3600e-003**	**0.2316**	**6.1900e-003**	**0.2378**	**0.0625**	**5.8900e-003**	**0.0684**		**669.7650**	**669.7650**	**0.0313**		**670.5485**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0573	0.0000	0.0573	6.2900e-003	0.0000	6.2900e-003			0.0000			0.0000
Off-Road	0.5188	2.2481	23.3701	0.0435		0.0692	0.0692		0.0692	0.0692	0.0000	4,193.7455	4,193.7455	1.1866		4,223.4113
Total	**0.5188**	**2.2481**	**23.3701**	**0.0435**	**0.0573**	**0.0692**	**0.1265**	**6.2900e-003**	**0.0692**	**0.0755**	**0.0000**	**4,193.7455**	**4,193.7455**	**1.1866**		**4,223.4113**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0478	1.6639	0.3059	5.2200e-003	0.1166	5.3700e-003	0.1220	0.0320	5.1400e-003	0.0371		555.8164	555.8164	0.0281		556.5194
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0523	0.0317	0.4096	1.1400e-003	0.1150	8.2000e-004	0.1158	0.0305	7.5000e-004	0.0313		113.9486	113.9486	3.2200e-003		114.0290
Total	**0.1001**	**1.6956**	**0.7155**	**6.3600e-003**	**0.2316**	**6.1900e-003**	**0.2378**	**0.0625**	**5.8900e-003**	**0.0684**		**669.7650**	**669.7650**	**0.0313**		**670.5485**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1470	0.0000	0.1470	0.0161	0.0000	0.0161			0.0000			0.0000
Off-Road	1.9632	20.0188	14.4628	0.0309		0.8516	0.8516		0.7906	0.7906		2,915.7114	2,915.7114	0.8752		2,937.5910
Total	**1.9632**	**20.0188**	**14.4628**	**0.0309**	**0.1470**	**0.8516**	**0.9986**	**0.0161**	**0.7906**	**0.8068**		**2,915.7114**	**2,915.7114**	**0.8752**		**2,937.5910**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0478	1.6639	0.3059	5.2200e-003	0.1166	5.3700e-003	0.1220	0.0320	5.1400e-003	0.0371		555.8164	555.8164	0.0281		556.5194
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0523	0.0317	0.4096	1.1400e-003	0.1150	8.2000e-004	0.1158	0.0305	7.5000e-004	0.0313		113.9486	113.9486	3.2200e-003		114.0290
Total	**0.1001**	**1.6956**	**0.7155**	**6.3600e-003**	**0.2316**	**6.1900e-003**	**0.2378**	**0.0625**	**5.8900e-003**	**0.0684**		**669.7650**	**669.7650**	**0.0313**		**670.5485**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0573	0.0000	0.0573	6.2900e-003	0.0000	6.2900e-003			0.0000			0.0000
Off-Road	0.3301	1.4306	16.3965	0.0309		0.0440	0.0440		0.0440	0.0440	0.0000	2,915.7114	2,915.7114	0.8752		2,937.5910
Total	**0.3301**	**1.4306**	**16.3965**	**0.0309**	**0.0573**	**0.0440**	**0.1014**	**6.2900e-003**	**0.0440**	**0.0503**	**0.0000**	**2,915.7114**	**2,915.7114**	**0.8752**		**2,937.5910**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0478	1.6639	0.3059	5.2200e-003	0.1166	5.3700e-003	0.1220	0.0320	5.1400e-003	0.0371		555.8164	555.8164	0.0281		556.5194
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0523	0.0317	0.4096	1.1400e-003	0.1150	8.2000e-004	0.1158	0.0305	7.5000e-004	0.0313		113.9486	113.9486	3.2200e-003		114.0290
Total	**0.1001**	**1.6956**	**0.7155**	**6.3600e-003**	**0.2316**	**6.1900e-003**	**0.2378**	**0.0625**	**5.8900e-003**	**0.0684**		**669.7650**	**669.7650**	**0.0313**		**670.5485**

3.5 Drainage/Utilities/Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5951	14.4556	13.9048	0.0256		0.7205	0.7205		0.6772	0.6772		2,421.3527	2,421.3527	0.6460		2,437.5032
Total	**1.5951**	**14.4556**	**13.9048**	**0.0256**		**0.7205**	**0.7205**		**0.6772**	**0.6772**		**2,421.3527**	**2,421.3527**	**0.6460**		**2,437.5032**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0543	0.7022	1.9600e-003	0.1972	1.4000e-003	0.1986	0.0523	1.2900e-003	0.0536		195.3405	195.3405	5.5100e-003		195.4783
Total	**0.0896**	**0.0543**	**0.7022**	**1.9600e-003**	**0.1972**	**1.4000e-003**	**0.1986**	**0.0523**	**1.2900e-003**	**0.0536**		**195.3405**	**195.3405**	**5.5100e-003**		**195.4783**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2753	1.1929	15.0426	0.0256		0.0367	0.0367		0.0367	0.0367	0.0000	2,421.3527	2,421.3527	0.6460		2,437.5031
Total	**0.2753**	**1.1929**	**15.0426**	**0.0256**		**0.0367**	**0.0367**		**0.0367**	**0.0367**	**0.0000**	**2,421.3527**	**2,421.3527**	**0.6460**		**2,437.5031**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0543	0.7022	1.9600e-003	0.1972	1.4000e-003	0.1986	0.0523	1.2900e-003	0.0536		195.3405	195.3405	5.5100e-003		195.4783
Total	**0.0896**	**0.0543**	**0.7022**	**1.9600e-003**	**0.1972**	**1.4000e-003**	**0.1986**	**0.0523**	**1.2900e-003**	**0.0536**		**195.3405**	**195.3405**	**5.5100e-003**		**195.4783**

3.6 Foundations/Concrete Pour - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6078	5.3571	6.2113	0.0102		0.2992	0.2992		0.2902	0.2902		958.4151	958.4151	0.1349		961.7872
Total	**0.6078**	**5.3571**	**6.2113**	**0.0102**		**0.2992**	**0.2992**		**0.2902**	**0.2902**		**958.4151**	**958.4151**	**0.1349**		**961.7872**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	0.7036	0.1662	2.6800e-003	0.0771	2.4800e-003	0.0796	0.0222	2.3700e-003	0.0246		282.8512	282.8512	9.6900e-003		283.0935
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1568	0.0951	1.2288	3.4300e-003	0.3450	2.4500e-003	0.3475	0.0915	2.2500e-003	0.0938		341.8458	341.8458	9.6500e-003		342.0871
Total	**0.1813**	**0.7987**	**1.3950**	**6.1100e-003**	**0.4222**	**4.9300e-003**	**0.4271**	**0.1137**	**4.6200e-003**	**0.1183**		**624.6970**	**624.6970**	**0.0193**		**625.1805**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1038	0.4496	6.3984	0.0102		0.0138	0.0138		0.0138	0.0138	0.0000	958.4151	958.4151	0.1349		961.7872
Total	**0.1038**	**0.4496**	**6.3984**	**0.0102**		**0.0138**	**0.0138**		**0.0138**	**0.0138**	**0.0000**	**958.4151**	**958.4151**	**0.1349**		**961.7872**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	0.7036	0.1662	2.6800e-003	0.0771	2.4800e-003	0.0796	0.0222	2.3700e-003	0.0246		282.8512	282.8512	9.6900e-003		283.0935
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1568	0.0951	1.2288	3.4300e-003	0.3450	2.4500e-003	0.3475	0.0915	2.2500e-003	0.0938		341.8458	341.8458	9.6500e-003		342.0871
Total	**0.1813**	**0.7987**	**1.3950**	**6.1100e-003**	**0.4222**	**4.9300e-003**	**0.4271**	**0.1137**	**4.6200e-003**	**0.1183**		**624.6970**	**624.6970**	**0.0193**		**625.1805**

3.7 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0627	10.1214	7.5251	0.0138		0.5573	0.5573		0.5228	0.5228		1,328.2101	1,328.2101	0.3340		1,336.5589
Total	**1.0627**	**10.1214**	**7.5251**	**0.0138**		**0.5573**	**0.5573**		**0.5228**	**0.5228**		**1,328.2101**	**1,328.2101**	**0.3340**		**1,336.5589**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2416	8.0350	1.7622	0.0219	0.5351	0.0186	0.5536	0.1540	0.0178	0.1718		2,312.2437	2,312.2437	0.1245		2,315.3549
Worker	0.6345	0.3849	4.9736	0.0139	1.3965	9.9000e-003	1.4064	0.3704	9.1200e-003	0.3795		1,383.6616	1,383.6616	0.0391		1,384.6381
Total	**0.8761**	**8.4198**	**6.7358**	**0.0358**	**1.9316**	**0.0285**	**1.9600**	**0.5245**	**0.0269**	**0.5513**		**3,695.9053**	**3,695.9053**	**0.1635**		**3,699.9931**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1917	1.9832	8.1253	0.0138		0.0214	0.0214		0.0214	0.0214	0.0000	1,328.2101	1,328.2101	0.3340		1,336.5589
Total	**0.1917**	**1.9832**	**8.1253**	**0.0138**		**0.0214**	**0.0214**		**0.0214**	**0.0214**	**0.0000**	**1,328.2101**	**1,328.2101**	**0.3340**		**1,336.5589**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2416	8.0350	1.7622	0.0219	0.5351	0.0186	0.5536	0.1540	0.0178	0.1718		2,312.2437	2,312.2437	0.1245		2,315.3549
Worker	0.6345	0.3849	4.9736	0.0139	1.3965	9.9000e-003	1.4064	0.3704	9.1200e-003	0.3795		1,383.6616	1,383.6616	0.0391		1,384.6381
Total	**0.8761**	**8.4198**	**6.7358**	**0.0358**	**1.9316**	**0.0285**	**1.9600**	**0.5245**	**0.0269**	**0.5513**		**3,695.9053**	**3,695.9053**	**0.1635**		**3,699.9931**

3.7 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	0.9527	8.9200	7.3812	0.0138		0.4731	0.4731		0.4439	0.4439		1,328.3017	1,328.3017	0.3327		1,336.6183
Total	**0.9527**	**8.9200**	**7.3812**	**0.0138**		**0.4731**	**0.4731**		**0.4439**	**0.4439**		**1,328.3017**	**1,328.3017**	**0.3327**		**1,336.6183**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2250	7.6085	1.6415	0.0217	0.5351	0.0160	0.5511	0.1540	0.0153	0.1693		2,291.6524	2,291.6524	0.1190		2,294.6260
Worker	0.5923	0.3463	4.5739	0.0134	1.3965	9.6200e-003	1.4061	0.3704	8.8600e-003	0.3793		1,333.9697	1,333.9697	0.0352		1,334.8483
Total	**0.8173**	**7.9548**	**6.2154**	**0.0351**	**1.9316**	**0.0256**	**1.9572**	**0.5245**	**0.0242**	**0.5486**		**3,625.6220**	**3,625.6220**	**0.1541**		**3,629.4743**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1917	1.9832	8.1253	0.0138		0.0214	0.0214		0.0214	0.0214	0.0000	1,328.3017	1,328.3017	0.3327		1,336.6182
Total	**0.1917**	**1.9832**	**8.1253**	**0.0138**		**0.0214**	**0.0214**		**0.0214**	**0.0214**	**0.0000**	**1,328.3017**	**1,328.3017**	**0.3327**		**1,336.6182**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2250	7.6085	1.6415	0.0217	0.5351	0.0160	0.5511	0.1540	0.0153	0.1693		2,291.6524	2,291.6524	0.1190		2,294.6260
Worker	0.5923	0.3463	4.5739	0.0134	1.3965	9.6200e-003	1.4061	0.3704	8.8600e-003	0.3793		1,333.9697	1,333.9697	0.0352		1,334.8483
Total	**0.8173**	**7.9548**	**6.2154**	**0.0351**	**1.9316**	**0.0256**	**1.9572**	**0.5245**	**0.0242**	**0.5486**		**3,625.6220**	**3,625.6220**	**0.1541**		**3,629.4743**

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	53.5435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**53.8354**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1792	0.1087	1.4043	3.9200e-003	0.3943	2.8000e-003	0.3971	0.1046	2.5800e-003	0.1072		390.6809	390.6809	0.0110		390.9567
Total	**0.1792**	**0.1087**	**1.4043**	**3.9200e-003**	**0.3943**	**2.8000e-003**	**0.3971**	**0.1046**	**2.5800e-003**	**0.1072**		**390.6809**	**390.6809**	**0.0110**		**390.9567**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	53.5435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**53.5831**	**0.1717**	**2.4432**	**3.9600e-003**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1792	0.1087	1.4043	3.9200e-003	0.3943	2.8000e-003	0.3971	0.1046	2.5800e-003	0.1072		390.6809	390.6809	0.0110		390.9567
Total	**0.1792**	**0.1087**	**1.4043**	**3.9200e-003**	**0.3943**	**2.8000e-003**	**0.3971**	**0.1046**	**2.5800e-003**	**0.1072**		**390.6809**	**390.6809**	**0.0110**		**390.9567**

3.8 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	53.5435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**53.8162**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1673	0.0978	1.2915	3.7800e-003	0.3943	2.7200e-003	0.3970	0.1046	2.5000e-003	0.1071		376.6503	376.6503	9.9200e-003		376.8983
Total	**0.1673**	**0.0978**	**1.2915**	**3.7800e-003**	**0.3943**	**2.7200e-003**	**0.3970**	**0.1046**	**2.5000e-003**	**0.1071**		**376.6503**	**376.6503**	**9.9200e-003**		**376.8983**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	53.5435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**53.5831**	**0.1717**	**2.4432**	**3.9600e-003**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1673	0.0978	1.2915	3.7800e-003	0.3943	2.7200e-003	0.3970	0.1046	2.5000e-003	0.1071		376.6503	376.6503	9.9200e-003		376.8983
Total	**0.1673**	**0.0978**	**1.2915**	**3.7800e-003**	**0.3943**	**2.7200e-003**	**0.3970**	**0.1046**	**2.5000e-003**	**0.1071**		**376.6503**	**376.6503**	**9.9200e-003**		**376.8983**

3.9 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5175	15.4241	14.5936	0.0268		0.7218	0.7218		0.6761	0.6761		2,583.9501	2,583.9501	0.6764		2,600.8589
Paving	0.1378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6553**	**15.4241**	**14.5936**	**0.0268**		**0.7218**	**0.7218**		**0.6761**	**0.6761**		**2,583.9501**	**2,583.9501**	**0.6764**		**2,600.8589**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0697	0.0407	0.5381	1.5800e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0400e-003	0.0446		156.9376	156.9376	4.1300e-003		157.0410
Total	**0.0697**	**0.0407**	**0.5381**	**1.5800e-003**	**0.1643**	**1.1300e-003**	**0.1654**	**0.0436**	**1.0400e-003**	**0.0446**		**156.9376**	**156.9376**	**4.1300e-003**		**157.0410**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3463	2.6531	17.4025	0.0268		0.0420	0.0420		0.0420	0.0420	0.0000	2,583.9501	2,583.9501	0.6764		2,600.8589
Paving	0.1378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4841**	**2.6531**	**17.4025**	**0.0268**		**0.0420**	**0.0420**		**0.0420**	**0.0420**	**0.0000**	**2,583.9501**	**2,583.9501**	**0.6764**		**2,600.8589**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0697	0.0407	0.5381	1.5800e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0400e-003	0.0446		156.9376	156.9376	4.1300e-003		157.0410
Total	**0.0697**	**0.0407**	**0.5381**	**1.5800e-003**	**0.1643**	**1.1300e-003**	**0.1654**	**0.0436**	**1.0400e-003**	**0.0446**		**156.9376**	**156.9376**	**4.1300e-003**		**157.0410**

Mt. Etna Community Plan Amendment and Rezone Project - Statewide , Winter

Mt. Etna Community Plan Amendment and Rezone Project

Statewide , Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.00	Space	0.00	0.00	0
Parking Lot	404.00	Space	1.21	161,600.00	0
Apartments Mid Rise	404.00	Dwelling Unit	2.88	404,000.00	1281

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	7			**Operational Year**	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted windspeed andprecipation for SD APCD

Land Use - Acreage adjusted for site area

Construction Phase - Based on client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Trips and VMT - Based on truck size of 12 CY provided by client

Demolition -

Grading - Client given inputs

Architectural Coating - See construction assumptions

Energy Use -

Construction Off-road Equipment Mitigation - Tier 4 Final Mitigation

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	240.00
tblConstructionPhase	NumDays	230.00	48.00
tblConstructionPhase	NumDays	230.00	257.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	10.00	30.00
tblGrading	AcresOfGrading	15.00	4.00
tblGrading	AcresOfGrading	45.00	4.00
tblGrading	MaterialExported	0.00	1,200.00
tblGrading	MaterialExported	0.00	1,200.00
tblLandUse	LotAcreage	3.64	1.21
tblLandUse	LotAcreage	10.63	2.88
tblLandUse	Population	1,155.00	1,281.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	PrecipitationFrequency	54	40
tblProjectCharacteristics	WindSpeed	2.2	2.6
tblTripsAndVMT	HaulingTripNumber	487.00	1,639.00
tblTripsAndVMT	HaulingTripNumber	150.00	200.00
tblTripsAndVMT	HaulingTripNumber	150.00	200.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	HaulingVehicleClass	HHDT	HDT_Mix
tblTripsAndVMT	VendorTripNumber	93.00	0.00
tblTripsAndVMT	VendorTripNumber	93.00	79.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	18.00	14.00
tblTripsAndVMT	WorkerTripNumber	30.00	14.00
tblTripsAndVMT	WorkerTripNumber	25.00	24.00
tblTripsAndVMT	WorkerTripNumber	418.00	42.00
tblTripsAndVMT	WorkerTripNumber	418.00	170.00
tblTripsAndVMT	WorkerTripNumber	84.00	48.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	56.0064	59.2464	27.4965	0.1238	9.1521	1.6421	10.7941	1.6354	1.5279	3.1633	0.0000	12,788.8182	12,788.8182	1.5510	0.0000	12,827.5932
2022	55.8051	18.9275	18.6666	0.0546	2.3259	0.8346	2.9369	0.6291	0.7886	1.2092	0.0000	5,501.7316	5,501.7316	0.7138	0.0000	5,514.9624
Maximum	**56.0064**	**59.2464**	**27.4965**	**0.1238**	**9.1521**	**1.6421**	**10.7941**	**1.6354**	**1.5279**	**3.1633**	**0.0000**	**12,788.8182**	**12,788.8182**	**1.5510**	**0.0000**	**12,827.5932**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	54.8831	29.8089	29.2113	0.1238	4.8154	0.1524	4.9677	0.9787	0.1484	1.1271	0.0000	12,788.8182	12,788.8182	1.5510	0.0000	12,827.5932
2022	54.8110	10.2844	21.5006	0.0546	2.3259	0.0557	2.3816	0.6291	0.0540	0.6830	0.0000	5,501.7316	5,501.7316	0.7138	0.0000	5,514.9624
Maximum	**54.8831**	**29.8089**	**29.2113**	**0.1238**	**4.8154**	**0.1524**	**4.9677**	**0.9787**	**0.1484**	**1.1271**	**0.0000**	**12,788.8182**	**12,788.8182**	**1.5510**	**0.0000**	**12,827.5932**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.89**	**48.71**	**-9.85**	**0.00**	**37.78**	**91.60**	**46.48**	**29.00**	**91.26**	**58.60**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/21/2021	5	15	
2	Site Preparation	Site Preparation	3/22/2021	4/30/2021	5	30	
3	Grading	Grading	5/1/2021	6/11/2021	5	30	
4	Drainage/Utilities/Trenching	Trenching	6/12/2021	7/22/2021	5	29	
5	Foundations/Concrete Pour	Building Construction	7/23/2021	9/28/2021	5	48	
6	Building Construction	Building Construction	9/29/2021	9/22/2022	5	257	
7	Architectural Coating	Architectural Coating	11/24/2021	10/25/2022	5	240	
8	Paving	Paving	9/23/2022	10/25/2022	5	23	

Acres of Grading (Site Preparation Phase): 4

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.21

Residential Indoor: 818,100; Residential Outdoor: 272,700; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rollers	1	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	2	8.00	8	0.43
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Drainage/Utilities/Trenching	Air Compressors	1	8.00	78	0.48
Drainage/Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Drainage/Utilities/Trenching	Excavators	1	8.00	158	0.38
Drainage/Utilities/Trenching	Forklifts	1	8.00	89	0.20
Drainage/Utilities/Trenching	Plate Compactors	2	8.00	8	0.43
Drainage/Utilities/Trenching	Rubber Tired Loaders	1	8.00	203	0.36
Drainage/Utilities/Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Foundations/Concrete Pour	Cranes	0	7.00	231	0.29
Foundations/Concrete Pour	Forklifts	0	8.00	89	0.20
Foundations/Concrete Pour	Generator Sets	0	8.00	84	0.74
Foundations/Concrete Pour	Plate Compactors	1	8.00	8	0.43
Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Foundations/Concrete Pour	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Foundations/Concrete Pour	Welders	0	8.00	46	0.45
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Sweepers/Scrubbers	1	8.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48

Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	1,639.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	14.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	14.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Trenching	10	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundations/Concrete Pour	3	42.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HDT_Mix
Building Construction	4	170.00	79.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1093	0.0000	7.1093	1.0766	0.0000	1.0766			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**7.1093**	**1.5513**	**8.6607**	**1.0766**	**1.4411**	**2.5177**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8097	27.7640	5.5066	0.0838	1.9113	0.0898	2.0011	0.5239	0.0859	0.6099		8,920.8475	8,920.8475	0.4927		8,933.1650
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0626	0.0417	0.4249	1.2000e-003	0.1314	9.3000e-004	0.1324	0.0349	8.6000e-004	0.0357		120.0258	120.0258	3.4000e-003		120.1109
Total	**0.8722**	**27.8057**	**5.9315**	**0.0850**	**2.0427**	**0.0907**	**2.1335**	**0.5588**	**0.0868**	**0.6456**		**9,040.8733**	**9,040.8733**	**0.4961**		**9,053.2758**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7726	0.0000	2.7726	0.4199	0.0000	0.4199			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**	**2.7726**	**0.0616**	**2.8343**	**0.4199**	**0.0616**	**0.4815**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8097	27.7640	5.5066	0.0838	1.9113	0.0898	2.0011	0.5239	0.0859	0.6099		8,920.8475	8,920.8475	0.4927		8,933.1650
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0626	0.0417	0.4249	1.2000e-003	0.1314	9.3000e-004	0.1324	0.0349	8.6000e-004	0.0357		120.0258	120.0258	3.4000e-003		120.1109
Total	**0.8722**	**27.8057**	**5.9315**	**0.0850**	**2.0427**	**0.0907**	**2.1335**	**0.5588**	**0.0868**	**0.6456**		**9,040.8733**	**9,040.8733**	**0.4961**		**9,053.2758**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1470	0.0000	0.1470	0.0161	0.0000	0.0161			0.0000			0.0000
Off-Road	2.6469	29.3731	20.4562	0.0435		1.2418	1.2418		1.1559	1.1559		4,193.7455	4,193.7455	1.1866		4,223.4113
Total	**2.6469**	**29.3731**	**20.4562**	**0.0435**	**0.1470**	**1.2418**	**1.3889**	**0.0161**	**1.1559**	**1.1720**		**4,193.7455**	**4,193.7455**	**1.1866**		**4,223.4113**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0494	1.6940	0.3360	5.1100e-003	0.1166	5.4800e-003	0.1221	0.0320	5.2400e-003	0.0372		544.2860	544.2860	0.0301		545.0375
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0548	0.0365	0.3718	1.0500e-003	0.1150	8.2000e-004	0.1158	0.0305	7.5000e-004	0.0313		105.0226	105.0226	2.9800e-003		105.0970
Total	**0.1042**	**1.7304**	**0.7078**	**6.1600e-003**	**0.2316**	**6.3000e-003**	**0.2379**	**0.0625**	**5.9900e-003**	**0.0685**		**649.3086**	**649.3086**	**0.0330**		**650.1345**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0573	0.0000	0.0573	6.2900e-003	0.0000	6.2900e-003			0.0000			0.0000
Off-Road	0.5188	2.2481	23.3701	0.0435		0.0692	0.0692		0.0692	0.0692	0.0000	4,193.7455	4,193.7455	1.1866		4,223.4113
Total	**0.5188**	**2.2481**	**23.3701**	**0.0435**	**0.0573**	**0.0692**	**0.1265**	**6.2900e-003**	**0.0692**	**0.0755**	**0.0000**	**4,193.7455**	**4,193.7455**	**1.1866**		**4,223.4113**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0494	1.6940	0.3360	5.1100e-003	0.1166	5.4800e-003	0.1221	0.0320	5.2400e-003	0.0372		544.2860	544.2860	0.0301		545.0375
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0548	0.0365	0.3718	1.0500e-003	0.1150	8.2000e-004	0.1158	0.0305	7.5000e-004	0.0313		105.0226	105.0226	2.9800e-003		105.0970
Total	**0.1042**	**1.7304**	**0.7078**	**6.1600e-003**	**0.2316**	**6.3000e-003**	**0.2379**	**0.0625**	**5.9900e-003**	**0.0685**		**649.3086**	**649.3086**	**0.0330**		**650.1345**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1470	0.0000	0.1470	0.0161	0.0000	0.0161			0.0000			0.0000
Off-Road	1.9632	20.0188	14.4628	0.0309		0.8516	0.8516		0.7906	0.7906		2,915.7114	2,915.7114	0.8752		2,937.5910
Total	**1.9632**	**20.0188**	**14.4628**	**0.0309**	**0.1470**	**0.8516**	**0.9986**	**0.0161**	**0.7906**	**0.8068**		**2,915.7114**	**2,915.7114**	**0.8752**		**2,937.5910**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0494	1.6940	0.3360	5.1100e-003	0.1166	5.4800e-003	0.1221	0.0320	5.2400e-003	0.0372		544.2860	544.2860	0.0301		545.0375
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0548	0.0365	0.3718	1.0500e-003	0.1150	8.2000e-004	0.1158	0.0305	7.5000e-004	0.0313		105.0226	105.0226	2.9800e-003		105.0970
Total	**0.1042**	**1.7304**	**0.7078**	**6.1600e-003**	**0.2316**	**6.3000e-003**	**0.2379**	**0.0625**	**5.9900e-003**	**0.0685**		**649.3086**	**649.3086**	**0.0330**		**650.1345**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0573	0.0000	0.0573	6.2900e-003	0.0000	6.2900e-003			0.0000			0.0000
Off-Road	0.3301	1.4306	16.3965	0.0309		0.0440	0.0440		0.0440	0.0440	0.0000	2,915.7114	2,915.7114	0.8752		2,937.5910
Total	**0.3301**	**1.4306**	**16.3965**	**0.0309**	**0.0573**	**0.0440**	**0.1014**	**6.2900e-003**	**0.0440**	**0.0503**	**0.0000**	**2,915.7114**	**2,915.7114**	**0.8752**		**2,937.5910**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0494	1.6940	0.3360	5.1100e-003	0.1166	5.4800e-003	0.1221	0.0320	5.2400e-003	0.0372		544.2860	544.2860	0.0301		545.0375
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0548	0.0365	0.3718	1.0500e-003	0.1150	8.2000e-004	0.1158	0.0305	7.5000e-004	0.0313		105.0226	105.0226	2.9800e-003		105.0970
Total	**0.1042**	**1.7304**	**0.7078**	**6.1600e-003**	**0.2316**	**6.3000e-003**	**0.2379**	**0.0625**	**5.9900e-003**	**0.0685**		**649.3086**	**649.3086**	**0.0330**		**650.1345**

3.5 Drainage/Utilities/Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5951	14.4556	13.9048	0.0256		0.7205	0.7205		0.6772	0.6772		2,421.3527	2,421.3527	0.6460		2,437.5032
Total	**1.5951**	**14.4556**	**13.9048**	**0.0256**		**0.7205**	**0.7205**		**0.6772**	**0.6772**		**2,421.3527**	**2,421.3527**	**0.6460**		**2,437.5032**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0939	0.0625	0.6374	1.8100e-003	0.1972	1.4000e-003	0.1986	0.0523	1.2900e-003	0.0536		180.0387	180.0387	5.1100e-003		180.1663
Total	**0.0939**	**0.0625**	**0.6374**	**1.8100e-003**	**0.1972**	**1.4000e-003**	**0.1986**	**0.0523**	**1.2900e-003**	**0.0536**		**180.0387**	**180.0387**	**5.1100e-003**		**180.1663**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2753	1.1929	15.0426	0.0256		0.0367	0.0367		0.0367	0.0367	0.0000	2,421.3527	2,421.3527	0.6460		2,437.5031
Total	**0.2753**	**1.1929**	**15.0426**	**0.0256**		**0.0367**	**0.0367**		**0.0367**	**0.0367**	**0.0000**	**2,421.3527**	**2,421.3527**	**0.6460**		**2,437.5031**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0939	0.0625	0.6374	1.8100e-003	0.1972	1.4000e-003	0.1986	0.0523	1.2900e-003	0.0536		180.0387	180.0387	5.1100e-003		180.1663
Total	**0.0939**	**0.0625**	**0.6374**	**1.8100e-003**	**0.1972**	**1.4000e-003**	**0.1986**	**0.0523**	**1.2900e-003**	**0.0536**		**180.0387**	**180.0387**	**5.1100e-003**		**180.1663**

3.6 Foundations/Concrete Pour - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6078	5.3571	6.2113	0.0102		0.2992	0.2992		0.2902	0.2902		958.4151	958.4151	0.1349		961.7872
Total	**0.6078**	**5.3571**	**6.2113**	**0.0102**		**0.2992**	**0.2992**		**0.2902**	**0.2902**		**958.4151**	**958.4151**	**0.1349**		**961.7872**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0254	0.7206	0.1791	2.6400e-003	0.0771	2.5200e-003	0.0797	0.0222	2.4100e-003	0.0246		279.1517	279.1517	0.0103		279.4095
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1643	0.1095	1.1154	3.1600e-003	0.3450	2.4500e-003	0.3475	0.0915	2.2500e-003	0.0938		315.0676	315.0676	8.9300e-003		315.2910
Total	**0.1897**	**0.8301**	**1.2945**	**5.8000e-003**	**0.4222**	**4.9700e-003**	**0.4271**	**0.1137**	**4.6600e-003**	**0.1184**		**594.2193**	**594.2193**	**0.0192**		**594.7005**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1038	0.4496	6.3984	0.0102		0.0138	0.0138		0.0138	0.0138	0.0000	958.4151	958.4151	0.1349		961.7872
Total	**0.1038**	**0.4496**	**6.3984**	**0.0102**		**0.0138**	**0.0138**		**0.0138**	**0.0138**	**0.0000**	**958.4151**	**958.4151**	**0.1349**		**961.7872**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0254	0.7206	0.1791	2.6400e-003	0.0771	2.5200e-003	0.0797	0.0222	2.4100e-003	0.0246		279.1517	279.1517	0.0103		279.4095
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1643	0.1095	1.1154	3.1600e-003	0.3450	2.4500e-003	0.3475	0.0915	2.2500e-003	0.0938		315.0676	315.0676	8.9300e-003		315.2910
Total	**0.1897**	**0.8301**	**1.2945**	**5.8000e-003**	**0.4222**	**4.9700e-003**	**0.4271**	**0.1137**	**4.6600e-003**	**0.1184**		**594.2193**	**594.2193**	**0.0192**		**594.7005**

3.7 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0627	10.1214	7.5251	0.0138		0.5573	0.5573		0.5228	0.5228		1,328.2101	1,328.2101	0.3340		1,336.5589
Total	**1.0627**	**10.1214**	**7.5251**	**0.0138**		**0.5573**	**0.5573**		**0.5228**	**0.5228**		**1,328.2101**	**1,328.2101**	**0.3340**		**1,336.5589**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2557	8.0559	2.0282	0.0212	0.5351	0.0193	0.5544	0.1540	0.0184	0.1725		2,242.1012	2,242.1012	0.1365		2,245.5136
Worker	0.6649	0.4430	4.5146	0.0128	1.3965	9.9000e-003	1.4064	0.3704	9.1200e-003	0.3795		1,275.2738	1,275.2738	0.0362		1,276.1778
Total	**0.9206**	**8.4989**	**6.5428**	**0.0340**	**1.9316**	**0.0292**	**1.9608**	**0.5245**	**0.0276**	**0.5520**		**3,517.3749**	**3,517.3749**	**0.1727**		**3,521.6915**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1917	1.9832	8.1253	0.0138		0.0214	0.0214		0.0214	0.0214	0.0000	1,328.2101	1,328.2101	0.3340		1,336.5589
Total	**0.1917**	**1.9832**	**8.1253**	**0.0138**		**0.0214**	**0.0214**		**0.0214**	**0.0214**	**0.0000**	**1,328.2101**	**1,328.2101**	**0.3340**		**1,336.5589**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2557	8.0559	2.0282	0.0212	0.5351	0.0193	0.5544	0.1540	0.0184	0.1725		2,242.1012	2,242.1012	0.1365		2,245.5136
Worker	0.6649	0.4430	4.5146	0.0128	1.3965	9.9000e-003	1.4064	0.3704	9.1200e-003	0.3795		1,275.2738	1,275.2738	0.0362		1,276.1778
Total	**0.9206**	**8.4989**	**6.5428**	**0.0340**	**1.9316**	**0.0292**	**1.9608**	**0.5245**	**0.0276**	**0.5520**		**3,517.3749**	**3,517.3749**	**0.1727**		**3,521.6915**

3.7 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9527	8.9200	7.3812	0.0138		0.4731	0.4731		0.4439	0.4439		1,328.3017	1,328.3017	0.3327		1,336.6183
Total	**0.9527**	**8.9200**	**7.3812**	**0.0138**		**0.4731**	**0.4731**		**0.4439**	**0.4439**		**1,328.3017**	**1,328.3017**	**0.3327**		**1,336.6183**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2382	7.6188	1.8915	0.0210	0.5351	0.0167	0.5517	0.1540	0.0159	0.1700		2,221.6521	2,221.6521	0.1305		2,224.9144
Worker	0.6222	0.3983	4.1371	0.0123	1.3965	9.6200e-003	1.4061	0.3704	8.8600e-003	0.3793		1,229.3915	1,229.3915	0.0325		1,230.2034
Total	**0.8605**	**8.0171**	**6.0286**	**0.0334**	**1.9316**	**0.0263**	**1.9579**	**0.5245**	**0.0248**	**0.5493**		**3,451.0436**	**3,451.0436**	**0.1630**		**3,455.1178**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1917	1.9832	8.1253	0.0138		0.0214	0.0214		0.0214	0.0214	0.0000	1,328.3017	1,328.3017	0.3327		1,336.6182
Total	**0.1917**	**1.9832**	**8.1253**	**0.0138**		**0.0214**	**0.0214**		**0.0214**	**0.0214**	**0.0000**	**1,328.3017**	**1,328.3017**	**0.3327**		**1,336.6182**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2382	7.6188	1.8915	0.0210	0.5351	0.0167	0.5517	0.1540	0.0159	0.1700		2,221.6521	2,221.6521	0.1305		2,224.9144
Worker	0.6222	0.3983	4.1371	0.0123	1.3965	9.6200e-003	1.4061	0.3704	8.8600e-003	0.3793		1,229.3915	1,229.3915	0.0325		1,230.2034
Total	**0.8605**	**8.0171**	**6.0286**	**0.0334**	**1.9316**	**0.0263**	**1.9579**	**0.5245**	**0.0248**	**0.5493**		**3,451.0436**	**3,451.0436**	**0.1630**		**3,455.1178**

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	53.5435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**53.8354**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1877	0.1251	1.2747	3.6100e-003	0.3943	2.8000e-003	0.3971	0.1046	2.5800e-003	0.1072		360.0773	360.0773	0.0102		360.3326
Total	**0.1877**	**0.1251**	**1.2747**	**3.6100e-003**	**0.3943**	**2.8000e-003**	**0.3971**	**0.1046**	**2.5800e-003**	**0.1072**		**360.0773**	**360.0773**	**0.0102**		**360.3326**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	53.5435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**53.5831**	**0.1717**	**2.4432**	**3.9600e-003**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1877	0.1251	1.2747	3.6100e-003	0.3943	2.8000e-003	0.3971	0.1046	2.5800e-003	0.1072		360.0773	360.0773	0.0102		360.3326
Total	**0.1877**	**0.1251**	**1.2747**	**3.6100e-003**	**0.3943**	**2.8000e-003**	**0.3971**	**0.1046**	**2.5800e-003**	**0.1072**		**360.0773**	**360.0773**	**0.0102**		**360.3326**

3.8 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	53.5435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	**53.8162**	**1.8780**	**2.4181**	**3.9600e-003**		**0.1090**	**0.1090**		**0.1090**	**0.1090**		**375.2641**	**375.2641**	**0.0244**		**375.8749**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1757	0.1125	1.1681	3.4800e-003	0.3943	2.7200e-003	0.3970	0.1046	2.5000e-003	0.1071		347.1223	347.1223	9.1700e-003		347.3516
Total	**0.1757**	**0.1125**	**1.1681**	**3.4800e-003**	**0.3943**	**2.7200e-003**	**0.3970**	**0.1046**	**2.5000e-003**	**0.1071**		**347.1223**	**347.1223**	**9.1700e-003**		**347.3516**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	53.5435					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0396	0.1717	2.4432	3.9600e-003		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	375.2641	375.2641	0.0244		375.8749
Total	**53.5831**	**0.1717**	**2.4432**	**3.9600e-003**		**5.2800e-003**	**5.2800e-003**		**5.2800e-003**	**5.2800e-003**	**0.0000**	**375.2641**	**375.2641**	**0.0244**		**375.8749**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1757	0.1125	1.1681	3.4800e-003	0.3943	2.7200e-003	0.3970	0.1046	2.5000e-003	0.1071		347.1223	347.1223	9.1700e-003		347.3516
Total	**0.1757**	**0.1125**	**1.1681**	**3.4800e-003**	**0.3943**	**2.7200e-003**	**0.3970**	**0.1046**	**2.5000e-003**	**0.1071**		**347.1223**	**347.1223**	**9.1700e-003**		**347.3516**

3.9 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5175	15.4241	14.5936	0.0268		0.7218	0.7218		0.6761	0.6761		2,583.9501	2,583.9501	0.6764		2,600.8589
Paving	0.1378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.6553**	**15.4241**	**14.5936**	**0.0268**		**0.7218**	**0.7218**		**0.6761**	**0.6761**		**2,583.9501**	**2,583.9501**	**0.6764**		**2,600.8589**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0732	0.0469	0.4867	1.4500e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0400e-003	0.0446		144.6343	144.6343	3.8200e-003		144.7298
Total	**0.0732**	**0.0469**	**0.4867**	**1.4500e-003**	**0.1643**	**1.1300e-003**	**0.1654**	**0.0436**	**1.0400e-003**	**0.0446**		**144.6343**	**144.6343**	**3.8200e-003**		**144.7298**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3463	2.6531	17.4025	0.0268		0.0420	0.0420		0.0420	0.0420	0.0000	2,583.9501	2,583.9501	0.6764		2,600.8589
Paving	0.1378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4841**	**2.6531**	**17.4025**	**0.0268**		**0.0420**	**0.0420**		**0.0420**	**0.0420**	**0.0000**	**2,583.9501**	**2,583.9501**	**0.6764**		**2,600.8589**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0732	0.0469	0.4867	1.4500e-003	0.1643	1.1300e-003	0.1654	0.0436	1.0400e-003	0.0446		144.6343	144.6343	3.8200e-003		144.7298
Total	**0.0732**	**0.0469**	**0.4867**	**1.4500e-003**	**0.1643**	**1.1300e-003**	**0.1654**	**0.0436**	**1.0400e-003**	**0.0446**		**144.6343**	**144.6343**	**3.8200e-003**		**144.7298**

Mt. Etna Community Plan Amendment and Rezone Project
Operational Emissions Summary

Category		ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
		lb/day									
Area		13.2115	0.3852	33.4077	1.76E-03		0.1845	0.1845		0.1845	0.1845
Energy		0.1864	1.5932	0.678	0.0102		0.1288	0.1288		0.1288	0.1288
Mobile		7.989	7.6481	58.8962	0.1179	12.1328	0.1057	12.2385	3.2322	0.0989	3.3311
Total		**21.387**	**9.6265**	**92.9819**	**0.1299**	**12.1328**	**0.4191**	**12.5519**	**3.2322**	**0.4122**	**3.6444**

Mt. Etna Community Plan Amendment and Rezone Project

Statewide , Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.00	Space	0.00	0.00	0
Parking Lot	404.00	Space	1.21	161,600.00	0
Apartments Mid Rise	404.00	Dwelling Unit	2.88	404,000.00	1281

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	7			**Operational Year**	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Changed for SD County

Land Use - Client given inputs

Vehicle Trips - Taken from TIA prepared by Chen+Ryan

Vehicle Emission Factors - EMFAC2017 Factors

Woodstoves - No wood fireplaces

Area Coating -

Energy Use -

Area Mitigation -

Water Mitigation -

Waste Mitigation - Based on SD Zero Waste Plan goal of 75% diversion by 2020

https://www.sandiego.gov/sites/default/files/legacy/mayor/pdf/2015/ZeroWastePlan.pdf

Fleet Mix - EMFAC2017 fleet mix

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3175	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259
Energy	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	964.2742	964.2742	0.0317	0.0114	968.4641
Mobile	1.3823	1.3774	10.5167	0.0216	2.1560	0.0192	2.1752	0.5755	0.0180	0.5934	0.0000	1,994.5034	1,994.5034	0.1447	0.0000	1,998.1217
Waste						0.0000	0.0000		0.0000	0.0000	37.7238	0.0000	37.7238	2.2294	0.0000	93.4592
Water						0.0000	0.0000		0.0000	0.0000	8.3508	118.8957	127.2465	0.8625	0.0212	155.1392
Total	**3.7339**	**1.7029**	**13.6471**	**0.0236**	**2.1560**	**0.0593**	**2.2153**	**0.5755**	**0.0581**	**0.6336**	**46.0747**	**3,082.5806**	**3,128.6552**	**3.2731**	**0.0326**	**3,220.2100**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3175	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259
Energy	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	964.2742	964.2742	0.0317	0.0114	968.4641
Mobile	1.3823	1.3774	10.5167	0.0216	2.1560	0.0192	2.1752	0.5755	0.0180	0.5934	0.0000	1,994.5034	1,994.5034	0.1447	0.0000	1,998.1217
Waste						0.0000	0.0000		0.0000	0.0000	9.4310	0.0000	9.4310	0.5574	0.0000	23.3648
Water						0.0000	0.0000		0.0000	0.0000	6.6807	100.6232	107.3039	0.6902	0.0170	129.6372
Total	**3.7339**	**1.7029**	**13.6471**	**0.0236**	**2.1560**	**0.0593**	**2.2153**	**0.5755**	**0.0581**	**0.6336**	**16.1116**	**3,064.3081**	**3,080.4198**	**1.4288**	**0.0284**	**3,124.6137**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**65.03**	**0.59**	**1.54**	**56.35**	**12.87**	**2.97**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3823	1.3774	10.5167	0.0216	2.1560	0.0192	2.1752	0.5755	0.0180	0.5934	0.0000	1,994.5034	1,994.5034	0.1447	0.0000	1,998.1217
Unmitigated	1.3823	1.3774	10.5167	0.0216	2.1560	0.0192	2.1752	0.5755	0.0180	0.5934	0.0000	1,994.5034	1,994.5034	0.1447	0.0000	1,998.1217

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,020.00	2,020.00	2020.00	5,762,753	5,762,753
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	2,020.00	2,020.00	2,020.00	5,762,753	5,762,753

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.40	19.30	39.30	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388
Enclosed Parking with Elevator	0.552843	0.039396	0.193030	0.116235	0.017695	0.005634	0.019549	0.044452	0.002104	0.001859	0.005467	0.000816	0.000920
Parking Lot	0.552843	0.039396	0.193030	0.116235	0.017695	0.005634	0.019549	0.044452	0.002104	0.001859	0.005467	0.000816	0.000920

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	627.5448	627.5448	0.0253	5.2300e-003	629.7336
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	627.5448	627.5448	0.0253	5.2300e-003	629.7336
NaturalGas Mitigated	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	336.7295	336.7295	6.4500e-003	6.1700e-003	338.7305
NaturalGas Unmitigated	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	336.7295	336.7295	6.4500e-003	6.1700e-003	338.7305

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	6.31007e+006	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	336.7295	336.7295	6.4500e-003	6.1700e-003	338.7305
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0340**	**0.2908**	**0.1237**	**1.8600e-003**		**0.0235**	**0.0235**		**0.0235**	**0.0235**	**0.0000**	**336.7295**	**336.7295**	**6.4500e-003**	**6.1700e-003**	**338.7305**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	6.31007e+006	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	336.7295	336.7295	6.4500e-003	6.1700e-003	338.7305
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0340**	**0.2908**	**0.1237**	**1.8600e-003**		**0.0235**	**0.0235**		**0.0235**	**0.0235**	**0.0000**	**336.7295**	**336.7295**	**6.4500e-003**	**6.1700e-003**	**338.7305**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.86366e+006	609.0605	0.0245	5.0700e-003	611.1848
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	56560	18.4843	7.4000e-004	1.5000e-004	18.5488
Total		**627.5448**	**0.0253**	**5.2200e-003**	**629.7336**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.86366e+006	609.0605	0.0245	5.0700e-003	611.1848
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	56560	18.4843	7.4000e-004	1.5000e-004	18.5488
Total		**627.5448**	**0.0253**	**5.2200e-003**	**629.7336**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3175	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259
Unmitigated	2.3175	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5883					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0911	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259
Total	**2.3175**	**0.0347**	**3.0067**	**1.6000e-004**		**0.0166**	**0.0166**		**0.0166**	**0.0166**	**0.0000**	**4.9073**	**4.9073**	**4.7500e-003**	**0.0000**	**5.0259**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5883					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0911	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259
Total	**2.3175**	**0.0347**	**3.0067**	**1.6000e-004**		**0.0166**	**0.0166**		**0.0166**	**0.0166**	**0.0000**	**4.9073**	**4.9073**	**4.7500e-003**	**0.0000**	**5.0259**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	107.3039	0.6902	0.0170	129.6372
Unmitigated	127.2465	0.8625	0.0212	155.1392

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	26.3222 / 16.5944	127.2465	0.8625	0.0212	155.1392
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**127.2465**	**0.8625**	**0.0212**	**155.1392**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	21.0578 / 15.5822	107.3039	0.6902	0.0170	129.6372
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**107.3039**	**0.6902**	**0.0170**	**129.6372**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.4310	0.5574	0.0000	23.3648
Unmitigated	37.7238	2.2294	0.0000	93.4592

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	185.84	37.7238	2.2294	0.0000	93.4592
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**37.7238**	**2.2294**	**0.0000**	**93.4592**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	46.46	9.4310	0.5574	0.0000	23.3648
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**9.4310**	**0.5574**	**0.0000**	**23.3648**

Mt. Etna Community Plan Amendment and Rezone Project

Statewide , Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.00	Space	0.00	0.00	0
Parking Lot	404.00	Space	1.21	161,600.00	0
Apartments Mid Rise	404.00	Dwelling Unit	2.88	404,000.00	1281

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	7			**Operational Year**	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Changed for SD County

Land Use - Client given inputs

Vehicle Trips - Taken from TIA prepared by Chen+Ryan

Vehicle Emission Factors - EMFAC2017 Factors

Woodstoves - No wood fireplaces

Area Coating -

Energy Use -

Area Mitigation -

Water Mitigation -

Waste Mitigation - Based on SD Zero Waste Plan goal of 75% diversion by 2020
https://www.sandiego.gov/sites/default/files/legacy/mayor/pdf/2015/ZeroWastePlan.pdf

Fleet Mix - EMFAC2017 fleet mix

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.2115	0.3852	33.4077	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	60.1036	60.1036	0.0581	0.0000	61.5569
Energy	0.1864	1.5932	0.6780	0.0102		0.1288	0.1288		0.1288	0.1288		2,033.8669	2,033.8669	0.0390	0.0373	2,045.9531
Mobile	7.7295	7.0675	57.7060	0.1234	12.1328	0.1057	12.2385	3.2322	0.0988	3.3311		12,560.5682	12,560.5682	0.8437		12,581.6614
Total	**21.1274**	**9.0459**	**91.7917**	**0.1353**	**12.1328**	**0.4190**	**12.5518**	**3.2322**	**0.4121**	**3.6444**	**0.0000**	**14,654.5386**	**14,654.5386**	**0.9408**	**0.0373**	**14,689.1714**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.2115	0.3852	33.4077	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	60.1036	60.1036	0.0581	0.0000	61.5569
Energy	0.1864	1.5932	0.6780	0.0102		0.1288	0.1288		0.1288	0.1288		2,033.8669	2,033.8669	0.0390	0.0373	2,045.9531
Mobile	7.7295	7.0675	57.7060	0.1234	12.1328	0.1057	12.2385	3.2322	0.0988	3.3311		12,560.5682	12,560.5682	0.8437		12,581.6614
Total	**21.1274**	**9.0459**	**91.7917**	**0.1353**	**12.1328**	**0.4190**	**12.5518**	**3.2322**	**0.4121**	**3.6444**	**0.0000**	**14,654.5386**	**14,654.5386**	**0.9408**	**0.0373**	**14,689.1714**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.7295	7.0675	57.7060	0.1234	12.1328	0.1057	12.2385	3.2322	0.0988	3.3311		12,560.5682	12,560.5682	0.8437		12,581.6614
Unmitigated	7.7295	7.0675	57.7060	0.1234	12.1328	0.1057	12.2385	3.2322	0.0988	3.3311		12,560.5682	12,560.5682	0.8437		12,581.6614

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,020.00	2,020.00	2020.00	5,762,753	5,762,753
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	2,020.00	2,020.00	2,020.00	5,762,753	5,762,753

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.40	19.30	39.30	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388
Enclosed Parking with Elevator	0.552843	0.039396	0.193030	0.116235	0.017695	0.005634	0.019549	0.044452	0.002104	0.001859	0.005467	0.000816	0.000920
Parking Lot	0.552843	0.039396	0.193030	0.116235	0.017695	0.005634	0.019549	0.044452	0.002104	0.001859	0.005467	0.000816	0.000920

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1864	1.5932	0.6780	0.0102		0.1288	0.1288		0.1288	0.1288		2,033.8669	2,033.8669	0.0390	0.0373	2,045.9531
NaturalGas Unmitigated	0.1864	1.5932	0.6780	0.0102		0.1288	0.1288		0.1288	0.1288		2,033.8669	2,033.8669	0.0390	0.0373	2,045.9531

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	17287.9	0.1864	1.5932	0.6780	0.0102		0.1288	0.1288		0.1288	0.1288		2,033.8669	2,033.8669	0.0390	0.0373	2,045.9531
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1864**	**1.5932**	**0.6780**	**0.0102**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**2,033.8669**	**2,033.8669**	**0.0390**	**0.0373**	**2,045.9531**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	17.2879	0.1864	1.5932	0.6780	0.0102		0.1288	0.1288		0.1288	0.1288		2,033.8669	2,033.8669	0.0390	0.0373	2,045.9531
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.1864**	**1.5932**	**0.6780**	**0.0102**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**2,033.8669**	**2,033.8669**	**0.0390**	**0.0373**	**2,045.9531**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.2115	0.3852	33.4077	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	60.1036	60.1036	0.0581	0.0000	61.5569
Unmitigated	13.2115	0.3852	33.4077	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	60.1036	60.1036	0.0581	0.0000	61.5569

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4971					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.7028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0117	0.3852	33.4077	1.7600e-003		0.1845	0.1845		0.1845	0.1845		60.1036	60.1036	0.0581		61.5569
Total	**13.2115**	**0.3852**	**33.4077**	**1.7600e-003**		**0.1845**	**0.1845**		**0.1845**	**0.1845**	**0.0000**	**60.1036**	**60.1036**	**0.0581**	**0.0000**	**61.5569**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4971					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.7028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0117	0.3852	33.4077	1.7600e-003		0.1845	0.1845		0.1845	0.1845		60.1036	60.1036	0.0581		61.5569
Total	**13.2115**	**0.3852**	**33.4077**	**1.7600e-003**		**0.1845**	**0.1845**		**0.1845**	**0.1845**	**0.0000**	**60.1036**	**60.1036**	**0.0581**	**0.0000**	**61.5569**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Mt. Etna Community Plan Amendment and Rezone Project

Construction Health Risk Summary

Sensitive Receptor	Maximum Cancer Risk (# in one million) [a]	Chronic Risk Hazard Index (HI) [b]
	Unmitigated	
Residential Land Use	**14.28**	0.03
School	0.47	0.01
Significance Threshold	10	1
Exceeds Threshold?	Yes	No
	Mitigated	
Residential Land Use	3.1	0.007
School	0.1	0.001
Significance Threshold	10	1
Exceeds Threshold?	No	No

a. Cancer risk values based on actual exposure over the duration of construction activities. The Construction risk was calculated assuming a child was born at the beginning of the project construction, and would be exposed during the duration of construction activities. The third trimester exposure was excluded as construction is anticipated to take less than two years and exposure from birth to two years results in greater cancer risk, therefore excluding the third trimester exposure results in a more conservative risk analysis.

b. Chronic risk HI values based on the annual maximum levels of DPM divided by the corresponding DPM reference exposure levels (RELs).

Source: See HRA Detailed Calculations

Mt. Etna Community Plan Amendment and Rezone Project
Unmitigated Residential Health Risk Assessment

1. Assumptions
2. Risk by Phase Summary
3. Cancer Risk Summary
4. Non-Cancer Risk Summary
5. Risk by Construction Phase
    a. Risk From Demolition - Unmitigated Residential
    b. Risk From Site Prep - Unmitigated Residential
    c. Risk From Grading - Unmitigated Residential
    d. Risk From Trenching - Unmitigated Residential
    e. Risk From Foundation - Unmitigated Residential
    f. Risk From BC - Unmitigated Residential
    g. Risk From Arch. Coating - Unmitigated Residential
    h. Risk From Paving - Unmitigated Residential

Unmitigated Residential Health Risk Assessment

1. Assumptions

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Health Risk Assumptions

	3rd	0-2	2-16	>16	Units
DBR	361	1090	631	261	L/kg
A	1	1	1	1	no units
EF	0.958904	0.958904	0.958904	0.958904	years
Constant 1	0.000001	0.000001	0.000001	0.000001	no units
CPF	1.1	1.1	1.1	1.1	mg/kg-day-1
ASF	10	10	3	1	no units
Demolition	0.00	**0.04**	0.00	0.00	years
Site Prep	0.00	**0.08**	0.00	0.00	years
Grading	0.00	**0.08**	0.00	0.00	years
Trenching	0.00	**0.08**	0.00	0.00	years
Foundation	0.00	**0.13**	0.00	0.00	years
BC	0.00	**0.70**	0.00	0.00	years
Arch. Coating	0.00	**0.66**	0.00	0.00	years
Paving	0.00	**0.06**	0.00	0.00	years
AT	70	70	70	70	years
FAH	1	1	1	0.73	day
Constant 2	1,000,000	1,000,000	1,000,000	1,000,000	no units
Dose Constant	0.000346	0.001045	0.000605	0.00025	no units
Risk Constants	0.157143	0.157143	0.047143	0.011471	no units

Dose = (Cair X DBR X A X EF X Constant 1)

Cancer Risk = Dose X CPF x ASF x (ED/AT) X FAH

Risk per Million = Cancer Risk X Constant 2

Non-Cancer Hazard Quotent = Average Annual Concentration x Chronic Inhalation REL

Onsite	lbs/day	g/day	g/sec	days
	Birth to 2 years			
Demolition	1.5513	703.65784	0.0162884	15
Site Prep	1.2418	563.27101	0.0130387	30
Grading	0.8516	386.27926	0.0089416	30
Trenching	0.7205	326.8133	0.0075651	29
Foundation	0.2992	135.71484	0.0031415	48
BC	0.3626675	164.5032	0.0038079	257
Arch. Coating	0.110925	50.314734	0.0011647	240
Paving	0.7218	327.40297	0.0075788	23

Offsite	lbs/day/mile	Meters	Miles	lbs/day	g/day	g/sec
Haul1A						
Demolition H	0.0001409	135.1	0.0839471	1.183E-05	0.0053655	1.242E-07
Site Preparation H	0.0001429	135.1	0.0839471	1.199E-05	0.0054397	1.259E-07
Grading H	0.0001429	135.1	0.0839471	1.199E-05	0.0054397	1.259E-07
Foundation H	0.0001	135.1	0.0839471	8.395E-06	0.0038078	8.814E-08
BC V	0.09	135.1	0.0839471	0.0075552	3.4269982	7.933E-05
Haul1B						
Demolition H	0.0001409	246.3	0.1530434	2.157E-05	0.0097818	2.264E-07
Site Preparation H	0.0001429	246.3	0.1530434	2.186E-05	0.009917	2.296E-07
Grading H	0.0001429	246.3	0.1530434	2.186E-05	0.009917	2.296E-07
Foundation H	0.0001	246.3	0.1530434	1.53E-05	0.0069419	1.607E-07
BC V	0.09	246.3	0.1530434	0.0137739	6.2477399	0.0001446
Haul2A						
Demolition H	0.0001409	145.3	0.0902851	1.272E-05	0.0057706	1.336E-07
Site Preparation H	0.0001429	145.3	0.0902851	1.29E-05	0.0058504	1.354E-07
Grading H	0.0001429	145.3	0.0902851	1.29E-05	0.0058504	1.354E-07
Foundation H	0.0001	145.3	0.0902851	9.029E-06	0.0040953	9.48E-08
BC V	0.09	145.3	0.0902851	0.0081257	3.6857353	8.532E-05
HaulC						
Demolition H	0.0001409	810.6	0.5036825	7.097E-05	0.032193	7.452E-07
Site Preparation H	0.0001429	810.6	0.5036825	7.195E-05	0.0326381	7.555E-07
Grading H	0.0001429	810.6	0.5036825	7.195E-05	0.0326381	7.555E-07
Foundation H	0.0001	810.6	0.5036825	5.037E-05	0.0228467	5.289E-07
BC V	0.09	810.6	0.5036825	0.0453314	20.561989	0.000476

Mt. Etna Community Plan Amendment and Rezone Project
Unmitigated Residential - Construction Health Risk Assumptions

Source Name	Description
Sline1	Onsite Construction
Haul1A	Haul Route Mt. Etna site to Genesee Ave
	135.1 m
Haul 1B	Genesee Ave from Mt. Etna to Balboa
	246.3 m
Haul 2A	Genesee Ave from Site to Balboa
	145.3 m
Haul C	Balboa from Genesee towards the 805
	810.6 m

Receptor Designations

Residential	#1 - 450
School	#451 - 477

Construction hours per day 12

Phase	Start	End	Days
Demolition	2021/03/01	2021/03/21	15
Site Preparation	2021/03/22	2021/04/30	30
Grading	2021/05/01	2021/06/11	30
Drainage/Utilities/Trenching	2021/06/12	2021/07/22	29
Foundations/Concrete Pour	2021/07/23	2021/09/28	48
Building Construction	2021/09/29	2022/09/22	257
Architectural Coating	2021/11/24	2022/10/25	240
Paving	2022/09/23	2022/10/25	23

	lbs/day	lbs/mile V	lbs/mile H	
Demolition	1.5513		0.000140909	
Site Preparation	1.2418		0.000142857	
Grading	0.8516		0.000142857	
Drainage/Utilities/Trenching	0.7205			
Foundations/Concrete Pour	0.2992		0.0001	
Building Construction	0.3626675	0.09		0.4731
Architectural Coating	0.110925			0.109
Paving	0.7218			

	2021	Days	2022	Days	Average
Building Construction	0.05573	68	0.4731	189	0.3626675
Arch. Coating	0.1255	28	0.109	212	0.110925

Vendor Trips	#	Miles/trip	Total miles	Days	lbs/day
Demolition	0	7.3	0		
Site Preparation	0	7.3	0		
Grading	0	7.3	0		
Drainage/Utilities/Trenching	0	7.3	0		
Foundations/Concrete Pour	0	7.3	0		
BC - 2021	79	7.3	576.7	68	0.09
BC - 2022	79	7.3	576.7	189	0.09
Architectural Coating	0	7.3	0		
Paving	0	7.3	0		

Vendor Trips	#	#/day	Miles/trip	Total miles	lbs/day
Demolition	1639	110	20	2200	0.31
Site Preparation	200	7	20	140	2.00E-02
Grading	200	7	20	140	2.00E-02
Drainage/Utilities/Trenching	0	0	20	0	
Foundations/Concrete Pour	200	5	20	100	1.00E-02
BC - 2021	0	0	20	0	
Architectural Coating	0	0	20	0	
Paving	0	0	20	0	

Unmitigated Residential Health Risk Assessment

2. Risk by Phase Summary

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential Risk by Phase

	Cancer Risk	Non-Cancer Risk	Receptor
Site Demolition and Preparation			
Demolition	1.21	0.035	418
Site Preparation	1.89	0.028	418
Grading	1.30	0.019	418
Trenching	1.06	0.016	418
Max Phase	5.45	0.098	418
Community Plan Amendment and Rezone			
Foundation	0.73	0.007	418
BC	5.93	0.011	426
AC	1.35	0.003	418
Paving	0.84	0.016	418
Max Phase	8.82	0.036	422

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
1	0.14489475	0.36482953	0.032139165	0.05019173	0.034429837	0.028134022	0.019371173	0.287258924	0.035845985	0.022353449
2	0.15158255	0.38560472	0.033622551	0.052508486	0.036019284	0.029432226	0.020265846	0.304453909	0.037500047	0.023384918
3	0.15742193	0.40570519	0.034917736	0.054531387	0.03740724	0.030565564	0.021047306	0.321428442	0.03894405	0.024285394
4	0.16209768	0.42437321	0.035954803	0.056151243	0.038518808	0.031472827	0.021673418	0.337593546	0.040100007	0.025006245
5	0.16662663	0.44405292	0.036959293	0.057720279	0.039595596	0.032351459	0.022280104	0.354848981	0.041219486	0.025704349
6	0.17112052	0.46479344	0.037955997	0.059277199	0.04066414	0.033223182	0.02288227	0.373184046	0.042330161	0.026396962
7	0.17586897	0.48690706	0.039009159	0.060922317	0.041793227	0.034144265	0.023518576	0.392755962	0.043503727	0.027128795
8	0.18090214	0.50972927	0.040125474	0.062666062	0.042989969	0.035120634	0.024192945	0.412884043	0.044747733	0.027904553
9	0.18778077	0.53683259	0.041651136	0.065049069	0.044625201	0.036455366	0.025113983	0.436305229	0.046448336	0.028965044
10	0.19454184	0.56229089	0.043150732	0.067391318	0.046232396	0.037767392	0.026019106	0.458144284	0.048120008	0.030007494
11	0.20301627	0.59192436	0.045030373	0.070327077	0.048246711	0.039412114	0.027153273	0.483241227	0.050215573	0.031314282
12	0.21017867	0.61766874	0.046618995	0.072808328	0.049949215	0.040802131	0.028111946	0.505151484	0.051986615	0.032418698
13	0.21651258	0.64190349	0.048023845	0.075002605	0.051454898	0.042031229	0.028959941	0.525995664	0.053552628	0.03339526
14	0.2207973	0.6605891	0.048974167	0.076487031	0.052473624	0.042862475	0.029533921	0.54238774	0.054611731	0.034055713
15	0.21906679	0.67420697	0.048590156	0.075888022	0.052063771	0.042524843	0.029305184	0.556932789	0.054181549	0.033787453
16	0.21378999	0.66260859	0.04741969	0.074060171	0.050810025	0.041500101	0.028599967	0.548159457	0.052875909	0.03297326
17	0.16194717	0.39551489	0.035921682	0.056098407	0.038480906	0.031446171	0.021649149	0.308814625	0.040066045	0.024985066
18	0.17156275	0.42191688	0.038054499	0.059429313	0.040765923	0.033313019	0.022934988	0.330068923	0.042444624	0.026468341
19	0.18068082	0.44868084	0.040076946	0.062587916	0.04293284	0.035083119	0.024154549	0.351951611	0.044699935	0.027874747
20	0.18903714	0.47548381	0.041930411	0.065482697	0.044918898	0.036705135	0.025272556	0.374281191	0.04676657	0.029163494
21	0.19598608	0.50087706	0.043471684	0.067890012	0.046570694	0.038053688	0.026202718	0.395954592	0.048484782	0.030234966
22	0.20268678	0.52758678	0.044957879	0.070211385	0.048163652	0.039353867	0.027099977	0.419077436	0.05014136	0.031268003
23	0.26483874	0.76164333	0.058743109	0.091742802	0.062937997	0.051414831	0.035420447	0.619863611	0.065508417	0.040850854
24	0.27091986	0.78831744	0.060091859	0.093849588	0.064383842	0.052594568	0.036235094	0.643282614	0.067011539	0.041788196
25	0.26879227	0.81079972	0.059619679	0.09311327	0.063880375	0.052178945	0.035954708	0.666905057	0.066481987	0.041457969
26	0.26209845	0.79892189	0.058134873	0.090794644	0.062290165	0.050878766	0.035060526	0.65861102	0.064825409	0.040424932
27	0.25252132	0.77878793	0.056010529	0.087477212	0.06001475	0.049018829	0.033780727	0.643604417	0.062455634	0.038947148
28	0.17870903	0.42388701	0.039639767	0.061904401	0.042462817	0.034702049	0.023888051	0.32821258	0.044214408	0.027571973
29	0.20758319	0.49647253	0.046044358	0.071906444	0.049323875	0.040308517	0.027748259	0.385340076	0.051357694	0.032026505
30	0.22039215	0.53173216	0.04888549	0.076343558	0.052367761	0.042795344	0.029461144	0.413742439	0.054526198	0.034002375
31	0.23345141	0.57013533	0.051782119	0.080867438	0.055471312	0.045330545	0.031207858	0.445154461	0.057756336	0.03601668
32	0.24637986	0.61116604	0.054649703	0.085346075	0.058544	0.047840078	0.032937513	0.479264162	0.060953771	0.03801059
33	0.25638117	0.64801313	0.056867992	0.08881083	0.060921385	0.049780969	0.034276301	0.510757444	0.063426689	0.039552694
34	0.26458861	0.6822939	0.05868836	0.09165423	0.062872655	0.051373367	0.035375546	0.54064486	0.065455588	0.04081791
35	0.27743326	0.72879677	0.061537305	0.09610398	0.065925858	0.053866118	0.037094826	0.580271818	0.068631639	0.042798486

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
36	0.29052657	0.77491473	0.064441416	0.100639843	0.069038073	0.056407242	0.038847204	0.619380703	0.071869325	0.044817497
37	0.32239259	0.88172886	0.071509383	0.111678922	0.076612058	0.062592225	0.043111283	0.709136193	0.079749706	0.049731679
38	0.33356995	0.9248678	0.073988498	0.11555114	0.079269143	0.064761165	0.044607782	0.746291853	0.082513185	0.051454977
39	0.34179891	0.96176623	0.075813618	0.118402061	0.081225721	0.066357513	0.045710279	0.778785507	0.084547116	0.05272333
40	0.32985394	0.98261704	0.073163625	0.114265555	0.078391183	0.064033578	0.044120755	0.806033251	0.081586155	0.050876884
41	0.31723984	0.96233693	0.070365579	0.109896294	0.075394685	0.061583279	0.04243603	0.792506669	0.078464191	0.048930036
42	0.3004595	0.92700593	0.066643462	0.104083734	0.071407868	0.058324439	0.040193652	0.76615945	0.074312054	0.046340776
43	0.19706171	0.45497099	0.043710723	0.068261422	0.046822638	0.038266929	0.026339443	0.349470673	0.048756476	0.030404393
44	0.21653266	0.49918184	0.048029628	0.075006067	0.051448957	0.042048012	0.028941839	0.383257394	0.053574011	0.033408594
45	0.23762071	0.54803505	0.052707216	0.08231089	0.056459573	0.046143034	0.031760511	0.420820765	0.05879154	0.03666223
46	0.27946411	0.6510739	0.061988539	0.09680544	0.066402211	0.05426792	0.037354273	0.501458319	0.069143581	0.043117731
47	0.29972209	0.70594327	0.066481933	0.103822924	0.071216194	0.058201036	0.040063151	0.54548257	0.074154824	0.046242728
48	0.31648432	0.75698846	0.070199889	0.109629601	0.075199894	0.061454939	0.042305404	0.587554314	0.078300672	0.048828066
49	0.33173842	0.80836959	0.073583286	0.114913956	0.078825539	0.064415635	0.044346633	0.630769575	0.08207294	0.051180441
50	0.35178294	0.87383209	0.07802923	0.121857772	0.083589636	0.068306301	0.047028594	0.685501692	0.087030096	0.054271709
51	0.37128364	0.93837267	0.082354545	0.128613217	0.088224544	0.072091333	0.049637917	0.739603042	0.091852663	0.057279047
52	0.4185126	1.09039154	0.092830114	0.144974203	0.099449557	0.081258731	0.05595684	0.866338857	0.103532984	0.064562861
53	0.43504681	1.15345616	0.096497373	0.150702198	0.103380017	0.084467222	0.05817044	0.920552631	0.107620971	0.067112118
54	0.44669646	1.2075357	0.099081158	0.154738259	0.106150061	0.086726987	0.059731501	0.96839645	0.110500172	0.068907578
55	0.45191415	1.24494442	0.10023827	0.156546267	0.107391707	0.087737908	0.060432594	1.003012832	0.111788202	0.06971079
56	0.45226951	1.2665349	0.100316899	0.156669869	0.107477699	0.08780504	0.060483115	1.024413918	0.111873735	0.069764129
57	0.41013419	1.21292007	0.090970358	0.142075426	0.097469459	0.079618946	0.054857629	0.993358737	0.101443709	0.063259995
58	0.38559973	1.16806401	0.085528203	0.133577073	0.09164086	0.074853596	0.051580048	0.961638098	0.095372105	0.059473761
59	0.35848153	1.11479913	0.079512963	0.124183659	0.085198169	0.069586735	0.047956765	0.922891792	0.088661517	0.055289058
60	0.21291836	0.48063976	0.047228026	0.073753837	0.05058942	0.04134708	0.028457264	0.366649873	0.052680943	0.03285168
61	0.2386661	0.53543876	0.052939236	0.082672642	0.056706835	0.04634739	0.031898053	0.407664197	0.059051914	0.036824598
62	0.26726073	0.59661972	0.059281923	0.092577593	0.063500669	0.051900547	0.035719332	0.453536337	0.066127276	0.041236772
63	0.29943455	0.66634756	0.066418516	0.103722369	0.071144953	0.058148713	0.04001905	0.506039192	0.074088158	0.046201155
64	0.33323594	0.74139332	0.07391611	0.115430967	0.079176071	0.064712791	0.044536538	0.562988691	0.082451551	0.051416542
65	0.42780442	0.97725064	0.094892404	0.148189556	0.101647229	0.083075231	0.057179196	0.748217899	0.105847414	0.066006132
66	0.46162036	1.07270271	0.102393036	0.159903693	0.109683333	0.089640296	0.061701594	0.825566751	0.114212064	0.071222303
67	0.49356721	1.16768897	0.109479046	0.170970481	0.117275625	0.095842062	0.06597473	0.903450594	0.122113828	0.07614982
68	0.56923539	1.39617006	0.126262683	0.197182965	0.135258717	0.110531027	0.076096436	1.091423651	0.140829261	0.087820708
69	0.5959996	1.49641935	0.132198958	0.206454927	0.141620885	0.115724833	0.079679363	1.177345852	0.147446768	0.091947366
70	0.6118105	1.57668183	0.135705603	0.211932831	0.145380899	0.118791163	0.081799032	1.249145498	0.151353626	0.094383671
71	0.61496358	1.63004008	0.136404568	0.213026177	0.146133542	0.119399295	0.082227185	1.300817584	0.152128457	0.094866853

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
72	0.6073053	1.65194505	0.134705499	0.210374348	0.144316876	0.117908581	0.081209336	1.326824174	0.150229115	0.093682429
73	0.22478512	0.49915685	0.049860302	0.077864218	0.053408341	0.043652258	0.030042092	0.378813533	0.055618005	0.034683222
74	0.25584872	0.5621785	0.056750674	0.088624319	0.060788523	0.049685207	0.034192815	0.425204394	0.063304678	0.039476609
75	0.29346951	0.63811642	0.065095532	0.101655749	0.069726552	0.056991681	0.039219653	0.481000949	0.072613967	0.045281854
76	0.33918269	0.73022025	0.075235403	0.117490288	0.080587173	0.065869822	0.04532776	0.548630909	0.083925742	0.052335843
77	0.39259193	0.83807964	0.087082377	0.135990667	0.09327626	0.076242626	0.052464237	0.627896124	0.097141889	0.060577393
78	0.44814691	0.95160701	0.099405295	0.155234338	0.106475235	0.08703204	0.059887619	0.711680594	0.110888845	0.069149954
79	0.50931035	1.08009673	0.112972221	0.176420808	0.121006955	0.098910367	0.068060927	0.807424904	0.126023201	0.078587693
80	0.6926803	1.51255852	0.153645856	0.239939678	0.164577059	0.134517704	0.092571641	1.14171688	0.171391051	0.106878949
81	0.82715468	1.87865483	0.183473418	0.28652245	0.196532875	0.160625934	0.110553705	1.435822343	0.204655943	0.127622837
82	0.87120943	2.04121423	0.193244742	0.301784338	0.207005024	0.169175328	0.116450961	1.57479879	0.215548856	0.134415625
83	0.88326124	2.16300923	0.195917109	0.305961341	0.209875633	0.17150716	0.118075499	1.690145502	0.218519879	0.136268347
84	0.87947172	2.24836681	0.19507567	0.304650969	0.208982289	0.17076279	0.117582689	1.777535737	0.217571466	0.135676919
85	0.84644146	2.25912807	0.187748341	0.293211543	0.201140699	0.164340872	0.113180504	1.805983879	0.209389203	0.130574484
86	0.22668934	0.49873036	0.050282725	0.078523714	0.053860429	0.044022468	0.030295909	0.377367392	0.056089696	0.034977367
87	0.26676477	0.57844422	0.05917207	0.092405375	0.063381547	0.051805773	0.035650562	0.435625664	0.066006523	0.041161471
88	0.3156332	0.67389823	0.070011855	0.10933279	0.074991577	0.061296982	0.042179831	0.504916418	0.078099417	0.048702564
89	0.37482948	0.78754565	0.083142535	0.129837589	0.089055117	0.072794239	0.050088706	0.586871164	0.092748246	0.05783753
90	0.44759132	0.92532522	0.09928229	0.15504127	0.106341348	0.086926407	0.059809718	0.685695223	0.110754256	0.069066025
91	0.53785291	1.09474065	0.119303789	0.186306586	0.127784933	0.1044576	0.071868488	0.806785987	0.133091016	0.082995162
92	0.64559934	1.29647819	0.143203716	0.223628385	0.15338238	0.125384858	0.086263125	0.950837726	0.159754753	0.099622589
93	0.76730941	1.52655832	0.170200987	0.265787039	0.18229735	0.149024031	0.102523586	1.115756225	0.189873783	0.118404726
94	0.90281773	1.78975771	0.20025887	0.312725388	0.214490935	0.175342541	0.120628519	1.306406907	0.223406596	0.139315688
95	1.33465087	3.3392038	0.296039661	0.462324262	0.317137644	0.259149307	0.178428152	2.624686522	0.330186071	0.205903051
96	1.22343801	3.31714442	0.271369092	0.423806301	0.290730643	0.237531977	0.163597514	2.662176464	0.302643102	0.188727338
97	0.23215319	0.50849832	0.051494703	0.080416304	0.055158449	0.045083738	0.031025799	0.384210057	0.057441876	0.035820583
98	0.27206015	0.58630638	0.060346692	0.09423957	0.064639424	0.052834465	0.036357712	0.440652667	0.067317194	0.041978802
99	0.32390118	0.68543393	0.071845865	0.112196601	0.076955514	0.062903202	0.043283837	0.512025408	0.080145926	0.049978761
100	0.61804488	1.22238156	0.137091893	0.214083368	0.146834545	0.12003507	0.082578645	0.89149241	0.152938507	0.095371998
101	0.7872536	1.51811079	0.174625362	0.272694297	0.18703208	0.152901862	0.105181411	1.096629	0.194814587	0.121485797
102	1.01969615	1.91694234	0.226185273	0.353208129	0.242251	0.198051745	0.136229821	1.371012846	0.252340738	0.157358933
103	1.34464178	2.46740711	0.298264087	0.465763159	0.319444371	0.261170163	0.179633258	1.747504291	0.332760873	0.207508691
104	0.22679027	0.4973666	0.050305129	0.078558639	0.053884292	0.044042213	0.030309168	0.375949521	0.056114852	0.034993055
105	0.26899989	0.57976821	0.059667885	0.093179521	0.063912335	0.052240153	0.035948752	0.435752882	0.066559973	0.041506601
106	0.32540541	0.68760808	0.072179533	0.112717628	0.077312827	0.063195422	0.043484704	0.513394188	0.080518247	0.050210939
107	1.26724615	2.30288382	0.281096648	0.438953956	0.301055927	0.246139617	0.169290552	1.624416638	0.313610227	0.195566405

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
108	1.93223424	3.35708123	0.428603698	0.669291502	0.459023612	0.375315431	0.258103403	2.322581691	0.478195094	0.298201038
109	0.21652258	0.47746711	0.048027594	0.075002044	0.051444934	0.042048012	0.028937334	0.361547166	0.053574011	0.033408594
110	0.2581835	0.55937156	0.057268633	0.089432877	0.061342661	0.050139332	0.03450369	0.421147163	0.063883285	0.039837427
111	0.31309492	0.66496508	0.06944886	0.108453461	0.074388239	0.060804356	0.041840114	0.497342059	0.077471754	0.048311155
112	1.40098621	2.53117087	0.310762595	0.485279029	0.332827052	0.272117533	0.187154648	1.781100384	0.346709085	0.216206754
113	2.373921	4.05623741	0.52657826	0.82228225	0.563946064	0.461114423	0.317092968	2.785260254	0.587512895	0.366371293
114	0.20409995	0.45392722	0.045272052	0.070699016	0.048493653	0.039635227	0.027277662	0.344658164	0.050499845	0.031491553
115	0.24212675	0.5293071	0.053706983	0.083871052	0.05752804	0.047020679	0.032358551	0.399679234	0.059909762	0.037359549
116	0.2936636	0.62955405	0.065138666	0.101722759	0.069771991	0.057030183	0.039244283	0.4723343	0.072663023	0.045312445
117	0.36434678	0.76395615	0.080817338	0.126206439	0.086564433	0.070758575	0.048687668	0.568893779	0.090154576	0.056220125
118	1.35972962	2.49978361	0.30161078	0.470989469	0.323029117	0.264100255	0.181649554	1.771803157	0.336494149	0.20983675
119	2.41205729	4.20338754	0.535036812	0.835493965	0.573011833	0.468514684	0.322198904	2.911995906	0.596941679	0.372251055
120	0.19026925	0.42751162	0.04220418	0.06590825	0.045207838	0.03694898	0.025429842	0.325647282	0.047077257	0.029357237
121	0.22464168	0.49647696	0.049828507	0.077814474	0.053374083	0.043624615	0.030022578	0.376210334	0.055582785	0.034661259
122	0.27090288	0.58762421	0.060089958	0.093838792	0.064364751	0.052609377	0.036203611	0.442590233	0.067030406	0.041799962
123	0.33296609	0.70708473	0.073856567	0.115336668	0.079109426	0.06466343	0.044495566	0.528823181	0.082388658	0.051377322
124	1.18075162	2.22947363	0.261909918	0.408995674	0.280513963	0.229332062	0.157748003	1.597317939	0.292195465	0.182212223
125	2.03781928	3.70540008	0.452022792	0.705868314	0.484118877	0.395809296	0.272231214	2.614378108	0.504306639	0.31448412
126	0.17713487	0.40233952	0.039290766	0.061358679	0.042087446	0.034397983	0.023675039	0.307507101	0.043826993	0.027330382
127	0.20744619	0.46389677	0.046014268	0.071858197	0.049288902	0.040284823	0.02772525	0.352836334	0.051327505	0.03200768
128	0.24757764	0.54394799	0.054916037	0.085759268	0.058823346	0.048078988	0.03308742	0.411401991	0.061258169	0.038200412
129	0.30229167	0.65101276	0.067052465	0.104711529	0.071822171	0.058705509	0.040397743	0.489173882	0.074797581	0.046643549
130	0.37817001	0.79615387	0.083883497	0.130994758	0.089848908	0.073442848	0.050535334	0.593691019	0.093574648	0.058352872
131	0.49089784	1.00764499	0.108888377	0.170042053	0.116629824	0.095337589	0.065595535	0.744829383	0.121471071	0.075748998
132	0.66652828	1.33076698	0.147846143	0.230877745	0.158354125	0.129450263	0.089058462	0.973921282	0.164934547	0.102852693
133	0.96495531	1.87248571	0.214042317	0.334248119	0.22925051	0.187414364	0.12892504	1.355866009	0.238787489	0.148907168
134	1.51847166	2.87206176	0.336821673	0.525977246	0.360747284	0.29492546	0.202867998	2.059096311	0.375769011	0.234328437
135	2.72717282	5.11867297	0.604931584	0.944653372	0.647898611	0.52968925	0.36434486	3.658586636	0.674885124	0.420856355
136	0.16463583	0.37829512	0.036518278	0.057029175	0.039117984	0.031970389	0.022005107	0.29015448	0.040733959	0.025401576
137	0.19187729	0.43452893	0.042560834	0.066465352	0.045590164	0.037260944	0.025645255	0.331803834	0.047474735	0.029605103
138	0.22622452	0.50391198	0.050179566	0.078362858	0.053750457	0.043931643	0.030234693	0.382798114	0.055973974	0.034905204
139	0.27235897	0.59551028	0.060412896	0.094343289	0.064711064	0.052891724	0.036398892	0.449696945	0.067390149	0.042024296
140	0.33679684	0.72148828	0.074706224	0.116663762	0.080020045	0.065406812	0.045008397	0.541176103	0.083335814	0.051967965
141	0.42829045	0.89742854	0.095000964	0.148355932	0.101756637	0.083176915	0.057232374	0.66813227	0.105976972	0.066086924
142	0.56083734	1.14817225	0.124402017	0.194268314	0.133246152	0.108920858	0.074940661	0.847912495	0.13877772	0.086541374
143	0.7646151	1.53161222	0.169603251	0.264854017	0.181658018	0.148499813	0.102165104	1.12225303	0.189205869	0.117988217

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
144	1.07141722	2.11868251	0.23765688	0.371126126	0.254546309	0.208087904	0.143154892	1.545066651	0.265127961	0.165333008
145	1.55870989	3.08368363	0.345745905	0.539918521	0.370316954	0.30272851	0.20826356	2.249180851	0.385710995	0.240528229
146	0.15288905	0.35567474	0.033912656	0.052960247	0.036327241	0.029688906	0.020435677	0.273823116	0.037827086	0.023588858
147	0.17624714	0.40447841	0.039093816	0.061051274	0.041876831	0.034225218	0.023556994	0.310121427	0.04360687	0.027193115
148	0.20620807	0.46610077	0.045739592	0.071429442	0.0489951	0.040043939	0.0275605	0.355703392	0.051020592	0.031816289
149	0.24608605	0.54711682	0.054585122	0.085242749	0.058469434	0.047788743	0.032889016	0.415369642	0.060888363	0.037969802
150	0.29758845	0.64973928	0.066009142	0.103082583	0.070705385	0.057791336	0.039770501	0.490418751	0.07363282	0.045917207
151	0.367969	0.78860198	0.081620637	0.127461558	0.087426307	0.071460494	0.049174187	0.591601065	0.091048901	0.056777824
152	0.45607554	0.96509716	0.101164008	0.157980667	0.108358748	0.088572116	0.060946666	0.720925818	0.112851079	0.070373597
153	0.58963801	1.22654612	0.130790251	0.204245046	0.140090196	0.114512517	0.078791913	0.91086793	0.145902138	0.090984139
154	0.74360484	1.54093264	0.164942378	0.257577559	0.176670236	0.144414664	0.099365274	1.142824024	0.184000918	0.114742425
155	0.96027776	2.00312173	0.213003464	0.332631298	0.22814972	0.18649328	0.128320427	1.489012043	0.237613922	0.148175335
156	0.14191479	0.33432565	0.031478391	0.049158901	0.033720012	0.027557481	0.018969428	0.25834945	0.035111405	0.021895368
157	0.16277224	0.37872911	0.036104867	0.056383752	0.038675544	0.031608077	0.021756708	0.291586362	0.040272331	0.025113706
158	0.18804168	0.43153588	0.041709993	0.065136854	0.044679247	0.036515587	0.025133438	0.330864485	0.046525064	0.029012892
159	0.22052412	0.49875704	0.048915072	0.076388456	0.05239662	0.042823973	0.029473938	0.380695302	0.054562675	0.034025122
160	0.262085	0.58395332	0.058133889	0.090784722	0.062270841	0.050895549	0.035027435	0.443640822	0.064846792	0.040438267
161	0.31507273	0.6917989	0.069887356	0.109139113	0.074859846	0.061186413	0.042107712	0.52311794	0.077958539	0.048614713
162	0.37847693	0.82279339	0.083951334	0.131101707	0.089923778	0.073500107	0.050580132	0.620167285	0.093647603	0.058398367
163	0.45602926	0.98575467	0.10115355	0.157965146	0.108349311	0.088561256	0.060943504	0.741608953	0.112837243	0.070364969
164	0.54318545	1.17170957	0.120486011	0.188155341	0.129056817	0.105487279	0.072590654	0.880902694	0.134402946	0.083813277
165	0.66451856	1.44306615	0.147399275	0.230184449	0.157885383	0.129049448	0.088806867	1.087301189	0.164423863	0.102534232
166	0.1317689	0.3142533	0.029227877	0.045644488	0.031309562	0.025586974	0.017613808	0.243709013	0.032600752	0.020329732
167	0.14927149	0.35199013	0.033110193	0.051707252	0.035468045	0.028985999	0.01995283	0.272075426	0.036931502	0.023030375
168	0.17082038	0.3980408	0.037890036	0.059171613	0.040587868	0.033170859	0.022832535	0.30658938	0.042263495	0.02635539
169	0.19718311	0.4539346	0.043737664	0.068303443	0.046851385	0.038290623	0.026355478	0.348369234	0.048786664	0.030423219
170	0.229473	0.52206601	0.050900018	0.079488377	0.054523106	0.044561494	0.030670438	0.399213456	0.056776477	0.035405642
171	0.26835611	0.60417734	0.059524844	0.09295715	0.063761311	0.052112801	0.035866473	0.460507743	0.066397712	0.041405415
172	0.30941154	0.69455123	0.068631488	0.107178488	0.073515913	0.060085654	0.041353337	0.528901727	0.076556045	0.047740122
173	0.35923071	0.80323403	0.079682055	0.124435502	0.085352668	0.069760487	0.048011288	0.610912733	0.088882897	0.05542711
174	0.41479171	0.92972108	0.092006186	0.143681573	0.098554045	0.080549902	0.055437359	0.707654195	0.102629854	0.063999671
175	0.48273375	1.08862884	0.107076552	0.167216488	0.114697495	0.093743216	0.064518851	0.830188117	0.119439656	0.074482214
176	0.1220447	0.29454623	0.027070903	0.042276128	0.028999258	0.023698407	0.016314462	0.229208068	0.0301945	0.0188292
177	0.13702616	0.32751279	0.030393993	0.047465611	0.032558792	0.026607767	0.018316662	0.254153978	0.033901361	0.021140788
178	0.154712	0.36616521	0.03431695	0.053591864	0.036760853	0.030042333	0.020680249	0.283337901	0.038277393	0.023869669
179	0.17578346	0.41210614	0.038990886	0.060890871	0.041767312	0.034134393	0.023496285	0.317997757	0.043491149	0.027120951

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
180	0.20063712	0.46630395	0.044503764	0.069500004	0.0476724	0.03896095	0.026817783	0.358889612	0.049640739	0.030955817
181	0.22923752	0.52898271	0.050847718	0.079406992	0.054467716	0.044515095	0.03064005	0.40625652	0.056717359	0.035368776
182	0.25823602	0.59592696	0.057279943	0.089451961	0.061357873	0.050146243	0.034516014	0.457675934	0.06389209	0.039842917
183	0.29030595	0.67159102	0.064393434	0.100560901	0.068977936	0.056373677	0.038802745	0.516170887	0.071826558	0.044790828
184	0.32475138	0.75560146	0.072033815	0.112492777	0.077162643	0.063062146	0.043407405	0.581740564	0.080348439	0.050105047
185	0.36665918	0.85515631	0.081329457	0.127009546	0.087120311	0.071199866	0.049009246	0.658859491	0.090716831	0.056570746
186	0.29822516	0.82890825	0.066148721	0.103307491	0.070870005	0.057898944	0.039881477	0.669254146	0.073769924	0.046002705
187	0.26615566	0.77604442	0.059035113	0.092199257	0.063251755	0.051669536	0.035598122	0.633560134	0.065832941	0.041053226
188	0.23648565	0.72849322	0.052453743	0.081922193	0.056203616	0.045906099	0.031635453	0.601894132	0.058489658	0.036473977
189	0.11280326	0.27551624	0.025021016	0.039074985	0.026803629	0.021903626	0.015079579	0.215125735	0.027907743	0.017403186
190	0.12533979	0.3037378	0.027801781	0.043417575	0.029782305	0.02433813	0.016755118	0.236635622	0.031009582	0.019337483
191	0.13979795	0.33620295	0.031008787	0.048425802	0.033217551	0.027145806	0.018687474	0.261360314	0.034586885	0.021568278
192	0.15646755	0.37366906	0.03470632	0.054200062	0.037178237	0.030382927	0.020915399	0.289902027	0.038711349	0.024140282
193	0.17545543	0.41656512	0.038918077	0.060777371	0.041689763	0.034070223	0.0234532	0.322632564	0.043409389	0.027069966
194	0.19479498	0.4621484	0.043207819	0.067476539	0.046284985	0.037825638	0.026038277	0.357862135	0.048194221	0.030053773
195	0.21637684	0.51359458	0.047994927	0.074952453	0.051413042	0.042016421	0.028923163	0.397754159	0.05353376	0.033383494
196	0.23815298	0.56782364	0.052825106	0.082495719	0.056587434	0.046244718	0.031834356	0.440325167	0.058921098	0.036743022
197	0.28711052	0.69113358	0.063684399	0.099454677	0.06822071	0.055750736	0.038379561	0.537425283	0.07103286	0.04429588
198	0.30785797	0.79394062	0.068285929	0.106642857	0.073154505	0.059774677	0.041160677	0.629127079	0.076159824	0.04749304
199	0.29140648	0.76685358	0.064636684	0.100944392	0.069246385	0.05657902	0.038963343	0.610848071	0.072088189	0.04495398
200	0.27180919	0.7349213	0.060289639	0.094156292	0.064590991	0.052772269	0.03634589	0.589408077	0.06723795	0.041929386
201	0.25041779	0.69993468	0.055544629	0.086746746	0.059509391	0.048617027	0.033488794	0.56587429	0.061943693	0.038627903
202	0.22863506	0.66432163	0.050712814	0.079201652	0.054334831	0.044385768	0.030579432	0.54192359	0.056552581	0.035266022
203	0.20745719	0.62983102	0.046015166	0.071866071	0.049303966	0.040271989	0.027750876	0.518771506	0.051311153	0.031997483
204	0.10416157	0.2575567	0.023104165	0.036081587	0.02475048	0.020225339	0.013924813	0.201792751	0.025769411	0.016069728
205	0.11446153	0.28133126	0.025388823	0.039649452	0.02719779	0.022225462	0.015301514	0.220053048	0.0283178	0.017658896
206	0.12623075	0.30854753	0.027999382	0.043726268	0.029994207	0.024510895	0.016874605	0.240968468	0.031229704	0.019474751
207	0.13961165	0.33965336	0.030967427	0.048361364	0.033173576	0.027109279	0.018663138	0.264910619	0.034540344	0.021539256
208	0.1538367	0.37321476	0.034122714	0.053288886	0.03655356	0.029871543	0.020564577	0.290856426	0.038059787	0.02373397
209	0.16848939	0.40902965	0.037372844	0.058364571	0.040035246	0.032716734	0.022523357	0.318826831	0.041684888	0.025994572
210	0.18397636	0.44788569	0.040808015	0.063729273	0.043715242	0.03572383	0.02459381	0.349391787	0.045516275	0.028383814
211	0.21581548	0.52957421	0.047870248	0.07475842	0.051280955	0.041905851	0.028850645	0.414035038	0.053392882	0.033295642
212	0.22872133	0.56571418	0.050732868	0.079229116	0.054347914	0.044411436	0.030576577	0.443265902	0.056585285	0.035286416
213	0.25381805	0.65121776	0.056299374	0.087923197	0.060313061	0.049282418	0.033935039	0.515334664	0.062791478	0.039156579
214	0.25179789	0.65349143	0.055851212	0.08722359	0.059833582	0.048889502	0.033666033	0.518690145	0.062290857	0.038844393
215	0.24734373	0.65270867	0.054863137	0.08568092	0.05877597	0.048023703	0.033072069	0.520292387	0.06118773	0.038156486

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
216	0.23777961	0.63871909	0.052741622	0.082368143	0.056504105	0.04616574	0.031794899	0.511423446	0.058820471	0.036680271
217	0.22541974	0.61911143	0.049999967	0.078086951	0.053568021	0.043764802	0.030144168	0.498433216	0.055761399	0.034772642
218	0.21135717	0.59643753	0.046880624	0.07321597	0.050227434	0.041033142	0.028265978	0.483288359	0.05228095	0.032602245
219	0.19646607	0.57215694	0.043577499	0.068057996	0.046690008	0.038140564	0.02627709	0.466980389	0.048595472	0.030303992
220	0.18010332	0.53930395	0.039947993	0.062390123	0.042802523	0.034962677	0.024090748	0.442887668	0.044546478	0.027779051
221	0.0959061	0.24014754	0.021272985	0.033221965	0.022789072	0.018622081	0.01282162	0.188803358	0.023726676	0.014795884
222	0.10459982	0.2608063	0.023201354	0.036233451	0.024854779	0.02031024	0.013983717	0.204807808	0.025877586	0.016137186
223	0.11432056	0.28398896	0.025357528	0.039600697	0.02716452	0.02219782	0.015283107	0.222786338	0.02828258	0.017636933
224	0.1246464	0.30880643	0.027647916	0.04317755	0.029618052	0.02420288	0.016663409	0.24207574	0.030837257	0.019230022
225	0.13546064	0.33552148	0.030046633	0.046923605	0.03218769	0.026302714	0.018109105	0.263001272	0.033512687	0.020898412
226	0.15882881	0.39509258	0.035229929	0.055018386	0.03774048	0.030840013	0.021233333	0.310062064	0.03929373	0.024503453
227	0.17002063	0.42562957	0.037712369	0.058895305	0.040400054	0.033012902	0.022729926	0.334607513	0.04206224	0.026229888
228	0.17868053	0.45001351	0.039633202	0.06189517	0.042458011	0.034694151	0.023888055	0.354355406	0.044204345	0.027565698
229	0.18843931	0.47854804	0.041797763	0.065275719	0.044777184	0.036588642	0.025193296	0.377665667	0.046618144	0.029070936
230	0.20473277	0.53717607	0.045411658	0.070920226	0.048650151	0.039750733	0.027374153	0.427571581	0.050647013	0.031583326
231	0.20420166	0.54176588	0.045293798	0.070736395	0.048524394	0.039647074	0.027304012	0.432445965	0.050514939	0.031500966
232	0.20234952	0.54498027	0.044882901	0.070095005	0.048084881	0.039286736	0.027057544	0.436652234	0.050055827	0.031214665
233	0.19642429	0.53686679	0.043568561	0.068042664	0.046677441	0.038135628	0.026266383	0.431711152	0.048589183	0.03030007
234	0.18868458	0.5255557	0.041851735	0.065361817	0.044838946	0.03663208	0.025232841	0.424543924	0.046673489	0.029105449
235	0.17943521	0.5113333	0.039800046	0.062158048	0.042641796	0.034835325	0.023997601	0.415273613	0.044384217	0.027677866
236	0.16815097	0.48955555	0.03729702	0.058249332	0.039960935	0.032643679	0.022489961	0.39953725	0.041591807	0.025936527
237	0.15789532	0.47372553	0.035022119	0.054697009	0.037524743	0.030651453	0.021120325	0.389198084	0.039053482	0.024353635
238	0.91098048	1.95751162	0.202068083	0.315556578	0.216441609	0.176914207	0.121741239	1.469796866	0.22540908	0.140564432
239	0.92751081	2.00128115	0.205734662	0.321282758	0.220369701	0.180123685	0.123951513	1.504716839	0.229498325	0.143114473
240	0.94305034	2.04396807	0.209181458	0.326665758	0.224062465	0.183140654	0.126029532	1.539084692	0.233342291	0.145511558
241	0.95748217	2.08536615	0.212382542	0.331665087	0.227492131	0.185942407	0.12795968	1.572756779	0.236912047	0.147737647
242	0.97155368	2.1273071	0.21550369	0.336539637	0.230836288	0.188674067	0.129841867	1.60716469	0.240392496	0.149908045
243	0.98480229	2.16882946	0.218442294	0.341129173	0.233985031	0.191245795	0.13161428	1.641594629	0.243669174	0.151951372
244	0.99411183	2.09386359	0.220508161	0.344351598	0.236189774	0.193062295	0.132844557	1.561640788	0.245983604	0.153394644
245	1.01492226	2.14638183	0.225124131	0.351560363	0.241134751	0.197103019	0.135626749	1.603017989	0.251131952	0.156605138
246	1.03333394	2.1951497	0.229208009	0.357938249	0.245509907	0.200677771	0.138088581	1.641929119	0.255686598	0.159445402
247	1.05036864	2.24238759	0.232986443	0.363839198	0.249558013	0.203984985	0.140366606	1.680047521	0.259900369	0.162073097
248	1.06670256	2.28971897	0.23660942	0.369497442	0.253439739	0.207155961	0.142551213	1.718634649	0.263940558	0.164592547
249	1.08187823	2.33624837	0.239975463	0.374754516	0.257046399	0.210101849	0.144581279	1.757039981	0.267693959	0.166933156
250	1.09597704	2.38229385	0.243102628	0.37963862	0.260397345	0.212838445	0.146467704	1.795537978	0.271180697	0.169107476
251	1.10821097	2.42598938	0.245816122	0.383876786	0.263305335	0.215212728	0.148105151	1.832684493	0.274205807	0.170993926

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
252	1.10916176	2.29711064	0.246028237	0.384202926	0.26352141	0.215409186	0.148213151	1.703291353	0.274456118	0.171150019
253	1.1342629	2.3593292	0.251595941	0.39289797	0.26948586	0.220283131	0.151568813	1.752071771	0.280666084	0.175022535
254	1.15742315	2.41954543	0.256733108	0.400920757	0.274989333	0.224779954	0.154665414	1.799889042	0.286395555	0.178595416
255	1.17710219	2.47442762	0.261098075	0.407737733	0.279665859	0.228600526	0.157297108	1.844236112	0.291263404	0.181630992
256	1.19439295	2.52624968	0.264933267	0.413727475	0.283775103	0.231957101	0.159609938	1.886801765	0.295540067	0.184297907
257	1.20999192	2.57664497	0.268393178	0.419131251	0.287482559	0.234984929	0.161697004	1.928846481	0.299397869	0.186703621
258	1.2241839	2.62648933	0.271540977	0.424047719	0.290855913	0.237739295	0.163596404	1.971093617	0.302907249	0.188892059
259	1.23757921	2.6776921	0.274512032	0.428688296	0.294040211	0.240338666	0.165389784	2.015125822	0.306219147	0.190957349
260	1.24887652	2.72761499	0.277017693	0.432602226	0.296726286	0.242530312	0.166903264	2.059001485	0.309011557	0.192698687
261	1.27830411	2.61395729	0.283546786	0.442791384	0.30370477	0.24826117	0.170810142	1.929581768	0.31631333	0.197252052
262	1.30274116	2.67873267	0.288967149	0.451256491	0.309511737	0.253005788	0.174077637	1.981274704	0.322358519	0.201021814
263	1.32511569	2.74203448	0.293929986	0.459007225	0.314828886	0.257349591	0.177069931	2.032598407	0.327893024	0.204473115
264	1.34281471	2.79814543	0.297855706	0.465138471	0.319035387	0.260785144	0.179437818	2.079234521	0.332270315	0.20720278
265	1.36023576	2.85715561	0.301719735	0.471173516	0.323176107	0.264166399	0.181769066	2.128918812	0.336578424	0.209889304
266	1.37660681	2.91883121	0.305350815	0.47684497	0.327067725	0.267343299	0.183960712	2.181830876	0.34062616	0.21241346
267	1.38701061	2.96938082	0.307658259	0.480449456	0.329541699	0.269361193	0.185355155	2.226811729	0.343197189	0.214016746
268	1.39459975	3.01734543	0.309341341	0.48307905	0.331347193	0.270832162	0.186373959	2.270714611	0.345071374	0.215185482
269	1.39912511	3.0621229	0.310344803	0.484647459	0.332425013	0.271707834	0.186983821	2.313070768	0.34618708	0.215881233
270	1.40107508	3.10556581	0.310776969	0.485323876	0.332891256	0.27208298	0.187250125	2.35547132	0.34666506	0.2161793
271	1.47943853	2.99189482	0.328161688	0.512461458	0.351488612	0.287326767	0.197681362	2.199835047	0.3660874	0.228291014
272	1.50041698	3.05628926	0.332814821	0.519728707	0.356474374	0.291399082	0.200487685	2.252998971	0.371275999	0.231526608
273	1.52006555	3.1221102	0.337172927	0.526535397	0.361144487	0.295212744	0.203116908	2.308301556	0.376135043	0.234556694
274	1.53876619	3.19166155	0.341320713	0.53301387	0.36558981	0.298841793	0.205620292	2.367842286	0.380758871	0.237440099
275	1.54937045	3.24739581	0.343672579	0.536687912	0.36811177	0.300898189	0.207042217	2.417900664	0.383378956	0.239073976
276	1.55616401	3.29909262	0.345179139	0.539042056	0.369728648	0.302214164	0.207955493	2.465961903	0.385055659	0.240119564
277	1.55940141	3.34810562	0.345896849	0.540164498	0.370500985	0.302839079	0.208394255	2.513243412	0.385851873	0.24061608
278	1.55924059	3.39551349	0.345860733	0.540109961	0.370466359	0.302803539	0.208379716	2.560739342	0.385806591	0.240587842
279	1.55517238	3.43845009	0.344957867	0.538702028	0.369503662	0.302008821	0.207843574	2.605856079	0.384794028	0.239956411
280	1.53785838	3.46784536	0.341116763	0.532706225	0.365394994	0.298640399	0.205539469	2.644523537	0.380502271	0.237280084
281	1.5265911	3.50449787	0.338616958	0.528804816	0.362722546	0.296446778	0.204042598	2.687210751	0.377707346	0.235537177
282	1.71202856	3.43494691	0.379753905	0.593027454	0.406745869	0.33250133	0.228755873	2.51836228	0.423644998	0.26418376
283	1.7278785	3.50087308	0.383269346	0.598518532	0.410514079	0.335576545	0.230878662	2.575804119	0.427563176	0.266627124
284	1.73982219	3.56479219	0.385918267	0.602656671	0.413354675	0.337892582	0.232480358	2.633330464	0.430514073	0.268467295
285	1.74621251	3.6230308	0.387335314	0.604871318	0.414876303	0.339129578	0.233340824	2.688149691	0.43209015	0.269450132
286	1.74770032	3.67734637	0.387664854	0.605387933	0.415233629	0.3394139	0.233547093	2.741670829	0.432452408	0.269676035
287	1.74405692	3.72741985	0.386856161	0.604127309	0.414372334	0.338701121	0.233068629	2.793697262	0.431544246	0.269109708

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
288	1.73568806	3.77205181	0.384999248	0.601229931	0.412388657	0.337070221	0.231959351	2.842812267	0.429466291	0.267813901
289	1.70683335	3.79607908	0.378598075	0.591236991	0.405539467	0.331458817	0.228115803	2.882291118	0.422316716	0.263355448
290	1.69167335	3.8380006	0.375234684	0.585987509	0.401943164	0.328507993	0.226100703	2.932331957	0.418557026	0.261010916
291	1.67474095	3.87987056	0.371478116	0.580124173	0.397926034	0.325212626	0.223849291	2.983270286	0.414358349	0.258392634
292	1.65324593	3.9170539	0.366709448	0.572680507	0.392825248	0.321030728	0.220988887	3.03196491	0.40903013	0.255069972
293	1.97236847	4.00111144	0.437500841	0.683207348	0.468601038	0.383059247	0.263548056	2.945148006	0.488061608	0.304353767
294	1.97012989	4.05799584	0.437003719	0.682433432	0.468073799	0.382618943	0.26325788	3.003233424	0.48750061	0.30400393
295	1.96129173	4.10908277	0.43504264	0.679373676	0.465979181	0.38089623	0.262086971	3.059054942	0.485305676	0.302635176
296	1.93543323	4.14388634	0.429306026	0.670418704	0.459842191	0.375866304	0.25864446	3.10770618	0.47889697	0.298638726
297	1.90950927	4.17990099	0.42355488	0.661441092	0.45368975	0.370823544	0.255193399	3.157603595	0.472471913	0.294632079
298	1.88825232	4.22669614	0.418838935	0.654080115	0.448646211	0.366687059	0.252366135	3.215782955	0.467201554	0.291345499
299	1.86197666	4.2708807	0.413009694	0.644980895	0.442410879	0.361575192	0.248869373	3.274038938	0.460688448	0.287283946
300	1.83204909	4.31395512	0.406370346	0.634616845	0.435308387	0.355753509	0.244885558	3.333140194	0.453270953	0.282658418
301	1.79879441	4.35547151	0.398992949	0.62310045	0.427415823	0.349285192	0.240457932	3.392464893	0.445029571	0.277519117
302	1.76216768	4.41748031	0.390868301	0.610418206	0.418720805	0.342160368	0.235584298	3.474086089	0.435951725	0.271858199
303	1.72391113	4.48342836	0.382382394	0.597172096	0.409637996	0.334718644	0.230494138	3.560518617	0.426470111	0.265945492
304	2.21803988	4.55209318	0.491993946	0.768306586	0.526972315	0.430767037	0.296382353	3.364604749	0.548846828	0.342259249
305	2.19431449	4.59817873	0.486730422	0.760090669	0.521342636	0.426150759	0.29322588	3.423396233	0.542965158	0.338591457
306	2.15661868	4.63415525	0.478367883	0.747036	0.512395195	0.418819604	0.288205335	3.479558891	0.533624423	0.332766603
307	2.11762933	4.67326294	0.469718362	0.733533399	0.503140861	0.411236706	0.283012783	3.539545488	0.523962938	0.326741729
308	2.07826706	4.71859367	0.460986058	0.719901796	0.493798453	0.403580754	0.277771419	3.605955069	0.514208372	0.320658811
309	2.03759221	4.76980698	0.451962524	0.705815736	0.484144838	0.395669109	0.272355911	3.678950309	0.504128025	0.314372737
310	1.99251841	4.85319069	0.44196414	0.690208941	0.473444779	0.386900551	0.26635937	3.786469636	0.492955872	0.307405815
311	1.94605144	4.96465876	0.431657453	0.674121901	0.462412566	0.377859517	0.260181782	3.922818023	0.481436554	0.300222403
312	1.89524551	5.07099443	0.420388195	0.65653184	0.450350082	0.367975391	0.253424901	4.056357362	0.468843038	0.292369124
313	1.84200109	5.15994602	0.408577682	0.638096062	0.437708966	0.357618383	0.246340092	4.173818787	0.455647017	0.284140124
314	1.78779992	5.2140297	0.39655436	0.619326675	0.424841138	0.34707775	0.23912211	4.256925325	0.442217036	0.275765228
315	1.73255934	5.2048997	0.384299804	0.600193805	0.411726062	0.336339672	0.231755597	4.27737516	0.428535488	0.267233455
316	2.39037871	5.19083183	0.530218589	0.828009994	0.567938772	0.464211357	0.319452379	3.911088795	0.591458745	0.368831914
317	2.33448723	5.23856128	0.517819524	0.808653728	0.554672002	0.453341978	0.312007611	3.988747943	0.577609904	0.360195818
318	2.27564114	5.30231961	0.504765171	0.788275013	0.54070391	0.441897044	0.30417143	4.084018018	0.56302774	0.351102424
319	2.21498705	5.4497666	0.491311965	0.767276851	0.526302515	0.430095722	0.296108186	4.263941056	0.547991495	0.341725866
320	2.15304552	5.61696691	0.477573334	0.745833838	0.511595695	0.418042656	0.287876385	4.464306735	0.532634501	0.33214929
321	2.08747319	5.52589335	0.463020785	0.723110015	0.496044852	0.405297543	0.279116362	4.408358373	0.516395759	0.322022859
322	2.02045787	4.62827059	0.448162864	0.69987797	0.480065999	0.392351036	0.270050873	3.546582891	0.499900418	0.311736413
323	1.95284183	4.58088494	0.433163779	0.676458694	0.46400832	0.379211032	0.261029082	3.535401092	0.483158539	0.301296228

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
324	1.88417342	4.53107955	0.417931267	0.652674884	0.447700596	0.365866672	0.251866633	3.522362955	0.466156288	0.290693674
325	2.54771021	5.9306414	0.565114672	0.882520607	0.605344404	0.494730522	0.340537182	4.566680099	0.630343677	0.393080441
326	2.46812668	5.98312535	0.547458351	0.854956598	0.586457979	0.479253749	0.32993346	4.661783797	0.610624486	0.380783613
327	2.38547751	6.09782596	0.529122903	0.826334724	0.566843137	0.463176742	0.31893098	4.820744576	0.590140527	0.368009877
328	2.30236507	5.17071751	0.510694374	0.79752689	0.547040124	0.447103684	0.307715055	3.938101572	0.569661599	0.355239279
329	2.21863976	5.11142253	0.49212182	0.768528046	0.527156718	0.430833181	0.296543767	3.923635859	0.548931104	0.342311803
330	2.13437378	5.04703419	0.473429372	0.739341818	0.507144555	0.414458031	0.285299651	3.904366076	0.528067276	0.329301183
331	2.6480789	5.82492135	0.587379311	0.917277309	0.629172285	0.514249992	0.35390251	4.407215774	0.655213731	0.408589333
332	2.54289478	5.76045753	0.564046515	0.880846301	0.604193511	0.493808451	0.339869478	4.399071374	0.629168852	0.392347824
333	2.43798283	5.68061737	0.540774239	0.844509182	0.579278205	0.473421207	0.325870496	4.375404265	0.603193154	0.376149457
334	2.3333198	5.58997817	0.517557281	0.808258006	0.554421188	0.453083324	0.311903128	4.340804387	0.577280349	0.359990308
335	0.88202388	1.78391142	0.195646145	0.30552351	0.209553398	0.171300829	0.117855333	1.311694685	0.21825699	0.13610441
336	0.90514861	1.83324841	0.200775533	0.313533728	0.21504762	0.175791729	0.120945615	1.348651299	0.223978914	0.139672584
337	0.92802455	1.88271158	0.205849731	0.321457786	0.220482783	0.180234255	0.124002746	1.385867305	0.229639203	0.143202324
338	0.9508652	1.93271307	0.210916094	0.32936963	0.225909605	0.18466987	0.127055249	1.423640559	0.235290688	0.146726573
339	0.95560793	1.89874632	0.211968508	0.331011395	0.227033126	0.185594903	0.127682627	1.387132868	0.236469286	0.147461543
340	0.98361669	1.95594494	0.218181267	0.340713339	0.233687558	0.191034529	0.131425216	1.429336216	0.243399996	0.151783513
341	1.01139195	2.01336567	0.224342224	0.350334417	0.240286564	0.196428742	0.135136704	1.471886715	0.250272845	0.156069402
342	1.03919802	2.07153628	0.230510011	0.359966186	0.246892944	0.201828879	0.138852411	1.515170626	0.257153242	0.160359997
343	1.03739393	2.02509274	0.230110234	0.359340221	0.246461113	0.201482362	0.138605119	1.469691205	0.256711739	0.160084677
344	1.07175032	2.09231887	0.237731018	0.371240845	0.254623418	0.208155035	0.143195463	1.518523565	0.265213494	0.165386346
345	1.10547168	2.15907826	0.245210936	0.382921525	0.262634914	0.214704306	0.147701076	1.567229203	0.273558019	0.170589967
346	1.14242097	2.23253458	0.253406854	0.395720325	0.27141332	0.221880465	0.152638024	1.620903613	0.282701273	0.176291673
347	1.12764602	2.16309367	0.250129917	0.390601475	0.267900083	0.219014543	0.150658048	1.55937127	0.279049757	0.174014599
348	1.17368656	2.24931279	0.260342464	0.40654925	0.27883799	0.227956853	0.156808944	1.620940981	0.290443291	0.181119572
349	1.21689636	2.33113661	0.2699271	0.421516522	0.289103464	0.236349278	0.162581793	1.679630967	0.301136207	0.187787643
350	1.25995406	2.41348822	0.279477988	0.436431126	0.299332862	0.244712086	0.16833444	1.738930214	0.311791388	0.194432182
351	1.2308063	2.32037994	0.273012894	0.426333821	0.292405302	0.239054282	0.164434766	1.661425619	0.304582694	0.189936862
352	1.28696508	2.42181127	0.285469867	0.445786314	0.30574673	0.249962164	0.171936888	1.73279024	0.318480592	0.19860355
353	1.34000344	2.51839142	0.297234672	0.464157966	0.318346912	0.260263887	0.179022275	1.80097435	0.331606174	0.206788624
354	1.39294559	2.61558996	0.308978129	0.482496313	0.330924298	0.270546854	0.186094926	1.869828378	0.344707858	0.214958795
355	1.34661024	2.49598168	0.298700493	0.466445616	0.319913889	0.261550245	0.179899863	1.77502599	0.333245143	0.20781068
356	1.41164165	2.6096413	0.313125603	0.488971354	0.33536287	0.274181827	0.188586707	1.853868456	0.349339233	0.217846906
357	1.4788232	2.72751087	0.328027646	0.512241871	0.351322675	0.287231006	0.19756083	1.93576972	0.36596539	0.228214928
358	1.54531385	2.84489083	0.342776429	0.535273092	0.367118403	0.300145921	0.206442769	2.017551304	0.38242048	0.238476274
359	1.47695856	2.69286113	0.327614329	0.511595225	0.350877353	0.286871655	0.197307184	1.902117002	0.365507535	0.227929411

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
360	1.55695102	2.82832303	0.345358103	0.539303102	0.369880182	0.302409635	0.20799188	1.994751568	0.385304712	0.240274872
361	1.63778222	2.96550282	0.363287921	0.567301509	0.389082283	0.318110508	0.218788651	2.088654977	0.405309433	0.252749757
362	1.72166819	3.10833457	0.381895338	0.596358041	0.409010104	0.334404705	0.229993522	2.186574872	0.426070117	0.265696058
363	1.62185624	2.91082311	0.359755509	0.561784372	0.385296864	0.315019498	0.216657363	2.042500772	0.401371129	0.250293842
364	1.7240872	3.07912324	0.382432229	0.597195126	0.40958226	0.334877587	0.230311783	2.156067058	0.426672624	0.266071779
365	1.82870681	3.25125368	0.405638796	0.633433257	0.434435081	0.355199674	0.244285226	2.272184771	0.452565303	0.282218377
366	1.93684345	3.42933056	0.429625506	0.670889624	0.460123402	0.376204923	0.258728444	2.392365939	0.47932841	0.298907771
367	1.77856395	3.14544151	0.394516398	0.616064207	0.422521688	0.345461658	0.237584537	2.193217832	0.440157949	0.274481187
368	1.90424752	3.34735401	0.422395387	0.659598352	0.452377975	0.369875805	0.254370664	2.327839895	0.471264384	0.293879068
369	2.03734071	3.56059684	0.451917976	0.705699021	0.483994384	0.39572933	0.272146326	2.469825179	0.504204754	0.314420584
370	2.17843824	3.78631563	0.483216082	0.754572215	0.517512205	0.423137739	0.290990981	2.620000919	0.539126224	0.33619751
371	1.9477172	3.39823467	0.432037959	0.674654871	0.462702829	0.37832154	0.260173655	2.355446297	0.482025224	0.300589495
372	2.10588907	3.64718797	0.467123516	0.729442156	0.500276366	0.409047035	0.281298126	2.519714837	0.521173044	0.32500196
373	2.27873762	3.91796619	0.505464652	0.789313087	0.541336233	0.442623644	0.304382537	2.697950405	0.563953512	0.351679732
374	2.46288829	4.20529086	0.546312829	0.853098801	0.585080815	0.478395848	0.328976211	2.886681248	0.609531421	0.380101981
375	2.12705469	3.66621143	0.471818589	0.736773113	0.50530316	0.413159826	0.284122796	2.527405709	0.526413214	0.328269714
376	2.32253735	3.96874052	0.515180441	0.804483913	0.551739443	0.451133549	0.310229517	2.725273745	0.574796111	0.358441145
377	2.53951626	4.30239908	0.563310601	0.87964048	0.603281932	0.493283246	0.339206753	2.942762116	0.62849968	0.391930531
378	2.7822247	4.67351847	0.617148093	0.963709121	0.660936213	0.540431277	0.371619827	3.18393567	0.688571704	0.429391266
379	2.31140318	3.94207492	0.512710755	0.800627058	0.54909385	0.44897152	0.308741175	2.704568966	0.572041437	0.356723338
380	2.55421819	4.31300227	0.566571888	0.8847326	0.606773417	0.496140283	0.341168428	2.945493424	0.632139875	0.394200545
381	2.82718849	4.72665153	0.627122088	0.979283164	0.671615983	0.549167257	0.377622348	3.212994533	0.699702349	0.436332303
382	3.14394387	5.20327551	0.697384714	1.088999777	0.746859195	0.610700187	0.419923071	3.520027712	0.77810239	0.485222335
383	2.4932264	4.21515598	0.553042756	0.863606331	0.592284753	0.484292561	0.333022468	2.880301883	0.617044512	0.384787122
384	2.78240286	4.65250893	0.617187808	0.963770307	0.660976935	0.540467805	0.37164052	3.16282988	0.688618244	0.429420288
385	3.12107602	5.16029793	0.69231225	1.081078681	0.74142644	0.606258649	0.416867963	3.489293231	0.772443358	0.48169338
386	3.52590915	5.76232285	0.782112334	1.221303179	0.837591422	0.684902213	0.470929887	3.874570247	0.872644319	0.544178401
387	2.66596391	4.4764896	0.591359349	0.923438577	0.633317549	0.517848438	0.356090701	3.049151911	0.659798565	0.411448422
388	3.00352452	4.98345774	0.666236995	1.040361606	0.713502836	0.583423079	0.401169693	3.375390105	0.743348212	0.463549734
389	3.40848488	5.58607734	0.756065299	1.180630187	0.809698073	0.662091324	0.455248667	3.76119369	0.843580619	0.526054364
390	3.9080021	6.32291589	0.866868263	1.353650839	0.92835408	0.75912892	0.52195395	4.230590166	0.967217694	0.603154076
391	2.82413775	4.71872153	0.626445403	0.978226375	0.670891047	0.54857492	0.377214454	3.206697759	0.698947643	0.435861671
392	3.20826844	5.29303123	0.711653245	1.111280122	0.762138557	0.623196518	0.428512196	3.575343777	0.794024155	0.495151101
393	3.68029376	5.99210428	0.816357927	1.274778317	0.87426431	0.71489321	0.491546631	4.021694067	0.910856304	0.568007282
394	4.27294523	6.8617912	0.947819983	1.480058305	1.015043214	0.830023732	0.570688356	4.574074542	1.057545852	0.659482447
395	2.95937305	4.9298366	0.656443206	1.025068892	0.703015901	0.574845056	0.395275403	3.345408175	0.732418822	0.456734198

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
396	3.38844294	5.56993973	0.751619469	1.173688473	0.804938291	0.65819671	0.452574231	3.755787109	0.838618432	0.522959959
397	3.92118627	6.35690111	0.869792642	1.358217872	0.931486957	0.761688802	0.523716675	4.257517162	0.970479278	0.605187991
398	4.60135697	7.35222447	1.020668255	1.593812314	1.093055039	0.893821363	0.61454517	4.888676053	1.138831383	0.710171862
399	3.07054701	5.10877525	0.681103686	1.06357722	0.729425436	0.596440667	0.410123695	3.464824781	0.759934118	0.473892655
400	3.5400438	5.80899423	0.785247444	1.226199712	0.840950924	0.687645719	0.472821181	3.913674978	0.876139862	0.546358211
401	4.12458688	6.67179194	0.914910849	1.428671274	0.979804131	0.801200625	0.550880854	4.463507698	1.020821893	0.636581496
402	4.88206793	7.77920162	1.08293547	1.691044098	1.159736473	0.948351885	0.652033051	5.165360776	1.20830955	0.75349824
403	3.15703472	5.25502708	0.700288227	1.093534925	0.749971248	0.613240325	0.42167594	3.564771762	0.781338817	0.487240562
404	3.66071326	6.00728676	0.812014169	1.267997186	0.869616438	0.711085472	0.488938276	4.047361779	0.906004807	0.564981902
405	4.28892567	6.9353309	0.951364302	1.485594765	1.018842979	0.833123628	0.572829651	4.639060349	1.061495476	0.661945421
406	5.10933607	8.13540927	1.133347919	1.769764786	1.213723634	0.992499731	0.68238538	5.399889675	1.264558991	0.788575225
407	3.21691022	5.36588401	0.713569605	1.114274895	0.764195846	0.62486987	0.429674965	3.643572211	0.796156198	0.496480636
408	3.74720923	6.16037535	0.831200477	1.297957916	0.890164722	0.727886117	0.500492618	4.154141372	0.927410764	0.578330594
409	4.41074218	7.14307931	0.978385391	1.527789735	1.047781545	0.856785507	0.589101052	4.781589227	1.091643436	0.680745599
410	5.28289254	8.42149143	1.171845955	1.829881276	1.254952733	1.026212578	0.705566403	5.593050747	1.307513041	0.815361243
411	3.24925365	5.43997541	0.720743784	1.125478522	0.771880729	0.631150614	0.433997932	3.700347987	0.804158589	0.501470904
412	3.79825116	6.26659206	0.842522316	1.31563836	0.902291613	0.737798873	0.507313234	4.233031446	0.940040757	0.586206619
413	4.48933029	7.29459973	0.995817483	1.555011622	1.066452143	0.872049038	0.599600852	4.891034947	1.111090933	0.692873
414	5.4000952	8.63454337	1.197843489	1.87047842	1.282796229	1.048977067	0.721223437	5.743353892	1.336517623	0.833448413
415	3.25353129	5.47622384	0.721692371	1.126960925	0.772899091	0.631978898	0.434573524	3.73430739	0.805213919	0.502129004
416	3.81516549	6.32802585	0.846273916	1.321497968	0.906312204	0.741081406	0.509577277	4.285410785	0.944223082	0.588814705
417	4.52377036	7.38895501	1.003456579	1.566941896	1.074636354	0.878735533	0.604206304	4.966952755	1.119610297	0.69818565
418	5.45471908	8.76619627	1.209959689	1.889400058	1.295775493	1.059583844	0.72852532	5.84576321	1.350031878	0.841875863
419	3.2298038	5.47405835	0.716428834	1.118743105	0.767265297	0.627366569	0.431409749	3.74484697	0.79933728	0.49846435
420	3.79723041	6.34322122	0.842295167	1.315286711	0.902055006	0.73759353	0.5071883	4.310210329	0.939779126	0.586043467
421	4.51054058	7.42081509	1.000521469	1.562360678	1.071497588	0.876160842	0.602447085	5.00589819	1.116329845	0.69613997
422	5.45137387	8.82408564	1.209217069	1.888242895	1.294985581	1.058928324	0.728087748	5.905446187	1.349196671	0.84135503
423	3.17819258	5.43238265	0.704980105	1.100867071	0.755008081	0.61733732	0.424522628	3.730805397	0.786558862	0.490495766
424	3.74148759	6.30640345	0.829929866	1.295979861	0.888817187	0.726760677	0.499751042	4.303239191	0.925976824	0.577436393
425	4.45261366	7.3941609	0.987671569	1.542297639	1.057741962	0.864902495	0.594720113	5.010260553	1.101985413	0.687194825
426	5.39491822	8.81611223	1.19669337	1.868689871	1.281580679	1.047954298	0.720559652	5.927702288	1.335214498	0.832635789
427	3.09903204	5.34959316	0.68742039	1.073448612	0.736206728	0.601956309	0.413956516	3.690399939	0.766961682	0.478275023
428	3.64977573	6.21823743	0.809585893	1.26421425	0.867035361	0.708940226	0.487510745	4.264177736	0.903271516	0.56327743
429	4.34844891	7.3048077	0.964565134	1.50621907	1.033003349	0.844661361	0.580819365	4.976679911	1.076195877	0.671112547
430	5.27926362	8.73249203	1.171038046	1.828632051	1.254114453	1.025479067	0.705127858	5.906007268	1.306578465	0.814778444
431	2.99358621	5.22458831	0.6640301	1.036925481	0.711161272	0.581469355	0.399879777	3.621852162	0.740858943	0.461997433

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
432	3.52345006	6.07718509	0.781563897	1.220459209	0.837031186	0.684395765	0.470647871	4.190762163	0.871999046	0.543776011
433	4.1983088	7.14930493	0.931260425	1.454215792	0.997343811	0.815488775	0.560779334	4.901565036	1.039026642	0.647933923
434	5.10195401	8.56640591	1.131706322	1.767218642	1.21200325	0.9910258	0.681463919	5.83485682	1.262681033	0.787404136
435	2.8669306	5.06200555	0.635935114	0.993055643	0.681077144	0.556862699	0.38296978	3.527081944	0.709507228	0.442446596
436	3.36728044	5.88585731	0.746921974	1.166366798	0.799937371	0.654054302	0.449798742	4.083049366	0.833340526	0.519668673
437	4.00542254	6.92618956	0.888473803	1.387406172	0.951529952	0.778012616	0.535030338	4.781723702	0.991277698	0.618157823
438	4.86561864	8.31483172	1.079281481	1.685360174	1.155871102	0.94510588	0.649917939	5.709820843	1.204173765	0.750919177
439	2.72057265	4.85999029	0.603469849	0.942361139	0.646312117	0.528429547	0.363427232	3.403427462	0.673280117	0.419855478
440	3.1839778	5.64214186	0.706261512	1.102875858	0.75639741	0.618443016	0.42532448	3.937475456	0.787967645	0.491374279
441	3.77267225	6.63021717	0.836844667	1.306788274	0.896245681	0.732793627	0.503955874	4.61036802	0.933663497	0.582229779
442	4.56803505	7.96001543	1.013270674	1.582286495	1.085189001	0.887288876	0.610191024	5.514334588	1.130508241	0.704981576
443	2.55934404	4.62303033	0.567706094	0.88651548	0.608013717	0.497108754	0.34189697	3.252789511	0.633373818	0.394970029
444	2.97857566	5.34777938	0.660699107	1.031729749	0.70760655	0.57854025	0.397896435	3.753085861	0.737126925	0.459670157
445	3.50868756	6.26431791	0.778287336	1.215350953	0.833540159	0.681509111	0.46870691	4.385807421	0.868321115	0.541482464
446	4.21642557	7.49272058	0.935276145	1.460498757	1.001671059	0.818979613	0.563244747	5.235293952	1.043474372	0.650707514
447	2.39155408	4.36416438	0.530487011	0.828396826	0.568155806	0.464514436	0.319488727	3.083758031	0.591844903	0.369072721
448	2.76161334	5.01705973	0.612572602	0.956579003	0.656068223	0.536393515	0.36892184	3.538527636	0.683427129	0.426183125
449	3.22887477	5.84673236	0.716219277	1.118430469	0.767072681	0.627152341	0.431340144	4.118033753	0.799064328	0.498294138
450	3.8377083	6.93987757	0.851268985	1.32932042	0.911710473	0.745408426	0.512671874	4.885216825	0.949736204	0.592252671
451	0.22415673	0.67708889	0.049719249	0.077650939	0.053272494	0.043514046	0.029984218	0.557089357	0.055441907	0.034573408
452	0.22487685	0.68583623	0.049878915	0.07790056	0.053444129	0.043653245	0.030081501	0.565451457	0.055619263	0.034684007
453	0.2261853	0.69293785	0.050169108	0.078353904	0.05375533	0.043906962	0.030256985	0.571852738	0.055942528	0.034885594
454	0.22651173	0.69596406	0.050241492	0.078467032	0.05383306	0.043970145	0.030300946	0.574704293	0.05602303	0.034935795
455	0.27353887	0.80704583	0.06067267	0.094757114	0.065007082	0.053102003	0.036587	0.66060939	0.067658069	0.042191371
456	0.27551547	0.82033126	0.061111023	0.095442015	0.065477384	0.053485048	0.036852464	0.672836975	0.068146112	0.042495713
457	0.27744974	0.82994443	0.061540021	0.096112165	0.065937361	0.053860194	0.03711175	0.681414804	0.068624092	0.04279378
458	0.27569762	0.82982862	0.061151343	0.095505335	0.065521346	0.053519601	0.036878133	0.682237181	0.068190137	0.042523166
459	0.34675292	0.98910101	0.076912331	0.120118501	0.082404006	0.067318086	0.046374751	0.803468729	0.085770996	0.053486538
460	0.34823859	1.00599904	0.077241746	0.120633461	0.082758018	0.067605369	0.046575288	0.81957193	0.086137028	0.053714794
461	0.34687574	1.01299068	0.076939353	0.120161621	0.082434959	0.067339805	0.046394604	0.827293613	0.085798668	0.053503794
462	0.39827899	0.82543645	0.088344078	0.137960013	0.094625595	0.077349309	0.053220623	0.612207211	0.09855193	0.06145669
463	0.49164928	0.99633452	0.109055177	0.170302029	0.11680739	0.095484686	0.065694074	0.733116087	0.121658489	0.075865872
464	0.40293915	0.8323831	0.089377793	0.139574179	0.09573258	0.078254597	0.053842948	0.616658811	0.099705371	0.062175973
465	0.50916292	1.02506474	0.112940028	0.176368401	0.120967822	0.098886673	0.068033259	0.752469597	0.125993013	0.078568868
466	0.66334848	1.29644739	0.147141076	0.229775614	0.157596568	0.12883522	0.08862952	0.941302935	0.164150912	0.10236402
467	0.89806155	1.69627915	0.199204657	0.311075844	0.213354656	0.174426393	0.119980793	1.215471261	0.222239318	0.138587778

Unmitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
468	0.39020726	0.80998368	0.086553637	0.135164072	0.092707957	0.075781591	0.052142211	0.60107591	0.096554476	0.060211084
469	0.49882063	1.00855615	0.110645912	0.172786052	0.118511006	0.096877664	0.066651972	0.741498229	0.123433305	0.076972641
470	0.66301485	1.29978389	0.147067035	0.229660147	0.157517604	0.128770063	0.088585524	0.944818217	0.164067894	0.102312251
471	0.9322747	1.76126823	0.206793687	0.322926806	0.221482785	0.181071424	0.124551714	1.26214318	0.230705854	0.143867484
472	0.46776703	0.95613955	0.103757659	0.162029674	0.111133994	0.090845702	0.062504127	0.705707497	0.115747889	0.072180039
473	0.62436519	1.23921915	0.138493797	0.216272756	0.148336445	0.121262194	0.083423751	0.904946401	0.154502005	0.096346991
474	0.8815131	1.69006093	0.195533709	0.305344309	0.209425081	0.171210004	0.11777357	1.218113846	0.218141269	0.136032246
475	0.4236754	0.87825997	0.093977369	0.14675709	0.100659445	0.082281499	0.056614283	0.651434089	0.104836109	0.065375486
476	0.55958911	1.12857706	0.124125298	0.193835521	0.132948312	0.108679974	0.074771387	0.828984886	0.138470807	0.086349983
477	0.78103153	1.52693709	0.173245014	0.270539563	0.185555431	0.151691521	0.10435314	1.108787338	0.193272472	0.120524139

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.002613903	0.00122357	0.000928887	0.000743674	0.00051016	0.000431182	0.000179421	0.000545807	6.63828E-05	0.00043196
0.002734558	0.001288514	0.000971762	0.000778004	0.000533714	0.000451078	0.000187709	0.000579466	6.9446E-05	0.000451892
0.00283991	0.00134925	0.001009199	0.00080798	0.000554283	0.000468448	0.00019495	0.000612887	7.21201E-05	0.000469293
0.002924271	0.001403127	0.001039176	0.000831985	0.000570758	0.000482352	0.000200752	0.000644892	7.42608E-05	0.000483223
0.003005985	0.001458545	0.001068213	0.000855237	0.000586718	0.000495818	0.000206374	0.000679124	7.6334E-05	0.000496713
0.003087069	0.001515958	0.001097024	0.00087831	0.000602556	0.000509178	0.000211955	0.000715515	7.83908E-05	0.000510097
0.003172745	0.001576987	0.001127468	0.000902691	0.000619291	0.000523295	0.000217853	0.000754331	8.05641E-05	0.000524239
0.003263557	0.001640382	0.001159737	0.000928533	0.000637029	0.000538258	0.000224102	0.000794182	8.28679E-05	0.00053923
0.003387663	0.001718852	0.001203837	0.000963846	0.000661264	0.000558715	0.000232637	0.000840475	8.60172E-05	0.000559723
0.003509645	0.001793511	0.001247183	0.000998555	0.000685083	0.000578823	0.000241024	0.000883507	8.9113E-05	0.000579867
0.003662538	0.001882619	0.001301514	0.001042059	0.000714935	0.00060403	0.000251533	0.000932973	9.29937E-05	0.00060512
0.003791757	0.00195888	0.001347432	0.001078826	0.000740166	0.000625333	0.000260415	0.00097573	9.62735E-05	0.000626461
0.003906028	0.002028489	0.001388038	0.001111341	0.000762479	0.00064417	0.000268271	0.001015712	9.91736E-05	0.000645332
0.003983324	0.00207843	0.001415504	0.001133336	0.000777574	0.00065691	0.000273587	0.001045612	0.000101135	0.000658095
0.003951996	0.002072517	0.001404371	0.001124425	0.000771466	0.000651735	0.000271444	0.001047824	0.000100338	0.000652911
0.003856782	0.002026644	0.001370535	0.001097335	0.000752882	0.00063603	0.000264907	0.001026639	9.79204E-05	0.000637178
0.002921517	0.001343344	0.001038205	0.000831187	0.000570182	0.000481944	0.000200517	0.000585816	7.41979E-05	0.000482813
0.003094989	0.001429753	0.00109985	0.000880542	0.000604042	0.000510555	0.000212428	0.000627246	7.86028E-05	0.000511476
0.003259487	0.001515317	0.001158306	0.000927345	0.000636153	0.000537684	0.000223726	0.000670158	8.27794E-05	0.000538654
0.003410247	0.001598471	0.001211879	0.000970241	0.000665585	0.000562543	0.000234084	0.000714222	8.66066E-05	0.000563558
0.00353562	0.001674023	0.001256429	0.001005914	0.000690066	0.00058321	0.000242703	0.000757269	8.97885E-05	0.000584263
0.003656517	0.001751435	0.001299389	0.001040315	0.000713675	0.000603137	0.000251018	0.000803335	9.28563E-05	0.000604225
0.004777864	0.002439644	0.001697856	0.001359385	0.000932639	0.000787983	0.000328117	0.001200807	0.000121314	0.000789405
0.004887571	0.002511844	0.00173684	0.001390603	0.000954064	0.000806064	0.000335664	0.001244564	0.000124098	0.000807518
0.004849072	0.002518374	0.001723156	0.001379656	0.000946567	0.000799694	0.000333041	0.001261079	0.000123117	0.000801137
0.004728288	0.002464779	0.001680233	0.001345292	0.000922995	0.000779767	0.000324752	0.001238803	0.00012005	0.000781174
0.004555491	0.002385554	0.001618827	0.001296131	0.000889271	0.000751262	0.000312893	0.001204383	0.000115661	0.000752618
0.003223885	0.001457047	0.001145659	0.000917206	0.000629177	0.000531843	0.00022125	0.000621114	8.18802E-05	0.000532803
0.003744787	0.001703097	0.001330768	0.001065407	0.000730844	0.000617768	0.000257007	0.000732099	9.51088E-05	0.000618883
0.003975871	0.001818783	0.001412886	0.001131154	0.00077595	0.000655881	0.000272874	0.000787867	0.000100977	0.000657064
0.004211475	0.001941954	0.00149661	0.001198188	0.000821941	0.000694735	0.000289057	0.00084995	0.000106958	0.000695989
0.004444724	0.002070272	0.001579496	0.001264554	0.000867478	0.000733197	0.000305082	0.000917791	0.00011288	0.000734519
0.004625171	0.002180179	0.001643617	0.001315898	0.000902713	0.000762943	0.000317488	0.000980912	0.000117459	0.000764319
0.004773258	0.002278687	0.001696238	0.001358037	0.000931634	0.000787348	0.000327676	0.001041026	0.000121217	0.000788768
0.005005004	0.00241816	0.001778589	0.001423978	0.000976885	0.000825552	0.000343608	0.001120413	0.000127098	0.000827041

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.005241234	0.00255759	0.001862533	0.001491194	0.00102301	0.000864497	0.000359845	0.001198594	0.000133094	0.000866057
0.005816156	0.002886156	0.002066833	0.001654778	0.001135258	0.000959288	0.000399355	0.001378094	0.000147688	0.000961019
0.006017819	0.003011775	0.002138493	0.00171216	0.001174637	0.000992529	0.000413222	0.001451428	0.000152805	0.00099432
0.006166281	0.003112236	0.002191247	0.001754406	0.001203634	0.001016995	0.000423437	0.001513397	0.000156572	0.00101883
0.005950636	0.003068119	0.002114608	0.001693067	0.001161583	0.000981378	0.00040868	0.001525201	0.000151089	0.000983149
0.005723042	0.002974447	0.002033728	0.001628318	0.001117172	0.000943825	0.000393068	0.001490545	0.000145307	0.000945528
0.005420291	0.002837941	0.00192614	0.001542184	0.001058087	0.00089388	0.000372291	0.00143254	0.000137618	0.000895493
0.003554948	0.001581179	0.00126331	0.001011389	0.000693771	0.000586479	0.00024395	0.0006594	9.02917E-05	0.000587537
0.003906205	0.001737214	0.001388135	0.001111322	0.00076232	0.000644427	0.000268054	0.000724356	9.92132E-05	0.00064559
0.004286637	0.001908453	0.001523328	0.001219556	0.000836565	0.000707188	0.000294162	0.000796952	0.000108875	0.000708464
0.005041511	0.002261759	0.001791583	0.001434323	0.000983896	0.00083171	0.000345977	0.000954526	0.000128046	0.00083321
0.005406985	0.002443673	0.001921458	0.001538306	0.001055233	0.000891988	0.000371072	0.001041676	0.000137327	0.000893598
0.005709401	0.00260629	0.002028923	0.00162435	0.00111427	0.000941858	0.000391847	0.001125881	0.000145004	0.000943557
0.005984618	0.002764794	0.002126722	0.001702658	0.001168004	0.000987233	0.000410761	0.001213028	0.00015199	0.000989015
0.006346261	0.002968953	0.002255232	0.001805557	0.00123861	0.001046862	0.000435612	0.00132342	0.00016117	0.001048751
0.006698094	0.003169439	0.002380257	0.001905665	0.001307301	0.001104871	0.000459791	0.001432683	0.000170101	0.001106865
0.007550201	0.003646887	0.002683056	0.002148114	0.001473661	0.001245371	0.000518342	0.001689196	0.000191732	0.001247618
0.007848521	0.003833493	0.002789062	0.002232999	0.001531915	0.001294544	0.000538856	0.001798455	0.000199302	0.00129688
0.008058711	0.003981909	0.00286375	0.002292812	0.001572972	0.001329177	0.000553323	0.001892376	0.000204634	0.001331575
0.008152836	0.004068365	0.002897194	0.002319601	0.00159137	0.00134467	0.000559817	0.001954432	0.00020702	0.001347096
0.008159212	0.004100667	0.002899456	0.002321422	0.001592634	0.001345699	0.000560278	0.001985084	0.000207178	0.001348127
0.007398913	0.003800097	0.002629267	0.002105125	0.001444282	0.001220239	0.000508134	0.00188166	0.000187863	0.001222441
0.006956259	0.003611867	0.002471961	0.001979191	0.001357901	0.001147205	0.000477764	0.001808208	0.000176619	0.001149275
0.006467006	0.003400891	0.002298096	0.00184	0.001262425	0.001066486	0.000444196	0.001724094	0.000164191	0.00106841
0.003840981	0.001685383	0.00136496	0.00109276	0.000749576	0.000633685	0.00026356	0.000689435	9.75593E-05	0.000634828
0.004305465	0.001883936	0.001530023	0.001224905	0.000840218	0.00071032	0.000295428	0.00076755	0.000109358	0.000711601
0.004821309	0.002105436	0.001713337	0.001371661	0.000940883	0.000795427	0.00033082	0.000855293	0.00012246	0.000796862
0.005401723	0.002356918	0.001919598	0.001536789	0.00105415	0.000891187	0.000370645	0.000956276	0.000137203	0.000892795
0.006011505	0.002625373	0.002136294	0.001710272	0.001173151	0.000991788	0.000412487	0.001066617	0.000152691	0.000993577
0.007717591	0.003434655	0.002742575	0.002195668	0.001506138	0.00127321	0.000529603	0.001433527	0.000196018	0.001275507
0.008327681	0.003749096	0.002959375	0.00236925	0.001625229	0.001373826	0.000571503	0.00158978	0.000211508	0.001376305
0.008904063	0.004057165	0.003164196	0.002533244	0.001737748	0.001468874	0.000611097	0.001748402	0.000226141	0.001471525
0.010269278	0.00479709	0.003649332	0.002921682	0.002004266	0.001693997	0.000704886	0.002134351	0.0002608	0.001697054
0.010752197	0.005100674	0.003820935	0.003059094	0.00209857	0.001773598	0.000738095	0.002312727	0.000273055	0.001776798
0.011037496	0.005320421	0.00392231	0.003140285	0.002154309	0.001820592	0.000757746	0.002458508	0.00028029	0.001823877
0.0110944	0.005431991	0.003942521	0.003156494	0.002165472	0.001829912	0.000761718	0.002555333	0.000281725	0.001833214

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.0109562	0.005430686	0.003893403	0.003117191	0.002138541	0.001807066	0.000752282	0.00258987	0.000278208	0.001810326
0.004055037	0.001761312	0.00144103	0.001153655	0.000791338	0.000669014	0.000278234	0.000709858	0.000102998	0.000670221
0.004615412	0.001994056	0.001640171	0.001313079	0.000900688	0.000761475	0.000316676	0.000797298	0.000117233	0.000762849
0.005294078	0.002275515	0.001881348	0.001506155	0.00103312	0.000873454	0.000363231	0.00090278	0.000134473	0.00087503
0.006118729	0.002617697	0.002174405	0.001740764	0.00119404	0.00100952	0.000419802	0.001031132	0.000155421	0.001011342
0.007082218	0.003018747	0.0025168	0.002014872	0.001382052	0.001168494	0.000485897	0.001182351	0.000179896	0.001170602
0.008084423	0.003439648	0.002872953	0.002299995	0.001577623	0.001333852	0.000554652	0.001343383	0.000205354	0.001336259
0.009187815	0.003911599	0.003265064	0.002613907	0.001792944	0.001515899	0.000630355	0.001529229	0.000233381	0.001518634
0.012495953	0.005438514	0.00444066	0.003555091	0.002438585	0.002061617	0.000857411	0.002198369	0.000317397	0.002065337
0.014922141	0.006679263	0.005302827	0.004245384	0.002912178	0.002461751	0.00102403	0.002810039	0.000379	0.002466193
0.015717088	0.007184464	0.005585307	0.004471585	0.003067417	0.002592779	0.001078701	0.003109133	0.000399173	0.002597458
0.015934724	0.007494538	0.005662622	0.004533553	0.003110032	0.002628517	0.001093803	0.0033628	0.000404675	0.00263326
0.015866467	0.007652431	0.005638343	0.004514179	0.003096836	0.002617109	0.001089267	0.003538414	0.000402919	0.002621831
0.015270544	0.007527483	0.005426556	0.004344671	0.00298063	0.002518687	0.001048484	0.003568003	0.000387766	0.002523231
0.004089376	0.00176531	0.001453235	0.001163422	0.000798032	0.000674688	0.000280582	0.000704951	0.000103872	0.000675905
0.004812315	0.002061641	0.001710146	0.001369093	0.000939101	0.000793975	0.000330172	0.000813825	0.000122237	0.000795407
0.005693875	0.00241983	0.002023427	0.00161989	0.001111121	0.000939437	0.00039064	0.000943426	0.000144632	0.000941132
0.006761744	0.002850229	0.002402918	0.00192369	0.001319493	0.001115644	0.000463885	0.001096927	0.00017176	0.001117657
0.008074329	0.003376119	0.002869374	0.002297109	0.001575614	0.001332233	0.000553913	0.001282465	0.000205105	0.001334637
0.009702604	0.004026529	0.003448017	0.002760338	0.001893333	0.001600916	0.000665591	0.001510663	0.00024647	0.001603805
0.011646304	0.004803559	0.004138754	0.003313303	0.0022726	0.001921647	0.000798904	0.001783693	0.000295848	0.001925114
0.013841917	0.00568832	0.004919012	0.003937937	0.002701027	0.002283941	0.000949501	0.002099132	0.000351625	0.002288062
0.016286476	0.006691936	0.005787737	0.004633398	0.003178042	0.002687298	0.001117187	0.002468878	0.000413725	0.002692147
0.024078899	0.011608476	0.008556732	0.006850702	0.004699744	0.00397172	0.001653065	0.005365057	0.000611468	0.003978886
0.02207254	0.01110869	0.007843692	0.006279983	0.004308451	0.003640413	0.001515692	0.005385555	0.000560462	0.003646981
0.004187934	0.00180226	0.00148826	0.00119146	0.000817262	0.000690953	0.00028734	0.000716345	0.000106376	0.0006922
0.004907829	0.00209353	0.00174409	0.001396264	0.000957735	0.00080974	0.000336718	0.000820947	0.000124664	0.000811201
0.005843006	0.002468224	0.002076425	0.001662314	0.001140213	0.000964054	0.00040086	0.000953149	0.000148421	0.000965793
0.011149148	0.004546993	0.003962085	0.003171853	0.002175553	0.001839656	0.00076476	0.001656032	0.000283225	0.001842976
0.014201548	0.00571869	0.005046829	0.004040222	0.002771125	0.002343372	0.000974078	0.002036237	0.000360775	0.002347601
0.018394641	0.007315516	0.006536946	0.0052331	0.003589256	0.003035339	0.001261608	0.002545786	0.000467307	0.003040816
0.024256432	0.009537395	0.008620077	0.006900697	0.004732966	0.004002691	0.001663556	0.003247689	0.000616237	0.004009913
0.004091186	0.001760942	0.001453878	0.001163935	0.000798382	0.000674991	0.000280702	0.000700113	0.000103919	0.000676208
0.004852617	0.002068729	0.001724469	0.001380556	0.000946959	0.000800632	0.000332929	0.000810461	0.000123262	0.000802077
0.00587013	0.002475557	0.002086065	0.00167003	0.001145503	0.000968532	0.000402717	0.000953449	0.000149111	0.00097028
0.022860076	0.008908498	0.00812386	0.00650343	0.004460453	0.003772333	0.001567728	0.002980858	0.000580772	0.00377914

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.034855781	0.013282818	0.012386849	0.009915998	0.006800853	0.005752081	0.002390149	0.004244644	0.000885565	0.005762459
0.003905962	0.001685856	0.001388055	0.00111124	0.000762239	0.000644427	0.000267997	0.000673055	9.92132E-05	0.00064559
0.004657494	0.001990487	0.001655128	0.001325046	0.000908886	0.000768435	0.000319546	0.000782815	0.000118305	0.000769821
0.005648053	0.002387202	0.002007145	0.001606851	0.00110217	0.000931887	0.000387486	0.000922678	0.000143469	0.000933568
0.025272508	0.009795314	0.00898118	0.007189726	0.004931131	0.004170471	0.001733129	0.003242122	0.000642067	0.004177995
0.042823124	0.01613679	0.015218259	0.012182556	0.008355273	0.007067035	0.002936347	0.005032647	0.00108801	0.007079786
0.003681866	0.001596486	0.001308418	0.001047487	0.000718512	0.000607449	0.000252627	0.000641794	9.35202E-05	0.000608545
0.004367842	0.001875628	0.001552194	0.001242642	0.000852367	0.000720638	0.00029968	0.000743063	0.000110946	0.000721939
0.005297526	0.00224999	0.001882577	0.00150713	0.001033775	0.000874044	0.000363447	0.000876358	0.000134564	0.000875621
0.006572591	0.002757016	0.0023357	0.001869873	0.001282572	0.001084445	0.000450898	0.00105276	0.000166956	0.001086402
0.024528229	0.00957305	0.008716675	0.006978003	0.004785952	0.004047598	0.001682141	0.003212858	0.00062315	0.004054901
0.043510937	0.016514188	0.015462677	0.012378257	0.008489552	0.007180451	0.002983603	0.005231707	0.001105471	0.007193407
0.003432371	0.001496785	0.001219754	0.000976508	0.000669829	0.00056628	0.000235515	0.000606786	8.71819E-05	0.000567301
0.004052425	0.001750714	0.001440103	0.001152909	0.000790822	0.00066859	0.000278047	0.000699936	0.000102933	0.000669797
0.004886941	0.002088991	0.001736666	0.001390323	0.000953661	0.000806291	0.000335288	0.000821825	0.000124133	0.000807746
0.00600651	0.002536901	0.00213453	0.00170883	0.001172119	0.000991031	0.000412077	0.00097943	0.000152575	0.000992819
0.021299653	0.008420271	0.007569313	0.006059536	0.004156063	0.003514741	0.00146081	0.002897264	0.000541114	0.003521083
0.036760095	0.014226852	0.013063567	0.010457802	0.007172557	0.006066169	0.002520905	0.004694912	0.000933921	0.006077115
0.003195437	0.001402037	0.001135554	0.000909103	0.000623597	0.000527183	0.000219264	0.000573476	8.11628E-05	0.000528134
0.003742232	0.00162743	0.001329869	0.001064663	0.000730296	0.000617405	0.000256773	0.000657085	9.50529E-05	0.000618519
0.004466174	0.00192282	0.001587137	0.001270619	0.00087156	0.000736858	0.000306431	0.000764758	0.000113443	0.000738188
0.005453171	0.002321172	0.001937888	0.001551411	0.001064152	0.00089972	0.000374129	0.000907182	0.000138517	0.000901343
0.006821949	0.00286652	0.002424314	0.001940816	0.001331235	0.001125584	0.000468008	0.001097606	0.00017329	0.001127615
0.008855452	0.003667714	0.003146965	0.002519326	0.001728018	0.001461143	0.000607471	0.001371512	0.000224951	0.001463779
0.012023645	0.004901747	0.004272856	0.003420641	0.002346194	0.001983953	0.000824743	0.00178403	0.000305441	0.001987533
0.017406937	0.006980559	0.006185937	0.004952121	0.003396569	0.002872311	0.001193911	0.002466947	0.000442208	0.002877493
0.027391708	0.010816614	0.009734264	0.007792661	0.005344758	0.004520025	0.001878616	0.003713934	0.000695883	0.00452818
0.049195109	0.019281298	0.017482614	0.013995471	0.009599012	0.008118012	0.003373854	0.006524971	0.001249813	0.00813266
0.002969964	0.001311696	0.001055427	0.000844957	0.000579601	0.000489978	0.000203799	0.000541599	7.54348E-05	0.000490862
0.003461382	0.001516077	0.001230063	0.000984763	0.000675495	0.000571061	0.000237511	0.000618557	8.7918E-05	0.000572091
0.004080981	0.001770593	0.00145025	0.001161035	0.0007964	0.000673296	0.000280013	0.000712412	0.000103658	0.000674511
0.004913211	0.002109076	0.001746001	0.001397799	0.000958794	0.000810618	0.000337098	0.000835099	0.000124799	0.000812081
0.006075616	0.002577593	0.002159087	0.001728493	0.001185612	0.001002424	0.000416827	0.001002205	0.000154329	0.001004233
0.007726078	0.00323632	0.002745615	0.002198035	0.00150766	0.001274769	0.000530027	0.001232967	0.000196258	0.001277069
0.010117094	0.004181091	0.003595316	0.002878254	0.001974203	0.00166932	0.000694011	0.001557747	0.000257001	0.001672332
0.01379303	0.005627009	0.004901644	0.003924019	0.00269146	0.002275907	0.000946115	0.002050492	0.000350389	0.002280013

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.019327401	0.007817708	0.006868408	0.005498492	0.003771348	0.003189153	0.001325685	0.002806128	0.000490988	0.003194907
0.028117588	0.01134755	0.009992193	0.007999225	0.005486557	0.004639614	0.001928592	0.004056678	0.000714295	0.004647985
0.002758061	0.001226674	0.000980123	0.000784673	0.000538253	0.000455012	0.000189265	0.000511525	7.00516E-05	0.000455833
0.003179426	0.001403044	0.001129863	0.000904549	0.000620478	0.000524535	0.000218172	0.000578636	8.07551E-05	0.000525482
0.0037199	0.001627217	0.001321932	0.001058311	0.000725944	0.000613713	0.000255248	0.000662664	9.44845E-05	0.00061482
0.00443927	0.001923431	0.001577575	0.001262968	0.000866318	0.00073241	0.000304594	0.000772347	0.000112759	0.000733731
0.005368332	0.002301651	0.001907737	0.001527279	0.001047607	0.000885709	0.000368321	0.000909662	0.00013636	0.000887308
0.006637937	0.002815288	0.002358918	0.001888471	0.001295344	0.001095203	0.000455405	0.001094091	0.000168613	0.001097179
0.008227302	0.003462823	0.002923733	0.002340634	0.00160548	0.001357455	0.000564425	0.001329506	0.000208988	0.001359905
0.010636639	0.004430687	0.003779943	0.00302607	0.002075608	0.001755018	0.000729678	0.00167263	0.000270195	0.001758184
0.013414054	0.005569987	0.004766956	0.003816227	0.002617575	0.002213298	0.000920196	0.002091751	0.00034075	0.002217291
0.017322617	0.007205916	0.006155941	0.004928195	0.003380287	0.002858194	0.001188331	0.002714198	0.000440035	0.002863351
0.002560092	0.001146741	0.000909771	0.000728353	0.000499624	0.000422346	0.000175687	0.000482924	6.50225E-05	0.000423108
0.002936348	0.001305847	0.001043481	0.000835396	0.000573047	0.000484425	0.0002015	0.000544468	7.45799E-05	0.000485299
0.003392193	0.001496524	0.001205474	0.000965082	0.000662	0.000559638	0.000232772	0.000616945	8.61593E-05	0.000560647
0.003978153	0.00174019	0.001413707	0.001131784	0.000776342	0.00065632	0.000272968	0.000708673	0.000101044	0.000657504
0.00472788	0.002050121	0.001680138	0.001345077	0.000922641	0.000780025	0.000324398	0.000824202	0.000120089	0.000781432
0.005683737	0.002443386	0.002019821	0.001617013	0.001109161	0.000937742	0.000389967	0.000969614	0.000144371	0.000939434
0.006827498	0.002917301	0.00242628	0.001942406	0.00133235	0.001126462	0.000468427	0.001146954	0.000173425	0.001128494
0.008226478	0.003501423	0.002923435	0.002340409	0.001605345	0.001357289	0.000564399	0.001368324	0.000208962	0.001359738
0.009798709	0.004163788	0.003482158	0.002787703	0.001912151	0.001616697	0.00067226	0.001623014	0.0002489	0.001619614
0.011987454	0.005105706	0.004259969	0.003410397	0.002339277	0.001977811	0.000822433	0.001997399	0.000304495	0.001981379
0.002377067	0.001072146	0.000844729	0.000676283	0.00046391	0.000392146	0.000163132	0.000455788	6.0373E-05	0.000392853
0.002692804	0.001206563	0.000956932	0.000766109	0.000525523	0.000444239	0.000184794	0.000508335	6.83931E-05	0.000445041
0.003081532	0.001371174	0.001095074	0.000876701	0.000601381	0.000508376	0.000211463	0.000572149	7.82674E-05	0.000509294
0.003557099	0.001571567	0.001264076	0.001011998	0.000694183	0.000586842	0.000244089	0.00064923	9.03476E-05	0.000587901
0.004139586	0.001816204	0.001471074	0.001177713	0.00080785	0.000682949	0.00028405	0.000742829	0.000105144	0.000684181
0.00484101	0.002110724	0.001720339	0.001377265	0.000944725	0.00079868	0.00033217	0.000855472	0.000122961	0.000800121
0.005581623	0.002428639	0.00198353	0.001587968	0.001089253	0.000920872	0.000382983	0.000981349	0.000141773	0.000922534
0.006480327	0.002812485	0.002302901	0.001843647	0.00126463	0.001069149	0.000444642	0.001132164	0.000164601	0.001071078
0.007482612	0.003250321	0.002659081	0.002128797	0.001460227	0.001234507	0.000513415	0.001310112	0.000190059	0.001236734
0.008708241	0.003792686	0.003094629	0.00247749	0.001699415	0.001436708	0.000597519	0.001534678	0.000221189	0.0014393
0.002201648	0.000999727	0.00078239	0.000626378	0.000429679	0.000363202	0.000151099	0.000428854	5.59169E-05	0.000363857
0.002471906	0.001116088	0.000878431	0.000703265	0.000482419	0.00040779	0.000169642	0.000475138	6.27816E-05	0.000408526
0.002790948	0.001252871	0.000991809	0.000794032	0.000544679	0.000460429	0.000191531	0.000529195	7.08855E-05	0.000461259
0.003171065	0.001415546	0.00112689	0.000902175	0.000618857	0.000523143	0.000217611	0.000593307	8.05408E-05	0.000524087

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.00361941	0.001607339	0.001286218	0.001029728	0.000706349	0.000597115	0.000248372	0.000668845	9.19292E-05	0.000598193
0.004135343	0.001828504	0.001469565	0.00117651	0.000807031	0.000682238	0.00028377	0.000756231	0.000105034	0.000683469
0.004658461	0.002059298	0.001655463	0.001325337	0.00090912	0.000768541	0.000319666	0.000851383	0.000118321	0.000769927
0.005236986	0.002317562	0.001861052	0.001489929	0.001022023	0.000863982	0.000359367	0.00095964	0.000133015	0.000865541
0.005858366	0.002600235	0.002081869	0.001666714	0.001143293	0.00096649	0.000402012	0.001081193	0.000148797	0.000968234
0.00661436	0.002938778	0.002350524	0.001881796	0.001290832	0.001091208	0.000453892	0.001223711	0.000167998	0.001093177
0.005379901	0.002638257	0.001911809	0.00153065	0.001050084	0.000887359	0.000369376	0.001243308	0.000136614	0.00088896
0.004801373	0.002417989	0.001706215	0.001366066	0.000937205	0.000791887	0.000329705	0.001173053	0.000121915	0.000793316
0.004266131	0.002216612	0.001516003	0.001213798	0.000832774	0.000703556	0.000293004	0.001110465	0.000108316	0.000704826
0.002034938	0.000930326	0.000723146	0.000578949	0.000397148	0.000335695	0.000139663	0.000402681	5.16821E-05	0.0003363
0.002261091	0.001028945	0.000803514	0.00064329	0.000441282	0.000373006	0.00015518	0.000442659	5.74263E-05	0.000373679
0.002521909	0.001142474	0.0008962	0.000717492	0.00049218	0.000416036	0.000173076	0.00048856	6.40511E-05	0.000416787
0.00282262	0.001273383	0.001003063	0.000803044	0.000550864	0.000465648	0.00019371	0.000541495	7.16892E-05	0.000466489
0.003165151	0.001422856	0.001124788	0.000900494	0.000617709	0.00052216	0.000217213	0.000602152	8.03894E-05	0.000523102
0.003514028	0.001578808	0.001248767	0.000999751	0.000685795	0.000579715	0.000241154	0.000667642	8.92504E-05	0.000580761
0.003903355	0.001753815	0.00138712	0.001110515	0.000761776	0.000643943	0.000267872	0.000741699	9.91387E-05	0.000645105
0.004296189	0.001934969	0.00152672	0.001222279	0.000838444	0.000708746	0.000294835	0.000820994	0.000109115	0.000710025
0.005179366	0.002344719	0.001840569	0.001473548	0.001010813	0.000854435	0.000355454	0.001001743	0.000131545	0.000855977
0.005553674	0.002614273	0.001973574	0.001580064	0.00108393	0.000916106	0.000381221	0.001174253	0.00014104	0.000917759
0.005256896	0.002502158	0.001868106	0.001495635	0.001026025	0.000867129	0.000360871	0.001139094	0.000133499	0.000868694
0.004903367	0.002368741	0.001742471	0.001395061	0.000957047	0.000808787	0.00033663	0.001097348	0.000124517	0.000810247
0.00451747	0.002222358	0.001605333	0.001285279	0.000881754	0.000745104	0.000310168	0.001051028	0.000114713	0.000746448
0.004124512	0.002073062	0.001465686	0.001173488	0.000805083	0.000680256	0.000283223	0.001003627	0.000104729	0.000681483
0.003742466	0.001928142	0.001329917	0.001064801	0.000730541	0.000617208	0.000257025	0.000957773	9.50226E-05	0.000618322
0.001879047	0.000865126	0.000667747	0.000534599	0.000366727	0.000309973	0.000128968	0.000377903	4.77221E-05	0.000310533
0.002064854	0.0009473	0.000733777	0.000587461	0.000402988	0.000340627	0.000141718	0.000411899	5.24415E-05	0.000341242
0.002277165	0.001041268	0.000809225	0.000647864	0.000444422	0.000375654	0.000156287	0.000450815	5.7834E-05	0.000376332
0.002518551	0.001148398	0.000895006	0.000716539	0.00049153	0.000415477	0.000172852	0.000495355	6.39649E-05	0.000416226
0.002775165	0.001263214	0.000986198	0.000789546	0.00054161	0.000457811	0.000190462	0.000543632	7.04826E-05	0.000458637
0.003039494	0.001383881	0.001080131	0.000864749	0.000593198	0.000501416	0.000208603	0.000595761	7.71958E-05	0.000502321
0.003318874	0.001513342	0.001179413	0.000944234	0.000647724	0.000547503	0.000227779	0.000652781	8.42912E-05	0.000548491
0.003893242	0.001782892	0.001383523	0.001107646	0.000759825	0.000642249	0.000267205	0.000773402	9.88778E-05	0.000643407
0.004126063	0.001898097	0.001466258	0.001173887	0.000805269	0.000680649	0.000283191	0.000828239	0.00010479	0.000681877
0.004578811	0.002150039	0.001627144	0.001302707	0.000893659	0.000755302	0.000314299	0.000962792	0.000116283	0.000756665
0.004542369	0.002146422	0.001614192	0.001292342	0.000886556	0.00074928	0.000311809	0.000968625	0.000115356	0.000750632
0.004462021	0.002128158	0.001585637	0.001269487	0.000870887	0.000736011	0.000306309	0.000971197	0.000113313	0.000737339

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.004289487	0.002065833	0.001524322	0.001220404	0.000837225	0.000707536	0.00029448	0.000953612	0.000108929	0.000708812
0.004066517	0.001982284	0.001445084	0.001156972	0.000793721	0.000670739	0.000279192	0.000927879	0.000103264	0.000671949
0.003812829	0.001886351	0.00135493	0.001084802	0.000744224	0.000628874	0.000261796	0.000897728	9.68186E-05	0.000630008
0.003544195	0.001784145	0.001259464	0.001008379	0.00069181	0.000584542	0.000243375	0.00086518	8.99935E-05	0.000585597
0.003249009	0.00166044	0.001154564	0.0009244	0.000634207	0.000535838	0.000223125	0.000818015	8.24952E-05	0.000536804
0.001730123	0.00080235	0.000614824	0.000492231	0.000337666	0.000285402	0.000118751	0.000353742	4.39392E-05	0.000285917
0.001886954	0.000872875	0.000670557	0.00053685	0.000368273	0.000311275	0.000129514	0.000383602	4.79225E-05	0.000311836
0.002062313	0.000951878	0.000732873	0.00058674	0.000402496	0.000340204	0.000141549	0.000417136	5.23762E-05	0.000340817
0.002248587	0.001036127	0.000799069	0.000639735	0.00043885	0.000370933	0.000154332	0.000453085	5.71072E-05	0.000371602
0.002443673	0.00112579	0.000868395	0.000695238	0.000476924	0.000403115	0.000167722	0.000492164	6.20618E-05	0.000403842
0.002865228	0.001323034	0.001018201	0.000815174	0.0005592	0.000472654	0.000196658	0.000580102	7.27677E-05	0.000473507
0.003067127	0.001421454	0.001089948	0.000872617	0.000598607	0.000505955	0.000210519	0.000626171	7.78947E-05	0.000506868
0.003223351	0.001498975	0.001145464	0.000917065	0.000629101	0.000531722	0.000221246	0.000663186	8.18616E-05	0.000532682
0.0033994	0.001588411	0.001208025	0.000967153	0.000663465	0.000560757	0.000233336	0.000706974	8.63317E-05	0.000561769
0.003693333	0.001756897	0.001312474	0.001050787	0.000720853	0.000609219	0.000253536	0.000799249	9.37927E-05	0.000610319
0.003683752	0.001762943	0.001309068	0.001048064	0.00071899	0.000607631	0.000252887	0.000807781	9.35481E-05	0.000608727
0.003650341	0.00176155	0.001297193	0.001038561	0.000712479	0.000602108	0.000250605	0.000815053	9.26979E-05	0.000603195
0.00354345	0.001723605	0.001259207	0.001008153	0.000691624	0.000584466	0.000243277	0.000804826	8.99818E-05	0.000585521
0.003403827	0.001672828	0.001209588	0.000968432	0.000664384	0.000561423	0.000233705	0.000790253	8.64342E-05	0.000562436
0.003236968	0.001610805	0.00115029	0.000920964	0.000631828	0.000533886	0.000222264	0.000771497	8.21947E-05	0.000534849
0.003033399	0.001526887	0.001077948	0.000863049	0.000592105	0.000500297	0.0002083	0.000740365	7.70235E-05	0.000501199
0.002848387	0.001458007	0.001012199	0.000810417	0.000556007	0.000469764	0.000195614	0.000719459	7.23228E-05	0.000470611
0.016434152	0.007109748	0.005840175	0.004675496	0.003207096	0.002711385	0.001127598	0.00284844	0.000417433	0.002716278
0.016732394	0.007260364	0.005946158	0.004760351	0.003265311	0.002760574	0.001148078	0.002921725	0.000425006	0.002765555
0.017012764	0.007405661	0.006045789	0.004840122	0.003320041	0.002806812	0.001167334	0.002994326	0.000432124	0.002811876
0.017273154	0.007544785	0.00613832	0.004914209	0.003370873	0.002849751	0.001185221	0.003065936	0.000438735	0.002854893
0.017527047	0.007684263	0.006228543	0.004986448	0.00342044	0.002891617	0.001202665	0.003139584	0.000445181	0.002896834
0.017766099	0.007820447	0.00631349	0.005054466	0.003467112	0.002931031	0.001219093	0.003213786	0.000451249	0.00293632
0.017933783	0.007670273	0.006373106	0.005102119	0.003499688	0.002958871	0.001230423	0.003020106	0.000455535	0.00296421
0.018309242	0.007854312	0.00650653	0.005208941	0.003572972	0.003020799	0.001256201	0.003106793	0.000465069	0.003026249
0.01864143	0.008022718	0.006624576	0.005303454	0.003637814	0.003075586	0.001279013	0.003189067	0.000473504	0.003081135
0.018948781	0.008183675	0.006733795	0.005390902	0.003697812	0.003126272	0.001300123	0.003270332	0.000481307	0.003131913
0.019243495	0.008343002	0.006838523	0.005474755	0.003755346	0.00317487	0.00132037	0.003353244	0.000488789	0.003180599
0.019517318	0.008497226	0.006935827	0.005552666	0.003808806	0.003220019	0.001339186	0.003436471	0.00049574	0.003225829
0.019771719	0.008647329	0.007026229	0.005625053	0.003858478	0.00326196	0.001356672	0.003520615	0.000502197	0.003267845
0.019992481	0.00878648	0.007104675	0.00568787	0.003901589	0.003298348	0.001371854	0.003602527	0.000507799	0.003304299

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.020009246	0.008480784	0.00711067	0.005692564	0.003904653	0.003301359	0.001372758	0.003292448	0.000508263	0.003307316
0.020462117	0.008700791	0.007271603	0.005821411	0.003993046	0.003376057	0.00140385	0.00339503	0.000519763	0.003382148
0.020879981	0.008910815	0.007420095	0.0059403	0.00407461	0.003444975	0.001432544	0.003496707	0.000530373	0.003451191
0.021235048	0.009098381	0.007546271	0.006041324	0.004143924	0.003503529	0.001456933	0.00359221	0.000539388	0.003509851
0.021547035	0.009271983	0.007657136	0.006130093	0.004204833	0.003554972	0.001478369	0.003684919	0.000547308	0.003561386
0.021828507	0.009437514	0.007757157	0.006210183	0.004259791	0.003601377	0.001497717	0.003777471	0.000554452	0.003607875
0.022084605	0.0095979	0.00784816	0.006283054	0.004309801	0.00364359	0.001515327	0.003871458	0.000560951	0.003650164
0.02232634	0.009759592	0.007934059	0.006351841	0.004357013	0.003683428	0.001531958	0.003970475	0.000567084	0.003690074
0.022530237	0.009912536	0.008006509	0.006409865	0.004396846	0.003717017	0.001545999	0.004070557	0.000572256	0.003723724
0.023060584	0.009718052	0.008195028	0.006560646	0.004500061	0.003804848	0.001582054	0.003738506	0.000585778	0.003811713
0.023501492	0.00994353	0.008351709	0.006686093	0.004586127	0.003877564	0.001612334	0.003849663	0.000596973	0.00388456
0.023905201	0.01016002	0.008495169	0.006800957	0.004664937	0.003944137	0.001640066	0.003961478	0.000607222	0.003951254
0.024224569	0.010346152	0.008608657	0.006891828	0.004727293	0.003996791	0.001662017	0.004064805	0.000615328	0.004004002
0.024538934	0.010538963	0.008720365	0.006981279	0.004788679	0.004048612	0.001683631	0.004176109	0.000623306	0.004055917
0.024834376	0.010736176	0.008825348	0.007065348	0.00484638	0.004097301	0.001703957	0.004296723	0.000630802	0.004104694
0.025022165	0.010889059	0.008892073	0.007118791	0.004883074	0.004128227	0.001716898	0.004400922	0.000635564	0.004135676
0.025159186	0.011027808	0.008940757	0.007157792	0.004909866	0.004150771	0.001726362	0.004504151	0.000639034	0.00415826
0.025240942	0.011150075	0.0089698	0.007181072	0.004925878	0.004164192	0.00173204	0.004605229	0.000641101	0.004171705
0.025276249	0.011261881	0.008982335	0.00719114	0.004932832	0.004169941	0.001734538	0.004707892	0.000641986	0.004177465
0.026689084	0.011196359	0.009484493	0.007592928	0.005208096	0.004403567	0.001830945	0.004275948	0.000677954	0.004411513
0.027067625	0.011412862	0.009619008	0.007700636	0.005282002	0.004465979	0.001856959	0.004394303	0.000687562	0.004474037
0.02742219	0.011629711	0.009745001	0.007801524	0.005351237	0.004524428	0.001881337	0.004519222	0.000696561	0.004532591
0.027759677	0.011854119	0.009864924	0.007897557	0.005417149	0.004580046	0.001904555	0.00465613	0.000705124	0.00458831
0.027951106	0.012021996	0.009932942	0.007952039	0.005454562	0.004611563	0.001917756	0.00477438	0.000709976	0.004619883
0.028073799	0.012169488	0.009976532	0.007986968	0.005478568	0.004631731	0.001926249	0.00489007	0.000713081	0.004640088
0.028132352	0.012300773	0.009997327	0.008003651	0.005490065	0.004641309	0.00193035	0.005006184	0.000714555	0.004649683
0.028129617	0.012419038	0.009996341	0.008002902	0.005489611	0.004640764	0.001930256	0.005125173	0.000714472	0.004649137
0.028056399	0.012514969	0.009970306	0.007982102	0.005475407	0.004628584	0.001925333	0.005240105	0.000712596	0.004636936
0.027744266	0.01254238	0.009859365	0.007893339	0.005414602	0.00457696	0.001904044	0.005348469	0.000704649	0.004585218
0.02754119	0.012601492	0.009787181	0.007835599	0.00537507	0.00454334	0.001890226	0.005460256	0.000699473	0.004551538
0.030885096	0.012926462	0.010975632	0.008786668	0.006026884	0.005095912	0.002118779	0.004918032	0.000784544	0.005105107
0.031171166	0.013135147	0.011077282	0.008868075	0.006082766	0.005143043	0.002138474	0.00505255	0.0007918	0.005152322
0.031386787	0.013328962	0.011153895	0.008929443	0.006124911	0.005178538	0.002153348	0.005190468	0.000797265	0.005187882
0.031502242	0.013494067	0.01119491	0.008962318	0.006147518	0.005197497	0.00216136	0.005325649	0.000800184	0.005206874
0.031529275	0.013636649	0.011204501	0.00897004	0.00615288	0.005201854	0.002163318	0.005461237	0.000800854	0.00521124
0.031463759	0.013755165	0.011181202	0.008951436	0.006140192	0.00519093	0.002158938	0.005596759	0.000799173	0.005200296

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.031313004	0.013846862	0.011127609	0.008908583	0.006110877	0.005165935	0.002148718	0.005727564	0.000795325	0.005175256
0.030792753	0.013834757	0.010942703	0.008760623	0.006009492	0.005079935	0.002113189	0.005850383	0.000782084	0.0050891
0.030519514	0.013900711	0.010845581	0.008682931	0.005956292	0.00503471	0.002094587	0.005987209	0.000775122	0.005043794
0.030214305	0.013959987	0.010737096	0.008596145	0.005896857	0.004984205	0.002073796	0.006125647	0.000767346	0.004993198
0.029826782	0.013992185	0.01059936	0.008485944	0.005821366	0.004920114	0.002047364	0.006258352	0.000757479	0.004928991
0.035582034	0.015051972	0.012644763	0.010122964	0.006943545	0.005870762	0.002441124	0.005825656	0.000903837	0.005881355
0.03554189	0.015194251	0.012630478	0.010111581	0.006935817	0.005864014	0.002438496	0.005978363	0.000902798	0.005874595
0.035382714	0.015305088	0.012573891	0.010066339	0.006904873	0.005837612	0.002427715	0.006130495	0.000898733	0.005848145
0.034916553	0.015332346	0.012408205	0.009933771	0.006814054	0.005760523	0.002395911	0.006278653	0.000886865	0.005770917
0.034449214	0.015361829	0.012242099	0.009800869	0.006723007	0.005683238	0.002364027	0.006429344	0.000874966	0.005693492
0.034066073	0.015430251	0.012105916	0.009691922	0.006648393	0.005619842	0.002337923	0.00659714	0.000865206	0.005629982
0.033592413	0.015477924	0.011937562	0.009557227	0.006556127	0.005541498	0.002305622	0.00676766	0.000853145	0.005551496
0.03305288	0.015510612	0.011745797	0.009403794	0.006451014	0.005452275	0.002268813	0.006940278	0.000839408	0.005462112
0.032453318	0.015525662	0.0115327	0.009233285	0.006334193	0.005353141	0.002227891	0.007110825	0.000824146	0.0053628
0.031792773	0.015514554	0.01129793	0.009045426	0.006205471	0.005243946	0.002182785	0.007271026	0.000807335	0.005253408
0.031102718	0.015475517	0.011052675	0.008849168	0.006070979	0.005129895	0.002135642	0.007410948	0.000789776	0.00513915
0.04001447	0.0171172	0.014219892	0.011384022	0.007808625	0.006601931	0.002745364	0.006741589	0.001016404	0.006613843
0.039586837	0.017182536	0.014067895	0.011262421	0.007725339	0.006531182	0.002716219	0.006917839	0.001005512	0.006542967
0.038907248	0.017189218	0.013826355	0.01106915	0.007592918	0.006418825	0.002669827	0.00710077	0.000988214	0.006430407
0.038204349	0.017201597	0.013576529	0.010869252	0.007455958	0.00630261	0.002621848	0.007295446	0.000970322	0.006313981
0.03749475	0.017229285	0.013324321	0.010667452	0.007317703	0.006185275	0.002573423	0.007507169	0.000952258	0.006196435
0.036761498	0.017267823	0.013063704	0.010458928	0.007174846	0.006064021	0.002523393	0.007735878	0.00093359	0.006074962
0.035948748	0.017293475	0.012774833	0.010227791	0.007016489	0.005929634	0.002467924	0.007972318	0.0009129	0.005940333
0.035110714	0.017314092	0.012476977	0.009989463	0.006853202	0.005791071	0.002410725	0.008210278	0.000891568	0.00580152
0.034194349	0.01729799	0.012151285	0.009728849	0.006674627	0.005639587	0.00234815	0.008431831	0.000868246	0.005649763
0.033233906	0.017231052	0.011809933	0.009455688	0.00648743	0.005480856	0.002282525	0.008613973	0.000843808	0.005490745
0.032256089	0.017089939	0.011462414	0.009177567	0.006296797	0.00531931	0.002215656	0.008726438	0.000818938	0.005328908
0.031259389	0.016826596	0.011108199	0.008894048	0.006102404	0.005154738	0.002147401	0.008721555	0.000793601	0.005164039
0.043125075	0.01927428	0.015325205	0.012269179	0.008416192	0.007114499	0.00295943	0.008092197	0.001095317	0.007127335
0.04211749	0.019282769	0.014967089	0.011982629	0.008219858	0.006947915	0.002890646	0.008362001	0.00106967	0.006960451
0.04105664	0.019310196	0.014590039	0.011680934	0.008013157	0.00677251	0.002818241	0.008664561	0.001042666	0.006784729
0.039962858	0.019360241	0.014201281	0.01136988	0.007800055	0.006591643	0.002743604	0.00899828	0.00101482	0.006603536
0.038845814	0.019426008	0.013804254	0.011052213	0.007582429	0.006406918	0.002667392	0.009353758	0.000986381	0.006418478
0.037657656	0.01802235	0.013382126	0.010713971	0.007349973	0.006211586	0.002585169	0.008258078	0.000956308	0.006222794
0.036448876	0.016206242	0.012952718	0.010369766	0.007113224	0.006013168	0.002501214	0.006755249	0.000925761	0.006024018
0.035229087	0.015853409	0.012519223	0.010022779	0.0068753	0.005811785	0.002417658	0.006718724	0.000894757	0.005822271

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.033990297	0.015488623	0.012078976	0.009670386	0.006633666	0.005607269	0.002332796	0.006675171	0.00086327	0.005617386
0.045965558	0.021653102	0.016334486	0.013077568	0.008971269	0.007582235	0.003155229	0.00973463	0.001167327	0.007595916
0.04452467	0.020355512	0.01582252	0.012667476	0.008689636	0.007345038	0.003055835	0.008810576	0.00113081	0.007358291
0.043033754	0.020243837	0.015292633	0.012243439	0.008399039	0.007098642	0.002953958	0.009085553	0.001092876	0.00711145
0.041534624	0.018320335	0.014760042	0.011816634	0.008105642	0.006852307	0.002850095	0.007550618	0.001054951	0.00686467
0.040024247	0.017887006	0.014223275	0.011386986	0.00781104	0.006602945	0.002746637	0.007508951	0.00101656	0.006614859
0.038504086	0.017436215	0.013683034	0.010954552	0.007514521	0.00635198	0.002642496	0.007452355	0.000977923	0.006363441
0.0477715	0.020898517	0.016976443	0.013590989	0.009322678	0.00788139	0.003277932	0.00851159	0.001213384	0.007895611
0.045874061	0.020382098	0.016302117	0.013051243	0.008952598	0.007568103	0.003147982	0.008487205	0.001165152	0.007581759
0.043981474	0.019827171	0.015629521	0.012512867	0.008583437	0.007255649	0.003018334	0.008423049	0.001117048	0.00726874
0.042093332	0.019244588	0.014958507	0.011975749	0.008215125	0.006943951	0.002888967	0.008330082	0.00106906	0.00695648
0.015911452	0.006619146	0.005654455	0.004526726	0.003104917	0.002625355	0.001091526	0.002493341	0.000404188	0.002630092
0.016328634	0.006801095	0.005802708	0.004645414	0.00318633	0.002694182	0.001120151	0.002567116	0.000414784	0.002699043
0.016741329	0.006982764	0.005949367	0.004762826	0.003266869	0.002762268	0.00114847	0.002641775	0.000425267	0.002767252
0.017153391	0.007165743	0.0060958	0.004880058	0.003347285	0.002830249	0.001176746	0.002717909	0.000435733	0.002835355
0.017238828	0.007098841	0.006126173	0.00490434	0.003363889	0.002844426	0.001182527	0.002628841	0.000437915	0.002849558
0.017744114	0.007313451	0.006305736	0.005048092	0.003462492	0.002927793	0.001217193	0.002712432	0.00045075	0.002933076
0.01824519	0.007528087	0.006483803	0.005190647	0.003560275	0.003010465	0.001251572	0.002797141	0.000463478	0.003015897
0.018746825	0.007744761	0.006662068	0.005333362	0.003658168	0.003093227	0.00128599	0.002883743	0.00047622	0.003098809
0.018714153	0.007628786	0.00665047	0.005324042	0.003651724	0.003087917	0.001283668	0.002776228	0.000475402	0.003093488
0.019333945	0.007885347	0.006870726	0.005500369	0.003772668	0.003190182	0.001326185	0.002872078	0.000491146	0.003195938
0.019942284	0.00813921	0.007086911	0.005673439	0.003891378	0.003290556	0.001367918	0.0029682	0.000506599	0.003296493
0.020608858	0.008418294	0.007323791	0.005863076	0.004021452	0.003400538	0.001413646	0.003074443	0.000523532	0.003406673
0.020342192	0.00821003	0.007229038	0.005787188	0.003969352	0.003356615	0.001395276	0.002935313	0.00051677	0.003362671
0.021172757	0.008544863	0.007524197	0.006023477	0.004131419	0.003493664	0.001452244	0.003054781	0.000537869	0.003499968
0.02195226	0.008861579	0.00780121	0.006245239	0.004283524	0.003622287	0.001505712	0.003169373	0.000557671	0.003628822
0.022729022	0.009179401	0.008077249	0.006466223	0.004435095	0.003750455	0.001558994	0.003285781	0.000577403	0.003757222
0.022203077	0.008873113	0.007890354	0.006316573	0.004332406	0.003663744	0.001522845	0.00311586	0.000564054	0.003670354
0.023216163	0.009272903	0.008250377	0.006604786	0.004530082	0.003830918	0.001592326	0.003252956	0.000589791	0.00383783
0.024172963	0.009652729	0.008590397	0.006876986	0.004716778	0.003988802	0.001657948	0.003384683	0.000614098	0.003995999
0.025128031	0.010034089	0.008929802	0.007148695	0.004903136	0.004146398	0.001723453	0.003518395	0.000638361	0.00415388
0.024292034	0.009614956	0.008632722	0.00691084	0.004739955	0.004008516	0.001666048	0.003316025	0.000617134	0.004015749
0.02546517	0.010069155	0.009049624	0.007244584	0.004968855	0.004202108	0.001746498	0.003466029	0.000646938	0.00420969
0.026677098	0.010539794	0.009480311	0.007589363	0.005205325	0.0044021	0.00182961	0.003622414	0.000677728	0.004410042
0.027876566	0.011007738	0.009906569	0.007930598	0.005439365	0.004600033	0.001911869	0.003779334	0.000708201	0.004608333
0.02664335	0.010447879	0.009468327	0.007579743	0.005198688	0.004396592	0.001827234	0.00353924	0.00067688	0.004404525

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.028086365	0.010996415	0.009981138	0.007990261	0.00548024	0.004634727	0.001926184	0.003713599	0.000713542	0.00464309
0.029544514	0.011551848	0.010499326	0.008405085	0.005764745	0.004875358	0.002026173	0.003890931	0.000750589	0.004884155
0.031057772	0.012129803	0.011037099	0.008835586	0.006060004	0.005125083	0.002129942	0.004076496	0.000789035	0.00513433
0.029257113	0.011371361	0.0103972	0.008323306	0.005708622	0.004827986	0.002006409	0.003784959	0.000743295	0.004836697
0.031101284	0.012061005	0.011052572	0.008847945	0.006068437	0.005132331	0.002132858	0.003996405	0.000790151	0.005141591
0.032988547	0.012767059	0.011723259	0.009384842	0.00643666	0.005443787	0.002262263	0.004213087	0.000838101	0.005453609
0.034939258	0.013497761	0.012416493	0.00993979	0.006817262	0.005765713	0.002396018	0.004437964	0.000887664	0.005776116
0.032083909	0.012367082	0.01140178	0.009127472	0.006260115	0.005294542	0.002200186	0.004047677	0.000815124	0.005304095
0.034351134	0.01320314	0.012207497	0.00977246	0.006702464	0.005668713	0.002355633	0.004295836	0.00087273	0.005678941
0.036752023	0.014087712	0.013060715	0.010455473	0.007170892	0.006064944	0.002520244	0.004557849	0.000933732	0.006075887
0.039297306	0.015025261	0.013965247	0.011179564	0.00766749	0.006485005	0.002694755	0.004835397	0.000998403	0.006496706
0.035135202	0.013440289	0.012486142	0.009995502	0.006855406	0.005798152	0.00240935	0.004329668	0.000892658	0.005808614
0.037988474	0.014480178	0.013500127	0.010807208	0.007412088	0.006269051	0.002604969	0.004629692	0.000965155	0.006280362
0.041106497	0.015614222	0.014608199	0.01169423	0.008020423	0.006783646	0.002818737	0.00495522	0.00104438	0.006795885
0.044428402	0.016820438	0.015788725	0.012639253	0.008668533	0.00733189	0.003046482	0.005300052	0.001128785	0.007345119
0.038370202	0.014577329	0.013635789	0.010915793	0.007486537	0.006332083	0.002631107	0.004627854	0.00097486	0.006343508
0.041896509	0.015850201	0.014888956	0.011918962	0.008174522	0.006914068	0.002872859	0.004986339	0.001064459	0.006926543
0.045810584	0.017258819	0.016279928	0.013032444	0.008938158	0.007560054	0.003141192	0.005380019	0.001163913	0.007573695
0.050188792	0.01883033	0.017835842	0.014277962	0.009792344	0.008282644	0.00344134	0.005816241	0.001275159	0.008297589
0.041695589	0.015746069	0.014817558	0.011861797	0.008135301	0.006880933	0.00285906	0.004934303	0.001059358	0.006893348
0.046075708	0.017315384	0.016374152	0.013107858	0.008989858	0.007603841	0.003159337	0.005367832	0.001170654	0.007617561
0.050999792	0.019072769	0.018124059	0.014508664	0.009950537	0.008416532	0.0034969	0.005848379	0.001295772	0.008431718
0.056713706	0.021105072	0.020154654	0.016134161	0.011065306	0.009359585	0.003888604	0.006399036	0.00144096	0.009376473
0.04497542	0.016899673	0.015983137	0.012794841	0.008775179	0.007422263	0.00308389	0.005237429	0.001142699	0.007435655
0.050191835	0.018757891	0.017836932	0.01427881	0.009792889	0.008283204	0.003441491	0.005743005	0.001275246	0.00829815
0.056301109	0.020925002	0.02000803	0.016016777	0.010984787	0.009291514	0.003860293	0.00632595	0.00143048	0.009308279
0.063603824	0.023505039	0.022603252	0.018094252	0.012409515	0.010496805	0.004360899	0.007012355	0.001616042	0.010515744
0.048091353	0.017998081	0.01709047	0.013681261	0.009383082	0.00793654	0.003297488	0.005527858	0.001221875	0.00795086
0.054180551	0.020158271	0.019254434	0.015413517	0.010571064	0.008941536	0.003714914	0.006109088	0.001376599	0.00895767
0.061485554	0.022738201	0.021850468	0.017491643	0.011996238	0.010147205	0.004215676	0.006794793	0.001562219	0.010165514
0.070496239	0.025906854	0.025052666	0.020054998	0.013754174	0.011634402	0.004833353	0.007626926	0.001791181	0.011655394
0.050944575	0.019008124	0.018104441	0.014492945	0.009939735	0.008407454	0.00349308	0.005798046	0.001294374	0.008422623
0.057873832	0.02145944	0.020566943	0.01646418	0.011291605	0.009551104	0.003968088	0.00645257	0.001470446	0.009568337
0.066388593	0.024457897	0.0235929	0.018886456	0.012952791	0.010956446	0.004551773	0.007243103	0.001686806	0.010976215
0.07707929	0.028205771	0.027392138	0.021927736	0.01503848	0.012720935	0.005284604	0.00821882	0.001958459	0.012743888
0.053384013	0.019877482	0.018971362	0.015186918	0.010415663	0.00881007	0.003660311	0.006034847	0.001356359	0.008825966

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.06112391	0.022611162	0.021721948	0.017388763	0.011925683	0.010087516	0.004190885	0.00676153	0.001553029	0.010105717
0.070733939	0.025989361	0.025137139	0.020122618	0.013800547	0.011673635	0.004849646	0.007647796	0.001797221	0.011694698
0.083003361	0.03028288	0.029497422	0.023613011	0.01619423	0.013698697	0.005690691	0.008759784	0.002108991	0.013723414
0.055389415	0.020600329	0.019684035	0.015757418	0.010806918	0.009141044	0.003797794	0.006237684	0.001407315	0.009157537
0.063858556	0.023589564	0.022693778	0.018166717	0.012459209	0.010538851	0.004378357	0.007030825	0.001622515	0.010557867
0.074402978	0.027293048	0.026441033	0.021166388	0.014516365	0.012279193	0.005101167	0.008000082	0.00189045	0.012301348
0.088066971	0.032070396	0.031296915	0.025053506	0.017182118	0.014534432	0.006037804	0.00923428	0.002237657	0.014560656
0.056949509	0.02117359	0.020238455	0.016201239	0.0111113	0.009398515	0.003904757	0.006406407	0.001446954	0.009415473
0.066035239	0.024380879	0.02346732	0.018785945	0.012883885	0.010898089	0.004527588	0.007257717	0.001677822	0.010917752
0.077367394	0.02836075	0.027494517	0.022009709	0.015094723	0.012768444	0.005304396	0.008299098	0.001965773	0.012791483
0.092166542	0.033534223	0.03275381	0.026219755	0.017981936	0.015211041	0.006318844	0.009635067	0.002341825	0.015238486
0.058029553	0.021585405	0.020622275	0.016508497	0.011322032	0.009576749	0.003978818	0.006538164	0.001474394	0.009594029
0.067595478	0.024965294	0.02402179	0.019229809	0.013188303	0.011155575	0.004634569	0.007437559	0.001717463	0.011175703
0.079564763	0.029171858	0.028275409	0.022634824	0.015523444	0.013131086	0.005455054	0.008540421	0.002021604	0.013154779
0.095297226	0.034674617	0.03386638	0.02711038	0.018592742	0.015727724	0.006533482	0.009963663	0.002421371	0.015756101
0.058612955	0.021830029	0.020829598	0.016674472	0.011435877	0.009673008	0.004018841	0.006631513	0.001489214	0.009690461
0.068516172	0.025335209	0.024348979	0.019491739	0.013367956	0.011307498	0.004697718	0.007568738	0.001740853	0.0113279
0.080982349	0.029723077	0.028779181	0.023038111	0.015800042	0.013365015	0.005552271	0.008724058	0.002057619	0.013389129
0.097411361	0.035476694	0.03461769	0.027711822	0.019005237	0.016076612	0.006678451	0.01021754	0.002475084	0.016105619
0.058690089	0.021903674	0.020857004	0.016696426	0.011450956	0.009685702	0.004024165	0.006685162	0.001491168	0.009703178
0.06882125	0.025499375	0.02445739	0.019578541	0.013427513	0.011357806	0.004718676	0.007653802	0.001748598	0.011378299
0.081603563	0.030009426	0.028999939	0.02321485	0.015921282	0.013467492	0.005594908	0.008849331	0.002073396	0.013491791
0.098396658	0.035902596	0.034967834	0.027992137	0.019197516	0.016239171	0.006746055	0.010387958	0.002500111	0.016268472
0.058262048	0.021805663	0.020704882	0.01657467	0.011367482	0.009615014	0.003994864	0.006698151	0.001480285	0.009632362
0.068497692	0.025452638	0.024342397	0.019486511	0.013364433	0.011304351	0.004696549	0.007690973	0.001740368	0.011324748
0.081364877	0.030008488	0.028915105	0.023146969	0.015874771	0.013428032	0.005578611	0.008910295	0.002067321	0.013452261
0.098336271	0.035983057	0.034946361	0.027974983	0.019185802	0.016229125	0.006741995	0.01048409	0.002498564	0.016258407
0.057331022	0.02153462	0.020374009	0.016309826	0.011185882	0.009461306	0.003931088	0.006668535	0.001456621	0.009478377
0.067492134	0.025173899	0.023985035	0.019200469	0.013168303	0.011138327	0.004627678	0.00767299	0.001714808	0.011158424
0.080319916	0.029738498	0.028543737	0.022849722	0.015670969	0.013255487	0.005507057	0.008911281	0.002040756	0.013279404
0.097317842	0.035750205	0.034584419	0.027685291	0.018987195	0.016060937	0.006672281	0.010515337	0.002472671	0.016089916
0.055903046	0.02108907	0.019866531	0.015903609	0.010907329	0.009225576	0.003833245	0.006593273	0.001420329	0.009242222
0.065837744	0.024671332	0.023397092	0.018729848	0.012845593	0.010865211	0.004514332	0.007599425	0.00167276	0.010884815
0.078440887	0.029186497	0.027875959	0.022315203	0.015304453	0.012945272	0.005378336	0.008846536	0.001992997	0.012968629
0.095231546	0.035164284	0.033842978	0.027091817	0.018580268	0.015716482	0.006529383	0.010470421	0.00241964	0.015744839
0.05400092	0.020471881	0.019190552	0.015362506	0.010536269	0.008911594	0.003702896	0.006469322	0.00137199	0.008927673

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.06355897	0.023947429	0.022587257	0.018081602	0.012401068	0.010489043	0.004358185	0.007466429	0.001614847	0.010507968
0.075732527	0.028347583	0.026913455	0.021544757	0.014776142	0.012498173	0.005192769	0.008709928	0.001924164	0.012520723
0.092033077	0.034204372	0.032706294	0.026181958	0.017956374	0.015188452	0.00631026	0.01033991	0.002338347	0.015215856
0.051716202	0.01971024	0.018378609	0.01471256	0.01009056	0.008534472	0.003546313	0.006300126	0.00131393	0.008549871
0.060741854	0.023024713	0.021586109	0.017280207	0.011851509	0.01002403	0.004165127	0.007274215	0.001543255	0.010042116
0.072253087	0.027231437	0.025676927	0.020554954	0.014097394	0.011923814	0.00495434	0.008496032	0.001835738	0.011945328
0.087769867	0.032875257	0.031191223	0.024969203	0.017124757	0.014484683	0.006018153	0.010116289	0.002229998	0.014510818
0.049076082	0.018806499	0.017440366	0.013961507	0.009575504	0.008098706	0.003365354	0.006080985	0.001246841	0.008113318
0.057435299	0.021909651	0.020411027	0.016339571	0.01120645	0.009478252	0.003938502	0.007016566	0.00145923	0.009495353
0.068054559	0.025839778	0.024184853	0.019360579	0.01327834	0.011230788	0.0046666	0.008193084	0.001729043	0.011251052
0.082401827	0.031137833	0.029283523	0.023442142	0.016077581	0.01359858	0.005650295	0.009770844	0.002093577	0.013623116
0.046167719	0.017786504	0.016406798	0.013134138	0.0090081	0.007618684	0.00316599	0.005815145	0.001172939	0.00763243
0.053730104	0.020624047	0.01909428	0.015285523	0.010483598	0.008866702	0.003684527	0.006691741	0.001365078	0.0088827
0.063292611	0.024210032	0.022492557	0.018005913	0.012349339	0.010444802	0.004340206	0.007798142	0.001608036	0.010463647
0.076059242	0.029003147	0.027029498	0.02163783	0.014840241	0.012551673	0.00521559	0.009280836	0.0019324	0.01257432
0.043141001	0.016704057	0.015331172	0.012273094	0.008417591	0.007119144	0.002958496	0.00551754	0.001096032	0.007131989
0.049816382	0.01923218	0.017703432	0.014172146	0.009720042	0.008220762	0.003416231	0.006314722	0.001265632	0.008235594
0.058245152	0.02243159	0.020698802	0.016570014	0.011364605	0.009611731	0.003994203	0.007328534	0.00147978	0.009629073
0.069227679	0.026618899	0.02460171	0.019694395	0.013507452	0.011424122	0.004747305	0.008668052	0.001758807	0.011444735
0.004043922	0.002119813	0.001437037	0.001150579	0.00078941	0.000666896	0.000277757	0.001071284	0.000102672	0.000668099
0.004056901	0.002135645	0.001441648	0.001154274	0.000791949	0.000669029	0.000278656	0.001083752	0.000103001	0.000670236
0.004080488	0.002149692	0.00145003	0.001160986	0.000796555	0.000672918	0.000280277	0.001091683	0.000103599	0.000674132
0.004086356	0.002151898	0.001452115	0.001162655	0.0007977	0.000673886	0.00028068	0.001092368	0.000103749	0.000675102
0.004934813	0.002554412	0.001753626	0.001404049	0.000963298	0.000813841	0.000338923	0.001274885	0.000125295	0.000815309
0.004970453	0.002581976	0.001766289	0.001414191	0.000970261	0.000819711	0.000341378	0.001293209	0.000126199	0.00082119
0.005005321	0.002601112	0.00177868	0.001424112	0.000977068	0.000825461	0.000343773	0.001303304	0.000127084	0.00082695
0.004973683	0.002587621	0.001767437	0.001415111	0.000970894	0.000820241	0.000341603	0.001298017	0.000126281	0.000821721
0.006255643	0.003178652	0.002223	0.001779836	0.001221091	0.001031716	0.000429591	0.001556645	0.000158838	0.001033578
0.006282421	0.003209513	0.002232514	0.001787459	0.001226329	0.001036119	0.000431443	0.001580565	0.000159516	0.001037989
0.006257801	0.003209116	0.002223763	0.001780457	0.001221531	0.001032049	0.000429762	0.001586553	0.00015889	0.001033911
0.007184731	0.003001806	0.002553237	0.002044022	0.001402017	0.001185455	0.000492883	0.001138822	0.000182507	0.001187594
0.008869064	0.003662437	0.003151804	0.002523196	0.001730666	0.001463397	0.000608397	0.001362705	0.000225298	0.001466038
0.007268778	0.003028012	0.002583106	0.002067931	0.001418412	0.001199329	0.000498642	0.001143234	0.000184643	0.001201493
0.009184966	0.00377382	0.003264068	0.002613064	0.001792297	0.001515536	0.000630052	0.001392172	0.000233325	0.001518271
0.011966337	0.004840324	0.004252495	0.003404328	0.002334987	0.001974527	0.000820783	0.001737462	0.00030399	0.00197809
0.016200345	0.006438237	0.005757155	0.004608842	0.003161091	0.002673257	0.001111107	0.002237487	0.000411563	0.002678081

Unmitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.007039095	0.002937709	0.002501483	0.002002588	0.001373596	0.001161428	0.000482889	0.001112488	0.000178808	0.001163523
0.008998383	0.003701614	0.003197762	0.002559983	0.001755892	0.001484746	0.000617256	0.001368348	0.000228585	0.001487425
0.011960289	0.004838533	0.004250346	0.003402607	0.002333807	0.001973529	0.000820368	0.001737239	0.000303836	0.00197709
0.016817462	0.006671094	0.005976463	0.004784403	0.003281497	0.002775099	0.001153422	0.002310324	0.000427242	0.002780106
0.008438197	0.003489582	0.002998686	0.002400618	0.001646593	0.0013923	0.000578844	0.001301573	0.000214352	0.001394812
0.011263073	0.004582372	0.004002572	0.003204261	0.002197777	0.001858463	0.000772566	0.001661869	0.000286121	0.001861816
0.015901748	0.006347973	0.005651038	0.004523901	0.003102846	0.002623963	0.00109065	0.002224652	0.000403974	0.002628697
0.007642824	0.003184284	0.002716031	0.002174345	0.001491403	0.001261045	0.000524302	0.001202517	0.000194145	0.001263321
0.010094574	0.004141137	0.003587317	0.00287184	0.001969789	0.001665628	0.000692442	0.001523629	0.000256433	0.001668634
0.01408916	0.005679617	0.005006889	0.00400825	0.002749199	0.002324823	0.000966374	0.002026306	0.000357919	0.002329017

Unmitigated Residential Health Risk Assessment

3. Cancer Risk Summary

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Cancer Risk Summary

			422	Receptor									
			14.28	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
1	482241	3630879	0.5097243	0.3478561	0.032124	0.0501618	0.0343999	0.028134	0.0193376	0.1254994	0.035846	0.0223534	0.1618682
2	482291	3630879	0.5371873	0.3639074	0.0336063	0.0524764	0.0359872	0.0294322	0.0202299	0.1312904	0.0375	0.0233849	0.1732799
3	482341	3630879	0.5631271	0.3779203	0.0349004	0.0544971	0.0373729	0.0305656	0.0210089	0.1363459	0.038944	0.0242854	0.1852069
4	482391	3630879	0.5864709	0.3891379	0.0359363	0.0561147	0.0384823	0.0314728	0.0216325	0.140393	0.0401	0.0250062	0.197333
5	482441	3630879	0.6106795	0.4000015	0.0369396	0.0576813	0.0395566	0.0323515	0.0222364	0.1443124	0.0412195	0.0257043	0.210678
6	482491	3630879	0.635914	0.4107797	0.0379349	0.0592355	0.0406225	0.0332232	0.0228356	0.1482009	0.0423302	0.026397	0.2251342
7	482541	3630879	0.662776	0.4221682	0.0389866	0.0608778	0.0417487	0.0341443	0.0234687	0.1523097	0.0435037	0.0271288	0.2406078
8	482591	3630879	0.6906314	0.4342403	0.0401015	0.0626186	0.0429425	0.0351206	0.0241398	0.156665	0.0447477	0.0279046	0.2563911
9	482641	3630879	0.7246134	0.4507432	0.0416255	0.0649984	0.0445745	0.0364554	0.0250572	0.162619	0.0464483	0.028965	0.2738701
10	482691	3630879	0.7568327	0.4669655	0.0431236	0.0673376	0.0461787	0.0377674	0.025959	0.1684716	0.04812	0.0300075	0.2898673
11	482741	3630879	0.7949406	0.4873012	0.0450016	0.0702701	0.0481897	0.0394121	0.0270895	0.1758083	0.0502156	0.0313143	0.3076394
12	482791	3630879	0.8278474	0.5044877	0.0465887	0.0727485	0.0498893	0.0408021	0.0280449	0.1820089	0.0519866	0.0324187	0.3233597
13	482841	3630879	0.8584161	0.5196846	0.0479921	0.0749399	0.0513922	0.0420312	0.0288897	0.1874916	0.0535526	0.0333953	0.3387315
14	482891	3630879	0.8813864	0.5299623	0.0489413	0.076422	0.0524086	0.0428625	0.029461	0.1911996	0.0546117	0.0340557	0.3514241
15	483191	3630879	0.8932738	0.5257878	0.0485557	0.07582	0.0519957	0.0425248	0.029229	0.1896935	0.0541815	0.0337875	0.367486
16	483241	3630879	0.8763986	0.5131176	0.0473857	0.0739929	0.0507428	0.0415001	0.0285246	0.1851224	0.0528759	0.0329733	0.363281
17	482241	3630929	0.5574621	0.3888083	0.0359059	0.0560672	0.0384497	0.0314462	0.0216142	0.1402741	0.040066	0.0249851	0.1686537
18	482291	3630929	0.5934796	0.4118905	0.0380375	0.0593957	0.0407323	0.033313	0.0228973	0.1486017	0.0424446	0.0264683	0.1815891
19	482341	3630929	0.6293617	0.4337764	0.0400586	0.0625517	0.0428966	0.0350831	0.024114	0.1564977	0.0446999	0.0278747	0.1955852
20	482391	3630929	0.664521	0.4538314	0.0419107	0.0654437	0.0448799	0.0367051	0.0252289	0.1637331	0.0467666	0.0291635	0.2106895
21	482441	3630929	0.6968631	0.4705053	0.0434505	0.0678481	0.0465288	0.0380537	0.0261558	0.1697487	0.0484848	0.030235	0.2263578
22	482491	3630929	0.7302736	0.486581	0.0449351	0.0701663	0.0481185	0.0393539	0.0270494	0.1755485	0.0501414	0.031268	0.2436925
23	482841	3630929	1.0264821	0.6357058	0.0587065	0.0916704	0.0628656	0.0514148	0.0353394	0.2293497	0.0655084	0.0408509	0.3907763
24	482891	3630929	1.0592373	0.6502924	0.0600536	0.0937739	0.0643081	0.0525946	0.0361503	0.2346122	0.0670115	0.0417882	0.4089449
25	483141	3630929	1.079592	0.6451535	0.059579	0.0930328	0.0637999	0.0521789	0.0358646	0.2327582	0.066482	0.041458	0.4344385
26	483191	3630929	1.0610203	0.6290778	0.0580944	0.0907147	0.0622102	0.0508788	0.0349709	0.2269584	0.0648254	0.0404249	0.4319426
27	483241	3630929	1.0313092	0.606081	0.0559707	0.0873985	0.059936	0.0490188	0.0336925	0.2186617	0.0624556	0.0389471	0.4252282
28	482241	3630979	0.602596	0.4290648	0.0396235	0.0618723	0.0424307	0.034702	0.0238521	0.1547978	0.0442144	0.027572	0.1735312
29	482341	3630979	0.7040557	0.4983846	0.0460251	0.0718684	0.0492858	0.0403085	0.0277056	0.179807	0.0513577	0.0320265	0.2056712
30	482391	3630979	0.7521243	0.5291323	0.0488646	0.0763023	0.0523265	0.0427953	0.0294149	0.1909001	0.0545262	0.0340024	0.222992
31	482441	3630979	0.8035867	0.5604782	0.0517594	0.0808224	0.0554263	0.0453305	0.0311574	0.2022091	0.0577563	0.0360167	0.2431086
32	482491	3630979	0.8575459	0.5915067	0.0546248	0.0852968	0.0584947	0.0478401	0.0328823	0.2134035	0.0609538	0.0380106	0.2660392
33	482541	3630979	0.9043943	0.6155043	0.0568409	0.0887573	0.0608679	0.049781	0.0342164	0.2220614	0.0634267	0.0395527	0.28889
34	482591	3630979	0.9468825	0.6351931	0.0586592	0.0915965	0.0628149	0.0513734	0.0353109	0.2291647	0.0654556	0.0408179	0.3116894
35	482641	3630979	1.00623	0.6660141	0.0615055	0.096041	0.0658629	0.0538661	0.0370243	0.2402843	0.0686316	0.0427985	0.3402159
36	482691	3630979	1.0654413	0.6974332	0.064407	0.1005717	0.0689699	0.0564072	0.0387709	0.2516197	0.0718693	0.0448175	0.3680081
37	482791	3630979	1.2041214	0.7739059	0.0714691	0.1115993	0.0765324	0.0625922	0.0430221	0.2792095	0.0797497	0.0497317	0.4302155
38	482841	3630979	1.2584377	0.8007232	0.0739456	0.1154664	0.0791844	0.0647612	0.0445129	0.2888846	0.0825132	0.051455	0.4577145
39	482891	3630979	1.3035651	0.8204609	0.0757684	0.1183126	0.0811363	0.0663575	0.0456101	0.2960055	0.0845471	0.0527233	0.4831043
40	483141	3630979	1.312471	0.7917271	0.0731149	0.1141691	0.0782948	0.0640336	0.0440128	0.285639	0.0815862	0.0508769	0.5207438
41	483191	3630979	1.2795768	0.761431	0.0703171	0.1098004	0.0752987	0.0615833	0.0423286	0.2747088	0.0784642	0.04893	0.5181457
42	483241	3630979	1.2274654	0.7211379	0.0665961	0.10399	0.0713141	0.0583244	0.0400886	0.2601719	0.0743121	0.0463408	0.5063275
43	482241	3631029	0.6520327	0.4731419	0.043694	0.0682283	0.0467895	0.0382669	0.0263023	0.1706999	0.0487565	0.0304044	0.1788908
44	482291	3631029	0.7157145	0.5198921	0.0480113	0.0749698	0.0514127	0.042048	0.0289012	0.1875665	0.053574	0.0334086	0.1958224
45	482341	3631029	0.7856558	0.570524	0.0526871	0.0822711	0.0564197	0.046143	0.0317159	0.2058334	0.0587915	0.0366622	0.2151318
46	482441	3631029	0.930538	0.6709821	0.0619642	0.0967574	0.0663542	0.0542679	0.0373004	0.2420767	0.0691436	0.0431177	0.2595559
47	482491	3631029	1.0056654	0.7196121	0.0664552	0.10377	0.0711632	0.058201	0.0400038	0.2596214	0.0741548	0.0462427	0.2860532
48	482541	3631029	1.0734728	0.7598442	0.0701705	0.1095715	0.0751418	0.0614549	0.0422404	0.2741363	0.0783007	0.0488281	0.3136286

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Cancer Risk Summary

			422	Receptor									
			14.28	**Max**									
Receptor #	**X**	**Y**	**Total**	**Total Onsite**	**Onsite Demolition**	**Site Prep**	**Grading**	**Trenching**	**Foundation**	BC	**AC**	**Paving**	**Total Haul1**
49	482591	3631029	1.140108	0.796451	0.0735511	0.1148503	0.0787619	0.0644156	0.0442754	0.2873433	0.0820729	0.0511804	0.343657
50	482641	3631029	1.225615	0.8445562	0.0779936	0.1217872	0.0835191	0.0683063	0.0469496	0.3046986	0.0870301	0.0542717	0.3810589
51	482691	3631029	1.3096563	0.8913552	0.0823154	0.1285358	0.0881471	0.0720913	0.0495512	0.3215828	0.0918527	0.057279	0.4183011
52	482791	3631029	1.5089041	1.0047032	0.0927829	0.1448808	0.0993562	0.0812587	0.0558523	0.3624764	0.103533	0.0645629	0.5042009
53	482841	3631029	1.588503	1.0443738	0.0964464	0.1506014	0.1032793	0.0844672	0.0580576	0.3767888	0.107621	0.0671121	0.5441292
54	482891	3631029	1.6542322	1.0723141	0.0990267	0.1546305	0.1060423	0.086727	0.0596108	0.3868691	0.1105002	0.0689076	0.5819181
55	482941	3631029	1.6968586	1.0848134	0.100181	0.1564329	0.1072784	0.0877379	0.0603057	0.3913785	0.1117882	0.0697108	0.6120452
56	482991	3631029	1.7188044	1.0856434	0.1002576	0.1565526	0.1073605	0.087805	0.0603518	0.391678	0.1118737	0.0697641	0.633161
57	483141	3631029	1.6230543	0.9844285	0.0909106	0.1419572	0.0973512	0.0796189	0.0547252	0.3551617	0.1014437	0.06326	0.6386257
58	483191	3631029	1.5536637	0.9255086	0.0854694	0.1334608	0.0915245	0.0748536	0.0514498	0.3339046	0.0953721	0.0594738	0.6281552
59	483241	3631029	1.4732807	0.8603878	0.0794556	0.1240702	0.0850847	0.0695867	0.0478297	0.3104104	0.0886615	0.0552891	0.6128929
60	482241	3631079	0.6935581	0.5112256	0.047211	0.0737201	0.0505557	0.0413471	0.0284195	0.1844398	0.0526809	0.0328517	0.1823325
61	482291	3631079	0.7741049	0.5730507	0.0529204	0.0826354	0.0566696	0.0463474	0.0318564	0.206745	0.0590519	0.0368246	0.2010542
62	482341	3631079	0.8638804	0.6417113	0.0592611	0.0925365	0.0634595	0.0519005	0.0356733	0.2315164	0.0661273	0.0412368	0.2221691
63	482391	3631079	0.9657821	0.7189652	0.0663954	0.1036767	0.0710993	0.0581487	0.0399679	0.259388	0.0740882	0.0462012	0.2468169
64	482441	3631079	1.0746293	0.8001251	0.0738904	0.1153801	0.0791252	0.0647128	0.0444796	0.2886688	0.0824516	0.0514165	0.2745042
65	482591	3631079	1.4050551	1.0271629	0.094857	0.1481196	0.1015773	0.0830752	0.0571008	0.3705794	0.1058474	0.0660061	0.3778922
66	482641	3631079	1.5343231	1.108335	0.1023532	0.1598248	0.1096045	0.0896403	0.0616133	0.3998647	0.1142121	0.0712223	0.4259881
67	482691	3631079	1.6612562	1.1850152	0.1094345	0.1708823	0.1171874	0.0958421	0.065876	0.4275293	0.1221138	0.0761498	0.476241
68	482791	3631079	1.9654054	1.3666332	0.1262066	0.1970721	0.1351478	0.110531	0.0759723	0.4930534	0.1408293	0.0878207	0.5987722
69	482841	3631079	2.092419	1.4308507	0.132137	0.2063324	0.1414984	0.1157248	0.0795422	0.5162218	0.1474468	0.0919474	0.6615682
70	482891	3631079	2.1884923	1.4687636	0.1356382	0.2117996	0.1452476	0.1187912	0.0816498	0.5298999	0.1513536	0.0943837	0.7197287
71	482941	3631079	2.2450037	1.4762827	0.1363326	0.2128838	0.1459912	0.1193993	0.0820678	0.5326127	0.1521285	0.0948669	0.768721
72	482991	3631079	2.2592504	1.4578511	0.1346305	0.210226	0.1441685	0.1179086	0.0810431	0.525963	0.1502291	0.0936824	0.8013992
73	482241	3631129	0.723942	0.5397274	0.0498431	0.0778301	0.0533742	0.0436523	0.0300039	0.1947226	0.055618	0.0346832	0.1842146
74	482291	3631129	0.8180272	0.6143203	0.0567316	0.0885866	0.0607508	0.0496852	0.0341506	0.2216342	0.0633047	0.0394766	0.2037069
75	482341	3631129	0.9315859	0.7046594	0.0650743	0.1016137	0.0696845	0.0569917	0.0391726	0.2542267	0.072614	0.0452819	0.2269266
76	482391	3631129	1.0694029	0.8144309	0.0752115	0.1174431	0.08054	0.0658698	0.0452749	0.2938301	0.0839257	0.0523358	0.254972
77	482441	3631129	1.2306716	0.9426829	0.0870554	0.1359373	0.0932229	0.0762426	0.0524045	0.3401008	0.0971419	0.0605774	0.2879887
78	482491	3631129	1.3997539	1.0760859	0.099375	0.1551744	0.1064153	0.087032	0.0598205	0.3882298	0.1108888	0.06915	0.323668
79	482541	3631129	1.5894071	1.2229525	0.1129379	0.176353	0.1209391	0.0989104	0.0679849	0.4412163	0.1260232	0.0785877	0.3664546
80	482691	3631129	2.2052388	1.6632105	0.1535951	0.2398393	0.1644767	0.1345177	0.0924592	0.6000524	0.1713911	0.1068789	0.5420283
81	482791	3631129	2.7058095	1.9860191	0.183406	0.2863892	0.1963996	0.1606259	0.1104044	0.7165152	0.2046559	0.1276228	0.7197904
82	482841	3631129	2.9124237	2.091726	0.1931679	0.3016324	0.2068531	0.1691753	0.1162808	0.7546521	0.2155489	0.1344156	0.8206977
83	482891	3631129	3.0462705	2.1205573	0.1958304	0.3057899	0.2097042	0.1715072	0.1178835	0.7650538	0.2185199	0.1362683	0.9257131
84	482941	3631129	3.1278385	2.1113538	0.1949805	0.3044628	0.2087941	0.1707628	0.1173719	0.7617334	0.2175715	0.1356769	1.0164848
85	482991	3631129	3.1055695	2.0319516	0.1876478	0.2930127	0.2009419	0.1643409	0.1129579	0.7330867	0.2093892	0.1305745	1.073618
86	482241	3631179	0.7254197	0.5443048	0.0502658	0.0784902	0.0538269	0.0440225	0.0302583	0.1963741	0.0560897	0.0349774	0.1811149
87	482291	3631179	0.845209	0.6405395	0.0591529	0.0923675	0.0633436	0.0518058	0.0356081	0.2310936	0.0660065	0.0411615	0.2046695
88	482341	3631179	0.9895314	0.7578912	0.0699902	0.1092899	0.0749487	0.061297	0.0421318	0.2734317	0.0780994	0.0487026	0.2316402
89	482391	3631179	1.1623751	0.9000461	0.083118	0.129789	0.0890065	0.0727942	0.0500343	0.3247183	0.0927482	0.0578375	0.262329
90	482441	3631179	1.3729165	1.0747798	0.0992544	0.1549861	0.1062861	0.0869264	0.0597479	0.3877586	0.1107543	0.069066	0.2981367
91	482491	3631179	1.6325936	1.2915398	0.1192719	0.1862434	0.1277218	0.1044576	0.0717978	0.4659612	0.133091	0.0829952	0.3410537
92	482541	3631179	1.9420775	1.5502897	0.143167	0.2235558	0.1533098	0.1253849	0.0861819	0.5593129	0.1597548	0.0996226	0.3917878
93	482591	3631179	2.2938677	1.8425703	0.1701587	0.2657035	0.1822138	0.149024	0.10243	0.6647618	0.1898738	0.1184047	0.4512974
94	482641	3631179	2.6925754	2.1679789	0.2002098	0.3126283	0.2143938	0.1753425	0.1205197	0.7821626	0.2234066	0.1393157	0.5245965
95	482941	3631179	4.6738547	3.2041867	0.2959021	0.4620521	0.3168655	0.2591493	0.1781234	1.1560052	0.3301861	0.2059031	1.4696679
96	482991	3631179	4.5405824	2.9369047	0.2712189	0.4235094	0.2904337	0.237532	0.1632649	1.0595753	0.3026431	0.1887273	1.6036778

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Cancer Risk Summary

			422	Receptor									
			14.28	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
97	482241	3631229	0.7406515	0.5574266	0.0514775	0.0803824	0.0551245	0.0450837	0.0309878	0.2011081	0.0574419	0.0358206	0.1832249
98	482291	3631229	0.8583665	0.6532585	0.0603275	0.0942016	0.0646014	0.0528345	0.0363152	0.2356823	0.0673172	0.0419788	0.205108
99	482341	3631229	1.0093351	0.7777509	0.0718242	0.1121537	0.0769126	0.0629032	0.0432358	0.2805967	0.0801459	0.0499788	0.2315842
100	482491	3631229	1.8404264	1.4841436	0.1370585	0.2140174	0.1467686	0.1200351	0.0825048	0.5354487	0.1529385	0.095372	0.3562829
101	482541	3631229	2.3053644	1.8905168	0.1745865	0.2726175	0.1869553	0.1529019	0.1050954	0.6820599	0.1948146	0.1214858	0.4148476
102	482591	3631229	2.9366385	2.4487612	0.2261396	0.3531178	0.2421607	0.1980517	0.1361286	0.8834631	0.2523407	0.1573589	0.4878773
103	482641	3631229	3.8120489	3.2291731	0.2982095	0.4656552	0.3193364	0.2611702	0.1795124	1.1650198	0.3327609	0.2075087	0.5828758
104	482241	3631279	0.7241569	0.5445489	0.0502883	0.0785254	0.053851	0.0440422	0.0302719	0.1964621	0.0561149	0.0349931	0.179608
105	482291	3631279	0.8487681	0.6459103	0.0596489	0.093142	0.0638748	0.0522402	0.0359067	0.2330313	0.06656	0.0415066	0.2028578
106	482341	3631279	1.0130135	0.781364	0.0721578	0.1126747	0.0772699	0.0631954	0.0434367	0.2819002	0.0805182	0.0502109	0.2316495
107	482591	3631279	3.57013	3.0433317	0.2810473	0.4388564	0.3009584	0.2461396	0.1691813	1.097972	0.3136102	0.1955664	0.5267983
108	482641	3631279	5.2893155	4.6404937	0.428543	0.6691714	0.4589035	0.3753154	0.2579688	1.6741955	0.4781951	0.298201	0.6488218
109	482241	3631329	0.6939897	0.5198921	0.0480113	0.0749698	0.0514127	0.042048	0.0289012	0.1875665	0.053574	0.0334086	0.1740976
110	482291	3631329	0.8175551	0.6199352	0.0572501	0.0893963	0.0613061	0.0501393	0.0344627	0.22366	0.0638833	0.0398374	0.1976198
111	482341	3631329	0.97806	0.7518002	0.0694277	0.1084116	0.0743463	0.0608044	0.0417932	0.2712342	0.0774718	0.0483112	0.2262598
112	482591	3631329	3.9321571	3.3645291	0.3107094	0.4851739	0.3327219	0.2721175	0.1870369	1.2138535	0.3467091	0.2162068	0.567628
113	482641	3631329	6.4301584	5.7013338	0.52651	0.8221473	0.5638111	0.4611144	0.3169418	2.056925	0.5875129	0.3663713	0.7288246
114	482241	3631379	0.6580272	0.4900598	0.0452563	0.0706679	0.0484626	0.0396352	0.0272428	0.1768036	0.0504998	0.0314916	0.1679673
115	482291	3631379	0.7714339	0.5813754	0.0536892	0.0838359	0.0574928	0.0470207	0.0323191	0.2097484	0.0599098	0.0373595	0.1900584
116	482341	3631379	0.9232177	0.7051354	0.0651182	0.1016824	0.0697316	0.0570302	0.0391991	0.2543985	0.072663	0.0453124	0.2180822
117	482391	3631379	1.1283029	0.8748767	0.0807936	0.1261595	0.0865175	0.0707586	0.0486351	0.3156377	0.0901546	0.0562201	0.2534262
118	482591	3631379	3.8595132	3.2654015	0.3015552	0.4708795	0.3229191	0.2641003	0.1815263	1.1780903	0.3364941	0.2098368	0.5941117
119	482641	3631379	6.6154448	5.7928325	0.5349598	0.8353416	0.5728595	0.4685147	0.3220283	2.0899358	0.5969417	0.3722511	0.8226123
120	482241	3631429	0.6177809	0.4568464	0.0421891	0.0658785	0.045178	0.036949	0.0253965	0.1648209	0.0470773	0.0293572	0.1609345
121	482291	3631429	0.7211186	0.5393856	0.0498115	0.0777808	0.0533404	0.0436246	0.0299849	0.1945993	0.0555828	0.0346613	0.181733
122	482341	3631429	0.8585271	0.6504755	0.0600705	0.0938003	0.0643262	0.0526094	0.0361605	0.2346783	0.0670304	0.0418	0.2080516
123	482391	3631429	1.0400508	0.7995148	0.073834	0.1152921	0.0790649	0.0646634	0.0444457	0.2884486	0.0823887	0.0513773	0.240536
124	482591	3631429	3.4102252	2.8355189	0.2618561	0.4088893	0.2804075	0.2293321	0.1576288	1.0229974	0.2921955	0.1822122	0.5747064
125	482641	3631429	5.7432194	4.8938849	0.4519433	0.705711	0.4839616	0.3958093	0.2720551	1.7656139	0.5043066	0.3144841	0.8493344
126	482241	3631479	0.5794744	0.4253052	0.0392763	0.0613301	0.0420589	0.034398	0.0236431	0.1534415	0.043827	0.0273304	0.1541691
127	482291	3631479	0.671343	0.4980916	0.045998	0.0718261	0.0492568	0.0402848	0.0276893	0.1797013	0.0513275	0.0320077	0.1732514
128	482341	3631479	0.7915256	0.5944606	0.0548976	0.0857228	0.0587869	0.048079	0.0330466	0.2144693	0.0612582	0.0382004	0.197065
129	482391	3631479	0.9533044	0.7258496	0.0670312	0.1046694	0.0717801	0.0587055	0.0403506	0.2618717	0.0747976	0.0466435	0.2274549
130	482441	3631479	1.1743239	0.9080657	0.0838586	0.1309455	0.0897996	0.0734428	0.0504801	0.3276116	0.0935746	0.0583529	0.2662582
131	482491	3631479	1.4985428	1.1787777	0.1088584	0.1699828	0.1165706	0.0953376	0.0655292	0.425279	0.1214711	0.075749	0.3197651
132	482541	3631479	1.9972953	1.6005554	0.147809	0.2308043	0.1582807	0.1294503	0.0889762	0.5774477	0.1649345	0.1028527	0.3967399
133	482591	3631479	2.837441	2.317238	0.2139936	0.3341518	0.2291542	0.1874144	0.1288172	0.8360122	0.2387875	0.1489072	0.520203
134	482641	3631479	4.3905334	3.646532	0.336752	0.5258395	0.3606095	0.2949255	0.2027137	1.3155944	0.375769	0.2343284	0.7440014
135	482691	3631479	7.8458458	6.5492101	0.6048102	0.9444133	0.6476585	0.5296893	0.364076	2.3628214	0.6748851	0.4208564	1.2966357
136	482241	3631529	0.5429309	0.3952899	0.0365045	0.0570018	0.0390906	0.0319704	0.0219745	0.1426125	0.040734	0.0254016	0.1476411
137	482291	3631529	0.6264062	0.4607036	0.0425453	0.0664347	0.0455595	0.0372609	0.0256109	0.1662125	0.0474747	0.0296051	0.1657026
138	482341	3631529	0.7301365	0.5431818	0.0501621	0.0783282	0.0537158	0.0439316	0.0301959	0.1959689	0.055974	0.0349052	0.1869547
139	482391	3631529	0.8678693	0.6539665	0.0603929	0.0943037	0.0646715	0.0528917	0.0363545	0.2359378	0.0673901	0.0420243	0.2139028
140	482441	3631529	1.0582851	0.8087062	0.0746829	0.1166175	0.0799738	0.0654068	0.0449566	0.2917647	0.0833358	0.051968	0.249579
141	482491	3631529	1.325719	1.0284201	0.0949731	0.1483009	0.1017016	0.0831769	0.0571707	0.371033	0.105977	0.0660869	0.2972988
142	482541	3631529	1.7090096	1.3467247	0.1243681	0.1942012	0.1331791	0.1089209	0.0748655	0.4858708	0.1387777	0.0865414	0.3622849
143	482591	3631529	2.2962273	1.8360888	0.1695602	0.2647688	0.1815728	0.1484998	0.1020697	0.6624234	0.1892059	0.1179882	0.4601386
144	482641	3631529	3.1900997	2.5728508	0.2375991	0.3710118	0.254432	0.2080879	0.1430269	0.9282321	0.265128	0.165333	0.6172489

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Cancer Risk Summary

			422	Receptor									
			14.28	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
145	482691	3631529	4.6423935	3.7430109	0.3456617	0.539752	0.3701504	0.3027285	0.208077	1.350402	0.385711	0.2405282	0.8993827
146	482241	3631579	0.5085638	0.367081	0.0338994	0.052934	0.036301	0.0296889	0.0204063	0.1324354	0.0378271	0.0235889	0.1414827
147	482291	3631579	0.5807255	0.4231691	0.0390791	0.0610221	0.0418477	0.0342252	0.0235243	0.1526708	0.0436069	0.0271931	0.1575564
148	482341	3631579	0.6723088	0.4951133	0.045723	0.0713966	0.0489623	0.0400439	0.0275238	0.1786268	0.0510206	0.0318163	0.1771956
149	482391	3631579	0.7932029	0.5908719	0.0545662	0.0852053	0.058432	0.0477887	0.0328471	0.2131745	0.0608884	0.0379698	0.2023309
150	482441	3631579	0.9473277	0.7145465	0.0659873	0.1030395	0.0706623	0.0577913	0.0397222	0.2577938	0.0736328	0.0459172	0.2327812
151	482491	3631579	1.156571	0.8835554	0.0815951	0.127411	0.0873758	0.0714605	0.0491176	0.3187688	0.0910489	0.0567778	0.2730156
152	482541	3631579	1.4211727	1.0951277	0.1011335	0.1579203	0.1082984	0.0885721	0.060879	0.3950998	0.1128511	0.0703736	0.3260449
153	482591	3631579	1.8161841	1.4158613	0.1307528	0.2041709	0.1400161	0.1145125	0.0787089	0.5108139	0.1459021	0.0909841	0.4003228
154	482641	3631579	2.2845375	1.785579	0.1648957	0.2574852	0.1765778	0.1444147	0.0992618	0.6442005	0.1840009	0.1147424	0.4989585
155	482691	3631579	2.9633995	2.3058495	0.2129419	0.3325095	0.228028	0.1864933	0.1281841	0.8319035	0.2376139	0.1481753	0.65755
156	482241	3631629	0.4762404	0.3407276	0.0314657	0.0491338	0.0336949	0.0275575	0.0189413	0.1229276	0.0351114	0.0218954	0.1355129
157	482291	3631629	0.5415013	0.3908102	0.0360908	0.0563558	0.0386476	0.0316081	0.0217255	0.1409963	0.0402723	0.0251137	0.1506912
158	482341	3631629	0.6195776	0.4514878	0.0416943	0.0651057	0.0446481	0.0365156	0.0250986	0.1628876	0.0465251	0.0290129	0.1680897
159	482391	3631629	0.7192812	0.5294863	0.0488973	0.0763533	0.0523615	0.042824	0.0294346	0.1910279	0.0545627	0.0340251	0.1897949
160	482441	3631629	0.8460383	0.6292853	0.0581136	0.0907446	0.0622307	0.0508955	0.0349825	0.2270333	0.0648468	0.0404383	0.216753
161	482491	3631629	1.0068716	0.7565241	0.0698639	0.1090928	0.0748135	0.0611864	0.0420558	0.2729385	0.0779585	0.0486147	0.2503475
162	482541	3631629	1.2012703	0.9087737	0.0839239	0.1310475	0.0898696	0.0735001	0.0505195	0.327867	0.0936476	0.0583984	0.2924966
163	482591	3631629	1.4417839	1.0949935	0.1011211	0.1579009	0.1082851	0.0885613	0.0608716	0.3950513	0.1128372	0.070365	0.3467905
164	482641	3631629	1.714895	1.3042711	0.1204476	0.1880793	0.1289808	0.1054873	0.0725055	0.4705544	0.1344029	0.0838133	0.410624
165	482691	3631629	2.1075847	1.5955996	0.1473513	0.2300896	0.1577906	0.1290494	0.0887007	0.5756598	0.1644239	0.1025342	0.5119851
166	482241	3631679	0.4460222	0.3163637	0.0292157	0.0456205	0.0312856	0.025587	0.0175869	0.1141376	0.0326008	0.0203297	0.1296585
167	482291	3631679	0.5012616	0.3583901	0.0330968	0.0516808	0.0354416	0.028986	0.0199232	0.1292999	0.0369315	0.0230304	0.1428715
168	482341	3631679	0.5688612	0.4101328	0.0378752	0.0591422	0.0405585	0.0331709	0.0227996	0.1479675	0.0422635	0.0263554	0.1587284
169	482391	3631679	0.6511177	0.4734348	0.043721	0.0682705	0.0468185	0.0382906	0.0263186	0.1708056	0.0487867	0.0304232	0.1776829
170	482441	3631679	0.751539	0.5509694	0.0508812	0.0794512	0.054486	0.0445615	0.0306288	0.1987785	0.0567765	0.0354056	0.2005696
171	482491	3631679	0.8725334	0.6443357	0.0595035	0.0929149	0.0637191	0.0521128	0.0358191	0.2324632	0.0663977	0.0414054	0.2281978
172	482541	3631679	1.0039628	0.742914	0.068607	0.1071302	0.0734676	0.0600857	0.0412992	0.2680282	0.076556	0.0477401	0.2610488
173	482591	3631679	1.1624647	0.8625361	0.079654	0.12438	0.0852971	0.0697605	0.0479491	0.3111854	0.0888829	0.0554271	0.2999287
174	482641	3631679	1.3445128	0.9959391	0.0919735	0.143617	0.0984895	0.0805499	0.0553651	0.3593145	0.1026299	0.0639997	0.3485737
175	482691	3631679	1.5713626	1.1590645	0.1070379	0.1671401	0.1146212	0.0937432	0.0644333	0.4181668	0.1194397	0.0744822	0.4122981
176	482241	3631729	0.4165909	0.293013	0.0270593	0.0422532	0.0289764	0.0236984	0.0162888	0.1057131	0.0301945	0.0188292	0.1235779
177	482291	3631729	0.464539	0.3289851	0.0303813	0.0474405	0.0325337	0.0266078	0.0182886	0.1186911	0.0339014	0.0211408	0.1355539
178	482341	3631729	0.5208772	0.3714509	0.034303	0.0535642	0.0367332	0.0300423	0.0206493	0.1340119	0.0382774	0.0238697	0.1494263
179	482391	3631729	0.5878896	0.4220462	0.0389754	0.0608602	0.0417366	0.0341344	0.0234619	0.1522656	0.0434911	0.027121	0.1658434
180	482441	3631729	0.6669411	0.4817229	0.0444864	0.0694657	0.0476381	0.038961	0.0267794	0.1737958	0.0496407	0.0309558	0.1852182
181	482491	3631729	0.7582202	0.5503957	0.0508283	0.0793685	0.0544292	0.0445151	0.030597	0.1985716	0.0567174	0.0353688	0.2078245
182	482541	3631729	0.854163	0.6200207	0.057258	0.0894086	0.0613145	0.0501462	0.0344675	0.2236908	0.0638921	0.0398429	0.2341423
183	482591	3631729	0.961897	0.6970182	0.0643686	0.1005119	0.0689289	0.0563737	0.0387478	0.25147	0.0718266	0.0447908	0.2648788
184	482641	3631729	1.0803528	0.7797161	0.0720057	0.1124371	0.077107	0.0630621	0.0433451	0.2813057	0.0803484	0.050105	0.3006367
185	482691	3631729	1.2218155	0.8803329	0.0812975	0.1269463	0.0870571	0.0711999	0.0489384	0.3176062	0.0907168	0.0565707	0.3414826
186	483141	3631729	1.1271334	0.715877	0.0661102	0.1032313	0.0707939	0.0578989	0.0397962	0.2582738	0.0737699	0.0460027	0.4112564
187	483191	3631729	1.0422001	0.638855	0.0589973	0.0921246	0.0631771	0.0516695	0.0355145	0.2304859	0.0658329	0.0410532	0.403345
188	483241	3631729	0.9649789	0.5675945	0.0524165	0.0818486	0.05613	0.0459061	0.031553	0.2047765	0.0584897	0.036474	0.3973844
189	482241	3631779	0.3883195	0.2708219	0.02501	0.0390532	0.0267819	0.0219036	0.0150552	0.097707	0.0279077	0.0174032	0.1174976
190	482291	3631779	0.4290776	0.3009227	0.0277898	0.0433938	0.0297586	0.0243381	0.0167285	0.1085668	0.0310096	0.0193375	0.1281549
191	482341	3631779	0.4760009	0.3356375	0.0309956	0.0483998	0.0331916	0.0271458	0.0186584	0.1210912	0.0345869	0.0215683	0.1403634
192	482391	3631779	0.5301366	0.3756621	0.0346919	0.0541715	0.0371496	0.0303829	0.0208834	0.1355312	0.0387113	0.0241403	0.1544745

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Cancer Risk Summary

			422	Receptor									
			14.28	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
193	482441	3631779	0.5920206	0.4212527	0.0389021	0.0607458	0.0416581	0.0340702	0.0234178	0.1519794	0.0434094	0.02707	0.1707678
194	482491	3631779	0.6569434	0.4676856	0.0431901	0.0674415	0.0462499	0.0378256	0.025999	0.1687314	0.0481942	0.0300538	0.1892578
195	482541	3631779	0.7299714	0.5195015	0.0479752	0.0749135	0.0513741	0.0420164	0.0288795	0.1874256	0.0535338	0.0333835	0.2104699
196	482591	3631779	0.8059766	0.5717812	0.0528032	0.0824524	0.0565441	0.0462447	0.0317858	0.206287	0.0589211	0.036743	0.2341954
197	482691	3631779	0.9782441	0.689316	0.0636573	0.0994012	0.0681672	0.0557507	0.0383196	0.2486912	0.0710329	0.0442959	0.2889281
198	482991	3631779	1.1017986	0.739069	0.068252	0.1065757	0.0730873	0.0597747	0.0410855	0.266641	0.0761598	0.047493	0.3627296
199	483041	3631779	1.0582601	0.6995571	0.0646031	0.100878	0.06918	0.056579	0.038889	0.2523859	0.0720882	0.044954	0.3587029
200	483091	3631779	1.0067305	0.6524895	0.0602565	0.0940907	0.0645254	0.0527723	0.0362724	0.2354049	0.067238	0.0419294	0.354241
201	483141	3631779	0.9503525	0.6011131	0.0555119	0.0866821	0.0594447	0.048617	0.0334164	0.2168693	0.0619437	0.0386279	0.3492394
202	483191	3631779	0.8929567	0.5487967	0.0506806	0.0791379	0.0542711	0.0443858	0.0305081	0.1979947	0.0565526	0.035266	0.34416
203	483241	3631779	0.8372882	0.4979329	0.0459834	0.0718032	0.0492411	0.040272	0.0276805	0.179644	0.0513112	0.0319975	0.3393553
204	482241	3631829	0.3617183	0.2500711	0.0230937	0.0360609	0.0247298	0.0202253	0.0139017	0.0902206	0.0257694	0.0160697	0.1116471
205	482291	3631829	0.3957928	0.2748012	0.0253775	0.039627	0.0271754	0.0222255	0.0152764	0.0991427	0.0283178	0.0176589	0.1209916
206	482341	3631829	0.4347783	0.3030588	0.027987	0.0437019	0.0299698	0.0245109	0.0168473	0.1093374	0.0312297	0.0194748	0.1317195
207	482391	3631829	0.479265	0.3351859	0.0309539	0.0483347	0.0331469	0.0271093	0.0186333	0.1209282	0.0345403	0.0215393	0.1440791
208	482441	3631829	0.5270515	0.3693392	0.0341079	0.0532597	0.0365244	0.0298715	0.0205319	0.1332501	0.0380598	0.023734	0.1577122
209	482491	3631829	0.577519	0.4045179	0.0373566	0.0583325	0.0400032	0.0327167	0.0224875	0.1459418	0.0416849	0.0259946	0.1730012
210	482541	3631829	0.631862	0.4416984	0.0407902	0.0636941	0.04368	0.0357238	0.0245544	0.1593558	0.0455163	0.0283838	0.1901637
211	482641	3631829	0.7453897	0.5181344	0.047849	0.0747163	0.0512389	0.0419059	0.0288035	0.1869323	0.0533929	0.0332956	0.2272553
212	482691	3631829	0.7944355	0.5491141	0.0507099	0.0791837	0.0543025	0.0444114	0.0305257	0.1981092	0.0565853	0.0352864	0.2453214
213	482891	3631829	0.9050358	0.6093401	0.0562717	0.0878684	0.0602583	0.0492824	0.0338737	0.2198375	0.0627915	0.0391566	0.2956957
214	482941	3631829	0.9052893	0.604482	0.055823	0.0871679	0.0597779	0.0488895	0.0336037	0.2180848	0.0622909	0.0388444	0.3008073
215	482991	3631829	0.9000524	0.5937771	0.0548345	0.0856242	0.0587193	0.0480237	0.0330086	0.2142226	0.0611877	0.0381565	0.3062754
216	483041	3631829	0.8764987	0.5708047	0.052713	0.0823115	0.0564475	0.0461657	0.0317315	0.2059347	0.0588205	0.0366803	0.305694
217	483091	3631829	0.8445312	0.5411189	0.0499716	0.0780308	0.0535118	0.0437648	0.0300812	0.1952247	0.0557614	0.0347726	0.3034122
218	483141	3631829	0.8077947	0.507344	0.0468525	0.0731603	0.0501718	0.0410331	0.0282037	0.1830394	0.0522809	0.0326022	0.3004507
219	483191	3631829	0.768623	0.4715795	0.0435497	0.068003	0.046635	0.0381406	0.0262155	0.1701362	0.0485955	0.030304	0.2970436
220	483241	3631829	0.7194073	0.4322873	0.0399211	0.062337	0.0427494	0.0349627	0.0240312	0.1559604	0.0445465	0.0277791	0.28712
221	482241	3631879	0.3360536	0.2302481	0.0212631	0.0332024	0.0227695	0.0186221	0.0127997	0.0830688	0.0237267	0.0147959	0.1058056
222	482291	3631879	0.3654061	0.2511209	0.0231907	0.0362123	0.0248336	0.0203102	0.01396	0.0905993	0.0258776	0.0161372	0.1142852
223	482341	3631879	0.3983095	0.2744594	0.0253459	0.0395778	0.0271416	0.0221978	0.0152574	0.0990193	0.0282826	0.0176369	0.1238501
224	482391	3631879	0.4334528	0.2992505	0.0276354	0.0431527	0.0295932	0.0242029	0.0166356	0.1079635	0.0308373	0.01923	0.1342024
225	482441	3631879	0.4709821	0.3252133	0.030033	0.0468966	0.0321607	0.0263027	0.0180789	0.1173303	0.0335127	0.0208984	0.1457688
226	482541	3631879	0.5539214	0.3813136	0.0352138	0.0549864	0.0377085	0.03084	0.0211975	0.1375702	0.0392937	0.0245035	0.1726078
227	482591	3631879	0.5956502	0.4081798	0.0376948	0.0588606	0.0403653	0.0330129	0.022691	0.1472629	0.0420622	0.0262299	0.1874704
228	482641	3631879	0.628694	0.4289671	0.0396145	0.0618582	0.042421	0.0346942	0.0238466	0.1547626	0.0442043	0.0275657	0.1997269
229	482691	3631879	0.6669874	0.4523911	0.0417777	0.065236	0.0447374	0.0365886	0.0251488	0.1632135	0.0466181	0.0290709	0.2145963
230	482891	3631879	0.7419088	0.491488	0.0453882	0.0708739	0.0486038	0.0397507	0.0273222	0.1773188	0.050647	0.0315833	0.2504209
231	482941	3631879	0.7459675	0.4902063	0.0452699	0.070689	0.048477	0.0396471	0.027251	0.1768564	0.0505149	0.031501	0.2557612
232	482991	3631879	0.7473298	0.485751	0.0448584	0.0700466	0.0480364	0.0392867	0.0270033	0.1752491	0.0500558	0.0312147	0.2615788
233	483041	3631879	0.7332911	0.4715184	0.0435441	0.0679942	0.046629	0.0381356	0.0262121	0.1701142	0.0485892	0.0303001	0.2617727
234	483091	3631879	0.7142403	0.4529282	0.0418273	0.0653134	0.0447906	0.0366321	0.0251786	0.1634072	0.0466735	0.0291054	0.2613121
235	483141	3631879	0.6907685	0.4307127	0.0397757	0.0621099	0.0425936	0.0348353	0.0239437	0.1553923	0.0443842	0.0276779	0.2600559
236	483191	3631879	0.6577065	0.4036146	0.0372732	0.0582023	0.0399139	0.0326437	0.0224373	0.1456159	0.0415918	0.0259365	0.2540919
237	483241	3631879	0.6316209	0.3789822	0.0349985	0.0546502	0.037478	0.0306515	0.0210679	0.1367291	0.0390535	0.0243536	0.2526386
238	482748	3631148	2.8684921	2.1874114	0.2020043	0.3154305	0.2163155	0.1769142	0.1216	0.7891734	0.2254091	0.1405644	0.6810807
239	482758	3631148	2.928792	2.2270942	0.205669	0.3211528	0.2202398	0.1801237	0.123806	0.8034902	0.2294983	0.1431145	0.7016977
240	482768	3631148	2.9870184	2.2643968	0.2091138	0.326532	0.2239287	0.1831407	0.1258797	0.8169482	0.2333423	0.1455116	0.7226216

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Cancer Risk Summary

			422	Receptor									
			14.28	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
241	482778	3631148	3.0428483	2.2990383	0.2123129	0.3315274	0.2273544	0.1859424	0.1278054	0.8294461	0.236912	0.1477376	0.74381
242	482788	3631148	3.0988608	2.3328133	0.215432	0.3363978	0.2306944	0.1886741	0.129683	0.8416314	0.2403925	0.149908	0.7660475
243	482798	3631148	3.1536317	2.3646108	0.2183684	0.3409831	0.2338389	0.1912458	0.1314507	0.8531033	0.2436692	0.1519514	0.789021
244	482748	3631158	3.0879754	2.3870704	0.2204425	0.3442218	0.23606	0.1930623	0.1326992	0.8612063	0.2459836	0.1533946	0.700905
245	482758	3631158	3.1613041	2.4370309	0.2250563	0.3514263	0.2410006	0.197103	0.1354765	0.8792311	0.251132	0.1566051	0.7242732
246	482768	3631158	3.2284836	2.4812301	0.229138	0.3577999	0.2453715	0.2006778	0.1379336	0.8951772	0.2556866	0.1594454	0.7472536
247	482778	3631158	3.2927562	2.5221213	0.2329143	0.3636965	0.2494153	0.203985	0.1402068	0.9099299	0.2599004	0.1620731	0.770635
248	482788	3631158	3.3564215	2.561328	0.236535	0.3693502	0.2532925	0.207156	0.1423863	0.9240749	0.2639406	0.1645925	0.7950935
249	482798	3631158	3.4181266	2.5977517	0.2398987	0.3746026	0.2568945	0.2101018	0.1444111	0.9372158	0.267694	0.1669332	0.8203749
250	482808	3631158	3.4782709	2.6315877	0.2430234	0.3794818	0.2602406	0.2128384	0.1462921	0.9494232	0.2711807	0.1691075	0.8466832
251	482818	3631158	3.5342003	2.6609439	0.2457344	0.3837151	0.2631436	0.2152127	0.1479241	0.9600143	0.2742058	0.1709939	0.8732565
252	482758	3631168	3.4062724	2.663373	0.2459587	0.3840654	0.2633839	0.2154092	0.1480591	0.9608906	0.2744561	0.17115	0.7428994
253	482768	3631168	3.4935921	2.7236356	0.2515239	0.3927554	0.2693433	0.2202831	0.1514091	0.9826322	0.2806661	0.1750225	0.7699565
254	482778	3631168	3.5769686	2.7792355	0.2566584	0.400773	0.2748416	0.22478	0.1545	1.0026915	0.2863956	0.1785954	0.7977331
255	482788	3631168	3.6515298	2.826474	0.2610208	0.407585	0.2795131	0.2286005	0.157126	1.0197342	0.2912634	0.181631	0.8250558
256	482798	3631168	3.7206426	2.8679755	0.2648534	0.4135696	0.2836172	0.2319571	0.1594331	1.0347071	0.2955401	0.1842979	0.8526671
257	482808	3631168	3.7866369	2.9054123	0.2683107	0.4189681	0.2873194	0.2349849	0.1615143	1.0482135	0.2993979	0.1867036	0.8812246
258	482818	3631168	3.8506732	2.939468	0.2714557	0.423879	0.2906872	0.2377393	0.1634074	1.0605001	0.3029072	0.1888921	0.9112052
259	482828	3631168	3.9152713	2.9716073	0.2744237	0.4285136	0.2938655	0.2403387	0.1651941	1.0720953	0.3062191	0.1909573	0.943664
260	482838	3631168	3.9764915	2.9987053	0.2769261	0.4324212	0.2965452	0.2425303	0.1667005	1.0818717	0.3090116	0.1926987	0.9777862
261	482778	3631178	3.8922614	3.0695631	0.2834698	0.4426391	0.3035524	0.2482612	0.1706395	1.1074358	0.3163133	0.1972521	0.8226983
262	482788	3631178	3.9814738	3.1282267	0.2888873	0.4510985	0.3093537	0.2530058	0.1739007	1.1286004	0.3223585	0.2010218	0.8532471
263	482798	3631178	4.0671502	3.1819346	0.2938471	0.4588433	0.314665	0.2573496	0.1768864	1.1479771	0.327893	0.2044731	0.8852156
264	482808	3631178	4.1409601	3.2244126	0.2977699	0.4649688	0.3188657	0.2607851	0.1792477	1.1633023	0.3322703	0.2072028	0.9165475
265	482818	3631178	4.2173914	3.2662193	0.3016307	0.4709974	0.323	0.2641664	0.1815718	1.1783853	0.3365784	0.2098893	0.9511721
266	482828	3631178	4.295438	3.3054993	0.3052581	0.4766617	0.3268844	0.2673433	0.1837554	1.1925567	0.3406262	0.2124135	0.9899387
267	482838	3631178	4.3563914	3.330449	0.3075622	0.4802595	0.3293517	0.2693612	0.1851424	1.2015581	0.3431972	0.2140167	1.0259424
268	482848	3631178	4.4119452	3.3486365	0.3092418	0.4828822	0.3311503	0.2708322	0.1861534	1.2081197	0.3450714	0.2151855	1.0633087
269	482858	3631178	4.461248	3.3594635	0.3102416	0.4844434	0.332221	0.2717078	0.1867553	1.2120259	0.3461871	0.2158812	1.1017845
270	482868	3631178	4.5066409	3.3641019	0.31067	0.4851123	0.3326797	0.272083	0.1870132	1.2136994	0.3466651	0.2161793	1.142539
271	482798	3631188	4.4713333	3.5525799	0.3280757	0.5122913	0.3513185	0.2873268	0.1974908	1.2816984	0.3660874	0.228291	0.9187535
272	482808	3631188	4.5567062	3.602931	0.3327255	0.5195521	0.3562978	0.2913991	0.2002899	1.299864	0.371276	0.2315266	0.9537753
273	482818	3631188	4.6421758	3.6500841	0.33708	0.5263517	0.3609608	0.2952127	0.2029112	1.3168759	0.376135	0.2345567	0.9920917
274	482828	3631188	4.7304277	3.6949545	0.3412238	0.5328221	0.3653981	0.2988418	0.2054056	1.3330642	0.3807589	0.2374401	1.0354732
275	482838	3631188	4.7967663	3.7203803	0.3435718	0.5364886	0.3679125	0.3008982	0.206819	1.3422373	0.383379	0.239074	1.0763859
276	482848	3631188	4.8552566	3.7366514	0.3450744	0.5388349	0.3695215	0.3022142	0.2077235	1.3481076	0.3850557	0.2401196	1.1186053
277	482858	3631188	4.907507	3.744378	0.3457879	0.5399491	0.3702856	0.3028391	0.208153	1.3508952	0.3858519	0.2406161	1.1631291
278	482868	3631188	4.9547541	3.7439385	0.3457474	0.5398858	0.3702422	0.3028035	0.2081286	1.3507367	0.3858066	0.2405878	1.2108155
279	482878	3631188	4.9936225	3.7341124	0.3448399	0.5384688	0.3692704	0.3020088	0.2075824	1.3471916	0.384794	0.2399564	1.25951
280	482888	3631188	5.0057037	3.6924644	0.3409938	0.5324631	0.3651518	0.2986404	0.2052671	1.3321659	0.3805023	0.2372801	1.3132393
281	482898	3631188	5.031089	3.665342	0.3384891	0.5285519	0.3624697	0.2964468	0.2037594	1.3223806	0.3777073	0.2355372	1.365747
282	482818	3631198	5.1469755	4.1111294	0.3796569	0.5928357	0.4065541	0.3325013	0.2285411	1.4832117	0.423645	0.2641838	1.035846
283	482828	3631198	5.2287516	4.1491522	0.3831683	0.5983186	0.4103142	0.3355765	0.2306548	1.4969295	0.4275632	0.2666271	1.0795994
284	482838	3631198	5.3046144	4.1777882	0.3858128	0.602448	0.413146	0.3378926	0.2322467	1.5072608	0.4305141	0.2684673	1.1268262
285	482848	3631198	5.3692433	4.1930828	0.3872252	0.6046535	0.4146585	0.3391296	0.2330969	1.5127787	0.4320901	0.2694501	1.1761605
286	482858	3631198	5.4250467	4.1965982	0.3875498	0.6051605	0.4150062	0.3394139	0.2332923	1.514047	0.4324524	0.269676	1.2284485
287	482868	3631198	5.4714768	4.1877852	0.386736	0.6038896	0.4141346	0.3387011	0.2328024	1.5108675	0.4315442	0.2691097	1.2836916
288	482878	3631198	5.5077399	4.1676204	0.3848738	0.6009818	0.4121405	0.3370702	0.2316814	1.5035924	0.4294663	0.2678139	1.3401195

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Cancer Risk Summary

			422	Receptor									
			14.28	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
289	482888	3631198	5.5029124	4.0982396	0.3784666	0.5909769	0.4052794	0.3314588	0.2278245	1.4785612	0.4223167	0.2633554	1.4046729
290	482898	3631198	5.529674	4.0617548	0.3750972	0.5857157	0.4016714	0.328508	0.2257963	1.4653983	0.418557	0.2610109	1.4679191
291	482908	3631198	5.5546115	4.0210101	0.3713345	0.5798402	0.3976421	0.3252126	0.2235312	1.4506984	0.4143583	0.2583926	1.5336014
292	482918	3631198	5.5702998	3.9693041	0.3665596	0.5723841	0.3925288	0.3210307	0.2206569	1.432044	0.4090301	0.25507	1.6009958
293	482848	3631208	5.9734799	4.7362401	0.437385	0.6829783	0.4683719	0.3830592	0.2632915	1.7087389	0.4880616	0.3043538	1.2372398
294	482858	3631208	6.0281257	4.7307961	0.4368823	0.6821932	0.4678336	0.3826189	0.2629888	1.7067748	0.4875006	0.3040039	1.2973296
295	482868	3631208	6.0703745	4.7094961	0.4349152	0.6791217	0.4657272	0.3808962	0.2618047	1.6990901	0.4853057	0.3026352	1.3608784
296	482878	3631208	6.0793196	4.6473048	0.4291719	0.6701535	0.459577	0.3758663	0.2583475	1.6766528	0.478897	0.2986387	1.4320148
297	482888	3631208	6.0894103	4.5849549	0.423414	0.6611625	0.4534112	0.3708235	0.2548814	1.6541582	0.4724719	0.2946321	1.5044554
298	482898	3631208	6.1149485	4.5338103	0.4186909	0.6537873	0.4483534	0.3666871	0.2520382	1.6357063	0.4672016	0.2913455	1.5811381
299	482908	3631208	6.1328574	4.4706059	0.4128541	0.6446731	0.4421031	0.3615752	0.2485246	1.6129034	0.4606884	0.2872839	1.6622514
300	482918	3631208	6.1460042	4.3986252	0.4062067	0.6342933	0.4349848	0.3557535	0.2445232	1.5869343	0.453271	0.2826584	1.747379
301	482928	3631208	6.1542659	4.3186493	0.3988211	0.6227606	0.4270759	0.3492852	0.2400773	1.5580806	0.4450296	0.2775191	1.8356166
302	482938	3631208	6.1796524	4.2305562	0.3906858	0.6100573	0.4183643	0.3421604	0.2351801	1.5262984	0.4359517	0.2718582	1.9252946
303	482948	3631208	6.2073498	4.1385449	0.3821887	0.596789	0.4092652	0.3347186	0.2300651	1.4931026	0.4264701	0.2659455	2.013282
304	482868	3631218	6.7701331	5.3261112	0.4918587	0.7680392	0.5267049	0.430767	0.2960829	1.9215523	0.5488468	0.3422592	1.4440219
305	482878	3631218	6.7924932	5.2690344	0.4865878	0.7598086	0.5210605	0.4261508	0.2929099	1.9009601	0.5429652	0.3385915	1.5234589
306	482888	3631218	6.7907739	5.1783901	0.4782169	0.7467374	0.5120966	0.4188196	0.287871	1.8682575	0.5336244	0.3327666	1.6123838
307	482898	3631218	6.7908923	5.0846333	0.4695586	0.7332175	0.5028249	0.4112367	0.2826589	1.834432	0.5239629	0.3267417	1.706259
308	482908	3631218	6.7968607	4.9899732	0.4608169	0.7195672	0.4934639	0.4035808	0.2773967	1.8002806	0.5142084	0.3206588	1.8068875
309	482918	3631218	6.8073992	4.8921516	0.4517832	0.7054611	0.4837902	0.3956691	0.2719587	1.7649885	0.504128	0.3143727	1.9152476
310	482928	3631218	6.8457149	4.783735	0.4417711	0.6898271	0.4730688	0.3869006	0.2659317	1.725874	0.4929559	0.3074058	2.030722
311	482938	3631218	6.9107263	4.6719494	0.4314478	0.6737074	0.4620142	0.3778595	0.2597175	1.6855441	0.4814366	0.3002224	2.1516218
312	482948	3631218	6.966266	4.5497396	0.4201619	0.6560844	0.4499287	0.3679754	0.2529238	1.6414533	0.468843	0.2923691	2.2757077
313	482958	3631218	7.001981	4.421683	0.4083361	0.6376183	0.437265	0.3576184	0.245805	1.595253	0.455647	0.2841401	2.3974611
314	482968	3631218	7.0018672	4.2913559	0.3963006	0.6188248	0.4243769	0.3470778	0.23856	1.5482337	0.442217	0.2757652	2.5073758
315	482978	3631218	6.9374948	4.1585877	0.3840396	0.5996793	0.4112473	0.3363397	0.2311793	1.5003336	0.4285355	0.2672335	2.5858157
316	482898	3631228	7.5812105	5.7396251	0.5300462	0.827669	0.5675978	0.4642114	0.3190705	2.0707397	0.5914587	0.3688319	1.8415854
317	482908	3631228	7.5730485	5.6052334	0.5176353	0.8082894	0.5543076	0.453342	0.3115995	2.0222539	0.5776099	0.3601958	1.9678151
318	482918	3631228	7.5779621	5.4637254	0.5045672	0.7878835	0.5403138	0.441897	0.303733	1.9712007	0.5630277	0.3511024	2.1071004
319	482928	3631228	7.6647698	5.3178109	0.4910922	0.7668423	0.5258841	0.4300957	0.2956215	1.9185577	0.5479915	0.3417259	2.2596596
320	482938	3631228	7.7700451	5.1687838	0.4773298	0.7453522	0.5111467	0.4180427	0.2873369	1.8647918	0.5326345	0.3321493	2.4251026
321	482948	3631228	7.6133665	5.0112	0.4627771	0.7226282	0.495563	0.4052975	0.2785767	1.8079388	0.5163958	0.3220229	2.6021666
322	482958	3631228	6.6487285	4.8511262	0.4479946	0.6995451	0.4797331	0.392351	0.2696781	1.7501874	0.4999004	0.3117364	1.7976023
323	482968	3631228	6.5337268	4.6886599	0.432991	0.6761171	0.4636667	0.379211	0.2606464	1.6915729	0.4831585	0.3012962	1.8450669
324	482978	3631228	6.415253	4.5236669	0.4177542	0.6523246	0.4473503	0.3658667	0.2514743	1.6320467	0.4661563	0.2906937	1.8915861
325	482918	3631238	8.4783584	6.1169717	0.5648936	0.8820834	0.604914	0.4947305	0.3400475	2.2068786	0.6303437	0.3930804	2.3245032
326	482928	3631238	8.451252	5.925613	0.5472219	0.8544889	0.5859903	0.4792537	0.3294097	2.1378403	0.6106245	0.3807836	2.525639
327	482938	3631238	8.4833035	5.7268329	0.5288648	0.8258243	0.5663327	0.4631767	0.3183593	2.0661245	0.5901405	0.3680099	2.7564706
328	482948	3631238	7.4730826	5.5281016	0.5105123	0.7971668	0.54668	0.4471037	0.3073117	1.9944263	0.5696616	0.3552393	1.944981
329	482958	3631238	7.3300623	5.326929	0.4919343	0.7681571	0.5267858	0.4308332	0.2961284	1.9218473	0.5489311	0.3423118	2.0031333
330	482968	3631238	7.181408	5.1244626	0.4732368	0.7389609	0.5067637	0.414458	0.2848731	1.8488016	0.5280673	0.3293012	2.0569454
331	482938	3631248	8.4730002	6.3583153	0.5871813	0.9168857	0.6287807	0.51425	0.353464	2.2939505	0.6552137	0.4085893	2.114685
332	482948	3631248	8.3033523	6.105571	0.5638407	0.8804394	0.6037866	0.4938085	0.3394137	2.2027655	0.6291689	0.3923478	2.1977814
333	482958	3631248	8.1186002	5.853498	0.5405622	0.8440898	0.5788588	0.4734212	0.3254008	2.1118227	0.6031932	0.3761495	2.2651022
334	482968	3631248	7.923298	5.6020353	0.5173399	0.8078282	0.5539914	0.4530833	0.3114217	2.0211001	0.5772803	0.3599903	2.3212626
335	482662	3631168	2.6659353	2.1180062	0.1955948	0.3054221	0.2094519	0.1713008	0.1177417	0.7641334	0.218257	0.1361044	0.5479291
336	482672	3631168	2.738397	2.1735328	0.2007226	0.3134291	0.214943	0.1757917	0.1208285	0.7841663	0.2239789	0.1396726	0.5648642

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Cancer Risk Summary

			422	Receptor									
			14.28	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
337	482682	3631168	2.8107361	2.2284613	0.2057952	0.32135	0.220375	0.1802343	0.123882	0.8039834	0.2296392	0.1432023	0.5822748
338	482692	3631168	2.8835783	2.2833044	0.2108599	0.3292585	0.2257985	0.1846699	0.1269308	0.8237697	0.2352907	0.1467266	0.6002739
339	482662	3631178	2.8543543	2.2947417	0.2119161	0.3309078	0.2269295	0.1855949	0.1275666	0.827896	0.2364693	0.1474615	0.5596126
340	482672	3631178	2.9395616	2.3619986	0.2181272	0.3406064	0.2335806	0.1910345	0.1313054	0.8521609	0.2434	0.1517835	0.577563
341	482682	3631178	3.0247576	2.428694	0.2242864	0.350224	0.2401762	0.1964287	0.1350131	0.8762233	0.2502728	0.1560694	0.5960636
342	482692	3631178	3.1107343	2.4954626	0.2304524	0.3598523	0.246779	0.2018289	0.1387248	0.900312	0.2571532	0.16036	0.6152717
343	482662	3631188	3.0624867	2.4911782	0.2300567	0.3592344	0.2463553	0.2014824	0.1384866	0.8987663	0.2567117	0.1600847	0.5713085
344	482672	3631188	3.1640692	2.5736808	0.2376757	0.3711315	0.2545141	0.208155	0.143073	0.9285316	0.2652135	0.1653863	0.5903884
345	482682	3631188	3.2645499	2.6546576	0.2451538	0.3828086	0.262522	0.2147043	0.1475746	0.9577463	0.273558	0.17059	0.6098923
346	482692	3631188	3.3749555	2.7433855	0.2533477	0.3956034	0.2712964	0.2218805	0.152507	0.9897575	0.2827013	0.1762917	0.6315701
347	482662	3631198	3.2907397	2.7079505	0.2500754	0.3904936	0.2677922	0.2190145	0.1505372	0.9769733	0.2790498	0.1740146	0.5827892
348	482672	3631198	3.4229993	2.8185154	0.2602859	0.4064373	0.2787261	0.2279569	0.1566836	1.0168629	0.2904433	0.1811196	0.6044839
349	482682	3631198	3.548033	2.9222815	0.2698685	0.4214007	0.2889876	0.2363493	0.162452	1.0542996	0.3011362	0.1877876	0.6257515
350	482692	3631198	3.6734423	3.0256813	0.2794173	0.4363112	0.2992129	0.2447121	0.1682001	1.0916041	0.3117914	0.1944322	0.647761
351	482662	3631208	3.5511862	2.9557268	0.2729571	0.4262236	0.292295	0.2390543	0.1643113	1.066366	0.3045827	0.1899369	0.5954594
352	482672	3631208	3.7087763	3.0905946	0.285412	0.4456718	0.3056323	0.2499622	0.1718087	1.1150235	0.3184806	0.1986035	0.6181818
353	482682	3631208	3.8583949	3.2179677	0.2971747	0.4640394	0.3182283	0.2602639	0.1788895	1.1609771	0.3316062	0.2067886	0.6404272
354	482692	3631208	4.0085356	3.3451088	0.308916	0.4823735	0.3308015	0.2705469	0.1859573	1.206847	0.3447079	0.2149588	0.6634267
355	482662	3631218	3.8425919	3.2338725	0.2986435	0.4663329	0.3198012	0.2615502	0.1797736	1.1667153	0.3332451	0.2078107	0.6087194
356	482672	3631218	4.021283	3.3900526	0.3130665	0.4888545	0.335246	0.2741818	0.1884558	1.2230618	0.3493392	0.2178469	0.6312304
357	482682	3631218	4.2063341	3.5513959	0.3279663	0.5121206	0.3512014	0.287231	0.197425	1.2812712	0.3659654	0.2282149	0.6549382
358	482692	3631218	4.3902047	3.7110791	0.3427128	0.5351473	0.3669927	0.3001459	0.2063019	1.3388817	0.3824205	0.2384763	0.6791256
359	482662	3631228	4.1698197	3.5469528	0.327556	0.5114799	0.350762	0.2868717	0.197178	1.2796682	0.3655075	0.2279294	0.6228669
360	482672	3631228	4.3852741	3.7390682	0.3452976	0.5391834	0.3697605	0.3024096	0.2078579	1.3489796	0.3853047	0.2402749	0.6462058
361	482682	3631228	4.603285	3.9331977	0.3632252	0.5671774	0.3889582	0.3181105	0.2186497	1.4190175	0.4053094	0.2527498	0.6700873
362	482692	3631228	4.8300028	4.1346633	0.3818302	0.5962293	0.4088814	0.3344047	0.2298493	1.4917022	0.4260701	0.2656961	0.6953395
363	482662	3631238	4.5326793	3.8949797	0.3596958	0.5616663	0.3851788	0.3150195	0.2165251	1.4052292	0.4013711	0.2502938	0.6376996
364	482672	3631238	4.8032104	4.1405101	0.3823702	0.5970724	0.4094596	0.3348776	0.2301744	1.4938116	0.4266726	0.2660718	0.6627004
365	482682	3631238	5.0799605	4.3917774	0.4055744	0.6333058	0.4343077	0.3551997	0.2441425	1.5844637	0.4525653	0.2822184	0.688183
366	482692	3631238	5.366174	4.6514916	0.4295586	0.6707573	0.4599911	0.3762049	0.2585802	1.6781633	0.4793284	0.2989078	0.7146824
367	482662	3631248	4.9240055	4.2713742	0.3944553	0.6159434	0.4224008	0.3454617	0.2374492	1.5410247	0.4401579	0.2744812	0.6526313
368	482672	3631248	5.2516015	4.5732368	0.4223319	0.6594727	0.4522524	0.3698758	0.25423	1.6499306	0.4712644	0.2938791	0.6783647
369	482682	3631248	5.5979376	4.8928962	0.451852	0.7055685	0.4838638	0.3957293	0.2720001	1.7652572	0.5042048	0.3144206	0.7050413
370	482692	3631248	5.9647539	5.2317806	0.4831475	0.7544365	0.5173765	0.4231377	0.290839	1.8875198	0.5391262	0.3361975	0.7329732
371	482662	3631258	5.3459519	4.677662	0.4319754	0.6745311	0.4625791	0.3783215	0.2600351	1.687605	0.4820252	0.3005895	0.6682899
372	482672	3631258	5.753077	5.0575596	0.4670584	0.7293134	0.5001476	0.409047	0.2811539	1.8246644	0.521173	0.325002	0.6955174
373	482682	3631258	6.1967038	5.4727092	0.5053969	0.789179	0.5412022	0.4426236	0.3042324	1.9744419	0.5639535	0.3516797	0.7239946
374	482692	3631258	6.6681792	5.9150057	0.5462423	0.8529593	0.5849414	0.4783958	0.32882	2.1340134	0.6095314	0.380102	0.7531735
375	482662	3631268	5.7932661	5.1084112	0.4717545	0.7366463	0.5051764	0.4131598	0.2839808	1.8430106	0.5264132	0.3282697	0.6848549
376	482672	3631268	6.2912779	5.5779278	0.5151137	0.8043518	0.5516074	0.4511335	0.3100816	2.0124026	0.5747961	0.3584411	0.71335
377	482682	3631268	6.8419153	6.0990772	0.5632411	0.8795029	0.6031444	0.4932832	0.3390527	2.2004227	0.6284997	0.3919305	0.7428382
378	482692	3631268	7.4557432	6.6820272	0.6170757	0.9635659	0.6607929	0.5404313	0.3714594	2.4107391	0.6885717	0.4293913	0.773716
379	482662	3631278	6.2534781	5.5511959	0.512645	0.800497	0.5489638	0.4489715	0.3085955	2.0027583	0.5720414	0.3567233	0.7022822
380	482672	3631278	6.8672205	6.1344023	0.5665033	0.8845969	0.6066377	0.4961403	0.3410165	2.2131672	0.6321399	0.3942005	0.7328181
381	482682	3631278	7.55384	6.7900411	0.6270506	0.9791417	0.6714746	0.5491673	0.3774639	2.4497083	0.6997023	0.4363323	0.763799
382	482692	3631278	8.3472194	7.5508496	0.6973102	1.0888523	0.7467117	0.6107002	0.4197579	2.7241925	0.7781024	0.4852223	0.7963698
383	482662	3631288	6.7083824	5.9879141	0.5529753	0.8634729	0.5921513	0.4842926	0.3328731	2.1603173	0.6170445	0.3847871	0.7204683
384	482672	3631288	7.4349118	6.6824789	0.6171174	0.963631	0.6608376	0.5404678	0.3714845	2.4109021	0.6886182	0.4294203	0.7524329

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Cancer Risk Summary

			422	Receptor									
			14.28	**Max**									
Receptor #	**X**	**Y**	**Total**	**Total Onsite**	**Onsite Demolition**	**Site Prep**	**Grading**	**Trenching**	**Foundation**	BC	**AC**	**Paving**	**Total Haul1**
385	482682	3631288	8.281374	7.4959333	0.6922387	1.0809332	0.741281	0.6062586	0.4167051	2.7043798	0.7724434	0.4816934	0.7854407
386	482692	3631288	9.288232	8.4683019	0.7820356	1.2211514	0.8374396	0.6849022	0.4707598	3.0551906	0.8726443	0.5441784	0.8199301
387	482662	3631298	7.1424535	6.4028074	0.5912901	0.9233016	0.6331806	0.5178484	0.3559373	2.3100023	0.6597986	0.4114484	0.7396462
388	482672	3631298	7.9869823	7.2135886	0.6661646	1.0402184	0.7133596	0.5834231	0.4010093	2.6025156	0.7433482	0.4635497	0.7733937
389	482682	3631298	8.9945622	8.1862624	0.7559896	1.1804805	0.8095484	0.6620913	0.455081	2.9534365	0.8435806	0.5260544	0.8082998
390	482692	3631298	10.230918	9.3860595	0.8667892	1.3534944	0.9281976	0.7591289	0.5217787	3.3862988	0.9672177	0.6031541	0.8448585
391	482662	3631308	7.5428593	6.7827173	0.6263742	0.9780856	0.6707503	0.5485749	0.3770568	2.4470661	0.6989476	0.4358617	0.760142
392	482672	3631308	8.5012997	7.7053573	0.7115787	1.1111327	0.7619912	0.6231965	0.4283471	2.7799358	0.7940242	0.4951511	0.7959424
393	482682	3631308	9.672398	8.8391181	0.8162799	1.274624	0.87411	0.7148932	0.4913738	3.1889735	0.9108563	0.5680073	0.8332799
394	482692	3631308	11.134736	10.262621	0.9477383	1.4798968	1.0148817	0.8300237	0.5705075	3.7025442	1.0575459	0.6594824	0.8721158
395	482662	3631318	7.8892097	7.1075278	0.65637	1.0249242	0.7028712	0.5748451	0.3951133	2.5642511	0.7324188	0.4567342	0.7816819
396	482672	3631318	8.9583827	8.1381084	0.7515427	1.1735366	0.8047864	0.6581967	0.4524041	2.9360635	0.8386184	0.52296	0.8202742
397	482682	3631318	10.278087	9.4177105	0.8697121	1.3580586	0.9313276	0.7616888	0.5235382	3.3977179	0.9704793	0.605188	0.8603769
398	482692	3631318	11.953581	11.05143	1.0205838	1.5936453	1.092888	0.8938214	0.6143581	3.9871307	1.1388314	0.7101719	0.902151
399	482662	3631328	8.1793223	7.3745413	0.6810283	1.0634282	0.7292764	0.5964407	0.4099568	2.6605841	0.7599341	0.4738927	0.804781
400	482672	3631328	9.349038	8.5022233	0.7851682	1.2260429	0.8407941	0.6876457	0.4726456	3.0674288	0.8761399	0.5463582	0.8468147
401	482682	3631328	10.796379	9.9062445	0.9148275	1.4285065	0.9796393	0.8012006	0.5506963	3.573971	1.0208219	0.6365815	0.8901343
402	482692	3631328	12.66127	11.725659	1.0828479	1.6908709	1.1595632	0.9483519	0.651839	4.2303788	1.2083095	0.7534982	0.9356101
403	482662	3631338	8.4120618	7.5822565	0.7002105	1.0933813	0.7498176	0.6132403	0.4215039	2.7355235	0.7813388	0.4872406	0.8298054
404	482672	3631338	9.668	8.7920383	0.8119322	1.267835	0.8694542	0.7110855	0.4887566	3.1719881	0.9060048	0.5649819	0.8759617
405	482682	3631338	11.224257	10.300949	0.9512779	1.4854238	1.018672	0.8331236	0.5726382	3.7163721	1.0614955	0.6619454	0.9233081
406	482692	3631338	13.244745	12.271514	1.1332568	1.7695846	1.2135434	0.9924997	0.6821835	4.4273121	1.264559	0.7885752	0.9732309
407	482662	3631348	8.5827942	7.7260471	0.7134894	1.1141163	0.7640372	0.6248699	0.4294973	2.7874002	0.7961562	0.4964806	0.8567472
408	482672	3631348	9.9075846	8.9997657	0.8311155	1.2977898	0.8899966	0.7278861	0.5003044	3.2469319	0.9274108	0.5783306	0.9078189
409	482682	3631348	11.553821	10.59351	0.9782955	1.5276119	1.0476037	0.8567855	0.5889019	3.8219223	1.0916434	0.6807456	0.9603116
410	482692	3631348	13.704384	12.688348	1.1717508	1.8296931	1.2547646	1.0262126	0.7053557	4.5776974	1.307513	0.8153612	1.0160355
411	482662	3631358	8.6892291	7.8037037	0.7206609	1.1253146	0.7717168	0.6311506	0.4338143	2.8154172	0.8041586	0.5014709	0.8855253
412	482672	3631358	10.064843	9.1223294	0.8424341	1.3154638	0.9021171	0.7377989	0.5071178	3.2911504	0.9400408	0.5862066	0.9425138
413	482682	3631358	11.78393	10.782232	0.9957237	1.5548261	1.0662667	0.872049	0.5993931	3.8900094	1.1110909	0.692873	1.001698
414	482692	3631358	14.034639	12.969814	1.1977438	1.8702813	1.2825991	1.0489771	0.7210026	4.6792445	1.3365176	0.8334484	1.0648243
415	482662	3631368	8.7297551	7.8139449	0.7216066	1.1267914	0.7727295	0.6319789	0.4343836	2.8191119	0.8052139	0.502129	0.9158103
416	482672	3631368	10.143191	9.1629155	0.8461821	1.3213165	0.9061307	0.7410814	0.509374	3.305793	0.9442231	0.5888147	0.9802758
417	482682	3631368	11.912725	10.864905	1.0033585	1.5667479	1.0744423	0.8787355	0.603989	3.9198363	1.1196103	0.6981857	1.0478199
418	482692	3631368	14.220915	13.100959	1.2098548	1.8891927	1.2955681	1.0595838	0.7282931	4.7265589	1.3500319	0.8418759	1.1199562
419	482662	3631378	8.7038622	7.7569169	0.7163402	1.1185678	0.76709	0.6273666	0.4312134	2.7985374	0.7993373	0.4984643	0.9469453
420	482672	3631378	10.140452	9.1197905	0.8421996	1.3150977	0.901866	0.7375935	0.5069766	3.2902344	0.9397791	0.5860435	1.0206611
421	482682	3631378	11.931356	10.833071	1.0004186	1.5621573	1.0712942	0.8761608	0.6022193	3.9083512	1.1163298	0.69614	1.0982843
422	482692	3631378	14.27546	13.092854	1.2091063	1.8880239	1.2947666	1.0589283	0.7278425	4.7236347	1.3491967	0.841355	1.1826054
423	482662	3631388	8.6105752	7.6329127	0.7048886	1.100686	0.7548271	0.6173373	0.4243199	2.7537992	0.7865589	0.4904958	0.9776625
424	482672	3631388	10.047891	8.9858504	0.8298304	1.2957832	0.8886205	0.7267607	0.4995308	3.2419116	0.9259768	0.5774364	1.0620406
425	482682	3631388	11.846775	10.69387	0.9875636	1.5420842	1.0575285	0.8649025	0.594481	3.8581303	1.1019854	0.6871948	1.1529042
426	482692	3631388	14.21103	12.957169	1.196576	1.8684577	1.2813485	1.0479543	0.7202996	4.6746822	1.3352145	0.8326358	1.2538619
427	482662	3631398	8.4486252	7.4427381	0.6873262	1.0732624	0.7360205	0.6019563	0.4137479	2.6851881	0.7669617	0.478275	1.0058871
428	482672	3631398	9.8680132	8.7655139	0.8094827	1.2640101	0.8668312	0.7089402	0.4872821	3.1624187	0.9032715	0.5632774	1.1024992
429	482682	3631398	11.653257	10.443604	0.9644519	1.5059951	1.0327794	0.8446614	0.5805685	3.7678393	1.0761959	0.6711125	1.2096527
430	482692	3631398	14.011756	12.679279	1.1709133	1.8283853	1.2538677	1.0254791	0.7048515	4.5744253	1.3065785	0.8147784	1.3324765
431	482662	3631408	8.2181745	7.1894323	0.6639338	1.036735	0.7109708	0.5814694	0.3996664	2.5938005	0.7408589	0.4619974	1.0287423
432	482672	3631408	9.6006351	8.4620401	0.7814573	1.2202484	0.8368204	0.6843958	0.4704117	3.0529315	0.871999	0.543776	1.1385951

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			422	Receptor									
			14.28	**Max**									
Receptor #	**X**	**Y**	**Total**	**Total Onsite**	**Onsite Demolition**	**Site Prep**	**Grading**	**Trenching**	**Foundation**	BC	**AC**	**Paving**	**Total Haul1**
433	482682	3631408	11.347614	10.082907	0.931142	1.4539816	0.9971096	0.8154888	0.5605171	3.6377071	1.0390266	0.6479339	1.264707
434	482692	3631408	13.66836	12.25329	1.1315738	1.7669566	1.2117412	0.9910258	0.6811705	4.4207373	1.262681	0.7874041	1.4150695
435	482662	3631418	7.9289361	6.8851894	0.6358374	0.9928624	0.6808839	0.5568627	0.3827533	2.4840359	0.7095072	0.4424466	1.0437467
436	482672	3631418	9.2531378	8.0868907	0.7468128	1.1661509	0.7997214	0.6540543	0.4495569	2.9175852	0.8333405	0.5196687	1.1662471
437	482682	3631418	10.931612	9.6195422	0.888351	1.3871632	0.951287	0.7780126	0.5347582	3.4705346	0.9912777	0.6181578	1.3120699
438	482692	3631418	13.18045	11.685525	1.0791415	1.6850834	1.1555943	0.9451059	0.6496079	4.2158991	1.2041738	0.7509192	1.4949253
439	482662	3631428	7.5805629	6.5336348	0.6033718	0.9421673	0.6461183	0.5284295	0.3632101	2.3572022	0.6732801	0.4198555	1.0469281
440	482672	3631428	8.8261197	7.6465838	0.7061511	1.1026575	0.756179	0.618443	0.4250799	2.7587315	0.7879676	0.4913743	1.1795358
441	482682	3631428	10.402889	9.0604433	0.836719	1.3065397	0.8959971	0.7327936	0.5036775	3.2688232	0.9336635	0.5822298	1.3424461
442	482692	3631428	12.52805	10.970661	1.0131249	1.5819981	1.0849006	0.8872889	0.609868	3.9579908	1.1305082	0.7049816	1.5573893
443	482662	3631438	7.1823744	6.1463767	0.5676091	0.8863237	0.6078219	0.4971088	0.3416821	2.2174874	0.6333738	0.39497	1.0359976
444	482672	3631438	8.326355	7.1532161	0.6605893	1.0315125	0.7073893	0.5785402	0.3976531	2.5807345	0.7371269	0.4596702	1.173139
445	482682	3631438	9.7730055	8.4263488	0.7781613	1.2151016	0.8332908	0.6815091	0.4684276	3.0400548	0.8683211	0.5414825	1.3466567
446	482692	3631438	11.709146	10.126068	0.9351279	1.4602056	1.0013779	0.8189796	0.5629164	3.653279	1.0434744	0.6507075	1.5830778
447	482662	3631448	6.7557185	5.7433724	0.5303922	0.8282094	0.5679684	0.4645144	0.3192788	2.0720916	0.5918449	0.3690727	1.012346
448	482672	3631448	7.7786731	6.6321033	0.6124653	0.9563667	0.6558559	0.5363935	0.3686841	2.3927276	0.6834271	0.4261831	1.1465698
449	482682	3631448	9.0756071	7.7542681	0.7160956	1.1181858	0.766828	0.6271523	0.4310661	2.7975818	0.7990643	0.4982941	1.321339
450	482692	3631448	10.777586	9.2164159	0.8511228	1.3290313	0.9114214	0.7454084	0.5123481	3.3250949	0.9497362	0.5922527	1.56117
451	482941	3630879	0.9012456	0.5380185	0.0496852	0.0775837	0.0532052	0.043514	0.0299089	0.1941061	0.0554419	0.0345734	0.3632271
452	482991	3630879	0.9107131	0.5397396	0.0498442	0.0778319	0.0533754	0.0436532	0.0300046	0.194727	0.0556193	0.034684	0.3709735
453	483041	3630879	0.9191231	0.5428766	0.0501339	0.0782842	0.0536857	0.043907	0.030179	0.1958588	0.0559425	0.0348856	0.3762465
454	483091	3630879	0.9224758	0.5436578	0.050206	0.0783969	0.0537629	0.0439701	0.0302224	0.1961407	0.056023	0.0349358	0.3788179
455	482941	3630929	1.0805847	0.6565664	0.060633	0.0946786	0.0649286	0.053102	0.0364991	0.2368758	0.0676581	0.0421914	0.4240183
456	482991	3630929	1.0958467	0.6613025	0.0610703	0.0953616	0.0653969	0.053485	0.0367623	0.2385844	0.0681461	0.0424957	0.4345443
457	483041	3630929	1.1073942	0.6659409	0.0614987	0.0960304	0.0658556	0.0538602	0.0370202	0.2402579	0.0686241	0.0427938	0.4414533
458	483091	3630929	1.1055262	0.6617297	0.0611098	0.0954232	0.0654392	0.0535196	0.0367861	0.2387386	0.0681901	0.0425232	0.4437965
459	482941	3630979	1.3358539	0.8323376	0.0768652	0.1200253	0.0823108	0.0673181	0.0462703	0.3002904	0.085771	0.0534865	0.5035163
460	482991	3630979	1.3542376	0.8358897	0.0771932	0.1205375	0.082662	0.0676054	0.0464678	0.3015719	0.086137	0.0537148	0.518348
461	483041	3630979	1.3598664	0.8326062	0.07689	0.120064	0.0823373	0.0673398	0.0462853	0.3003873	0.0857987	0.0535038	0.5272603
462	482391	3631229	1.2237154	0.9563662	0.088319	0.1379105	0.0945761	0.0773493	0.0531652	0.3450374	0.0985519	0.0614567	0.2673493
463	482441	3631229	1.4879838	1.1805965	0.1090264	0.1702451	0.1167505	0.0954847	0.0656303	0.4259351	0.1216585	0.0758659	0.3073873
464	482391	3631279	1.2353223	0.9675594	0.0893527	0.1395246	0.095683	0.0782546	0.0537874	0.3490757	0.0997054	0.062176	0.2677629
465	482441	3631279	1.5342277	1.2226595	0.1129109	0.1763107	0.1209101	0.0988867	0.0679686	0.4411106	0.125993	0.0785689	0.3115681
466	482491	3631279	1.9597959	1.5929508	0.1471067	0.2297077	0.1575286	0.1288352	0.0885534	0.5747042	0.1641509	0.102364	0.366845
467	482541	3631279	2.5943407	2.1566515	0.1991637	0.3109948	0.2132736	0.1744264	0.11989	0.7780759	0.2222393	0.1385878	0.4376892
468	482391	3631329	1.2001909	0.9369825	0.086529	0.1351153	0.0926592	0.0757816	0.0520876	0.3380442	0.0965545	0.0602111	0.2632084
469	482441	3631329	1.5073768	1.1978196	0.1106169	0.1727287	0.1184537	0.0968777	0.0665878	0.4321489	0.1234333	0.0769726	0.3095572
470	482491	3631329	1.9627987	1.5921452	0.1470323	0.2295915	0.157449	0.1287701	0.0885087	0.5744135	0.1640679	0.1023123	0.3706535
471	482541	3631329	2.6935429	2.2388123	0.2067511	0.3228426	0.2213986	0.1810714	0.1244574	0.8077178	0.2307059	0.1438675	0.4547306
472	482441	3631379	1.4239066	1.1232389	0.1037295	0.161974	0.1110783	0.0908457	0.0624418	0.4052417	0.1157479	0.07218	0.3006676
473	482491	3631379	1.8635843	1.499316	0.1384597	0.2162053	0.148269	0.1212622	0.0833482	0.5409226	0.154502	0.096347	0.3642683
474	482541	3631379	2.571574	2.1168832	0.1954911	0.3052601	0.2093409	0.17121	0.1176793	0.7637283	0.2181413	0.1360322	0.4546908
475	482441	3631429	1.3019354	1.017349	0.0939507	0.1467044	0.1006068	0.0822815	0.0565553	0.3670388	0.1048361	0.0653755	0.2845864
476	482491	3631429	1.6881662	1.3437463	0.1240931	0.1937717	0.1328845	0.10868	0.0747	0.4847963	0.1384708	0.08635	0.3444198
477	482541	3631429	2.3079686	1.8755518	0.1732045	0.2704595	0.1854754	0.1516915	0.1042635	0.6766608	0.1932725	0.1205241	0.4324168

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
1	1.516E-05	2.997E-05	2.997E-05	3.357E-05	0.1617595	0.1189712	1.114E-05	2.203E-05	2.203E-05	2.467E-05	0.1188914
2	1.622E-05	3.209E-05	3.209E-05	3.594E-05	0.1731635	0.1283824	1.202E-05	2.377E-05	2.377E-05	2.662E-05	0.1282962
3	1.734E-05	3.429E-05	3.429E-05	3.841E-05	0.1850825	0.1383705	1.296E-05	2.562E-05	2.562E-05	2.87E-05	0.1382776
4	1.848E-05	3.654E-05	3.654E-05	4.092E-05	0.1972005	0.1486832	1.392E-05	2.753E-05	2.753E-05	3.083E-05	0.1485833
5	1.973E-05	3.901E-05	3.901E-05	4.369E-05	0.2105366	0.1600357	1.498E-05	2.963E-05	2.963E-05	3.319E-05	0.1599283
6	2.108E-05	4.169E-05	4.169E-05	4.669E-05	0.2249831	0.1723576	1.614E-05	3.191E-05	3.191E-05	3.574E-05	0.1722419
7	2.253E-05	4.455E-05	4.455E-05	4.99E-05	0.2404463	0.1856279	1.738E-05	3.437E-05	3.437E-05	3.85E-05	0.1855032
8	2.401E-05	4.747E-05	4.747E-05	5.317E-05	0.256219	0.199407	1.867E-05	3.692E-05	3.692E-05	4.135E-05	0.1992732
9	2.564E-05	5.071E-05	5.071E-05	5.68E-05	0.2736863	0.2149044	2.012E-05	3.979E-05	3.979E-05	4.457E-05	0.2147601
10	2.714E-05	5.367E-05	5.367E-05	6.011E-05	0.2896727	0.2298334	2.152E-05	4.256E-05	4.256E-05	4.766E-05	0.2296791
11	2.88E-05	5.696E-05	5.696E-05	6.38E-05	0.3074329	0.246885	2.312E-05	4.571E-05	4.571E-05	5.12E-05	0.2467192
12	3.028E-05	5.987E-05	5.987E-05	6.706E-05	0.3231426	0.2629493	2.462E-05	4.869E-05	4.869E-05	5.453E-05	0.2627727
13	3.171E-05	6.272E-05	6.272E-05	7.025E-05	0.3385041	0.2791931	2.614E-05	5.17E-05	5.17E-05	5.79E-05	0.2790056
14	3.29E-05	6.507E-05	6.507E-05	7.288E-05	0.3511881	0.2932503	2.746E-05	5.43E-05	5.43E-05	6.082E-05	0.2930535
15	3.441E-05	6.805E-05	6.805E-05	7.621E-05	0.3672393	0.3217113	3.012E-05	5.957E-05	5.957E-05	6.672E-05	0.3214953
16	3.401E-05	6.727E-05	6.727E-05	7.534E-05	0.3630371	0.3198986	2.995E-05	5.923E-05	5.923E-05	6.634E-05	0.3196838
17	1.579E-05	3.123E-05	3.123E-05	3.498E-05	0.1685405	0.1214027	1.137E-05	2.248E-05	2.248E-05	2.518E-05	0.1213212
18	1.7E-05	3.362E-05	3.362E-05	3.766E-05	0.1814672	0.1318371	1.234E-05	2.441E-05	2.441E-05	2.734E-05	0.1317486
19	1.831E-05	3.622E-05	3.622E-05	4.056E-05	0.1954539	0.1433309	1.342E-05	2.654E-05	2.654E-05	2.972E-05	0.1432347
20	1.973E-05	3.901E-05	3.901E-05	4.369E-05	0.2105481	0.1559249	1.46E-05	2.887E-05	2.887E-05	3.234E-05	0.1558202
21	2.119E-05	4.191E-05	4.191E-05	4.694E-05	0.2262059	0.169216	1.584E-05	3.133E-05	3.133E-05	3.509E-05	0.1691024
22	2.282E-05	4.512E-05	4.512E-05	5.054E-05	0.2435289	0.1839861	1.723E-05	3.407E-05	3.407E-05	3.816E-05	0.1838626
23	3.659E-05	7.236E-05	7.236E-05	8.104E-05	0.3905139	0.3223175	3.018E-05	5.968E-05	5.968E-05	6.684E-05	0.3221011
24	3.829E-05	7.572E-05	7.572E-05	8.481E-05	0.4086704	0.3423306	3.205E-05	6.339E-05	6.339E-05	7.099E-05	0.3421008
25	4.068E-05	8.044E-05	8.044E-05	9.01E-05	0.4341468	0.3807809	3.565E-05	7.051E-05	7.051E-05	7.897E-05	0.3805252
26	4.044E-05	7.998E-05	7.998E-05	8.958E-05	0.4316526	0.3811211	3.568E-05	7.057E-05	7.057E-05	7.904E-05	0.3808653
27	3.981E-05	7.874E-05	7.874E-05	8.819E-05	0.4249427	0.377334	3.533E-05	6.987E-05	6.987E-05	7.825E-05	0.3770807
28	1.625E-05	3.213E-05	3.213E-05	3.599E-05	0.1734148	0.121885	1.141E-05	2.257E-05	2.257E-05	2.528E-05	0.1218032
29	1.926E-05	3.808E-05	3.808E-05	4.265E-05	0.2055331	0.1470498	1.377E-05	2.723E-05	2.723E-05	3.05E-05	0.146951
30	2.088E-05	4.129E-05	4.129E-05	4.624E-05	0.2228423	0.1611995	1.509E-05	2.985E-05	2.985E-05	3.343E-05	0.1610913
31	2.276E-05	4.501E-05	4.501E-05	5.042E-05	0.2429454	0.1777988	1.665E-05	3.292E-05	3.292E-05	3.687E-05	0.1776794
32	2.491E-05	4.926E-05	4.926E-05	5.517E-05	0.2658606	0.1969166	1.844E-05	3.646E-05	3.646E-05	4.084E-05	0.1967844
33	2.705E-05	5.349E-05	5.349E-05	5.991E-05	0.288696	0.2165253	2.027E-05	4.009E-05	4.009E-05	4.49E-05	0.2163799
34	2.918E-05	5.771E-05	5.771E-05	6.464E-05	0.3114801	0.2366805	2.216E-05	4.382E-05	4.382E-05	4.908E-05	0.2365217
35	3.185E-05	6.3E-05	6.3E-05	7.056E-05	0.3399875	0.2618812	2.452E-05	4.849E-05	4.849E-05	5.431E-05	0.2617054
36	3.446E-05	6.814E-05	6.814E-05	7.632E-05	0.367761	0.2876224	2.693E-05	5.326E-05	5.326E-05	5.965E-05	0.2874293
37	4.028E-05	7.966E-05	7.966E-05	8.922E-05	0.4299267	0.3486127	3.264E-05	6.455E-05	6.455E-05	7.23E-05	0.3483787
38	4.285E-05	8.475E-05	8.475E-05	9.492E-05	0.4574072	0.3780491	3.54E-05	7E-05	7E-05	7.84E-05	0.3777953
39	4.523E-05	8.945E-05	8.945E-05	0.0001002	0.48278	0.4062519	3.804E-05	7.522E-05	7.522E-05	8.425E-05	0.4059792
40	4.876E-05	9.642E-05	9.642E-05	0.000108	0.5203942	0.4606881	4.313E-05	8.53E-05	8.53E-05	9.554E-05	0.4603788
41	4.851E-05	9.594E-05	9.594E-05	0.0001075	0.5177979	0.4614293	4.32E-05	8.544E-05	8.544E-05	9.569E-05	0.4611195
42	4.741E-05	9.375E-05	9.375E-05	0.000105	0.5059876	0.4532048	4.243E-05	8.392E-05	8.392E-05	9.399E-05	0.4529006
43	1.675E-05	3.312E-05	3.312E-05	3.71E-05	0.1787707	0.1221198	1.143E-05	2.261E-05	2.261E-05	2.533E-05	0.1220378
44	1.833E-05	3.626E-05	3.626E-05	4.061E-05	0.1956909	0.1345953	1.26E-05	2.492E-05	2.492E-05	2.791E-05	0.134505
45	2.014E-05	3.983E-05	3.983E-05	4.461E-05	0.2149873	0.1491772	1.397E-05	2.762E-05	2.762E-05	3.094E-05	0.149077
46	2.43E-05	4.806E-05	4.806E-05	5.383E-05	0.2593817	0.1843214	1.726E-05	3.413E-05	3.413E-05	3.823E-05	0.1841977
47	2.678E-05	5.297E-05	5.297E-05	5.932E-05	0.2858612	0.2060484	1.929E-05	3.815E-05	3.815E-05	4.273E-05	0.2059101
48	2.936E-05	5.807E-05	5.807E-05	6.504E-05	0.313418	0.2294435	2.148E-05	4.248E-05	4.248E-05	4.758E-05	0.2292895

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
49	3.218E-05	6.363E-05	6.363E-05	7.127E-05	0.3434263	0.2555854	2.393E-05	4.733E-05	4.733E-05	5.3E-05	0.2554138
50	3.568E-05	7.056E-05	7.056E-05	7.903E-05	0.3808031	0.2883982	2.7E-05	5.34E-05	5.34E-05	5.981E-05	0.2882046
51	3.916E-05	7.745E-05	7.745E-05	8.675E-05	0.4180203	0.3228384	3.023E-05	5.978E-05	5.978E-05	6.695E-05	0.3226217
52	4.721E-05	9.336E-05	9.336E-05	0.0001046	0.5038624	0.4074286	3.815E-05	7.544E-05	7.544E-05	8.449E-05	0.4071551
53	5.095E-05	0.0001008	0.0001008	0.0001128	0.5437639	0.4504078	4.217E-05	8.34E-05	8.34E-05	9.341E-05	0.4501054
54	5.448E-05	0.0001078	0.0001078	0.0001207	0.5815274	0.4927681	4.614E-05	9.124E-05	9.124E-05	0.0001022	0.4924372
55	5.73E-05	0.0001133	0.0001133	0.0001269	0.6116343	0.5278984	4.943E-05	9.775E-05	9.775E-05	0.0001095	0.527544
56	5.928E-05	0.0001172	0.0001172	0.0001313	0.6327359	0.5534801	5.182E-05	0.0001025	0.0001025	0.0001148	0.5531086
57	5.979E-05	0.0001183	0.0001183	0.0001324	0.638197	0.5713529	5.349E-05	0.0001058	0.0001058	0.0001185	0.5709693
58	5.881E-05	0.0001163	0.0001163	0.0001303	0.6277335	0.5649777	5.29E-05	0.0001046	0.0001046	0.0001172	0.5645984
59	5.738E-05	0.0001135	0.0001135	0.0001271	0.6124814	0.5538126	5.185E-05	0.0001025	0.0001025	0.0001149	0.5534408
60	1.707E-05	3.376E-05	3.376E-05	3.781E-05	0.1822101	0.1207462	1.131E-05	2.236E-05	2.236E-05	2.504E-05	0.1206652
61	1.882E-05	3.723E-05	3.723E-05	4.17E-05	0.2009192	0.1336424	1.251E-05	2.475E-05	2.475E-05	2.772E-05	0.1335527
62	2.08E-05	4.114E-05	4.114E-05	4.607E-05	0.22202	0.1486314	1.392E-05	2.752E-05	2.752E-05	3.082E-05	0.1485316
63	2.311E-05	4.57E-05	4.57E-05	5.119E-05	0.2466512	0.1666389	1.56E-05	3.086E-05	3.086E-05	3.456E-05	0.1665271
64	2.57E-05	5.083E-05	5.083E-05	5.693E-05	0.2743199	0.1876156	1.757E-05	3.474E-05	3.474E-05	3.891E-05	0.1874896
65	3.538E-05	6.997E-05	6.997E-05	7.837E-05	0.3776385	0.2724009	2.55E-05	5.044E-05	5.044E-05	5.649E-05	0.272218
66	3.988E-05	7.888E-05	7.888E-05	8.834E-05	0.4257021	0.3140036	2.94E-05	5.814E-05	5.814E-05	6.512E-05	0.3137928
67	4.459E-05	8.818E-05	8.818E-05	9.876E-05	0.4759213	0.3601665	3.372E-05	6.669E-05	6.669E-05	7.469E-05	0.3599247
68	5.606E-05	0.0001109	0.0001109	0.0001242	0.5983703	0.4815372	4.509E-05	8.916E-05	8.916E-05	9.986E-05	0.4812139
69	6.194E-05	0.0001225	0.0001225	0.0001372	0.6611241	0.5497504	5.147E-05	0.0001018	0.0001018	0.000114	0.5493813
70	6.739E-05	0.0001333	0.0001333	0.0001493	0.7192455	0.6162551	5.77E-05	0.0001141	0.0001141	0.0001278	0.6158414
71	7.197E-05	0.0001423	0.0001423	0.0001594	0.7682049	0.6740487	6.311E-05	0.0001248	0.0001248	0.0001398	0.6735962
72	7.503E-05	0.0001484	0.0001484	0.0001662	0.8008612	0.7134149	6.68E-05	0.0001321	0.0001321	0.000148	0.7129359
73	1.725E-05	3.411E-05	3.411E-05	3.82E-05	0.1840909	0.1183963	1.109E-05	2.192E-05	2.192E-05	2.455E-05	0.1183168
74	1.907E-05	3.772E-05	3.772E-05	4.225E-05	0.2035702	0.1308082	1.225E-05	2.422E-05	2.422E-05	2.713E-05	0.1307203
75	2.125E-05	4.202E-05	4.202E-05	4.706E-05	0.2267742	0.1459543	1.367E-05	2.703E-05	2.703E-05	3.027E-05	0.1458563
76	2.387E-05	4.721E-05	4.721E-05	5.288E-05	0.2548008	0.1647563	1.543E-05	3.051E-05	3.051E-05	3.417E-05	0.1646457
77	2.696E-05	5.333E-05	5.333E-05	5.972E-05	0.2877954	0.1876963	1.757E-05	3.475E-05	3.475E-05	3.893E-05	0.1875703
78	3.03E-05	5.993E-05	5.993E-05	6.712E-05	0.3234508	0.2138488	2.002E-05	3.96E-05	3.96E-05	4.435E-05	0.2137053
79	3.431E-05	6.785E-05	6.785E-05	7.6E-05	0.3662086	0.2464902	2.308E-05	4.564E-05	4.564E-05	5.112E-05	0.2463247
80	5.075E-05	0.0001004	0.0001004	0.0001124	0.5416645	0.3960281	3.708E-05	7.333E-05	7.333E-05	8.213E-05	0.3957622
81	6.739E-05	0.0001333	0.0001333	0.0001493	0.7193071	0.5726232	5.361E-05	0.000106	0.000106	0.0001188	0.5722388
82	7.684E-05	0.000152	0.000152	0.0001702	0.8201467	0.68456	6.409E-05	0.0001268	0.0001268	0.000142	0.6841004
83	8.667E-05	0.0001714	0.0001714	0.000192	0.9250917	0.8081023	7.566E-05	0.0001496	0.0001496	0.0001676	0.8075598
84	9.517E-05	0.0001882	0.0001882	0.0002108	1.0158024	0.9175004	8.59E-05	0.0001699	0.0001699	0.0001903	0.9168844
85	0.0001005	0.0001988	0.0001988	0.0002227	1.0728972	0.9850311	9.223E-05	0.0001824	0.0001824	0.0002043	0.9843698
86	1.696E-05	3.354E-05	3.354E-05	3.756E-05	0.1809933	0.113624	1.064E-05	2.104E-05	2.104E-05	2.356E-05	0.1135477
87	1.916E-05	3.79E-05	3.79E-05	4.245E-05	0.2045321	0.1272103	1.191E-05	2.355E-05	2.355E-05	2.638E-05	0.1271249
88	2.169E-05	4.289E-05	4.289E-05	4.804E-05	0.2314847	0.1430336	1.339E-05	2.648E-05	2.648E-05	2.966E-05	0.1429376
89	2.456E-05	4.857E-05	4.857E-05	5.44E-05	0.2621529	0.1615519	1.513E-05	2.991E-05	2.991E-05	3.35E-05	0.1614435
90	2.791E-05	5.52E-05	5.52E-05	6.183E-05	0.2979366	0.1839548	1.722E-05	3.406E-05	3.406E-05	3.815E-05	0.1838313
91	3.193E-05	6.315E-05	6.315E-05	7.073E-05	0.3408248	0.2119663	1.985E-05	3.925E-05	3.925E-05	4.396E-05	0.211824
92	3.668E-05	7.254E-05	7.254E-05	8.125E-05	0.3915248	0.2468889	2.312E-05	4.571E-05	4.571E-05	5.12E-05	0.2467231
93	4.225E-05	8.356E-05	8.356E-05	9.359E-05	0.4509944	0.2905052	2.72E-05	5.379E-05	5.379E-05	6.025E-05	0.2903102
94	4.912E-05	9.714E-05	9.714E-05	0.0001088	0.5242443	0.3476938	3.255E-05	6.438E-05	6.438E-05	7.211E-05	0.3474604
95	0.0001376	0.0002721	0.0002721	0.0003048	1.4686813	1.404951	0.0001315	0.0002601	0.0002601	0.0002914	1.4040078
96	0.0001501	0.0002969	0.0002969	0.0003326	1.6026012	1.5567471	0.0001458	0.0002883	0.0002883	0.0003228	1.555702

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
97	1.715E-05	3.393E-05	3.393E-05	3.8E-05	0.1831019	0.1123749	1.052E-05	2.081E-05	2.081E-05	2.33E-05	0.1122995
98	1.92E-05	3.798E-05	3.798E-05	4.254E-05	0.2049703	0.1239744	1.161E-05	2.296E-05	2.296E-05	2.571E-05	0.1238911
99	2.168E-05	4.288E-05	4.288E-05	4.803E-05	0.2314287	0.1380178	1.292E-05	2.556E-05	2.556E-05	2.862E-05	0.1379251
100	3.336E-05	6.597E-05	6.597E-05	7.389E-05	0.3560437	0.2063432	1.932E-05	3.821E-05	3.821E-05	4.279E-05	0.2062046
101	3.884E-05	7.681E-05	7.681E-05	8.603E-05	0.4145691	0.2410457	2.257E-05	4.463E-05	4.463E-05	4.999E-05	0.2408839
102	4.568E-05	9.034E-05	9.034E-05	0.0001012	0.4875497	0.2870448	2.688E-05	5.315E-05	5.315E-05	5.953E-05	0.2868521
103	5.457E-05	0.0001079	0.0001079	0.0001209	0.5824845	0.3512361	3.289E-05	6.504E-05	6.504E-05	7.284E-05	0.3510003
104	1.682E-05	3.326E-05	3.326E-05	3.725E-05	0.1794874	0.1088264	1.019E-05	2.015E-05	2.015E-05	2.257E-05	0.1087533
105	1.899E-05	3.756E-05	3.756E-05	4.207E-05	0.2027216	0.1202984	1.126E-05	2.227E-05	2.227E-05	2.495E-05	0.1202176
106	2.169E-05	4.289E-05	4.289E-05	4.804E-05	0.231494	0.1341699	1.256E-05	2.484E-05	2.484E-05	2.782E-05	0.1340798
107	4.932E-05	9.754E-05	9.754E-05	0.0001092	0.5264446	0.2765339	2.589E-05	5.12E-05	5.12E-05	5.735E-05	0.2763483
108	6.075E-05	0.0001201	0.0001201	0.0001346	0.6483862	0.3421597	3.204E-05	6.336E-05	6.336E-05	7.096E-05	0.34193
109	1.63E-05	3.224E-05	3.224E-05	3.61E-05	0.1739807	0.1050141	9.832E-06	1.944E-05	1.944E-05	2.178E-05	0.1049436
110	1.85E-05	3.659E-05	3.659E-05	4.098E-05	0.1974872	0.1161554	1.088E-05	2.151E-05	2.151E-05	2.409E-05	0.1160774
111	2.118E-05	4.19E-05	4.19E-05	4.692E-05	0.2261079	0.1291265	1.209E-05	2.391E-05	2.391E-05	2.678E-05	0.1290398
112	5.315E-05	0.0001051	0.0001051	0.0001177	0.5672469	0.2616403	2.45E-05	4.845E-05	4.845E-05	5.426E-05	0.2614646
113	6.824E-05	0.000135	0.000135	0.0001511	0.7283353	0.3224394	3.019E-05	5.97E-05	5.97E-05	6.687E-05	0.3222229
114	1.573E-05	3.11E-05	3.11E-05	3.483E-05	0.1678546	0.1013862	9.493E-06	1.877E-05	1.877E-05	2.103E-05	0.1013182
115	1.779E-05	3.519E-05	3.519E-05	3.941E-05	0.1899308	0.1117013	1.046E-05	2.068E-05	2.068E-05	2.316E-05	0.1116263
116	2.042E-05	4.038E-05	4.038E-05	4.523E-05	0.2179358	0.1240837	1.162E-05	2.298E-05	2.298E-05	2.573E-05	0.1240004
117	2.373E-05	4.693E-05	4.693E-05	5.256E-05	0.2532561	0.1387022	1.299E-05	2.568E-05	2.568E-05	2.876E-05	0.1386091
118	5.563E-05	0.00011	0.00011	0.0001232	0.5937129	0.2447688	2.292E-05	4.532E-05	4.532E-05	5.076E-05	0.2446044
119	7.702E-05	0.0001523	0.0001523	0.0001706	0.8220601	0.2982099	2.792E-05	5.522E-05	5.522E-05	6.184E-05	0.2980097
120	1.507E-05	2.98E-05	2.98E-05	3.338E-05	0.1608264	0.0976534	9.143E-06	1.808E-05	1.808E-05	2.025E-05	0.0975878
121	1.702E-05	3.365E-05	3.365E-05	3.769E-05	0.181611	0.1074049	1.006E-05	1.989E-05	1.989E-05	2.227E-05	0.1073328
122	1.948E-05	3.852E-05	3.852E-05	4.315E-05	0.207912	0.1190517	1.115E-05	2.204E-05	2.204E-05	2.469E-05	0.1189717
123	2.252E-05	4.454E-05	4.454E-05	4.988E-05	0.2403746	0.1324502	1.24E-05	2.452E-05	2.452E-05	2.747E-05	0.1323612
124	5.381E-05	0.0001064	0.0001064	0.0001192	0.5743206	0.2278088	2.133E-05	4.218E-05	4.218E-05	4.724E-05	0.2276559
125	7.952E-05	0.0001573	0.0001573	0.0001761	0.8487642	0.2732973	2.559E-05	5.06E-05	5.06E-05	5.668E-05	0.2731138
126	1.443E-05	2.855E-05	2.855E-05	3.197E-05	0.1540656	0.0942422	8.824E-06	1.745E-05	1.745E-05	1.954E-05	0.094179
127	1.622E-05	3.208E-05	3.208E-05	3.593E-05	0.173135	0.1033004	9.672E-06	1.913E-05	1.913E-05	2.142E-05	0.1032311
128	1.845E-05	3.649E-05	3.649E-05	4.087E-05	0.1969327	0.1139944	1.067E-05	2.111E-05	2.111E-05	2.364E-05	0.1139178
129	2.13E-05	4.212E-05	4.212E-05	4.717E-05	0.2273022	0.1267337	1.187E-05	2.347E-05	2.347E-05	2.628E-05	0.1266486
130	2.493E-05	4.93E-05	4.93E-05	5.522E-05	0.2660794	0.1416604	1.326E-05	2.623E-05	2.623E-05	2.938E-05	0.1415652
131	2.994E-05	5.921E-05	5.921E-05	6.631E-05	0.3195504	0.1600724	1.499E-05	2.964E-05	2.964E-05	3.32E-05	0.159965
132	3.715E-05	7.346E-05	7.346E-05	8.228E-05	0.3964735	0.1828397	1.712E-05	3.386E-05	3.386E-05	3.792E-05	0.182717
133	4.871E-05	9.632E-05	9.632E-05	0.0001079	0.5198538	0.2121874	1.987E-05	3.929E-05	3.929E-05	4.4E-05	0.2120449
134	6.966E-05	0.0001378	0.0001378	0.0001543	0.7435019	0.2500214	2.341E-05	4.629E-05	4.629E-05	5.185E-05	0.2498535
135	0.0001214	0.0002401	0.0002401	0.0002689	1.2957652	0.3010879	2.819E-05	5.575E-05	5.575E-05	6.244E-05	0.3008857
136	1.382E-05	2.734E-05	2.734E-05	3.062E-05	0.147542	0.0909818	8.518E-06	1.685E-05	1.685E-05	1.887E-05	0.0909208
137	1.551E-05	3.068E-05	3.068E-05	3.436E-05	0.1655914	0.0996658	9.332E-06	1.845E-05	1.845E-05	2.067E-05	0.0995989
138	1.75E-05	3.462E-05	3.462E-05	3.877E-05	0.1868292	0.1093569	1.024E-05	2.025E-05	2.025E-05	2.268E-05	0.1092835
139	2.003E-05	3.961E-05	3.961E-05	4.436E-05	0.2137592	0.1208801	1.132E-05	2.238E-05	2.238E-05	2.507E-05	0.1207989
140	2.337E-05	4.621E-05	4.621E-05	5.176E-05	0.2494114	0.1349343	1.263E-05	2.498E-05	2.498E-05	2.798E-05	0.1348437
141	2.784E-05	5.505E-05	5.505E-05	6.165E-05	0.2970993	0.1518488	1.422E-05	2.812E-05	2.812E-05	3.149E-05	0.1517469
142	3.392E-05	6.708E-05	6.708E-05	7.513E-05	0.3620417	0.1718969	1.609E-05	3.183E-05	3.183E-05	3.565E-05	0.1717815
143	4.308E-05	8.52E-05	8.52E-05	9.543E-05	0.4598297	0.1969868	1.844E-05	3.647E-05	3.647E-05	4.085E-05	0.1968545
144	5.779E-05	0.0001143	0.0001143	0.000128	0.6168346	0.2285607	2.14E-05	4.232E-05	4.232E-05	4.74E-05	0.2284073

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
145	8.421E-05	0.0001665	0.0001665	0.0001865	0.8987789	0.2688025	2.517E-05	4.977E-05	4.977E-05	5.575E-05	0.2686221
146	1.325E-05	2.62E-05	2.62E-05	2.934E-05	0.1413878	0.0878328	8.224E-06	1.626E-05	1.626E-05	1.822E-05	0.0877738
147	1.475E-05	2.917E-05	2.917E-05	3.267E-05	0.1574506	0.0956632	8.957E-06	1.771E-05	1.771E-05	1.984E-05	0.095599
148	1.659E-05	3.281E-05	3.281E-05	3.675E-05	0.1770766	0.104764	9.809E-06	1.94E-05	1.94E-05	2.173E-05	0.1046937
149	1.894E-05	3.746E-05	3.746E-05	4.196E-05	0.2021951	0.1157159	1.083E-05	2.143E-05	2.143E-05	2.4E-05	0.1156382
150	2.179E-05	4.31E-05	4.31E-05	4.827E-05	0.2326249	0.1280283	1.199E-05	2.371E-05	2.371E-05	2.655E-05	0.1279423
151	2.556E-05	5.055E-05	5.055E-05	5.662E-05	0.2728323	0.1428812	1.338E-05	2.646E-05	2.646E-05	2.963E-05	0.1427853
152	3.053E-05	6.037E-05	6.037E-05	6.762E-05	0.3258261	0.1605351	1.503E-05	2.973E-05	2.973E-05	3.329E-05	0.1604273
153	3.748E-05	7.413E-05	7.413E-05	8.302E-05	0.400054	0.1818098	1.702E-05	3.366E-05	3.366E-05	3.77E-05	0.1816878
154	4.672E-05	9.239E-05	9.239E-05	0.0001035	0.4986236	0.2077552	1.945E-05	3.847E-05	3.847E-05	4.308E-05	0.2076158
155	6.157E-05	0.0001218	0.0001218	0.0001364	0.6571086	0.2389388	2.237E-05	4.424E-05	4.424E-05	4.955E-05	0.2387784
156	1.269E-05	2.509E-05	2.509E-05	2.81E-05	0.1354219	0.0847125	7.931E-06	1.569E-05	1.569E-05	1.757E-05	0.0846556
157	1.411E-05	2.79E-05	2.79E-05	3.125E-05	0.15059	0.0922015	8.633E-06	1.707E-05	1.707E-05	1.912E-05	0.0921396
158	1.574E-05	3.112E-05	3.112E-05	3.486E-05	0.1679769	0.1004019	9.4E-06	1.859E-05	1.859E-05	2.082E-05	0.1003345
159	1.777E-05	3.514E-05	3.514E-05	3.936E-05	0.1896674	0.1100981	1.031E-05	2.039E-05	2.039E-05	2.283E-05	0.1100242
160	2.029E-05	4.013E-05	4.013E-05	4.495E-05	0.2166075	0.1213964	1.137E-05	2.248E-05	2.248E-05	2.518E-05	0.1213149
161	2.344E-05	4.636E-05	4.636E-05	5.192E-05	0.2501795	0.1344603	1.259E-05	2.49E-05	2.49E-05	2.788E-05	0.1343701
162	2.739E-05	5.416E-05	5.416E-05	6.066E-05	0.2923003	0.1495702	1.4E-05	2.769E-05	2.769E-05	3.102E-05	0.1494697
163	3.247E-05	6.421E-05	6.421E-05	7.192E-05	0.3465576	0.1671794	1.565E-05	3.096E-05	3.096E-05	3.467E-05	0.1670671
164	3.845E-05	7.603E-05	7.603E-05	8.516E-05	0.4103483	0.1883309	1.763E-05	3.487E-05	3.487E-05	3.906E-05	0.1882045
165	4.794E-05	9.48E-05	9.48E-05	0.0001062	0.5116414	0.2136994	2.001E-05	3.957E-05	3.957E-05	4.432E-05	0.2135559
166	1.214E-05	2.401E-05	2.401E-05	2.689E-05	0.1295714	0.0816376	7.644E-06	1.512E-05	1.512E-05	1.693E-05	0.0815828
167	1.338E-05	2.645E-05	2.645E-05	2.963E-05	0.1427756	0.0882759	8.265E-06	1.635E-05	1.635E-05	1.831E-05	0.0882166
168	1.486E-05	2.939E-05	2.939E-05	3.292E-05	0.1586218	0.0959298	8.982E-06	1.776E-05	1.776E-05	1.989E-05	0.0958654
169	1.664E-05	3.29E-05	3.29E-05	3.685E-05	0.1775636	0.1046691	9.8E-06	1.938E-05	1.938E-05	2.171E-05	0.1045989
170	1.878E-05	3.714E-05	3.714E-05	4.159E-05	0.2004349	0.1146876	1.074E-05	2.124E-05	2.124E-05	2.378E-05	0.1146106
171	2.137E-05	4.225E-05	4.225E-05	4.732E-05	0.2280446	0.1261081	1.181E-05	2.335E-05	2.335E-05	2.615E-05	0.1260234
172	2.444E-05	4.834E-05	4.834E-05	5.414E-05	0.2608735	0.138925	1.301E-05	2.572E-05	2.572E-05	2.881E-05	0.1388318
173	2.808E-05	5.554E-05	5.554E-05	6.22E-05	0.2997273	0.1538614	1.441E-05	2.849E-05	2.849E-05	3.191E-05	0.1537581
174	3.264E-05	6.454E-05	6.454E-05	7.229E-05	0.3483397	0.1710798	1.602E-05	3.168E-05	3.168E-05	3.548E-05	0.1709649
175	3.86E-05	7.634E-05	7.634E-05	8.55E-05	0.4120213	0.1918401	1.796E-05	3.552E-05	3.552E-05	3.978E-05	0.1917113
176	1.157E-05	2.288E-05	2.288E-05	2.563E-05	0.1234949	0.0784571	7.346E-06	1.453E-05	1.453E-05	1.627E-05	0.0784044
177	1.269E-05	2.51E-05	2.51E-05	2.811E-05	0.1354629	0.0846038	7.921E-06	1.567E-05	1.567E-05	1.755E-05	0.084547
178	1.399E-05	2.767E-05	2.767E-05	3.099E-05	0.149326	0.091488	8.566E-06	1.694E-05	1.694E-05	1.897E-05	0.0914266
179	1.553E-05	3.071E-05	3.071E-05	3.439E-05	0.1657321	0.0993363	9.301E-06	1.839E-05	1.839E-05	2.06E-05	0.0992697
180	1.734E-05	3.43E-05	3.43E-05	3.841E-05	0.1850938	0.1082268	1.013E-05	2.004E-05	2.004E-05	2.244E-05	0.1081542
181	1.946E-05	3.848E-05	3.848E-05	4.31E-05	0.207685	0.1181564	1.106E-05	2.188E-05	2.188E-05	2.45E-05	0.118077
182	2.192E-05	4.335E-05	4.335E-05	4.856E-05	0.2339851	0.1292819	1.21E-05	2.394E-05	2.394E-05	2.681E-05	0.1291951
183	2.48E-05	4.905E-05	4.905E-05	5.493E-05	0.2647009	0.1416984	1.327E-05	2.624E-05	2.624E-05	2.939E-05	0.1416033
184	2.815E-05	5.567E-05	5.567E-05	6.235E-05	0.3004349	0.156021	1.461E-05	2.889E-05	2.889E-05	3.236E-05	0.1559162
185	3.197E-05	6.323E-05	6.323E-05	7.082E-05	0.3412533	0.1729242	1.619E-05	3.202E-05	3.202E-05	3.586E-05	0.1728081
186	3.851E-05	7.615E-05	7.615E-05	8.529E-05	0.4109803	0.3110593	2.912E-05	5.76E-05	5.76E-05	6.451E-05	0.3108505
187	3.776E-05	7.468E-05	7.468E-05	8.365E-05	0.4030743	0.318461	2.982E-05	5.897E-05	5.897E-05	6.604E-05	0.3182472
188	3.721E-05	7.358E-05	7.358E-05	8.241E-05	0.3971176	0.3248023	3.041E-05	6.014E-05	6.014E-05	6.736E-05	0.3245843
189	1.1E-05	2.176E-05	2.176E-05	2.437E-05	0.1174187	0.0752772	7.048E-06	1.394E-05	1.394E-05	1.561E-05	0.0752267
190	1.2E-05	2.373E-05	2.373E-05	2.658E-05	0.1280688	0.0808817	7.573E-06	1.498E-05	1.498E-05	1.677E-05	0.0808274
191	1.314E-05	2.599E-05	2.599E-05	2.911E-05	0.1402691	0.0871266	8.157E-06	1.613E-05	1.613E-05	1.807E-05	0.0870682
192	1.446E-05	2.86E-05	2.86E-05	3.204E-05	0.1543708	0.0941325	8.813E-06	1.743E-05	1.743E-05	1.952E-05	0.0940693

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
193	1.599E-05	3.162E-05	3.162E-05	3.541E-05	0.1706532	0.1019725	9.547E-06	1.888E-05	1.888E-05	2.115E-05	0.101904
194	1.772E-05	3.504E-05	3.504E-05	3.925E-05	0.1891307	0.1106331	1.036E-05	2.049E-05	2.049E-05	2.294E-05	0.1105588
195	1.971E-05	3.897E-05	3.897E-05	4.365E-05	0.2103286	0.1202827	1.126E-05	2.227E-05	2.227E-05	2.494E-05	0.120202
196	2.193E-05	4.336E-05	4.336E-05	4.857E-05	0.2340382	0.1308508	1.225E-05	2.423E-05	2.423E-05	2.714E-05	0.130763
197	2.705E-05	5.35E-05	5.35E-05	5.992E-05	0.2887341	0.1565087	1.465E-05	2.898E-05	2.898E-05	3.246E-05	0.1564036
198	3.396E-05	6.716E-05	6.716E-05	7.522E-05	0.362486	0.2362092	2.212E-05	4.374E-05	4.374E-05	4.899E-05	0.2360507
199	3.358E-05	6.642E-05	6.642E-05	7.439E-05	0.3584621	0.2465894	2.309E-05	4.566E-05	4.566E-05	5.114E-05	0.2464238
200	3.317E-05	6.559E-05	6.559E-05	7.346E-05	0.3540032	0.2559959	2.397E-05	4.74E-05	4.74E-05	5.309E-05	0.255824
201	3.27E-05	6.467E-05	6.467E-05	7.243E-05	0.349005	0.2637196	2.469E-05	4.883E-05	4.883E-05	5.469E-05	0.2635425
202	3.222E-05	6.373E-05	6.373E-05	7.137E-05	0.3439289	0.2697906	2.526E-05	4.996E-05	4.996E-05	5.595E-05	0.2696095
203	3.177E-05	6.284E-05	6.284E-05	7.038E-05	0.3391275	0.2744771	2.57E-05	5.082E-05	5.082E-05	5.692E-05	0.2742929
204	1.045E-05	2.067E-05	2.067E-05	2.315E-05	0.1115722	0.0722023	6.76E-06	1.337E-05	1.337E-05	1.497E-05	0.0721538
205	1.133E-05	2.24E-05	2.24E-05	2.509E-05	0.1209104	0.077243	7.232E-06	1.43E-05	1.43E-05	1.602E-05	0.0771912
206	1.233E-05	2.439E-05	2.439E-05	2.732E-05	0.131631	0.0829019	7.762E-06	1.535E-05	1.535E-05	1.719E-05	0.0828462
207	1.349E-05	2.668E-05	2.668E-05	2.988E-05	0.1439824	0.0892718	8.358E-06	1.653E-05	1.653E-05	1.851E-05	0.0892119
208	1.477E-05	2.92E-05	2.92E-05	3.271E-05	0.1576064	0.0961447	9.002E-06	1.78E-05	1.78E-05	1.994E-05	0.0960802
209	1.62E-05	3.203E-05	3.203E-05	3.588E-05	0.172885	0.1037106	9.71E-06	1.92E-05	1.92E-05	2.151E-05	0.103641
210	1.78E-05	3.521E-05	3.521E-05	3.944E-05	0.190036	0.1120981	1.05E-05	2.076E-05	2.076E-05	2.325E-05	0.1120229
211	2.128E-05	4.208E-05	4.208E-05	4.713E-05	0.2271027	0.1307513	1.224E-05	2.421E-05	2.421E-05	2.712E-05	0.1306635
212	2.297E-05	4.542E-05	4.542E-05	5.088E-05	0.2451567	0.1408436	1.319E-05	2.608E-05	2.608E-05	2.921E-05	0.140749
213	2.769E-05	5.475E-05	5.475E-05	6.132E-05	0.2954972	0.1833075	1.716E-05	3.394E-05	3.394E-05	3.801E-05	0.1831844
214	2.816E-05	5.57E-05	5.57E-05	6.238E-05	0.3006054	0.1935651	1.812E-05	3.584E-05	3.584E-05	4.014E-05	0.1934352
215	2.868E-05	5.671E-05	5.671E-05	6.352E-05	0.3060697	0.2050706	1.92E-05	3.797E-05	3.797E-05	4.253E-05	0.204933
216	2.862E-05	5.66E-05	5.66E-05	6.34E-05	0.3054887	0.213659	2E-05	3.956E-05	3.956E-05	4.431E-05	0.2135155
217	2.841E-05	5.618E-05	5.618E-05	6.292E-05	0.3032085	0.2209505	2.069E-05	4.091E-05	4.091E-05	4.582E-05	0.2208021
218	2.813E-05	5.563E-05	5.563E-05	6.231E-05	0.300249	0.2270624	2.126E-05	4.204E-05	4.204E-05	4.709E-05	0.2269099
219	2.781E-05	5.5E-05	5.5E-05	6.16E-05	0.2968441	0.231888	2.171E-05	4.294E-05	4.294E-05	4.809E-05	0.2317323
220	2.688E-05	5.316E-05	5.316E-05	5.954E-05	0.2869272	0.2304207	2.157E-05	4.267E-05	4.267E-05	4.779E-05	0.2302661
221	9.906E-06	1.959E-05	1.959E-05	2.194E-05	0.1057346	0.0690985	6.47E-06	1.279E-05	1.279E-05	1.433E-05	0.0690521
222	1.07E-05	2.116E-05	2.116E-05	2.37E-05	0.1142085	0.0737897	6.909E-06	1.366E-05	1.366E-05	1.53E-05	0.0737402
223	1.16E-05	2.293E-05	2.293E-05	2.568E-05	0.123767	0.0789901	7.396E-06	1.463E-05	1.463E-05	1.638E-05	0.0789371
224	1.257E-05	2.485E-05	2.485E-05	2.783E-05	0.1341123	0.0845207	7.914E-06	1.565E-05	1.565E-05	1.753E-05	0.0844639
225	1.365E-05	2.699E-05	2.699E-05	3.023E-05	0.1456709	0.0906149	8.484E-06	1.678E-05	1.678E-05	1.879E-05	0.0905541
226	1.616E-05	3.196E-05	3.196E-05	3.58E-05	0.1724919	0.1045974	9.793E-06	1.937E-05	1.937E-05	2.169E-05	0.1045272
227	1.755E-05	3.471E-05	3.471E-05	3.888E-05	0.1873446	0.112523	1.054E-05	2.084E-05	2.084E-05	2.334E-05	0.1124475
228	1.87E-05	3.698E-05	3.698E-05	4.142E-05	0.1995928	0.1196866	1.121E-05	2.216E-05	2.216E-05	2.482E-05	0.1196062
229	2.009E-05	3.974E-05	3.974E-05	4.45E-05	0.2144522	0.1286469	1.204E-05	2.382E-05	2.382E-05	2.668E-05	0.1285606
230	2.345E-05	4.637E-05	4.637E-05	5.193E-05	0.2502527	0.1614585	1.512E-05	2.99E-05	2.99E-05	3.348E-05	0.1613501
231	2.395E-05	4.736E-05	4.736E-05	5.304E-05	0.2555895	0.1698433	1.59E-05	3.145E-05	3.145E-05	3.522E-05	0.1697293
232	2.449E-05	4.843E-05	4.843E-05	5.425E-05	0.2614032	0.1792568	1.678E-05	3.319E-05	3.319E-05	3.717E-05	0.1791364
233	2.451E-05	4.847E-05	4.847E-05	5.429E-05	0.2615969	0.185756	1.739E-05	3.44E-05	3.44E-05	3.852E-05	0.1856313
234	2.447E-05	4.839E-05	4.839E-05	5.419E-05	0.2611367	0.1918074	1.796E-05	3.552E-05	3.552E-05	3.978E-05	0.1916787
235	2.435E-05	4.815E-05	4.815E-05	5.393E-05	0.2598813	0.196973	1.844E-05	3.647E-05	3.647E-05	4.085E-05	0.1968408
236	2.379E-05	4.705E-05	4.705E-05	5.269E-05	0.2539213	0.1979865	1.854E-05	3.666E-05	3.666E-05	4.106E-05	0.1978536
237	2.365E-05	4.678E-05	4.678E-05	5.239E-05	0.252469	0.2017138	1.889E-05	3.735E-05	3.735E-05	4.183E-05	0.2015784
238	6.377E-05	0.0001261	0.0001261	0.0001412	0.6806234	0.514174	4.814E-05	9.521E-05	9.521E-05	0.0001066	0.5138288
239	6.57E-05	0.0001299	0.0001299	0.0001455	0.7012267	0.5350848	5.01E-05	9.908E-05	9.908E-05	0.000111	0.5347255
240	6.766E-05	0.0001338	0.0001338	0.0001499	0.7221365	0.5567144	5.212E-05	0.0001031	0.0001031	0.0001155	0.5563406

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
241	6.964E-05	0.0001377	0.0001377	0.0001543	0.7433106	0.5790316	5.421E-05	0.0001072	0.0001072	0.0001201	0.5786429
242	7.172E-05	0.0001418	0.0001418	0.0001589	0.7655332	0.6027385	5.643E-05	0.0001116	0.0001116	0.000125	0.6023338
243	7.387E-05	0.0001461	0.0001461	0.0001636	0.7884913	0.6275873	5.876E-05	0.0001162	0.0001162	0.0001302	0.627166
244	6.562E-05	0.0001298	0.0001298	0.0001454	0.7004345	0.5244659	4.91E-05	9.711E-05	9.711E-05	0.0001088	0.5241138
245	6.781E-05	0.0001341	0.0001341	0.0001502	0.7237869	0.547861	5.13E-05	0.0001014	0.0001014	0.0001136	0.5474932
246	6.996E-05	0.0001384	0.0001384	0.000155	0.7467519	0.571502	5.351E-05	0.0001058	0.0001058	0.0001185	0.5711184
247	7.215E-05	0.0001427	0.0001427	0.0001598	0.7701176	0.5960397	5.581E-05	0.0001104	0.0001104	0.0001236	0.5956396
248	7.444E-05	0.0001472	0.0001472	0.0001649	0.7945597	0.6220838	5.824E-05	0.0001152	0.0001152	0.000129	0.6216662
249	7.681E-05	0.0001519	0.0001519	0.0001701	0.8198241	0.6494462	6.081E-05	0.0001203	0.0001203	0.0001347	0.6490102
250	7.927E-05	0.0001568	0.0001568	0.0001756	0.8461148	0.6783426	6.351E-05	0.0001256	0.0001256	0.0001407	0.6778873
251	8.176E-05	0.0001617	0.0001617	0.0001811	0.8726702	0.7080863	6.63E-05	0.0001311	0.0001311	0.0001468	0.7076109
252	6.956E-05	0.0001376	0.0001376	0.0001541	0.7424007	0.5564661	5.21E-05	0.000103	0.000103	0.0001154	0.5560925
253	7.209E-05	0.0001426	0.0001426	0.0001597	0.7694396	0.5836694	5.465E-05	0.0001081	0.0001081	0.000121	0.5832776
254	7.469E-05	0.0001477	0.0001477	0.0001654	0.7971976	0.612243	5.732E-05	0.0001134	0.0001134	0.000127	0.611832
255	7.725E-05	0.0001528	0.0001528	0.0001711	0.8245019	0.6411737	6.003E-05	0.0001187	0.0001187	0.000133	0.6407432
256	7.983E-05	0.0001579	0.0001579	0.0001768	0.8520947	0.6710727	6.283E-05	0.0001243	0.0001243	0.0001392	0.6706222
257	8.251E-05	0.0001632	0.0001632	0.0001828	0.880633	0.7025439	6.578E-05	0.0001301	0.0001301	0.0001457	0.7020723
258	8.531E-05	0.0001687	0.0001687	0.000189	0.9105935	0.736071	6.892E-05	0.0001363	0.0001363	0.0001526	0.7355768
259	8.835E-05	0.0001747	0.0001747	0.0001957	0.9430305	0.7727421	7.235E-05	0.0001431	0.0001431	0.0001603	0.7722233
260	9.155E-05	0.0001811	0.0001811	0.0002028	0.9771298	0.8119441	7.602E-05	0.0001503	0.0001503	0.0001684	0.811399
261	7.703E-05	0.0001523	0.0001523	0.0001706	0.822146	0.6254598	5.856E-05	0.0001158	0.0001158	0.0001297	0.6250399
262	7.989E-05	0.000158	0.000158	0.0001769	0.8526743	0.6574773	6.156E-05	0.0001217	0.0001217	0.0001363	0.6570359
263	8.288E-05	0.0001639	0.0001639	0.0001836	0.8846213	0.6916486	6.476E-05	0.0001281	0.0001281	0.0001434	0.6911843
264	8.581E-05	0.0001697	0.0001697	0.0001901	0.9159322	0.7261643	6.799E-05	0.0001345	0.0001345	0.0001506	0.7256768
265	8.906E-05	0.0001761	0.0001761	0.0001973	0.9505335	0.7646335	7.159E-05	0.0001416	0.0001416	0.0001586	0.7641202
266	9.269E-05	0.0001833	0.0001833	0.0002053	0.9892741	0.8082316	7.567E-05	0.0001497	0.0001497	0.0001676	0.807689
267	9.606E-05	0.00019	0.00019	0.0002128	1.0252536	0.8500652	7.959E-05	0.0001574	0.0001574	0.0001763	0.8494946
268	9.956E-05	0.0001969	0.0001969	0.0002205	1.0625949	0.8942424	8.373E-05	0.0001656	0.0001656	0.0001855	0.893642
269	0.0001032	0.000204	0.000204	0.0002285	1.1010449	0.9405321	8.806E-05	0.0001742	0.0001742	0.0001951	0.9399007
270	0.000107	0.0002116	0.0002116	0.0002369	1.141772	0.9902493	9.272E-05	0.0001834	0.0001834	0.0002054	0.9895845
271	8.602E-05	0.0001701	0.0001701	0.0001905	0.9181367	0.7116158	6.663E-05	0.0001318	0.0001318	0.0001476	0.711138
272	8.93E-05	0.0001766	0.0001766	0.0001978	0.9531349	0.7499738	7.022E-05	0.0001389	0.0001389	0.0001555	0.7494704
273	9.289E-05	0.0001837	0.0001837	0.0002057	0.9914257	0.7924784	7.42E-05	0.0001467	0.0001467	0.0001643	0.7919464
274	9.695E-05	0.0001917	0.0001917	0.0002147	1.034778	0.8411767	7.876E-05	0.0001558	0.0001558	0.0001744	0.840612
275	0.0001008	0.0001993	0.0001993	0.0002232	1.0756633	0.8887609	8.321E-05	0.0001646	0.0001646	0.0001843	0.8881642
276	0.0001047	0.0002071	0.0002071	0.000232	1.1178543	0.9388716	8.79E-05	0.0001738	0.0001738	0.0001947	0.9382413
277	0.0001089	0.0002154	0.0002154	0.0002412	1.1623482	0.9926753	9.294E-05	0.0001838	0.0001838	0.0002059	0.9920089
278	0.0001134	0.0002242	0.0002242	0.0002511	1.2100027	1.0512545	9.843E-05	0.0001947	0.0001947	0.000218	1.0505488
279	0.0001179	0.0002332	0.0002332	0.0002612	1.2586645	1.1122711	0.0001041	0.000206	0.000206	0.0002307	1.1115244
280	0.000123	0.0002432	0.0002432	0.0002723	1.3123577	1.1809932	0.0001106	0.0002187	0.0002187	0.0002449	1.1802003
281	0.0001279	0.0002529	0.0002529	0.0002832	1.3648301	1.2490628	0.0001169	0.0002313	0.0002313	0.000259	1.2482243
282	9.698E-05	0.0001918	0.0001918	0.0002148	1.0351506	0.8210376	7.687E-05	0.000152	0.000152	0.0001703	0.8204864
283	0.0001011	0.0001999	0.0001999	0.0002239	1.0788746	0.8706744	8.152E-05	0.0001612	0.0001612	0.0001806	0.8700899
284	0.0001055	0.0002086	0.0002086	0.0002337	1.1260697	0.9252509	8.663E-05	0.0001713	0.0001713	0.0001919	0.9246298
285	0.0001101	0.0002178	0.0002178	0.0002439	1.1753709	0.9836234	9.209E-05	0.0001821	0.0001821	0.000204	0.982963
286	0.000115	0.0002275	0.0002275	0.0002548	1.2276238	1.0468423	9.801E-05	0.0001938	0.0001938	0.0002171	1.0461395
287	0.0001202	0.0002377	0.0002377	0.0002662	1.2828298	1.1151201	0.0001044	0.0002065	0.0002065	0.0002313	1.1143715
288	0.0001255	0.0002481	0.0002481	0.0002779	1.3392198	1.1865364	0.0001111	0.0002197	0.0002197	0.0002461	1.1857398

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
289	0.0001315	0.0002601	0.0002601	0.0002913	1.4037299	1.2704774	0.000119	0.0002352	0.0002352	0.0002635	1.2696245
290	0.0001374	0.0002718	0.0002718	0.0003044	1.4669337	1.3538691	0.0001268	0.0002507	0.0002507	0.0002808	1.3529602
291	0.0001436	0.000284	0.000284	0.000318	1.5325719	1.4417329	0.000135	0.000267	0.000267	0.000299	1.440765
292	0.0001499	0.0002964	0.0002964	0.000332	1.599921	1.532918	0.0001435	0.0002838	0.0002838	0.0003179	1.5318889
293	0.0001158	0.0002291	0.0002291	0.0002566	1.2364092	1.0292789	9.637E-05	0.0001906	0.0001906	0.0002135	1.0285879
294	0.0001215	0.0002402	0.0002402	0.000269	1.2964587	1.1019028	0.0001032	0.000204	0.000204	0.0002285	1.101163
295	0.0001274	0.000252	0.000252	0.0002822	1.3599648	1.1807146	0.0001105	0.0002186	0.0002186	0.0002449	1.1799219
296	0.0001341	0.0002652	0.0002652	0.000297	1.4310534	1.2714547	0.000119	0.0002354	0.0002354	0.0002637	1.2706011
297	0.0001409	0.0002786	0.0002786	0.000312	1.5034454	1.3666816	0.000128	0.0002531	0.0002531	0.0002834	1.3657641
298	0.000148	0.0002928	0.0002928	0.0003279	1.5800767	1.4694391	0.0001376	0.0002721	0.0002721	0.0003047	1.4684526
299	0.0001556	0.0003078	0.0003078	0.0003447	1.6611355	1.5806555	0.000148	0.0002927	0.0002927	0.0003278	1.5795943
300	0.0001636	0.0003236	0.0003236	0.0003624	1.7462059	1.6993947	0.0001591	0.0003147	0.0003147	0.0003524	1.6982539
301	0.0001719	0.0003399	0.0003399	0.0003807	1.8343843	1.8236019	0.0001707	0.0003377	0.0003377	0.0003782	1.8223777
302	0.0001803	0.0003565	0.0003565	0.0003993	1.9240021	1.9490962	0.0001825	0.0003609	0.0003609	0.0004042	1.9477877
303	0.0001885	0.0003728	0.0003728	0.0004175	2.0119304	2.0688049	0.0001937	0.0003831	0.0003831	0.000429	2.067416
304	0.0001352	0.0002674	0.0002674	0.0002995	1.4430525	1.2489581	0.0001169	0.0002313	0.0002313	0.000259	1.2481197
305	0.0001426	0.0002821	0.0002821	0.0003159	1.5224361	1.3503047	0.0001264	0.00025	0.00025	0.00028	1.3493982
306	0.000151	0.0002986	0.0002986	0.0003344	1.6113013	1.4675064	0.0001374	0.0002717	0.0002717	0.0003043	1.4665212
307	0.0001598	0.0003159	0.0003159	0.0003538	1.7051135	1.5955825	0.0001494	0.0002954	0.0002954	0.0003309	1.5945113
308	0.0001692	0.0003346	0.0003346	0.0003747	1.8056745	1.7369646	0.0001626	0.0003216	0.0003216	0.0003602	1.7357985
309	0.0001793	0.0003546	0.0003546	0.0003972	1.9139618	1.8928533	0.0001772	0.0003505	0.0003505	0.0003925	1.8915826
310	0.0001901	0.000376	0.000376	0.0004211	2.0293587	2.0619799	0.0001931	0.0003818	0.0003818	0.0004276	2.0605956
311	0.0002015	0.0003984	0.0003984	0.0004462	2.1501774	2.2387769	0.0002096	0.0004145	0.0004145	0.0004643	2.237274
312	0.0002131	0.0004214	0.0004214	0.0004719	2.2741799	2.4165264	0.0002263	0.0004475	0.0004475	0.0005011	2.4149041
313	0.0002245	0.0004439	0.0004439	0.0004972	2.3958516	2.580298	0.0002416	0.0004778	0.0004778	0.0005351	2.5785658
314	0.0002348	0.0004643	0.0004643	0.00052	2.5056925	2.7105113	0.0002538	0.0005019	0.0005019	0.0005621	2.7086916
315	0.0002421	0.0004788	0.0004788	0.0005363	2.5840797	2.7789071	0.0002602	0.0005146	0.0005146	0.0005763	2.7770415
316	0.0001724	0.000341	0.000341	0.0003819	1.8403491	1.7271747	0.0001617	0.0003198	0.0003198	0.0003582	1.7260151
317	0.0001842	0.0003644	0.0003644	0.0004081	1.9664941	1.9077446	0.0001786	0.0003532	0.0003532	0.0003956	1.9064639
318	0.0001973	0.0003902	0.0003902	0.000437	2.1056858	2.1142367	0.000198	0.0003915	0.0003915	0.0004385	2.1128173
319	0.0002116	0.0004184	0.0004184	0.0004686	2.2581426	2.346959	0.0002197	0.0004346	0.0004346	0.0004867	2.3453834
320	0.0002271	0.000449	0.000449	0.0005029	2.4234745	2.6012613	0.0002436	0.0004817	0.0004817	0.0005395	2.599515
321	0.0002436	0.0004818	0.0004818	0.0005396	2.6004196	2.0286064	0.0001899	0.0003756	0.0003756	0.0004207	2.0272445
322	0.0001683	0.0003329	0.0003329	0.0003728	1.7963955	1.2312521	0.0001153	0.000228	0.000228	0.0002553	1.2304255
323	0.0001727	0.0003416	0.0003416	0.0003826	1.8438282	1.2923643	0.000121	0.0002393	0.0002393	0.000268	1.2914967
324	0.0001771	0.0003503	0.0003503	0.0003923	1.8903162	1.3580538	0.0001272	0.0002515	0.0002515	0.0002816	1.3571421
325	0.0002176	0.0004304	0.0004304	0.0004821	2.3229426	2.3613868	0.0002211	0.0004372	0.0004372	0.0004897	2.3598015
326	0.0002365	0.0004677	0.0004677	0.0005238	2.5239435	1.871271	0.0001752	0.0003465	0.0003465	0.0003881	1.8700147
327	0.0002581	0.0005104	0.0005104	0.0005716	2.7546201	2.0883984	0.0001955	0.0003867	0.0003867	0.0004331	2.0869964
328	0.0001821	0.0003601	0.0003601	0.0004034	1.9436753	1.2731265	0.0001192	0.0002357	0.0002357	0.000264	1.2722718
329	0.0001875	0.0003709	0.0003709	0.0004154	2.0017885	1.3393062	0.0001254	0.000248	0.000248	0.0002777	1.3384071
330	0.0001926	0.0003809	0.0003809	0.0004266	2.0555645	1.411983	0.0001322	0.0002614	0.0002614	0.0002928	1.411035
331	0.000198	0.0003916	0.0003916	0.0004386	2.1132653	1.3185435	0.0001235	0.0002441	0.0002441	0.0002734	1.3176583
332	0.0002058	0.0004069	0.0004069	0.0004558	2.1963059	1.3891046	0.0001301	0.0002572	0.0002572	0.0002881	1.388172
333	0.0002121	0.0004194	0.0004194	0.0004697	2.2635816	1.4641978	0.0001371	0.0002711	0.0002711	0.0003037	1.4632149
334	0.0002173	0.0004298	0.0004298	0.0004814	2.3197043	1.5486321	0.000145	0.0002868	0.0002868	0.0003212	1.5475925
335	5.13E-05	0.0001015	0.0001015	0.0001136	0.5475612	0.3746888	3.508E-05	6.938E-05	6.938E-05	7.77E-05	0.3744373
336	5.289E-05	0.0001046	0.0001046	0.0001171	0.564485	0.3892376	3.644E-05	7.207E-05	7.207E-05	8.072E-05	0.3889763

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
337	5.452E-05	0.0001078	0.0001078	0.0001208	0.5818839	0.4044833	3.787E-05	7.49E-05	7.49E-05	8.388E-05	0.4042118
338	5.62E-05	0.0001111	0.0001111	0.0001245	0.5998709	0.4205369	3.937E-05	7.787E-05	7.787E-05	8.721E-05	0.4202545
339	5.24E-05	0.0001036	0.0001036	0.0001161	0.5592369	0.3771044	3.531E-05	6.983E-05	6.983E-05	7.821E-05	0.3768512
340	5.408E-05	0.0001069	0.0001069	0.0001198	0.5771753	0.3922655	3.673E-05	7.263E-05	7.263E-05	8.135E-05	0.3920021
341	5.581E-05	0.0001104	0.0001104	0.0001236	0.5956635	0.4082062	3.822E-05	7.558E-05	7.558E-05	8.466E-05	0.4079322
342	5.761E-05	0.0001139	0.0001139	0.0001276	0.6148586	0.4250728	3.98E-05	7.871E-05	7.871E-05	8.815E-05	0.4247875
343	5.349E-05	0.0001058	0.0001058	0.0001185	0.5709249	0.3788947	3.548E-05	7.016E-05	7.016E-05	7.858E-05	0.3786403
344	5.528E-05	0.0001093	0.0001093	0.0001224	0.589992	0.394687	3.695E-05	7.308E-05	7.308E-05	8.185E-05	0.394422
345	5.71E-05	0.0001129	0.0001129	0.0001265	0.6094829	0.4112091	3.85E-05	7.614E-05	7.614E-05	8.528E-05	0.410933
346	5.913E-05	0.0001169	0.0001169	0.000131	0.6311461	0.4296791	4.023E-05	7.956E-05	7.956E-05	8.911E-05	0.4293907
347	5.457E-05	0.0001079	0.0001079	0.0001209	0.582398	0.3798907	3.557E-05	7.034E-05	7.034E-05	7.878E-05	0.3796357
348	5.66E-05	0.0001119	0.0001119	0.0001254	0.6040781	0.3971893	3.719E-05	7.355E-05	7.355E-05	8.237E-05	0.3969226
349	5.859E-05	0.0001159	0.0001159	0.0001298	0.6253314	0.414738	3.883E-05	7.679E-05	7.679E-05	8.601E-05	0.4144596
350	6.065E-05	0.0001199	0.0001199	0.0001343	0.6473261	0.4333201	4.057E-05	8.024E-05	8.024E-05	8.986E-05	0.4330292
351	5.575E-05	0.0001103	0.0001103	0.0001235	0.5950597	0.3809299	3.567E-05	7.053E-05	7.053E-05	7.9E-05	0.3806742
352	5.788E-05	0.0001145	0.0001145	0.0001282	0.6177667	0.3986454	3.732E-05	7.381E-05	7.381E-05	8.267E-05	0.3983778
353	5.996E-05	0.0001186	0.0001186	0.0001328	0.6399972	0.4166263	3.901E-05	7.714E-05	7.714E-05	8.64E-05	0.4163466
354	6.212E-05	0.0001228	0.0001228	0.0001376	0.6629813	0.4356779	4.079E-05	8.067E-05	8.067E-05	9.035E-05	0.4353854
355	5.699E-05	0.0001127	0.0001127	0.0001262	0.6083107	0.3815756	3.573E-05	7.065E-05	7.065E-05	7.913E-05	0.3813194
356	5.91E-05	0.0001169	0.0001169	0.0001309	0.6308066	0.398895	3.735E-05	7.386E-05	7.386E-05	8.272E-05	0.3986272
357	6.132E-05	0.0001213	0.0001213	0.0001358	0.6544985	0.4175205	3.909E-05	7.731E-05	7.731E-05	8.659E-05	0.4172402
358	6.359E-05	0.0001257	0.0001257	0.0001408	0.6786697	0.4370855	4.092E-05	8.093E-05	8.093E-05	9.064E-05	0.4367921
359	5.832E-05	0.0001153	0.0001153	0.0001292	0.6224488	0.3819442	3.576E-05	7.072E-05	7.072E-05	7.921E-05	0.3816877
360	6.05E-05	0.0001197	0.0001197	0.000134	0.645772	0.3994459	3.74E-05	7.396E-05	7.396E-05	8.284E-05	0.3991777
361	6.274E-05	0.0001241	0.0001241	0.000139	0.6696375	0.4178752	3.912E-05	7.738E-05	7.738E-05	8.666E-05	0.4175946
362	6.51E-05	0.0001288	0.0001288	0.0001442	0.6948727	0.4377954	4.099E-05	8.106E-05	8.106E-05	9.079E-05	0.4375015
363	5.971E-05	0.0001181	0.0001181	0.0001322	0.6372715	0.3818558	3.575E-05	7.071E-05	7.071E-05	7.919E-05	0.3815994
364	6.205E-05	0.0001227	0.0001227	0.0001374	0.6622555	0.3999357	3.745E-05	7.405E-05	7.405E-05	8.294E-05	0.3996672
365	6.443E-05	0.0001274	0.0001274	0.0001427	0.687721	0.4189474	3.923E-05	7.757E-05	7.757E-05	8.688E-05	0.4186662
366	6.691E-05	0.0001323	0.0001323	0.0001482	0.7142026	0.4392715	4.113E-05	8.134E-05	8.134E-05	9.11E-05	0.4389766
367	6.11E-05	0.0001208	0.0001208	0.0001353	0.6521931	0.3809431	3.567E-05	7.054E-05	7.054E-05	7.9E-05	0.3806874
368	6.351E-05	0.0001256	0.0001256	0.0001407	0.6779093	0.398976	3.736E-05	7.388E-05	7.388E-05	8.274E-05	0.3987081
369	6.601E-05	0.0001305	0.0001305	0.0001462	0.704568	0.4182112	3.916E-05	7.744E-05	7.744E-05	8.673E-05	0.4179304
370	6.863E-05	0.0001357	0.0001357	0.000152	0.7324812	0.4389151	4.109E-05	8.127E-05	8.127E-05	9.102E-05	0.4386205
371	6.257E-05	0.0001237	0.0001237	0.0001386	0.6678413	0.3795106	3.553E-05	7.027E-05	7.027E-05	7.87E-05	0.3792559
372	6.512E-05	0.0001288	0.0001288	0.0001442	0.6950505	0.3978096	3.725E-05	7.366E-05	7.366E-05	8.25E-05	0.3975425
373	6.779E-05	0.0001341	0.0001341	0.0001501	0.7235085	0.417494	3.909E-05	7.73E-05	7.73E-05	8.658E-05	0.4172137
374	7.052E-05	0.0001395	0.0001395	0.0001562	0.7526678	0.4383715	4.104E-05	8.117E-05	8.117E-05	9.091E-05	0.4380772
375	6.412E-05	0.0001268	0.0001268	0.000142	0.6843951	0.3775974	3.535E-05	6.992E-05	6.992E-05	7.831E-05	0.3773439
376	6.679E-05	0.0001321	0.0001321	0.0001479	0.7128711	0.3959254	3.707E-05	7.331E-05	7.331E-05	8.211E-05	0.3956596
377	6.955E-05	0.0001375	0.0001375	0.0001541	0.7423395	0.4155072	3.89E-05	7.694E-05	7.694E-05	8.617E-05	0.4152283
378	7.244E-05	0.0001433	0.0001433	0.0001605	0.7731965	0.4366573	4.088E-05	8.085E-05	8.085E-05	9.056E-05	0.4363642
379	6.575E-05	0.00013	0.00013	0.0001456	0.7018107	0.3751297	3.512E-05	6.946E-05	6.946E-05	7.78E-05	0.3748779
380	6.861E-05	0.0001357	0.0001357	0.000152	0.7323262	0.3937314	3.686E-05	7.29E-05	7.29E-05	8.165E-05	0.3934671
381	7.151E-05	0.0001414	0.0001414	0.0001584	0.7632862	0.413334	3.87E-05	7.653E-05	7.653E-05	8.572E-05	0.4130565
382	7.456E-05	0.0001475	0.0001475	0.0001652	0.7958352	0.4346089	4.069E-05	8.047E-05	8.047E-05	9.013E-05	0.4343172
383	6.746E-05	0.0001334	0.0001334	0.0001494	0.7199846	0.3720208	3.483E-05	6.888E-05	6.888E-05	7.715E-05	0.3717711
384	7.045E-05	0.0001393	0.0001393	0.000156	0.7519278	0.3904426	3.656E-05	7.23E-05	7.23E-05	8.097E-05	0.3901805

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
385	7.354E-05	0.0001454	0.0001454	0.0001629	0.7849134	0.4101488	3.84E-05	7.594E-05	7.594E-05	8.506E-05	0.4098734
386	7.677E-05	0.0001518	0.0001518	0.00017	0.8193796	0.4314753	4.04E-05	7.989E-05	7.989E-05	8.948E-05	0.4311856
387	6.925E-05	0.000137	0.000137	0.0001534	0.7391496	0.3683484	3.449E-05	6.82E-05	6.82E-05	7.639E-05	0.3681011
388	7.241E-05	0.0001432	0.0001432	0.0001604	0.7728745	0.3865889	3.62E-05	7.158E-05	7.158E-05	8.017E-05	0.3863293
389	7.568E-05	0.0001497	0.0001497	0.0001676	0.8077572	0.4061479	3.803E-05	7.52E-05	7.52E-05	8.423E-05	0.4058753
390	7.91E-05	0.0001564	0.0001564	0.0001752	0.8442913	0.4273906	4.002E-05	7.914E-05	7.914E-05	8.863E-05	0.4271037
391	7.117E-05	0.0001408	0.0001408	0.0001576	0.7596317	0.3642227	3.41E-05	6.744E-05	6.744E-05	7.553E-05	0.3639782
392	7.452E-05	0.0001474	0.0001474	0.0001651	0.795408	0.3822117	3.579E-05	7.077E-05	7.077E-05	7.926E-05	0.3819551
393	7.802E-05	0.0001543	0.0001543	0.0001728	0.8327205	0.4016446	3.761E-05	7.437E-05	7.437E-05	8.329E-05	0.401375
394	8.165E-05	0.0001615	0.0001615	0.0001809	0.8715303	0.4226722	3.957E-05	7.826E-05	7.826E-05	8.766E-05	0.4223885
395	7.319E-05	0.0001447	0.0001447	0.0001621	0.7811571	0.3595247	3.366E-05	6.657E-05	6.657E-05	7.456E-05	0.3592833
396	7.68E-05	0.0001519	0.0001519	0.0001701	0.8197236	0.3773346	3.533E-05	6.987E-05	6.987E-05	7.825E-05	0.3770813
397	8.056E-05	0.0001593	0.0001593	0.0001784	0.8597993	0.396529	3.713E-05	7.342E-05	7.342E-05	8.223E-05	0.3962628
398	8.447E-05	0.000167	0.000167	0.0001871	0.9015453	0.4173501	3.908E-05	7.728E-05	7.728E-05	8.655E-05	0.4170699
399	7.535E-05	0.000149	0.000149	0.0001669	0.8042407	0.3544586	3.319E-05	6.563E-05	6.563E-05	7.351E-05	0.3542206
400	7.929E-05	0.0001568	0.0001568	0.0001756	0.8462462	0.3720658	3.484E-05	6.889E-05	6.889E-05	7.716E-05	0.371816
401	8.334E-05	0.0001648	0.0001648	0.0001846	0.8895367	0.3909169	3.66E-05	7.238E-05	7.238E-05	8.107E-05	0.3906545
402	8.76E-05	0.0001732	0.0001732	0.000194	0.934982	0.4115011	3.853E-05	7.62E-05	7.62E-05	8.534E-05	0.4112249
403	7.769E-05	0.0001536	0.0001536	0.0001721	0.8292483	0.3491553	3.269E-05	6.465E-05	6.465E-05	7.241E-05	0.3489209
404	8.201E-05	0.0001622	0.0001622	0.0001817	0.8753737	0.3664933	3.431E-05	6.786E-05	6.786E-05	7.6E-05	0.3662472
405	8.645E-05	0.000171	0.000171	0.0001915	0.9226882	0.3849634	3.604E-05	7.128E-05	7.128E-05	7.984E-05	0.384705
406	9.112E-05	0.0001802	0.0001802	0.0002018	0.9725775	0.4051958	3.794E-05	7.503E-05	7.503E-05	8.403E-05	0.4049238
407	8.022E-05	0.0001586	0.0001586	0.0001777	0.856172	0.3436387	3.217E-05	6.363E-05	6.363E-05	7.126E-05	0.343408
408	8.5E-05	0.0001681	0.0001681	0.0001883	0.9072095	0.3606237	3.376E-05	6.677E-05	6.677E-05	7.479E-05	0.3603816
409	8.991E-05	0.0001778	0.0001778	0.0001992	0.9596669	0.3786909	3.546E-05	7.012E-05	7.012E-05	7.853E-05	0.3784367
410	9.513E-05	0.0001881	0.0001881	0.0002107	1.0153534	0.3985513	3.732E-05	7.38E-05	7.38E-05	8.265E-05	0.3982837
411	8.291E-05	0.000164	0.000164	0.0001836	0.8849308	0.3379596	3.164E-05	6.258E-05	6.258E-05	7.009E-05	0.3377327
412	8.825E-05	0.0001745	0.0001745	0.0001955	0.941881	0.3545141	3.319E-05	6.564E-05	6.564E-05	7.352E-05	0.3542761
413	9.379E-05	0.0001855	0.0001855	0.0002077	1.0010255	0.3721728	3.485E-05	6.891E-05	6.891E-05	7.718E-05	0.3719229
414	9.97E-05	0.0001972	0.0001972	0.0002208	1.0641094	0.3915817	3.666E-05	7.251E-05	7.251E-05	8.121E-05	0.3913188
415	8.575E-05	0.0001696	0.0001696	0.0001899	0.9151954	0.3321636	3.11E-05	6.15E-05	6.15E-05	6.889E-05	0.3319406
416	9.178E-05	0.0001815	0.0001815	0.0002033	0.9796177	0.3482875	3.261E-05	6.449E-05	6.449E-05	7.223E-05	0.3480537
417	9.811E-05	0.000194	0.000194	0.0002173	1.0471164	0.3654599	3.422E-05	6.767E-05	6.767E-05	7.579E-05	0.3652145
418	0.0001049	0.0002074	0.0002074	0.0002323	1.1192043	0.3842265	3.597E-05	7.114E-05	7.114E-05	7.968E-05	0.3839685
419	8.866E-05	0.0001753	0.0001753	0.0001964	0.9463096	0.326307	3.055E-05	6.042E-05	6.042E-05	6.767E-05	0.3260879
420	9.556E-05	0.000189	0.000189	0.0002117	1.0199759	0.3419827	3.202E-05	6.332E-05	6.332E-05	7.092E-05	0.3417531
421	0.0001028	0.0002034	0.0002034	0.0002278	1.097547	0.3585317	3.357E-05	6.639E-05	6.639E-05	7.435E-05	0.358291
422	0.0001107	0.000219	0.000219	0.0002453	1.1818114	0.3766604	3.527E-05	6.974E-05	6.974E-05	7.811E-05	0.3764075
423	9.154E-05	0.000181	0.000181	0.0002028	0.9770062	0.320426	3E-05	5.933E-05	5.933E-05	6.645E-05	0.3202109
424	9.944E-05	0.0001967	0.0001967	0.0002202	1.0613276	0.3355585	3.142E-05	6.213E-05	6.213E-05	6.959E-05	0.3353333
425	0.0001079	0.0002135	0.0002135	0.0002391	1.1521302	0.3515395	3.291E-05	6.509E-05	6.509E-05	7.29E-05	0.3513035
426	0.0001174	0.0002322	0.0002322	0.00026	1.2530201	0.3690613	3.455E-05	6.834E-05	6.834E-05	7.654E-05	0.3688135
427	9.418E-05	0.0001863	0.0001863	0.0002086	1.0052118	0.3145411	2.945E-05	5.824E-05	5.824E-05	6.523E-05	0.3143299
428	0.0001032	0.0002041	0.0002041	0.0002286	1.1017591	0.3291098	3.081E-05	6.094E-05	6.094E-05	6.825E-05	0.3288889
429	0.0001133	0.000224	0.000224	0.0002509	1.2088406	0.3445087	3.226E-05	6.379E-05	6.379E-05	7.145E-05	0.3442775
430	0.0001248	0.0002467	0.0002467	0.0002763	1.3315819	0.3614019	3.384E-05	6.692E-05	6.692E-05	7.495E-05	0.3611593
431	9.632E-05	0.0001905	0.0001905	0.0002133	1.0280516	0.3086675	2.89E-05	5.715E-05	5.715E-05	6.401E-05	0.3084603
432	0.0001066	0.0002108	0.0002108	0.0002361	1.1378307	0.3226797	3.021E-05	5.975E-05	5.975E-05	6.692E-05	0.322463

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
433	0.0001184	0.0002342	0.0002342	0.0002623	1.2638579	0.3374903	3.16E-05	6.249E-05	6.249E-05	6.999E-05	0.3372637
434	0.0001325	0.000262	0.000262	0.0002935	1.4141196	0.3537329	3.312E-05	6.55E-05	6.55E-05	7.336E-05	0.3534954
435	9.772E-05	0.0001933	0.0001933	0.0002165	1.043046	0.3029146	2.836E-05	5.609E-05	5.609E-05	6.282E-05	0.3027112
436	0.0001092	0.0002159	0.0002159	0.0002419	1.1654641	0.316362	2.962E-05	5.858E-05	5.858E-05	6.561E-05	0.3161497
437	0.0001228	0.0002429	0.0002429	0.0002721	1.3111891	0.3305563	3.095E-05	6.121E-05	6.121E-05	6.855E-05	0.3303344
438	0.00014	0.0002768	0.0002768	0.00031	1.4939217	0.3461704	3.241E-05	6.41E-05	6.41E-05	7.179E-05	0.345938
439	9.802E-05	0.0001939	0.0001939	0.0002171	1.0462253	0.2971793	2.782E-05	5.503E-05	5.503E-05	6.163E-05	0.2969798
440	0.0001104	0.0002184	0.0002184	0.0002446	1.178744	0.3100975	2.903E-05	5.742E-05	5.742E-05	6.431E-05	0.3098893
441	0.0001257	0.0002486	0.0002486	0.0002784	1.3415448	0.3236722	3.03E-05	5.993E-05	5.993E-05	6.712E-05	0.3234549
442	0.0001458	0.0002884	0.0002884	0.000323	1.5563438	0.3386384	3.171E-05	6.27E-05	6.27E-05	7.023E-05	0.3384111
443	9.7E-05	0.0001918	0.0001918	0.0002148	1.0353021	0.2914154	2.728E-05	5.396E-05	5.396E-05	6.043E-05	0.2912197
444	0.0001098	0.0002172	0.0002172	0.0002433	1.1723514	0.3037917	2.844E-05	5.625E-05	5.625E-05	6.3E-05	0.3035878
445	0.0001261	0.0002494	0.0002494	0.0002793	1.3457526	0.3168115	2.966E-05	5.866E-05	5.866E-05	6.57E-05	0.3165988
446	0.0001482	0.0002931	0.0002931	0.0003283	1.582015	0.3310533	3.1E-05	6.13E-05	6.13E-05	6.865E-05	0.330831
447	9.478E-05	0.0001874	0.0001874	0.0002099	1.0116664	0.2856971	2.675E-05	5.29E-05	5.29E-05	5.925E-05	0.2855053
448	0.0001074	0.0002123	0.0002123	0.0002378	1.1458	0.2974654	2.785E-05	5.508E-05	5.508E-05	6.169E-05	0.2972657
449	0.0001237	0.0002447	0.0002447	0.000274	1.320452	0.3100151	2.903E-05	5.74E-05	5.74E-05	6.429E-05	0.309807
450	0.0001462	0.0002891	0.0002891	0.0003238	1.560122	0.3235368	3.029E-05	5.991E-05	5.991E-05	6.71E-05	0.3233196
451	3.401E-05	6.726E-05	6.726E-05	7.533E-05	0.3629832	0.3064459	2.869E-05	5.674E-05	5.674E-05	6.355E-05	0.3062402
452	3.473E-05	6.869E-05	6.869E-05	7.693E-05	0.3707244	0.3158773	2.957E-05	5.849E-05	5.849E-05	6.551E-05	0.3156653
453	3.523E-05	6.967E-05	6.967E-05	7.803E-05	0.3759939	0.3229982	3.024E-05	5.981E-05	5.981E-05	6.698E-05	0.3227814
454	3.547E-05	7.014E-05	7.014E-05	7.856E-05	0.3785636	0.3276758	3.068E-05	6.067E-05	6.067E-05	6.795E-05	0.3274558
455	3.97E-05	7.851E-05	7.851E-05	8.793E-05	0.4237336	0.3595509	3.366E-05	6.658E-05	6.658E-05	7.456E-05	0.3593095
456	4.069E-05	8.046E-05	8.046E-05	9.012E-05	0.4342525	0.3723174	3.486E-05	6.894E-05	6.894E-05	7.721E-05	0.3720674
457	4.133E-05	8.174E-05	8.174E-05	9.155E-05	0.4411569	0.3816126	3.573E-05	7.066E-05	7.066E-05	7.914E-05	0.3813565
458	4.155E-05	8.218E-05	8.218E-05	9.204E-05	0.4434986	0.3866896	3.62E-05	7.16E-05	7.16E-05	8.019E-05	0.38643
459	4.714E-05	9.323E-05	9.323E-05	0.0001044	0.5031783	0.4298173	4.024E-05	7.959E-05	7.959E-05	8.914E-05	0.4295288
460	4.853E-05	9.598E-05	9.598E-05	0.0001075	0.518	0.4477945	4.193E-05	8.292E-05	8.292E-05	9.287E-05	0.4474939
461	4.937E-05	9.763E-05	9.763E-05	0.0001093	0.5269063	0.4599396	4.306E-05	8.516E-05	8.516E-05	9.538E-05	0.4596308
462	2.503E-05	4.95E-05	4.95E-05	5.544E-05	0.2671698	0.1570192	1.47E-05	2.907E-05	2.907E-05	3.256E-05	0.1569138
463	2.878E-05	5.692E-05	5.692E-05	6.375E-05	0.307181	0.1788205	1.674E-05	3.311E-05	3.311E-05	3.708E-05	0.1787005
464	2.507E-05	4.958E-05	4.958E-05	5.553E-05	0.2675831	0.151227	1.416E-05	2.8E-05	2.8E-05	3.136E-05	0.1511255
465	2.917E-05	5.769E-05	5.769E-05	6.461E-05	0.311359	0.1717203	1.608E-05	3.18E-05	3.18E-05	3.561E-05	0.171605
466	3.435E-05	6.793E-05	6.793E-05	7.608E-05	0.3665988	0.1976718	1.851E-05	3.66E-05	3.66E-05	4.099E-05	0.1975391
467	4.098E-05	8.104E-05	8.104E-05	9.077E-05	0.4373954	0.2316491	2.169E-05	4.289E-05	4.289E-05	4.804E-05	0.2314935
468	2.464E-05	4.874E-05	4.874E-05	5.459E-05	0.2630317	0.1450752	1.358E-05	2.686E-05	2.686E-05	3.009E-05	0.1449778
469	2.898E-05	5.732E-05	5.732E-05	6.42E-05	0.3093493	0.1641139	1.537E-05	3.039E-05	3.039E-05	3.403E-05	0.1640037
470	3.47E-05	6.863E-05	6.863E-05	7.687E-05	0.3704047	0.1880709	1.761E-05	3.482E-05	3.482E-05	3.9E-05	0.1879446
471	4.258E-05	8.42E-05	8.42E-05	9.43E-05	0.4544254	0.2197634	2.058E-05	4.069E-05	4.069E-05	4.558E-05	0.2196159
472	2.815E-05	5.567E-05	5.567E-05	6.235E-05	0.3004658	0.1567566	1.468E-05	2.903E-05	2.903E-05	3.251E-05	0.1566514
473	3.411E-05	6.745E-05	6.745E-05	7.554E-05	0.3640238	0.1788534	1.675E-05	3.312E-05	3.312E-05	3.709E-05	0.1787333
474	4.257E-05	8.419E-05	8.419E-05	9.43E-05	0.4543855	0.2069174	1.937E-05	3.831E-05	3.831E-05	4.291E-05	0.2067785
475	2.665E-05	5.27E-05	5.27E-05	5.902E-05	0.2843953	0.1490894	1.396E-05	2.761E-05	2.761E-05	3.092E-05	0.1489893
476	3.225E-05	6.377E-05	6.377E-05	7.143E-05	0.3441886	0.1692471	1.585E-05	3.134E-05	3.134E-05	3.51E-05	0.1691335
477	4.049E-05	8.007E-05	8.007E-05	8.968E-05	0.4321265	0.1946955	1.823E-05	3.605E-05	3.605E-05	4.038E-05	0.1945648

Unmitigated Residential Health Risk Assessment
4. Non-Cancer Risk Summary

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Non-Cancer Risk Summary

418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
1	482241	3630879	0.0010441	0.0009289	0.0007437	0.0005102	0.0004312	0.0001794	0.0005458	6.638E-05	0.000432
2	482291	3630879	0.0011008	0.0009718	0.000778	0.0005337	0.0004511	0.0001877	0.0005795	6.945E-05	0.0004519
3	482341	3630879	0.0011543	0.0010092	0.000808	0.0005543	0.0004684	0.0001949	0.0006129	7.212E-05	0.0004693
4	482391	3630879	0.0012024	0.0010392	0.000832	0.0005708	0.0004824	0.0002008	0.0006449	7.426E-05	0.0004832
5	482441	3630879	0.0012522	0.0010682	0.0008552	0.0005867	0.0004958	0.0002064	0.0006791	7.633E-05	0.0004967
6	482491	3630879	0.001304	0.001097	0.0008783	0.0006026	0.0005092	0.000212	0.0007155	7.839E-05	0.0005101
7	482541	3630879	0.0013591	0.0011275	0.0009027	0.0006193	0.0005233	0.0002179	0.0007543	8.056E-05	0.0005242
8	482591	3630879	0.0014163	0.0011597	0.0009285	0.000637	0.0005383	0.0002241	0.0007942	8.287E-05	0.0005392
9	482641	3630879	0.0014862	0.0012038	0.0009638	0.0006613	0.0005587	0.0002326	0.0008405	8.602E-05	0.0005597
10	482691	3630879	0.0015525	0.0012472	0.0009986	0.0006851	0.0005788	0.000241	0.0008835	8.911E-05	0.0005799
11	482741	3630879	0.0016311	0.0013015	0.0010421	0.0007149	0.000604	0.0002515	0.000933	9.299E-05	0.0006051
12	482791	3630879	0.0016985	0.0013474	0.0010788	0.0007402	0.0006253	0.0002604	0.0009757	9.627E-05	0.0006265
13	482841	3630879	0.0017602	0.001388	0.0011113	0.0007625	0.0006442	0.0002683	0.0010157	9.917E-05	0.0006453
14	482891	3630879	0.0018048	0.0014155	0.0011333	0.0007776	0.0006569	0.0002736	0.0010456	0.0001011	0.0006581
15	483191	3630879	0.0018011	0.0014044	0.0011244	0.0007715	0.0006517	0.0002714	0.0010478	0.0001003	0.0006529
16	483241	3630879	0.0017617	0.0013705	0.0010973	0.0007529	0.000636	0.0002649	0.0010266	9.792E-05	0.0006372
17	482241	3630929	0.0011428	0.0010382	0.0008312	0.0005702	0.0004819	0.0002005	0.0005858	7.42E-05	0.0004828
18	482291	3630929	0.0012173	0.0010998	0.0008805	0.000604	0.0005106	0.0002124	0.0006272	7.86E-05	0.0005115
19	482341	3630929	0.0012916	0.0011583	0.0009273	0.0006362	0.0005377	0.0002237	0.0006702	8.278E-05	0.0005387
20	482391	3630929	0.0013644	0.0012119	0.0009702	0.0006656	0.0005625	0.0002341	0.0007142	8.661E-05	0.0005636
21	482441	3630929	0.0014313	0.0012564	0.0010059	0.0006901	0.0005832	0.0002427	0.0007573	8.979E-05	0.0005843
22	482491	3630929	0.0015004	0.0012994	0.0010403	0.0007137	0.0006031	0.000251	0.0008033	9.286E-05	0.0006042
23	482841	3630929	0.0021115	0.0016979	0.0013594	0.0009326	0.000788	0.0003281	0.0012008	0.0001213	0.0007894
24	482891	3630929	0.0021762	0.0017368	0.0013906	0.0009541	0.0008061	0.0003357	0.0012446	0.0001241	0.0008075
25	483141	3630929	0.0021853	0.0017232	0.0013797	0.0009466	0.0007997	0.000333	0.0012611	0.0001231	0.0008011
26	483191	3630929	0.00214	0.0016802	0.0013453	0.000923	0.0007798	0.0003248	0.0012388	0.00012	0.0007812
27	483241	3630929	0.0020727	0.0016188	0.0012961	0.0008893	0.0007513	0.0003129	0.0012044	0.0001157	0.0007526
28	482241	3630979	0.0012358	0.0011457	0.0009172	0.0006292	0.0005318	0.0002212	0.0006211	8.188E-05	0.0005328
29	482341	3630979	0.0014461	0.0013308	0.0010654	0.0007308	0.0006178	0.000257	0.0007321	9.511E-05	0.0006189
30	482391	3630979	0.0015459	0.0014129	0.0011312	0.0007759	0.0006559	0.0002729	0.0007879	0.000101	0.0006571
31	482441	3630979	0.0016529	0.0014966	0.0011982	0.0008219	0.0006947	0.0002891	0.0008499	0.000107	0.000696
32	482491	3630979	0.0017652	0.0015795	0.0012646	0.0008675	0.0007332	0.0003051	0.0009178	0.0001129	0.0007345
33	482541	3630979	0.0018627	0.0016436	0.0013159	0.0009027	0.0007629	0.0003175	0.0009809	0.0001175	0.0007643
34	482591	3630979	0.001951	0.0016962	0.001358	0.0009316	0.0007873	0.0003277	0.001041	0.0001212	0.0007888
35	482641	3630979	0.0020746	0.0017786	0.001424	0.0009769	0.0008256	0.0003436	0.0011204	0.0001271	0.000827
36	482691	3630979	0.0021977	0.0018625	0.0014912	0.001023	0.0008645	0.0003598	0.0011986	0.0001331	0.0008661
37	482791	3630979	0.0024868	0.0020668	0.0016548	0.0011353	0.0009593	0.0003994	0.0013781	0.0001477	0.000961
38	482841	3630979	0.0025986	0.0021385	0.0017122	0.0011746	0.0009925	0.0004132	0.0014514	0.0001528	0.0009943
39	482891	3630979	0.0026888	0.0021912	0.0017544	0.0012036	0.001017	0.0004234	0.0015134	0.0001566	0.0010188
40	483141	3630979	0.0026594	0.0021146	0.0016931	0.0011616	0.0009814	0.0004087	0.0015252	0.0001511	0.0009831
41	483191	3630979	0.0025814	0.0020337	0.0016283	0.0011172	0.0009438	0.0003931	0.0014905	0.0001453	0.0009455
42	483241	3630979	0.0024657	0.0019261	0.0015422	0.0010581	0.0008939	0.0003723	0.0014325	0.0001376	0.0008955
43	482241	3631029	0.0013372	0.0012633	0.0010114	0.0006938	0.0005865	0.0002439	0.0006594	9.029E-05	0.0005875
44	482291	3631029	0.0014692	0.0013881	0.0011113	0.0007623	0.0006444	0.0002681	0.0007244	9.921E-05	0.0006456

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Non-Cancer Risk Summary

418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
45	482341	3631029	0.0016143	0.0015233	0.0012196	0.0008366	0.0007072	0.0002942	0.000797	0.0001089	0.0007085
46	482441	3631029	0.0019158	0.0017916	0.0014343	0.0009839	0.0008317	0.000346	0.0009545	0.000128	0.0008332
47	482491	3631029	0.0020726	0.0019215	0.0015383	0.0010552	0.000892	0.0003711	0.0010417	0.0001373	0.0008936
48	482541	3631029	0.0022144	0.0020289	0.0016244	0.0011143	0.0009419	0.0003918	0.0011259	0.000145	0.0009436
49	482591	3631029	0.002354	0.0021267	0.0017027	0.001168	0.0009872	0.0004108	0.001213	0.000152	0.000989
50	482641	3631029	0.0025333	0.0022552	0.0018056	0.0012386	0.0010469	0.0004356	0.0013234	0.0001612	0.0010488
51	482691	3631029	0.0027096	0.0023803	0.0019057	0.0013073	0.0011049	0.0004598	0.0014327	0.0001701	0.0011069
52	482791	3631029	0.0031285	0.0026831	0.0021481	0.0014737	0.0012454	0.0005183	0.0016892	0.0001917	0.0012476
53	482841	3631029	0.0032946	0.0027891	0.002233	0.0015319	0.0012945	0.0005389	0.0017985	0.0001993	0.0012969
54	482891	3631029	0.0034286	0.0028638	0.0022928	0.001573	0.0013292	0.0005533	0.0018924	0.0002046	0.0013316
55	482941	3631029	0.0035085	0.0028972	0.0023196	0.0015914	0.0013447	0.0005598	0.0019544	0.000207	0.0013471
56	482991	3631029	0.0035404	0.0028995	0.0023214	0.0015926	0.0013457	0.0005603	0.0019851	0.0002072	0.0013481
57	483141	3631029	0.003292	0.0026293	0.0021051	0.0014443	0.0012202	0.0005081	0.0018817	0.0001879	0.0012224
58	483191	3631029	0.0031341	0.002472	0.0019792	0.0013579	0.0011472	0.0004778	0.0018082	0.0001766	0.0011493
59	483241	3631029	0.0029567	0.0022981	0.00184	0.0012624	0.0010665	0.0004442	0.0017241	0.0001642	0.0010684
60	482241	3631079	0.0014218	0.001365	0.0010928	0.0007496	0.0006337	0.0002636	0.0006894	9.756E-05	0.0006348
61	482291	3631079	0.0015885	0.00153	0.0012249	0.0008402	0.0007103	0.0002954	0.0007675	0.0001094	0.0007116
62	482341	3631079	0.0017746	0.0017133	0.0013717	0.0009409	0.0007954	0.0003308	0.0008553	0.0001225	0.0007969
63	482391	3631079	0.0019863	0.0019196	0.0015368	0.0010542	0.0008912	0.0003706	0.0009563	0.0001372	0.0008928
64	482441	3631079	0.0022129	0.0021363	0.0017103	0.0011732	0.0009918	0.0004125	0.0010666	0.0001527	0.0009936
65	482591	3631079	0.0029051	0.0027426	0.0021957	0.0015061	0.0012732	0.0005296	0.0014335	0.000196	0.0012755
66	482641	3631079	0.0031776	0.0029594	0.0023693	0.0016252	0.0013738	0.0005715	0.0015898	0.0002115	0.0013763
67	482691	3631079	0.0034461	0.0031642	0.0025332	0.0017377	0.0014689	0.0006111	0.0017484	0.0002261	0.0014715
68	482791	3631079	0.0040922	0.0036493	0.0029217	0.0020043	0.001694	0.0007049	0.0021344	0.0002608	0.0016971
69	482841	3631079	0.0043626	0.0038209	0.0030591	0.0020986	0.0017736	0.0007381	0.0023127	0.0002731	0.0017768
70	482891	3631079	0.0045627	0.0039223	0.0031403	0.0021543	0.0018206	0.0007577	0.0024585	0.0002803	0.0018239
71	482941	3631079	0.0046703	0.0039425	0.0031565	0.0021655	0.0018299	0.0007617	0.0025553	0.0002817	0.0018332
72	482991	3631079	0.0046784	0.0038934	0.0031172	0.0021385	0.0018071	0.0007523	0.0025899	0.0002782	0.0018103
73	482241	3631129	0.0014831	0.001441	0.0011537	0.0007913	0.000669	0.0002782	0.0007099	0.000103	0.0006702
74	482291	3631129	0.0016774	0.0016402	0.0013131	0.0009007	0.0007615	0.0003167	0.0007973	0.0001172	0.0007628
75	482341	3631129	0.0019123	0.0018813	0.0015062	0.0010331	0.0008735	0.0003632	0.0009028	0.0001345	0.000875
76	482391	3631129	0.0021979	0.0021744	0.0017408	0.001194	0.0010095	0.0004198	0.0010311	0.0001554	0.0010113
77	482441	3631129	0.0025328	0.0025168	0.0020149	0.0013821	0.0011685	0.0004859	0.0011824	0.0001799	0.0011706
78	482491	3631129	0.002885	0.002873	0.0023	0.0015776	0.0013339	0.0005547	0.0013434	0.0002054	0.0013363
79	482541	3631129	0.0032812	0.0032651	0.0026139	0.0017929	0.0015159	0.0006304	0.0015292	0.0002334	0.0015186
80	482691	3631129	0.0045811	0.0044407	0.0035551	0.0024386	0.0020616	0.0008574	0.0021984	0.0003174	0.0020653
81	482791	3631129	0.0056552	0.0053028	0.0042454	0.0029122	0.0024618	0.001024	0.00281	0.000379	0.0024662
82	482841	3631129	0.0061058	0.0055853	0.0044716	0.0030674	0.0025928	0.0010787	0.0031091	0.0003992	0.0025975
83	482891	3631129	0.0064007	0.0056626	0.0045336	0.00311	0.0026285	0.0010938	0.0033628	0.0004047	0.0026333
84	482941	3631129	0.0065632	0.0056383	0.0045142	0.0030968	0.0026171	0.0010893	0.0035384	0.0004029	0.0026218
85	482991	3631129	0.006479	0.0054266	0.0043447	0.0029806	0.0025187	0.0010485	0.003568	0.0003878	0.0025232
86	482241	3631179	0.0014847	0.0014532	0.0011634	0.000798	0.0006747	0.0002806	0.000705	0.0001039	0.0006759
87	482291	3631179	0.0017315	0.0017101	0.0013691	0.0009391	0.000794	0.0003302	0.0008138	0.0001222	0.0007954
88	482341	3631179	0.0020292	0.0020234	0.0016199	0.0011111	0.0009394	0.0003906	0.0009434	0.0001446	0.0009411

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Non-Cancer Risk Summary

418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
89	482391	3631179	0.0024029	0.0024029	0.0019237	0.0013195	0.0011156	0.0004639	0.0010969	0.0001718	0.0011177
90	482441	3631179	0.0028694	0.0028694	0.0022971	0.0015756	0.0013322	0.0005539	0.0012825	0.0002051	0.0013346
91	482491	3631179	0.003448	0.003448	0.0027603	0.0018933	0.0016009	0.0006656	0.0015107	0.0002465	0.0016038
92	482541	3631179	0.0041388	0.0041388	0.0033133	0.0022726	0.0019216	0.0007989	0.0017837	0.0002958	0.0019251
93	482591	3631179	0.004919	0.004919	0.0039379	0.002701	0.0022839	0.0009495	0.0020991	0.0003516	0.0022881
94	482641	3631179	0.0057877	0.0057877	0.0046334	0.003178	0.0026873	0.0011172	0.0024689	0.0004137	0.0026921
95	482941	3631179	0.0099554	0.0085567	0.0068507	0.0046997	0.0039717	0.0016531	0.0053651	0.0006115	0.0039789
96	482991	3631179	0.009593	0.0078437	0.00628	0.0043085	0.0036404	0.0015157	0.0053856	0.0005605	0.003647
97	482241	3631229	0.0015149	0.0014883	0.0011915	0.0008173	0.000691	0.0002873	0.0007163	0.0001064	0.0006922
98	482291	3631229	0.0017568	0.0017441	0.0013963	0.0009577	0.0008097	0.0003367	0.0008209	0.0001247	0.0008112
99	482341	3631229	0.0020764	0.0020764	0.0016623	0.0011402	0.0009641	0.0004009	0.0009531	0.0001484	0.0009658
100	482491	3631229	0.0039621	0.0039621	0.0031719	0.0021756	0.0018397	0.0007648	0.001656	0.0002832	0.001843
101	482541	3631229	0.0050468	0.0050468	0.0040402	0.0027711	0.0023434	0.0009741	0.0020362	0.0003608	0.0023476
102	482591	3631229	0.0065369	0.0065369	0.0052331	0.0035893	0.0030353	0.0012616	0.0025458	0.0004673	0.0030408
103	482641	3631229	0.0086201	0.0086201	0.0069007	0.004733	0.0040027	0.0016636	0.0032477	0.0006162	0.0040099
104	482241	3631279	0.0014802	0.0014539	0.0011639	0.0007984	0.000675	0.0002807	0.0007001	0.0001039	0.0006762
105	482291	3631279	0.0017358	0.0017245	0.0013806	0.000947	0.0008006	0.0003329	0.0008105	0.0001233	0.0008021
106	482341	3631279	0.0020861	0.0020861	0.00167	0.0011455	0.0009685	0.0004027	0.0009534	0.0001491	0.0009703
107	482591	3631279	0.0081239	0.0081239	0.0065034	0.0044605	0.0037723	0.0015677	0.0029809	0.0005808	0.0037791
108	482641	3631279	0.0123868	0.0123868	0.009916	0.0068009	0.0057521	0.0023901	0.0042446	0.0008856	0.0057625
109	482241	3631329	0.0014179	0.0013881	0.0011112	0.0007622	0.0006444	0.000268	0.0006731	9.921E-05	0.0006456
110	482291	3631329	0.0016709	0.0016551	0.001325	0.0009089	0.0007684	0.0003195	0.0007828	0.0001183	0.0007698
111	482341	3631329	0.0020071	0.0020071	0.0016069	0.0011022	0.0009319	0.0003875	0.0009227	0.0001435	0.0009336
112	482591	3631329	0.0089812	0.0089812	0.0071897	0.0049311	0.0041705	0.0017331	0.0032421	0.0006421	0.004178
113	482641	3631329	0.0152183	0.0152183	0.0121826	0.0083553	0.007067	0.0029363	0.0050326	0.001088	0.0070798
114	482241	3631379	0.0013439	0.0013084	0.0010475	0.0007185	0.0006074	0.0002526	0.0006418	9.352E-05	0.0006085
115	482291	3631379	0.0015759	0.0015522	0.0012426	0.0008524	0.0007206	0.0002997	0.0007431	0.0001109	0.0007219
116	482341	3631379	0.0018865	0.0018826	0.0015071	0.0010338	0.000874	0.0003634	0.0008764	0.0001346	0.0008756
117	482391	3631379	0.0023357	0.0023357	0.0018699	0.0012826	0.0010844	0.0004509	0.0010528	0.000167	0.0010864
118	482591	3631379	0.0087167	0.0087167	0.006978	0.004786	0.0040476	0.0016821	0.0032129	0.0006232	0.0040549
119	482641	3631379	0.0154627	0.0154627	0.0123783	0.0084896	0.0071805	0.0029836	0.0052317	0.0011055	0.0071934
120	482241	3631429	0.0012613	0.0012198	0.0009765	0.0006698	0.0005663	0.0002355	0.0006068	8.718E-05	0.0005673
121	482291	3631429	0.0014727	0.0014401	0.0011529	0.0007908	0.0006686	0.000278	0.0006999	0.0001029	0.0006698
122	482341	3631429	0.0017537	0.0017367	0.0013903	0.0009537	0.0008063	0.0003353	0.0008218	0.0001241	0.0008077
123	482391	3631429	0.0021345	0.0021345	0.0017088	0.0011721	0.000991	0.0004121	0.0009794	0.0001526	0.0009928
124	482591	3631429	0.0075693	0.0075693	0.0060595	0.0041561	0.0035147	0.0014608	0.0028973	0.0005411	0.0035211
125	482641	3631429	0.0130636	0.0130636	0.0104578	0.0071726	0.0060662	0.0025209	0.0046949	0.0009339	0.0060771
126	482241	3631479	0.0011828	0.0011356	0.0009091	0.0006236	0.0005272	0.0002193	0.0005735	8.116E-05	0.0005281
127	482291	3631479	0.0013707	0.0013299	0.0010647	0.0007303	0.0006174	0.0002568	0.0006571	9.505E-05	0.0006185
128	482341	3631479	0.0016164	0.0015871	0.0012706	0.0008716	0.0007369	0.0003064	0.0007648	0.0001134	0.0007382
129	482391	3631479	0.001947	0.0019379	0.0015514	0.0010642	0.0008997	0.0003741	0.0009072	0.0001385	0.0009013
130	482441	3631479	0.0024243	0.0024243	0.0019408	0.0013312	0.0011256	0.000468	0.0010976	0.0001733	0.0011276
131	482491	3631479	0.003147	0.003147	0.0025193	0.001728	0.0014611	0.0006075	0.0013715	0.000225	0.0014638
132	482541	3631479	0.0042729	0.0042729	0.0034206	0.0023462	0.001984	0.0008247	0.001784	0.0003054	0.0019875

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Non-Cancer Risk Summary

418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
133	482591	3631479	0.0061859	0.0061859	0.0049521	0.0033966	0.0028723	0.0011939	0.0024669	0.0004422	0.0028775
134	482641	3631479	0.0097343	0.0097343	0.0077927	0.0053448	0.00452	0.0018786	0.0037139	0.0006959	0.0045282
135	482691	3631479	0.0174826	0.0174826	0.0139955	0.009599	0.008118	0.0033739	0.006525	0.0012498	0.0081327
136	482241	3631529	0.0011079	0.0010554	0.000845	0.0005796	0.00049	0.0002038	0.0005416	7.543E-05	0.0004909
137	482291	3631529	0.0012786	0.0012301	0.0009848	0.0006755	0.0005711	0.0002375	0.0006186	8.792E-05	0.0005721
138	482341	3631529	0.0014906	0.0014503	0.001161	0.0007964	0.0006733	0.00028	0.0007124	0.0001037	0.0006745
139	482391	3631529	0.001772	0.001746	0.0013978	0.0009588	0.0008106	0.0003371	0.0008351	0.0001248	0.0008121
140	482441	3631529	0.0021608	0.0021591	0.0017285	0.0011856	0.0010024	0.0004168	0.0010022	0.0001543	0.0010042
141	482491	3631529	0.0027456	0.0027456	0.002198	0.0015077	0.0012748	0.00053	0.001233	0.0001963	0.0012771
142	482541	3631529	0.0035953	0.0035953	0.0028783	0.0019742	0.0016693	0.000694	0.0015577	0.000257	0.0016723
143	482591	3631529	0.0049016	0.0049016	0.003924	0.0026915	0.0022759	0.0009461	0.0020505	0.0003504	0.00228
144	482641	3631529	0.0068684	0.0068684	0.0054985	0.0037713	0.0031892	0.0013257	0.0028061	0.000491	0.0031949
145	482691	3631529	0.0099922	0.0099922	0.0079992	0.0054866	0.0046396	0.0019286	0.0040567	0.0007143	0.004648
146	482241	3631579	0.0010374	0.0009801	0.0007847	0.0005383	0.000455	0.0001893	0.0005115	7.005E-05	0.0004558
147	482291	3631579	0.0011849	0.0011299	0.0009045	0.0006205	0.0005245	0.0002182	0.0005786	8.076E-05	0.0005255
148	482341	3631579	0.001372	0.0013219	0.0010583	0.0007259	0.0006137	0.0002552	0.0006627	9.448E-05	0.0006148
149	482391	3631579	0.0016188	0.0015776	0.001263	0.0008663	0.0007324	0.0003046	0.0007723	0.0001128	0.0007337
150	482441	3631579	0.0019333	0.0019077	0.0015273	0.0010476	0.0008857	0.0003683	0.0009097	0.0001364	0.0008873
151	482491	3631579	0.0023599	0.0023589	0.0018885	0.0012953	0.0010952	0.0004554	0.0010941	0.0001686	0.0010972
152	482541	3631579	0.0029237	0.0029237	0.0023406	0.0016055	0.0013575	0.0005644	0.0013295	0.000209	0.0013599
153	482591	3631579	0.0037799	0.0037799	0.0030261	0.0020756	0.001755	0.0007297	0.0016726	0.0002702	0.0017582
154	482641	3631579	0.004767	0.004767	0.0038162	0.0026176	0.0022133	0.0009202	0.0020918	0.0003407	0.0022173
155	482691	3631579	0.0061559	0.0061559	0.0049282	0.0033803	0.0028582	0.0011883	0.0027142	0.00044	0.0028634
156	482241	3631629	0.0009711	0.0009098	0.0007284	0.0004996	0.0004223	0.0001757	0.0004829	6.502E-05	0.0004231
157	482291	3631629	0.0011043	0.0010435	0.0008354	0.000573	0.0004844	0.0002015	0.0005445	7.458E-05	0.0004853
158	482341	3631629	0.0012638	0.0012055	0.0009651	0.000662	0.0005596	0.0002328	0.0006169	8.616E-05	0.0005606
159	482391	3631629	0.0014672	0.0014137	0.0011318	0.0007763	0.0006563	0.000273	0.0007087	0.000101	0.0006575
160	482441	3631629	0.0017257	0.0016801	0.0013451	0.0009226	0.00078	0.0003244	0.0008242	0.0001201	0.0007814
161	482491	3631629	0.0020534	0.0020198	0.001617	0.0011092	0.0009377	0.00039	0.0009696	0.0001444	0.0009394
162	482541	3631629	0.0024489	0.0024263	0.0019424	0.0013324	0.0011265	0.0004684	0.001147	0.0001734	0.0011285
163	482591	3631629	0.002937	0.0029234	0.0023404	0.0016053	0.0013573	0.0005644	0.0013683	0.000209	0.0013597
164	482641	3631629	0.0034915	0.0034822	0.0027877	0.0019122	0.0016167	0.0006723	0.001623	0.0002489	0.0016196
165	482691	3631629	0.0042833	0.00426	0.0034104	0.0023393	0.0019778	0.0008224	0.0019974	0.0003045	0.0019814
166	482241	3631679	0.000909	0.0008447	0.0006763	0.0004639	0.0003921	0.0001631	0.0004558	6.037E-05	0.0003929
167	482291	3631679	0.0010218	0.0009569	0.0007661	0.0005255	0.0004442	0.0001848	0.0005083	6.839E-05	0.000445
168	482341	3631679	0.0011597	0.0010951	0.0008767	0.0006014	0.0005084	0.0002115	0.0005721	7.827E-05	0.0005093
169	482391	3631679	0.0013275	0.0012641	0.001012	0.0006942	0.0005868	0.0002441	0.0006492	9.035E-05	0.0005879
170	482441	3631679	0.0015322	0.0014711	0.0011777	0.0008078	0.0006829	0.000284	0.0007428	0.0001051	0.0006842
171	482491	3631679	0.0017786	0.0017203	0.0013773	0.0009447	0.0007987	0.0003322	0.0008555	0.000123	0.0008001
172	482541	3631679	0.0020457	0.0019835	0.001588	0.0010893	0.0009209	0.000383	0.0009813	0.0001418	0.0009225
173	482591	3631679	0.0023678	0.0023029	0.0018436	0.0012646	0.0010691	0.0004446	0.0011322	0.0001646	0.0010711
174	482641	3631679	0.0027369	0.0026591	0.0021288	0.0014602	0.0012345	0.0005134	0.0013101	0.0001901	0.0012367
175	482691	3631679	0.0031952	0.0030946	0.0024775	0.0016994	0.0014367	0.0005975	0.0015347	0.0002212	0.0014393
176	482241	3631729	0.0008486	0.0007824	0.0006264	0.0004297	0.0003632	0.0001511	0.0004289	5.592E-05	0.0003639

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Non-Cancer Risk Summary

418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
177	482291	3631729	0.0009464	0.0008784	0.0007033	0.0004824	0.0004078	0.0001696	0.0004751	6.278E-05	0.0004085
178	482341	3631729	0.0010613	0.0009918	0.000794	0.0005447	0.0004604	0.0001915	0.0005292	7.089E-05	0.0004613
179	482391	3631729	0.0011979	0.0011269	0.0009022	0.0006189	0.0005231	0.0002176	0.0005933	8.054E-05	0.0005241
180	482441	3631729	0.001359	0.0012862	0.0010297	0.0007063	0.0005971	0.0002484	0.0006688	9.193E-05	0.0005982
181	482491	3631729	0.0015447	0.0014696	0.0011765	0.000807	0.0006822	0.0002838	0.0007562	0.000105	0.0006835
182	482541	3631729	0.0017396	0.0016555	0.0013253	0.0009091	0.0007685	0.0003197	0.0008514	0.0001183	0.0007699
183	482591	3631729	0.0019582	0.0018611	0.0014899	0.001022	0.000864	0.0003594	0.0009596	0.000133	0.0008655
184	482641	3631729	0.0021982	0.0020819	0.0016667	0.0011433	0.0009665	0.000402	0.0010812	0.0001488	0.0009682
185	482691	3631729	0.0024849	0.0023505	0.0018818	0.0012908	0.0010912	0.0004539	0.0012237	0.000168	0.0010932
186	483141	3631729	0.0022689	0.0019118	0.0015306	0.0010501	0.0008874	0.0003694	0.0012433	0.0001366	0.000889
187	483191	3631729	0.0020883	0.0017062	0.0013661	0.0009372	0.0007919	0.0003297	0.0011731	0.0001219	0.0007933
188	483241	3631729	0.0019236	0.001516	0.0012138	0.0008328	0.0007036	0.000293	0.0011105	0.0001083	0.0007048
189	482241	3631779	0.0007907	0.0007231	0.0005789	0.0003971	0.0003357	0.0001397	0.0004027	5.168E-05	0.0003363
190	482291	3631779	0.0008738	0.0008035	0.0006433	0.0004413	0.000373	0.0001552	0.0004427	5.743E-05	0.0003737
191	482341	3631779	0.0009694	0.0008962	0.0007175	0.0004922	0.000416	0.0001731	0.0004886	6.405E-05	0.0004168
192	482391	3631779	0.0010797	0.0010031	0.000803	0.0005509	0.0004656	0.0001937	0.0005415	7.169E-05	0.0004665
193	482441	3631779	0.0012056	0.0011248	0.0009005	0.0006177	0.0005222	0.0002172	0.0006022	8.039E-05	0.0005231
194	482491	3631779	0.0013377	0.0012488	0.0009998	0.0006858	0.0005797	0.0002412	0.0006676	8.925E-05	0.0005808
195	482541	3631779	0.0014859	0.0013871	0.0011105	0.0007618	0.0006439	0.0002679	0.0007417	9.914E-05	0.0006451
196	482591	3631779	0.0016401	0.0015267	0.0012223	0.0008384	0.0007087	0.0002948	0.000821	0.0001091	0.00071
197	482691	3631779	0.0019893	0.0018406	0.0014735	0.0010108	0.0008544	0.0003555	0.0010017	0.0001315	0.000856
198	482991	3631779	0.0022331	0.0019736	0.0015801	0.0010839	0.0009161	0.0003812	0.0011743	0.000141	0.0009178
199	483041	3631779	0.0021413	0.0018681	0.0014956	0.001026	0.0008671	0.0003609	0.0011391	0.0001335	0.0008687
200	483091	3631779	0.0020321	0.0017425	0.0013951	0.000957	0.0008088	0.0003366	0.0010973	0.0001245	0.0008102
201	483141	3631779	0.0019122	0.0016053	0.0012853	0.0008818	0.0007451	0.0003102	0.001051	0.0001147	0.0007464
202	483191	3631779	0.0017898	0.0014657	0.0011735	0.0008051	0.0006803	0.0002832	0.0010036	0.0001047	0.0006815
203	483241	3631779	0.0016711	0.0013299	0.0010648	0.0007305	0.0006172	0.000257	0.0009578	9.502E-05	0.0006183
204	482241	3631829	0.0007362	0.0006677	0.0005346	0.0003667	0.00031	0.000129	0.0003779	4.772E-05	0.0003105
205	482291	3631829	0.0008056	0.0007338	0.0005875	0.000403	0.0003406	0.0001417	0.0004119	5.244E-05	0.0003412
206	482341	3631829	0.000885	0.0008092	0.0006479	0.0004444	0.0003757	0.0001563	0.0004508	5.783E-05	0.0003763
207	482391	3631829	0.0009755	0.000895	0.0007165	0.0004915	0.0004155	0.0001729	0.0004954	6.396E-05	0.0004162
208	482441	3631829	0.0010728	0.0009862	0.0007895	0.0005416	0.0004578	0.0001905	0.0005436	7.048E-05	0.0004586
209	482491	3631829	0.0011753	0.0010801	0.0008647	0.0005932	0.0005014	0.0002086	0.0005958	7.72E-05	0.0005023
210	482541	3631829	0.0012856	0.0011794	0.0009442	0.0006477	0.0005475	0.0002278	0.0006528	8.429E-05	0.0005485
211	482641	3631829	0.0015157	0.0013835	0.0011076	0.0007598	0.0006422	0.0002672	0.0007734	9.888E-05	0.0006434
212	482691	3631829	0.0016149	0.0014663	0.0011739	0.0008053	0.0006806	0.0002832	0.0008282	0.0001048	0.0006819
213	482891	3631829	0.0018357	0.0016271	0.0013027	0.0008937	0.0007553	0.0003143	0.0009628	0.0001163	0.0007567
214	482941	3631829	0.0018346	0.0016142	0.0012923	0.0008866	0.0007493	0.0003118	0.0009686	0.0001154	0.0007506
215	482991	3631829	0.0018218	0.0015856	0.0012695	0.0008709	0.000736	0.0003063	0.0009712	0.0001133	0.0007373
216	483041	3631829	0.0017714	0.0015243	0.0012204	0.0008372	0.0007075	0.0002945	0.0009536	0.0001089	0.0007088
217	483091	3631829	0.0017031	0.0014451	0.001157	0.0007937	0.0006707	0.0002792	0.0009279	0.0001033	0.0006719
218	483141	3631829	0.0016246	0.0013549	0.0010848	0.0007442	0.0006289	0.0002618	0.0008977	9.682E-05	0.00063
219	483191	3631829	0.0015408	0.0012595	0.0010084	0.0006918	0.0005845	0.0002434	0.0008652	8.999E-05	0.0005856
220	483241	3631829	0.0014373	0.0011546	0.0009244	0.0006342	0.0005358	0.0002231	0.000818	8.25E-05	0.0005368

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418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
221	482241	3631879	0.0006836	0.0006148	0.0004922	0.0003377	0.0002854	0.0001188	0.0003537	4.394E-05	0.0002859
222	482291	3631879	0.0007434	0.0006706	0.0005368	0.0003683	0.0003113	0.0001295	0.0003836	4.792E-05	0.0003118
223	482341	3631879	0.0008103	0.0007329	0.0005867	0.0004025	0.0003402	0.0001415	0.0004171	5.238E-05	0.0003408
224	482391	3631879	0.0008818	0.0007991	0.0006397	0.0004388	0.0003709	0.0001543	0.0004531	5.711E-05	0.0003716
225	482441	3631879	0.0009581	0.0008684	0.0006952	0.0004769	0.0004031	0.0001677	0.0004922	6.206E-05	0.0004038
226	482541	3631879	0.0011264	0.0010182	0.0008152	0.0005592	0.0004727	0.0001967	0.0005801	7.277E-05	0.0004735
227	482591	3631879	0.0012109	0.0010899	0.0008726	0.0005986	0.000506	0.0002105	0.0006262	7.789E-05	0.0005069
228	482641	3631879	0.0012777	0.0011455	0.0009171	0.0006291	0.0005317	0.0002212	0.0006632	8.186E-05	0.0005327
229	482691	3631879	0.0013551	0.001208	0.0009672	0.0006635	0.0005608	0.0002333	0.000707	8.633E-05	0.0005618
230	482891	3631879	0.0015034	0.0013125	0.0010508	0.0007209	0.0006092	0.0002535	0.0007992	9.379E-05	0.0006103
231	482941	3631879	0.0015101	0.0013091	0.0010481	0.000719	0.0006076	0.0002529	0.0008078	9.355E-05	0.0006087
232	482991	3631879	0.0015109	0.0012972	0.0010386	0.0007125	0.0006021	0.0002506	0.0008151	9.27E-05	0.0006032
233	483041	3631879	0.0014803	0.0012592	0.0010082	0.0006916	0.0005845	0.0002433	0.0008048	8.998E-05	0.0005855
234	483091	3631879	0.0014391	0.0012096	0.0009684	0.0006644	0.0005614	0.0002337	0.0007903	8.643E-05	0.0005624
235	483141	3631879	0.0013885	0.0011503	0.000921	0.0006318	0.0005339	0.0002223	0.0007715	8.219E-05	0.0005348
236	483191	3631879	0.0013186	0.0010779	0.000863	0.0005921	0.0005003	0.0002083	0.0007404	7.702E-05	0.0005012
237	483241	3631879	0.0012624	0.0010122	0.0008104	0.000556	0.0004698	0.0001956	0.0007195	7.232E-05	0.0004706
238	482748	3631148	0.0059822	0.0058402	0.0046755	0.0032071	0.0027114	0.0011276	0.0028484	0.0004174	0.0027163
239	482758	3631148	0.0061123	0.0059462	0.0047604	0.0032653	0.0027606	0.0011481	0.0029217	0.000425	0.0027656
240	482768	3631148	0.0062383	0.0060458	0.0048401	0.00332	0.0028068	0.0011673	0.0029943	0.0004321	0.0028119
241	482778	3631148	0.0063596	0.0061383	0.0049142	0.0033709	0.0028498	0.0011852	0.0030659	0.0004387	0.0028549
242	482788	3631148	0.0064816	0.0062285	0.0049864	0.0034204	0.0028916	0.0012027	0.0031396	0.0004452	0.0028968
243	482798	3631148	0.0066014	0.0063135	0.0050545	0.0034671	0.002931	0.0012191	0.0032138	0.0004512	0.0029363
244	482748	3631158	0.0064399	0.0063731	0.0051021	0.0034997	0.0029589	0.0012304	0.0030201	0.0004555	0.0029642
245	482758	3631158	0.0065981	0.0065065	0.0052089	0.003573	0.0030208	0.0012562	0.0031068	0.0004651	0.0030262
246	482768	3631158	0.0067437	0.0066246	0.0053035	0.0036378	0.0030756	0.001279	0.0031891	0.0004735	0.0030811
247	482778	3631158	0.0068836	0.0067338	0.0053909	0.0036978	0.0031263	0.0013001	0.0032703	0.0004813	0.0031319
248	482788	3631158	0.0070226	0.0068385	0.0054748	0.0037553	0.0031749	0.0013204	0.0033532	0.0004888	0.0031806
249	482798	3631158	0.007158	0.0069358	0.0055527	0.0038088	0.00322	0.0013392	0.0034365	0.0004957	0.0032258
250	482808	3631158	0.0072907	0.0070262	0.0056251	0.0038585	0.003262	0.0013567	0.0035206	0.0005022	0.0032678
251	482818	3631158	0.0074146	0.0071047	0.0056879	0.0039016	0.0032983	0.0013719	0.0036025	0.0005078	0.0033043
252	482758	3631168	0.0071107	0.0071107	0.0056926	0.0039047	0.0033014	0.0013728	0.0032924	0.0005083	0.0033073
253	482768	3631168	0.0072969	0.0072716	0.0058214	0.003993	0.0033761	0.0014038	0.003395	0.0005198	0.0033821
254	482778	3631168	0.0074783	0.0074201	0.0059403	0.0040746	0.003445	0.0014325	0.0034967	0.0005304	0.0034512
255	482788	3631168	0.0076414	0.0075463	0.0060413	0.0041439	0.0035035	0.0014569	0.0035922	0.0005394	0.0035099
256	482798	3631168	0.0077936	0.0076571	0.0061301	0.0042048	0.003555	0.0014784	0.0036849	0.0005473	0.0035614
257	482808	3631168	0.0079398	0.0077572	0.0062102	0.0042598	0.0036014	0.0014977	0.0037775	0.0005545	0.0036079
258	482818	3631168	0.0080826	0.0078482	0.0062831	0.0043098	0.0036436	0.0015153	0.0038715	0.000561	0.0036502
259	482828	3631168	0.0082276	0.0079341	0.0063518	0.004357	0.0036834	0.001532	0.0039705	0.0005671	0.0036901
260	482838	3631168	0.0083665	0.0080065	0.0064099	0.0043968	0.003717	0.001546	0.0040706	0.0005723	0.0037237
261	482778	3631178	0.008195	0.008195	0.0065606	0.0045001	0.0038048	0.0015821	0.0037385	0.0005858	0.0038117
262	482788	3631178	0.0083517	0.0083517	0.0066861	0.0045861	0.0038776	0.0016123	0.0038497	0.000597	0.0038846
263	482798	3631178	0.00852	0.0084952	0.006801	0.0046649	0.0039441	0.0016401	0.0039615	0.0006072	0.0039513
264	482808	3631178	0.0086841	0.0086087	0.0068918	0.0047273	0.0039968	0.001662	0.0040648	0.0006153	0.004004

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418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
265	482818	3631178	0.0088553	0.0087204	0.0069813	0.0047887	0.0040486	0.0016836	0.0041761	0.0006233	0.0040559
266	482828	3631178	0.0090322	0.0088253	0.0070653	0.0048464	0.0040973	0.001704	0.0042967	0.0006308	0.0041047
267	482838	3631178	0.0091722	0.0088921	0.0071188	0.0048831	0.0041282	0.0017169	0.0044009	0.0006356	0.0041357
268	482848	3631178	0.0093014	0.0089408	0.0071578	0.0049099	0.0041508	0.0017264	0.0045042	0.000639	0.0041583
269	482858	3631178	0.009418	0.0089698	0.0071811	0.0049259	0.0041642	0.001732	0.0046052	0.0006411	0.0041717
270	482868	3631178	0.0095273	0.0089823	0.0071911	0.0049328	0.0041699	0.0017345	0.0047079	0.000642	0.0041775
271	482798	3631188	0.0094845	0.0094845	0.0075929	0.0052081	0.0044036	0.0018309	0.0042759	0.000678	0.0044115
272	482808	3631188	0.009619	0.009619	0.0077006	0.005282	0.004466	0.001857	0.0043943	0.0006876	0.004474
273	482818	3631188	0.0097484	0.009745	0.0078015	0.0053512	0.0045244	0.0018813	0.0045192	0.0006966	0.0045326
274	482828	3631188	0.0099496	0.0098649	0.0078976	0.0054171	0.00458	0.0019046	0.0046561	0.0007051	0.0045883
275	482838	3631188	0.0101042	0.0099329	0.007952	0.0054546	0.0046116	0.0019178	0.0047744	0.00071	0.0046199
276	482848	3631188	0.0102432	0.0099765	0.007987	0.0054786	0.0046317	0.0019262	0.0048901	0.0007131	0.0046401
277	482858	3631188	0.0103704	0.0099973	0.0080037	0.0054901	0.0046413	0.0019303	0.0050062	0.0007146	0.0046497
278	482868	3631188	0.0104888	0.0099963	0.0080029	0.0054896	0.0046408	0.0019303	0.0051252	0.0007145	0.0046491
279	482878	3631188	0.0105896	0.0099703	0.0079821	0.0054754	0.0046286	0.0019253	0.0052401	0.0007126	0.0046369
280	482888	3631188	0.0106383	0.0098594	0.0078933	0.0054146	0.004577	0.001904	0.0053485	0.0007046	0.0045852
281	482898	3631188	0.0107113	0.0097872	0.0078356	0.0053751	0.0045433	0.0018902	0.0054603	0.0006995	0.0045515
282	482818	3631198	0.0109756	0.0109756	0.0087867	0.0060269	0.0050959	0.0021188	0.004918	0.0007845	0.0051051
283	482828	3631198	0.0110773	0.0110773	0.0088681	0.0060828	0.005143	0.0021385	0.0050525	0.0007918	0.0051523
284	482838	3631198	0.0111756	0.0111539	0.0089294	0.0061249	0.0051785	0.0021533	0.0051905	0.0007973	0.0051879
285	482848	3631198	0.0113327	0.0111949	0.0089623	0.0061475	0.0051975	0.0021614	0.0053256	0.0008002	0.0052069
286	482858	3631198	0.0114733	0.0112045	0.00897	0.0061529	0.0052019	0.0021633	0.0054612	0.0008009	0.0052112
287	482868	3631198	0.0115962	0.0111812	0.0089514	0.0061402	0.0051909	0.0021589	0.0055968	0.0007992	0.0052003
288	482878	3631198	0.0116981	0.0111276	0.0089086	0.0061109	0.0051659	0.0021487	0.0057276	0.0007953	0.0051753
289	482888	3631198	0.0117216	0.0109427	0.0087606	0.0060095	0.0050799	0.0021132	0.0058504	0.0007821	0.0050891
290	482898	3631198	0.0118061	0.0108456	0.0086829	0.0059563	0.0050347	0.0020946	0.0059872	0.0007751	0.0050438
291	482908	3631198	0.0118862	0.0107371	0.0085961	0.0058969	0.0049842	0.0020738	0.0061256	0.0007673	0.0049932
292	482918	3631198	0.0119448	0.0105994	0.0084859	0.0058214	0.0049201	0.0020474	0.0062584	0.0007575	0.004929
293	482848	3631208	0.0126448	0.0126448	0.010123	0.0069435	0.0058708	0.0024411	0.0058257	0.0009038	0.0058814
294	482858	3631208	0.0127558	0.0126305	0.0101116	0.0069358	0.005864	0.0024385	0.0059784	0.0009028	0.0058746
295	482868	3631208	0.0128774	0.0125739	0.0100663	0.0069049	0.0058376	0.0024277	0.0061305	0.0008987	0.0058481
296	482878	3631208	0.0129364	0.0124082	0.0099338	0.0068141	0.0057605	0.0023959	0.0062787	0.0008869	0.0057709
297	482888	3631208	0.0129978	0.0122421	0.0098009	0.006723	0.0056832	0.002364	0.0064293	0.000875	0.0056935
298	482898	3631208	0.0130923	0.0121059	0.0096919	0.0066484	0.0056198	0.0023379	0.0065971	0.0008652	0.00563
299	482908	3631208	0.0131723	0.0119376	0.0095572	0.0065561	0.0055415	0.0023056	0.0067677	0.0008531	0.0055515
300	482918	3631208	0.0132418	0.0117458	0.0094038	0.006451	0.0054523	0.0022688	0.0069403	0.0008394	0.0054621
301	482928	3631208	0.0132978	0.0115327	0.0092333	0.0063342	0.0053531	0.0022279	0.0071108	0.0008241	0.0053628
302	482938	3631208	0.0133318	0.0112979	0.0090454	0.0062055	0.0052439	0.0021828	0.007271	0.0008073	0.0052534
303	482948	3631208	0.0133399	0.0110527	0.0088492	0.006071	0.0051299	0.0021356	0.0074109	0.0007898	0.0051392
304	482868	3631218	0.0143718	0.0142199	0.011384	0.0078086	0.0066019	0.0027454	0.0067416	0.0010164	0.0066138
305	482878	3631218	0.0144663	0.0140679	0.0112624	0.0077253	0.0065312	0.0027162	0.0069178	0.0010055	0.006543
306	482888	3631218	0.0145194	0.0138264	0.0110692	0.0075929	0.0064188	0.0026698	0.0071008	0.0009882	0.0064304
307	482898	3631218	0.0145797	0.0135765	0.0108693	0.007456	0.0063026	0.0026218	0.0072954	0.0009703	0.006314
308	482908	3631218	0.0146559	0.0133243	0.0106675	0.0073177	0.0061853	0.0025734	0.0075072	0.0009523	0.0061964

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418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
309	482918	3631218	0.0147444	0.0130637	0.0104589	0.0071748	0.006064	0.0025234	0.0077359	0.0009336	0.006075
310	482928	3631218	0.0148256	0.0127748	0.0102278	0.0070165	0.0059296	0.0024679	0.0079723	0.0009129	0.0059403
311	482938	3631218	0.0149034	0.012477	0.0099895	0.0068532	0.0057911	0.0024107	0.0082103	0.0008916	0.0058015
312	482948	3631218	0.0149498	0.0121513	0.0097288	0.0066746	0.0056396	0.0023482	0.0084318	0.0008682	0.0056498
313	482958	3631218	0.0149485	0.0118099	0.0094557	0.0064874	0.0054809	0.0022825	0.008614	0.0008438	0.0054907
314	482968	3631218	0.0148743	0.0114624	0.0091776	0.0062968	0.0053193	0.0022157	0.0087264	0.0008189	0.0053289
315	482978	3631218	0.0146792	0.0111082	0.008894	0.0061024	0.0051547	0.0021474	0.0087216	0.0007936	0.005164
316	482898	3631228	0.0163148	0.0153252	0.0122692	0.0084162	0.0071145	0.0029594	0.0080922	0.0010953	0.0071273
317	482908	3631228	0.0163921	0.0149671	0.0119826	0.0082199	0.0069479	0.0028906	0.008362	0.0010697	0.0069605
318	482918	3631228	0.016492	0.01459	0.0116809	0.0080132	0.0067725	0.0028182	0.0086646	0.0010427	0.0067847
319	482928	3631228	0.0166166	0.0142013	0.0113699	0.0078001	0.0065916	0.0027436	0.0089983	0.0010148	0.0066035
320	482938	3631228	0.0167586	0.0138043	0.0110522	0.0075824	0.0064069	0.0026674	0.0093538	0.0009864	0.0064185
321	482948	3631228	0.0154372	0.0133821	0.010714	0.00735	0.0062116	0.0025852	0.0082581	0.0009563	0.0062228
322	482958	3631228	0.013705	0.0129527	0.0103698	0.0071132	0.0060132	0.0025012	0.0067552	0.0009258	0.006024
323	482968	3631228	0.0134358	0.0125192	0.0100228	0.0068753	0.0058118	0.0024177	0.0067187	0.0008948	0.0058223
324	482978	3631228	0.0131558	0.012079	0.0096704	0.0066337	0.0056073	0.0023328	0.0066752	0.0008633	0.0056174
325	482918	3631238	0.0184979	0.0163345	0.0130776	0.0089713	0.0075822	0.0031552	0.0097346	0.0011673	0.0075959
326	482928	3631238	0.0172997	0.0158225	0.0126675	0.0086896	0.007345	0.0030558	0.0088106	0.0011308	0.0073583
327	482938	3631238	0.0172899	0.0152926	0.0122434	0.008399	0.0070986	0.002954	0.0090856	0.0010929	0.0071115
328	482948	3631238	0.0154702	0.01476	0.0118166	0.0081056	0.0068523	0.0028501	0.0075506	0.001055	0.0068647
329	482958	3631238	0.0151404	0.0142233	0.011387	0.007811	0.0066029	0.0027466	0.007509	0.0010166	0.0066149
330	482968	3631238	0.0147937	0.013683	0.0109546	0.0075145	0.006352	0.0026425	0.0074524	0.0009779	0.0063634
331	482938	3631248	0.0176206	0.0169764	0.013591	0.0093227	0.0078814	0.0032779	0.0085116	0.0012134	0.0078956
332	482948	3631248	0.0172341	0.0163021	0.0130512	0.0089526	0.0075681	0.003148	0.0084872	0.0011652	0.0075818
333	482958	3631248	0.0168088	0.0156295	0.0125129	0.0085834	0.0072556	0.0030183	0.008423	0.001117	0.0072687
334	482968	3631248	0.0163556	0.0149585	0.0119757	0.0082151	0.006944	0.002889	0.0083301	0.0010691	0.0069565
335	482662	3631168	0.0056545	0.0056545	0.0045267	0.0031049	0.0026254	0.0010915	0.0024933	0.0004042	0.0026301
336	482672	3631168	0.0058027	0.0058027	0.0046454	0.0031863	0.0026942	0.0011202	0.0025671	0.0004148	0.002699
337	482682	3631168	0.0059494	0.0059494	0.0047628	0.0032669	0.0027623	0.0011485	0.0026418	0.0004253	0.0027673
338	482692	3631168	0.0060958	0.0060958	0.0048801	0.0033473	0.0028302	0.0011767	0.0027179	0.0004357	0.0028354
339	482662	3631178	0.0061262	0.0061262	0.0049043	0.0033639	0.0028444	0.0011825	0.0026288	0.0004379	0.0028496
340	482672	3631178	0.0063057	0.0063057	0.0050481	0.0034625	0.0029278	0.0012172	0.0027124	0.0004508	0.0029331
341	482682	3631178	0.0064838	0.0064838	0.0051906	0.0035603	0.0030105	0.0012516	0.0027971	0.0004635	0.0030159
342	482692	3631178	0.0066621	0.0066621	0.0053334	0.0036582	0.0030932	0.001286	0.0028837	0.0004762	0.0030988
343	482662	3631188	0.0066505	0.0066505	0.005324	0.0036517	0.0030879	0.0012837	0.0027762	0.0004754	0.0030935
344	482672	3631188	0.0068707	0.0068707	0.0055004	0.0037727	0.0031902	0.0013262	0.0028721	0.0004911	0.0031959
345	482682	3631188	0.0070869	0.0070869	0.0056734	0.0038914	0.0032906	0.0013679	0.0029682	0.0005066	0.0032965
346	482692	3631188	0.0073238	0.0073238	0.0058631	0.0040215	0.0034005	0.0014136	0.0030744	0.0005235	0.0034067
347	482662	3631198	0.007229	0.007229	0.0057872	0.0039694	0.0033566	0.0013953	0.0029353	0.0005168	0.0033627
348	482672	3631198	0.0075242	0.0075242	0.0060235	0.0041314	0.0034937	0.0014522	0.0030548	0.0005379	0.0035
349	482682	3631198	0.0078012	0.0078012	0.0062452	0.0042835	0.0036223	0.0015057	0.0031694	0.0005577	0.0036288
350	482692	3631198	0.0080772	0.0080772	0.0064662	0.0044351	0.0037505	0.001559	0.0032858	0.0005774	0.0037572
351	482662	3631208	0.0078904	0.0078904	0.0063166	0.0043324	0.0036637	0.0015228	0.0031159	0.0005641	0.0036704
352	482672	3631208	0.0082504	0.0082504	0.0066048	0.0045301	0.0038309	0.0015923	0.003253	0.0005898	0.0038378

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418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
353	482682	3631208	0.0085904	0.0085904	0.006877	0.0047168	0.0039888	0.0016579	0.0033847	0.0006141	0.003996
354	482692	3631208	0.0089298	0.0089298	0.0071487	0.0049031	0.0041464	0.0017235	0.0035184	0.0006384	0.0041539
355	482662	3631218	0.0086327	0.0086327	0.0069108	0.00474	0.0040085	0.001666	0.003316	0.0006171	0.0040157
356	482672	3631218	0.0090496	0.0090496	0.0072446	0.0049689	0.0042021	0.0017465	0.003466	0.0006469	0.0042097
357	482682	3631218	0.0094803	0.0094803	0.0075894	0.0052053	0.0044021	0.0018296	0.0036224	0.0006777	0.00441
358	482692	3631218	0.0099066	0.0099066	0.0079306	0.0054394	0.0046	0.0019119	0.0037793	0.0007082	0.0046083
359	482662	3631228	0.0094683	0.0094683	0.0075797	0.0051987	0.0043966	0.0018272	0.0035392	0.0006769	0.0044045
360	482672	3631228	0.0099811	0.0099811	0.0079903	0.0054802	0.0046347	0.0019262	0.0037136	0.0007135	0.0046431
361	482682	3631228	0.0104993	0.0104993	0.0084051	0.0057647	0.0048754	0.0020262	0.0038909	0.0007506	0.0048842
362	482692	3631228	0.0110371	0.0110371	0.0088356	0.00606	0.0051251	0.0021299	0.0040765	0.000789	0.0051343
363	482662	3631238	0.0103972	0.0103972	0.0083233	0.0057086	0.004828	0.0020064	0.003785	0.0007433	0.0048367
364	482672	3631238	0.0110526	0.0110526	0.0088479	0.0060684	0.0051323	0.0021329	0.0039964	0.0007902	0.0051416
365	482682	3631238	0.0117233	0.0117233	0.0093848	0.0064367	0.0054438	0.0022623	0.0042131	0.0008381	0.0054536
366	482692	3631238	0.0124165	0.0124165	0.0099398	0.0068173	0.0057657	0.002396	0.004438	0.0008877	0.0057761
367	482662	3631248	0.0114018	0.0114018	0.0091275	0.0062601	0.0052945	0.0022002	0.0040477	0.0008151	0.0053041
368	482672	3631248	0.0122075	0.0122075	0.0097725	0.0067025	0.0056687	0.0023556	0.0042958	0.0008727	0.0056789
369	482682	3631248	0.0130607	0.0130607	0.0104555	0.0071709	0.0060649	0.0025202	0.0045578	0.0009337	0.0060759
370	482692	3631248	0.0139652	0.0139652	0.0111796	0.0076675	0.006485	0.0026948	0.0048354	0.0009984	0.0064967
371	482662	3631258	0.0124861	0.0124861	0.0099955	0.0068554	0.0057982	0.0024094	0.0043297	0.0008927	0.0058086
372	482672	3631258	0.0135001	0.0135001	0.0108072	0.0074121	0.0062691	0.002605	0.0046297	0.0009652	0.0062804
373	482682	3631258	0.0146082	0.0146082	0.0116942	0.0080204	0.0067836	0.0028187	0.0049552	0.0010444	0.0067959
374	482692	3631258	0.0157887	0.0157887	0.0126393	0.0086685	0.0073319	0.0030465	0.0053001	0.0011288	0.0073451
375	482662	3631268	0.0136358	0.0136358	0.0109158	0.0074865	0.0063321	0.0026311	0.0046279	0.0009749	0.0063435
376	482672	3631268	0.014889	0.014889	0.011919	0.0081745	0.0069141	0.0028729	0.0049863	0.0010645	0.0069265
377	482682	3631268	0.0162799	0.0162799	0.0130324	0.0089382	0.0075601	0.0031412	0.00538	0.0011639	0.0075737
378	482692	3631268	0.0178358	0.0178358	0.014278	0.0097923	0.0082826	0.0034413	0.0058162	0.0012752	0.0082976
379	482662	3631278	0.0148176	0.0148176	0.0118618	0.0081353	0.0068809	0.0028591	0.0049343	0.0010594	0.0068933
380	482672	3631278	0.0163742	0.0163742	0.0131079	0.0089899	0.0076038	0.0031593	0.0053678	0.0011707	0.0076176
381	482682	3631278	0.0181241	0.0181241	0.0145087	0.0099505	0.0084165	0.0034969	0.0058484	0.0012958	0.0084317
382	482692	3631278	0.0201547	0.0201547	0.0161342	0.0110653	0.0093596	0.0038886	0.006399	0.001441	0.0093765
383	482662	3631288	0.0159831	0.0159831	0.0127948	0.0087752	0.0074223	0.0030839	0.0052374	0.0011427	0.0074357
384	482672	3631288	0.0178369	0.0178369	0.0142788	0.0097929	0.0082832	0.0034415	0.005743	0.0012752	0.0082981
385	482682	3631288	0.020008	0.020008	0.0160168	0.0109848	0.0092915	0.0038603	0.006326	0.0014305	0.0093083
386	482692	3631288	0.0226033	0.0226033	0.0180943	0.0124095	0.0104968	0.0043609	0.0070124	0.001616	0.0105157
387	482662	3631298	0.0170905	0.0170905	0.0136813	0.0093831	0.0079365	0.0032975	0.0055279	0.0012219	0.0079509
388	482672	3631298	0.0192544	0.0192544	0.0154135	0.0105711	0.0089415	0.0037149	0.0061091	0.0013766	0.0089577
389	482682	3631298	0.0218505	0.0218505	0.0174916	0.0119962	0.0101472	0.0042157	0.0067948	0.0015622	0.0101655
390	482692	3631298	0.0250527	0.0250527	0.020055	0.0137542	0.0116344	0.0048334	0.0076269	0.0017912	0.0116554
391	482662	3631308	0.0181044	0.0181044	0.0144929	0.0099397	0.0084075	0.0034931	0.005798	0.0012944	0.0084226
392	482672	3631308	0.0205669	0.0205669	0.0164642	0.0112916	0.0095511	0.0039681	0.0064526	0.0014704	0.0095683
393	482682	3631308	0.0235929	0.0235929	0.0188865	0.0129528	0.0109564	0.0045518	0.0072431	0.0016868	0.0109762
394	482692	3631308	0.0273921	0.0273921	0.0219277	0.0150385	0.0127209	0.0052846	0.0082188	0.0019585	0.0127439
395	482662	3631318	0.0189714	0.0189714	0.0151869	0.0104157	0.0088101	0.0036603	0.0060348	0.0013564	0.008826
396	482672	3631318	0.0217219	0.0217219	0.0173888	0.0119257	0.0100875	0.0041909	0.0067615	0.001553	0.0101057

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Non-Cancer Risk Summary

418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
397	482682	3631318	0.0251371	0.0251371	0.0201226	0.0138005	0.0116736	0.0048496	0.0076478	0.0017972	0.0116947
398	482692	3631318	0.0294974	0.0294974	0.023613	0.0161942	0.0136987	0.0056907	0.0087598	0.002109	0.0137234
399	482662	3631328	0.019684	0.019684	0.0157574	0.0108069	0.009141	0.0037978	0.0062377	0.0014073	0.0091575
400	482672	3631328	0.0226938	0.0226938	0.0181667	0.0124592	0.0105389	0.0043784	0.0070308	0.0016225	0.0105579
401	482682	3631328	0.026441	0.026441	0.0211664	0.0145164	0.0122792	0.0051012	0.0080001	0.0018905	0.0123013
402	482692	3631328	0.0312969	0.0312969	0.0250535	0.0171821	0.0145344	0.0060378	0.0092343	0.0022377	0.0145607
403	482662	3631338	0.0202385	0.0202385	0.0162012	0.0111113	0.0093985	0.0039048	0.0064064	0.001447	0.0094155
404	482672	3631338	0.0234673	0.0234673	0.0187859	0.0128839	0.0108981	0.0045276	0.0072577	0.0016778	0.0109178
405	482682	3631338	0.0274945	0.0274945	0.0220097	0.0150947	0.0127684	0.0053044	0.0082991	0.0019658	0.0127915
406	482692	3631338	0.0327538	0.0327538	0.0262198	0.0179819	0.015211	0.0063188	0.0096351	0.0023418	0.0152385
407	482662	3631348	0.0206223	0.0206223	0.0165085	0.011322	0.0095767	0.0039788	0.0065382	0.0014744	0.009594
408	482672	3631348	0.0240218	0.0240218	0.0192298	0.0131883	0.0111556	0.0046346	0.0074376	0.0017175	0.0111757
409	482682	3631348	0.0282754	0.0282754	0.0226348	0.0155234	0.0131311	0.0054551	0.0085404	0.0020216	0.0131548
410	482692	3631348	0.0338664	0.0338664	0.0271104	0.0185927	0.0157277	0.0065335	0.0099637	0.0024214	0.0157561
411	482662	3631358	0.0208296	0.0208296	0.0166745	0.0114359	0.009673	0.0040188	0.0066315	0.0014892	0.0096905
412	482672	3631358	0.024349	0.024349	0.0194917	0.013368	0.0113075	0.0046977	0.0075687	0.0017409	0.0113279
413	482682	3631358	0.0287792	0.0287792	0.0230381	0.0158	0.013365	0.0055523	0.0087241	0.0020576	0.0133891
414	482692	3631358	0.0346177	0.0346177	0.0277118	0.0190052	0.0160766	0.0066785	0.0102175	0.0024751	0.0161056
415	482662	3631368	0.020857	0.020857	0.0166964	0.011451	0.0096857	0.0040242	0.0066852	0.0014912	0.0097032
416	482672	3631368	0.0244574	0.0244574	0.0195785	0.0134275	0.0113578	0.0047187	0.0076538	0.0017486	0.0113783
417	482682	3631368	0.0289999	0.0289999	0.0232148	0.0159213	0.0134675	0.0055949	0.0088493	0.0020734	0.0134918
418	482692	3631368	0.0349678	0.0349678	0.0279921	0.0191975	0.0162392	0.0067461	0.010388	0.0025001	0.0162685
419	482662	3631378	0.0207049	0.0207049	0.0165747	0.0113675	0.009615	0.0039949	0.0066982	0.0014803	0.0096324

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Residential - Construction Non-Cancer Risk Summary

418	Receptor
0.03	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
420	482672	3631378	0.0243424	0.0243424	0.0194865	0.0133644	0.0113044	0.0046965	0.007691	0.0017404	0.0113247
421	482682	3631378	0.0289151	0.0289151	0.023147	0.0158748	0.013428	0.0055786	0.0089103	0.0020673	0.0134523
422	482692	3631378	0.0349464	0.0349464	0.027975	0.0191858	0.0162291	0.006742	0.0104841	0.0024986	0.0162584
423	482662	3631388	0.020374	0.020374	0.0163098	0.0111859	0.0094613	0.0039311	0.0066685	0.0014566	0.0094784
424	482672	3631388	0.023985	0.023985	0.0192005	0.0131683	0.0111383	0.0046277	0.007673	0.0017148	0.0111584
425	482682	3631388	0.0285437	0.0285437	0.0228497	0.015671	0.0132555	0.0055071	0.0089113	0.0020408	0.0132794
426	482692	3631388	0.0345844	0.0345844	0.0276853	0.0189872	0.0160609	0.0066723	0.0105153	0.0024727	0.0160899
427	482662	3631398	0.0198665	0.0198665	0.0159036	0.0109073	0.0092256	0.0038332	0.0065933	0.0014203	0.0092422
428	482672	3631398	0.0233971	0.0233971	0.0187298	0.0128456	0.0108652	0.0045143	0.0075994	0.0016728	0.0108848
429	482682	3631398	0.027876	0.027876	0.0223152	0.0153045	0.0129453	0.0053783	0.0088465	0.001993	0.0129686
430	482692	3631398	0.033843	0.033843	0.0270918	0.0185803	0.0157165	0.0065294	0.0104704	0.0024196	0.0157448
431	482662	3631408	0.0191906	0.0191906	0.0153625	0.0105363	0.0089116	0.0037029	0.0064693	0.001372	0.0089277
432	482672	3631408	0.0225873	0.0225873	0.0180816	0.0124011	0.010489	0.0043582	0.0074664	0.0016148	0.010508
433	482682	3631408	0.0269135	0.0269135	0.0215448	0.0147761	0.0124982	0.0051928	0.0087099	0.0019242	0.0125207
434	482692	3631408	0.0327063	0.0327063	0.026182	0.0179564	0.0151885	0.0063103	0.0103399	0.0023383	0.0152159
435	482662	3631418	0.0183786	0.0183786	0.0147126	0.0100906	0.0085345	0.0035463	0.0063001	0.0013139	0.0085499
436	482672	3631418	0.0215861	0.0215861	0.0172802	0.0118515	0.010024	0.0041651	0.0072742	0.0015433	0.0100421
437	482682	3631418	0.0256769	0.0256769	0.020555	0.0140974	0.0119238	0.0049543	0.008496	0.0018357	0.0119453
438	482692	3631418	0.0311912	0.0311912	0.0249692	0.0171248	0.0144847	0.0060182	0.0101163	0.00223	0.0145108
439	482662	3631428	0.0174404	0.0174404	0.0139615	0.0095755	0.0080987	0.0033654	0.006081	0.0012468	0.0081133
440	482672	3631428	0.020411	0.020411	0.0163396	0.0112064	0.0094783	0.0039385	0.0070166	0.0014592	0.0094954
441	482682	3631428	0.0241849	0.0241849	0.0193606	0.0132783	0.0112308	0.0046666	0.0081931	0.001729	0.0112511
442	482692	3631428	0.0292835	0.0292835	0.0234421	0.0160776	0.0135986	0.0056503	0.0097708	0.0020936	0.0136231
443	482662	3631438	0.0164068	0.0164068	0.0131341	0.0090081	0.0076187	0.003166	0.0058151	0.0011729	0.0076324
444	482672	3631438	0.0190943	0.0190943	0.0152855	0.0104836	0.0088667	0.0036845	0.0066917	0.0013651	0.0088827
445	482682	3631438	0.0224926	0.0224926	0.0180059	0.0123493	0.0104448	0.0043402	0.0077981	0.001608	0.0104636
446	482692	3631438	0.0270295	0.0270295	0.0216378	0.0148402	0.0125517	0.0052156	0.0092808	0.0019324	0.0125743
447	482662	3631448	0.0153312	0.0153312	0.0122731	0.0084176	0.0071191	0.0029585	0.0055175	0.001096	0.007132
448	482672	3631448	0.0177034	0.0177034	0.0141721	0.00972	0.0082208	0.0034162	0.0063147	0.0012656	0.0082356
449	482682	3631448	0.0206988	0.0206988	0.01657	0.0113646	0.0096117	0.0039942	0.0073285	0.0014798	0.0096291
450	482692	3631448	0.0246017	0.0246017	0.0196944	0.0135075	0.0114241	0.0047473	0.0086681	0.0017588	0.0114447

Unmitigated Residential Health Risk Assessment
5. Risk by Construction Phase

5. Risk by Construction Phase

a. Risk From Demolition - Unmitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	1.6E-02	1.0E-03	4.9E-06	1.6E-01	4.2E-02	3.2E-08	9.3E-04	4.6E-03
2	3.0E-01	1.6E-02	1.0E-03	5.1E-06	1.6E-01	4.2E-02	3.4E-08	9.7E-04	4.9E-03
3	3.1E-01	1.6E-02	1.0E-03	5.3E-06	1.6E-01	4.2E-02	3.5E-08	1.0E-03	5.0E-03
4	3.2E-01	1.6E-02	1.0E-03	5.4E-06	1.6E-01	4.2E-02	3.6E-08	1.0E-03	5.2E-03
5	3.3E-01	1.6E-02	1.0E-03	5.6E-06	1.6E-01	4.2E-02	3.7E-08	1.1E-03	5.3E-03
6	3.4E-01	1.6E-02	1.0E-03	5.7E-06	1.6E-01	4.2E-02	3.8E-08	1.1E-03	5.5E-03
7	3.5E-01	1.6E-02	1.0E-03	5.9E-06	1.6E-01	4.2E-02	3.9E-08	1.1E-03	5.6E-03
8	3.6E-01	1.6E-02	1.0E-03	6.1E-06	1.6E-01	4.2E-02	4.0E-08	1.2E-03	5.8E-03
9	3.7E-01	1.6E-02	1.0E-03	6.3E-06	1.6E-01	4.2E-02	4.2E-08	1.2E-03	6.0E-03
10	3.8E-01	1.6E-02	1.0E-03	6.5E-06	1.6E-01	4.2E-02	4.3E-08	1.2E-03	6.2E-03
11	4.0E-01	1.6E-02	1.0E-03	6.8E-06	1.6E-01	4.2E-02	4.5E-08	1.3E-03	6.5E-03
12	4.1E-01	1.6E-02	1.0E-03	7.0E-06	1.6E-01	4.2E-02	4.7E-08	1.3E-03	6.7E-03
13	4.3E-01	1.6E-02	1.0E-03	7.2E-06	1.6E-01	4.2E-02	4.8E-08	1.4E-03	6.9E-03
14	4.3E-01	1.6E-02	1.0E-03	7.4E-06	1.6E-01	4.2E-02	4.9E-08	1.4E-03	7.1E-03
15	4.3E-01	1.6E-02	1.0E-03	7.3E-06	1.6E-01	4.2E-02	4.9E-08	1.4E-03	7.0E-03
16	4.2E-01	1.6E-02	1.0E-03	7.2E-06	1.6E-01	4.2E-02	4.7E-08	1.4E-03	6.9E-03
17	3.2E-01	1.6E-02	1.0E-03	5.4E-06	1.6E-01	4.2E-02	3.6E-08	1.0E-03	5.2E-03
18	3.4E-01	1.6E-02	1.0E-03	5.7E-06	1.6E-01	4.2E-02	3.8E-08	1.1E-03	5.5E-03
19	3.6E-01	1.6E-02	1.0E-03	6.1E-06	1.6E-01	4.2E-02	4.0E-08	1.2E-03	5.8E-03
20	3.7E-01	1.6E-02	1.0E-03	6.3E-06	1.6E-01	4.2E-02	4.2E-08	1.2E-03	6.1E-03
21	3.9E-01	1.6E-02	1.0E-03	6.6E-06	1.6E-01	4.2E-02	4.3E-08	1.3E-03	6.3E-03
22	4.0E-01	1.6E-02	1.0E-03	6.8E-06	1.6E-01	4.2E-02	4.5E-08	1.3E-03	6.5E-03
23	5.2E-01	1.6E-02	1.0E-03	8.9E-06	1.6E-01	4.2E-02	5.9E-08	1.7E-03	8.5E-03
24	5.3E-01	1.6E-02	1.0E-03	9.1E-06	1.6E-01	4.2E-02	6.0E-08	1.7E-03	8.7E-03
25	5.3E-01	1.6E-02	1.0E-03	9.0E-06	1.6E-01	4.2E-02	6.0E-08	1.7E-03	8.6E-03
26	5.2E-01	1.6E-02	1.0E-03	8.8E-06	1.6E-01	4.2E-02	5.8E-08	1.7E-03	8.4E-03
27	5.0E-01	1.6E-02	1.0E-03	8.5E-06	1.6E-01	4.2E-02	5.6E-08	1.6E-03	8.1E-03
28	3.5E-01	1.6E-02	1.0E-03	6.0E-06	1.6E-01	4.2E-02	4.0E-08	1.1E-03	5.7E-03
29	4.1E-01	1.6E-02	1.0E-03	7.0E-06	1.6E-01	4.2E-02	4.6E-08	1.3E-03	6.7E-03
30	4.3E-01	1.6E-02	1.0E-03	7.4E-06	1.6E-01	4.2E-02	4.9E-08	1.4E-03	7.1E-03
31	4.6E-01	1.6E-02	1.0E-03	7.8E-06	1.6E-01	4.2E-02	5.2E-08	1.5E-03	7.5E-03
32	4.8E-01	1.6E-02	1.0E-03	8.2E-06	1.6E-01	4.2E-02	5.5E-08	1.6E-03	7.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	1.6E-02	1.0E-03	8.6E-06	1.6E-01	4.2E-02	5.7E-08	1.6E-03	8.2E-03
34	5.2E-01	1.6E-02	1.0E-03	8.9E-06	1.6E-01	4.2E-02	5.9E-08	1.7E-03	8.5E-03
35	5.5E-01	1.6E-02	1.0E-03	9.3E-06	1.6E-01	4.2E-02	6.2E-08	1.8E-03	8.9E-03
36	5.7E-01	1.6E-02	1.0E-03	9.7E-06	1.6E-01	4.2E-02	6.4E-08	1.9E-03	9.3E-03
37	6.3E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.1E-08	2.1E-03	1.0E-02
38	6.6E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.4E-08	2.1E-03	1.1E-02
39	6.7E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.6E-08	2.2E-03	1.1E-02
40	6.5E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.3E-08	2.1E-03	1.1E-02
41	6.2E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.0E-08	2.0E-03	1.0E-02
42	5.9E-01	1.6E-02	1.0E-03	1.0E-05	1.6E-01	4.2E-02	6.7E-08	1.9E-03	9.6E-03
43	3.9E-01	1.6E-02	1.0E-03	6.6E-06	1.6E-01	4.2E-02	4.4E-08	1.3E-03	6.3E-03
44	4.3E-01	1.6E-02	1.0E-03	7.3E-06	1.6E-01	4.2E-02	4.8E-08	1.4E-03	6.9E-03
45	4.7E-01	1.6E-02	1.0E-03	8.0E-06	1.6E-01	4.2E-02	5.3E-08	1.5E-03	7.6E-03
46	5.5E-01	1.6E-02	1.0E-03	9.4E-06	1.6E-01	4.2E-02	6.2E-08	1.8E-03	9.0E-03
47	5.9E-01	1.6E-02	1.0E-03	1.0E-05	1.6E-01	4.2E-02	6.6E-08	1.9E-03	9.6E-03
48	6.2E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.0E-08	2.0E-03	1.0E-02
49	6.5E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.4E-08	2.1E-03	1.1E-02
50	6.9E-01	1.6E-02	1.0E-03	1.2E-05	1.6E-01	4.2E-02	7.8E-08	2.3E-03	1.1E-02
51	7.3E-01	1.6E-02	1.0E-03	1.2E-05	1.6E-01	4.2E-02	8.2E-08	2.4E-03	1.2E-02
52	8.2E-01	1.6E-02	1.0E-03	1.4E-05	1.6E-01	4.2E-02	9.3E-08	2.7E-03	1.3E-02
53	8.6E-01	1.6E-02	1.0E-03	1.5E-05	1.6E-01	4.2E-02	9.6E-08	2.8E-03	1.4E-02
54	8.8E-01	1.6E-02	1.0E-03	1.5E-05	1.6E-01	4.2E-02	9.9E-08	2.9E-03	1.4E-02
55	8.9E-01	1.6E-02	1.0E-03	1.5E-05	1.6E-01	4.2E-02	1.0E-07	2.9E-03	1.4E-02
56	8.9E-01	1.6E-02	1.0E-03	1.5E-05	1.6E-01	4.2E-02	1.0E-07	2.9E-03	1.4E-02
57	8.1E-01	1.6E-02	1.0E-03	1.4E-05	1.6E-01	4.2E-02	9.1E-08	2.6E-03	1.3E-02
58	7.6E-01	1.6E-02	1.0E-03	1.3E-05	1.6E-01	4.2E-02	8.5E-08	2.5E-03	1.2E-02
59	7.0E-01	1.6E-02	1.0E-03	1.2E-05	1.6E-01	4.2E-02	7.9E-08	2.3E-03	1.1E-02
60	4.2E-01	1.6E-02	1.0E-03	7.1E-06	1.6E-01	4.2E-02	4.7E-08	1.4E-03	6.8E-03
61	4.7E-01	1.6E-02	1.0E-03	8.0E-06	1.6E-01	4.2E-02	5.3E-08	1.5E-03	7.7E-03
62	5.3E-01	1.6E-02	1.0E-03	9.0E-06	1.6E-01	4.2E-02	5.9E-08	1.7E-03	8.6E-03
63	5.9E-01	1.6E-02	1.0E-03	1.0E-05	1.6E-01	4.2E-02	6.6E-08	1.9E-03	9.6E-03
64	6.6E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.4E-08	2.1E-03	1.1E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	1.6E-02	1.0E-03	1.4E-05	1.6E-01	4.2E-02	9.5E-08	2.7E-03	1.4E-02
66	9.1E-01	1.6E-02	1.0E-03	1.5E-05	1.6E-01	4.2E-02	1.0E-07	3.0E-03	1.5E-02
67	9.7E-01	1.6E-02	1.0E-03	1.7E-05	1.6E-01	4.2E-02	1.1E-07	3.2E-03	1.6E-02
68	1.1E+00	1.6E-02	1.0E-03	1.9E-05	1.6E-01	4.2E-02	1.3E-07	3.6E-03	1.8E-02
69	1.2E+00	1.6E-02	1.0E-03	2.0E-05	1.6E-01	4.2E-02	1.3E-07	3.8E-03	1.9E-02
70	1.2E+00	1.6E-02	1.0E-03	2.0E-05	1.6E-01	4.2E-02	1.4E-07	3.9E-03	2.0E-02
71	1.2E+00	1.6E-02	1.0E-03	2.1E-05	1.6E-01	4.2E-02	1.4E-07	3.9E-03	2.0E-02
72	1.2E+00	1.6E-02	1.0E-03	2.0E-05	1.6E-01	4.2E-02	1.3E-07	3.9E-03	1.9E-02
73	4.4E-01	1.6E-02	1.0E-03	7.5E-06	1.6E-01	4.2E-02	5.0E-08	1.4E-03	7.2E-03
74	5.0E-01	1.6E-02	1.0E-03	8.6E-06	1.6E-01	4.2E-02	5.7E-08	1.6E-03	8.2E-03
75	5.8E-01	1.6E-02	1.0E-03	9.8E-06	1.6E-01	4.2E-02	6.5E-08	1.9E-03	9.4E-03
76	6.7E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.5E-08	2.2E-03	1.1E-02
77	7.7E-01	1.6E-02	1.0E-03	1.3E-05	1.6E-01	4.2E-02	8.7E-08	2.5E-03	1.3E-02
78	8.8E-01	1.6E-02	1.0E-03	1.5E-05	1.6E-01	4.2E-02	9.9E-08	2.9E-03	1.4E-02
79	1.0E+00	1.6E-02	1.0E-03	1.7E-05	1.6E-01	4.2E-02	1.1E-07	3.3E-03	1.6E-02
80	1.4E+00	1.6E-02	1.0E-03	2.3E-05	1.6E-01	4.2E-02	1.5E-07	4.4E-03	2.2E-02
81	1.6E+00	1.6E-02	1.0E-03	2.8E-05	1.6E-01	4.2E-02	1.8E-07	5.3E-03	2.7E-02
82	1.7E+00	1.6E-02	1.0E-03	2.9E-05	1.6E-01	4.2E-02	1.9E-07	5.6E-03	2.8E-02
83	1.7E+00	1.6E-02	1.0E-03	3.0E-05	1.6E-01	4.2E-02	2.0E-07	5.7E-03	2.8E-02
84	1.7E+00	1.6E-02	1.0E-03	2.9E-05	1.6E-01	4.2E-02	1.9E-07	5.6E-03	2.8E-02
85	1.7E+00	1.6E-02	1.0E-03	2.8E-05	1.6E-01	4.2E-02	1.9E-07	5.4E-03	2.7E-02
86	4.5E-01	1.6E-02	1.0E-03	7.6E-06	1.6E-01	4.2E-02	5.0E-08	1.5E-03	7.3E-03
87	5.2E-01	1.6E-02	1.0E-03	8.9E-06	1.6E-01	4.2E-02	5.9E-08	1.7E-03	8.6E-03
88	6.2E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.0E-08	2.0E-03	1.0E-02
89	7.4E-01	1.6E-02	1.0E-03	1.3E-05	1.6E-01	4.2E-02	8.3E-08	2.4E-03	1.2E-02
90	8.8E-01	1.6E-02	1.0E-03	1.5E-05	1.6E-01	4.2E-02	9.9E-08	2.9E-03	1.4E-02
91	1.1E+00	1.6E-02	1.0E-03	1.8E-05	1.6E-01	4.2E-02	1.2E-07	3.4E-03	1.7E-02
92	1.3E+00	1.6E-02	1.0E-03	2.2E-05	1.6E-01	4.2E-02	1.4E-07	4.1E-03	2.1E-02
93	1.5E+00	1.6E-02	1.0E-03	2.6E-05	1.6E-01	4.2E-02	1.7E-07	4.9E-03	2.5E-02
94	1.8E+00	1.6E-02	1.0E-03	3.0E-05	1.6E-01	4.2E-02	2.0E-07	5.8E-03	2.9E-02
95	2.6E+00	1.6E-02	1.0E-03	4.5E-05	1.6E-01	4.2E-02	3.0E-07	8.6E-03	4.3E-02
96	2.4E+00	1.6E-02	1.0E-03	4.1E-05	1.6E-01	4.2E-02	2.7E-07	7.8E-03	3.9E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	1.6E-02	1.0E-03	7.8E-06	1.6E-01	4.2E-02	5.1E-08	1.5E-03	7.4E-03
98	5.4E-01	1.6E-02	1.0E-03	9.1E-06	1.6E-01	4.2E-02	6.0E-08	1.7E-03	8.7E-03
99	6.4E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.2E-08	2.1E-03	1.0E-02
100	1.2E+00	1.6E-02	1.0E-03	2.1E-05	1.6E-01	4.2E-02	1.4E-07	4.0E-03	2.0E-02
101	1.5E+00	1.6E-02	1.0E-03	2.6E-05	1.6E-01	4.2E-02	1.7E-07	5.0E-03	2.5E-02
102	2.0E+00	1.6E-02	1.0E-03	3.4E-05	1.6E-01	4.2E-02	2.3E-07	6.5E-03	3.3E-02
103	2.6E+00	1.6E-02	1.0E-03	4.5E-05	1.6E-01	4.2E-02	3.0E-07	8.6E-03	4.3E-02
104	4.5E-01	1.6E-02	1.0E-03	7.6E-06	1.6E-01	4.2E-02	5.0E-08	1.5E-03	7.3E-03
105	5.3E-01	1.6E-02	1.0E-03	9.0E-06	1.6E-01	4.2E-02	6.0E-08	1.7E-03	8.6E-03
106	6.4E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.2E-08	2.1E-03	1.0E-02
107	2.5E+00	1.6E-02	1.0E-03	4.2E-05	1.6E-01	4.2E-02	2.8E-07	8.1E-03	4.1E-02
108	3.8E+00	1.6E-02	1.0E-03	6.5E-05	1.6E-01	4.2E-02	4.3E-07	1.2E-02	6.2E-02
109	4.3E-01	1.6E-02	1.0E-03	7.3E-06	1.6E-01	4.2E-02	4.8E-08	1.4E-03	6.9E-03
110	5.1E-01	1.6E-02	1.0E-03	8.6E-06	1.6E-01	4.2E-02	5.7E-08	1.7E-03	8.3E-03
111	6.2E-01	1.6E-02	1.0E-03	1.0E-05	1.6E-01	4.2E-02	6.9E-08	2.0E-03	1.0E-02
112	2.8E+00	1.6E-02	1.0E-03	4.7E-05	1.6E-01	4.2E-02	3.1E-07	9.0E-03	4.5E-02
113	4.7E+00	1.6E-02	1.0E-03	8.0E-05	1.6E-01	4.2E-02	5.3E-07	1.5E-02	7.6E-02
114	4.0E-01	1.6E-02	1.0E-03	6.8E-06	1.6E-01	4.2E-02	4.5E-08	1.3E-03	6.5E-03
115	4.8E-01	1.6E-02	1.0E-03	8.1E-06	1.6E-01	4.2E-02	5.4E-08	1.6E-03	7.8E-03
116	5.8E-01	1.6E-02	1.0E-03	9.8E-06	1.6E-01	4.2E-02	6.5E-08	1.9E-03	9.4E-03
117	7.2E-01	1.6E-02	1.0E-03	1.2E-05	1.6E-01	4.2E-02	8.1E-08	2.3E-03	1.2E-02
118	2.7E+00	1.6E-02	1.0E-03	4.6E-05	1.6E-01	4.2E-02	3.0E-07	8.7E-03	4.4E-02
119	4.7E+00	1.6E-02	1.0E-03	8.1E-05	1.6E-01	4.2E-02	5.3E-07	1.5E-02	7.7E-02
120	3.7E-01	1.6E-02	1.0E-03	6.4E-06	1.6E-01	4.2E-02	4.2E-08	1.2E-03	6.1E-03
121	4.4E-01	1.6E-02	1.0E-03	7.5E-06	1.6E-01	4.2E-02	5.0E-08	1.4E-03	7.2E-03
122	5.3E-01	1.6E-02	1.0E-03	9.1E-06	1.6E-01	4.2E-02	6.0E-08	1.7E-03	8.7E-03
123	6.6E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.4E-08	2.1E-03	1.1E-02
124	2.3E+00	1.6E-02	1.0E-03	4.0E-05	1.6E-01	4.2E-02	2.6E-07	7.6E-03	3.8E-02
125	4.0E+00	1.6E-02	1.0E-03	6.8E-05	1.6E-01	4.2E-02	4.5E-07	1.3E-02	6.5E-02
126	3.5E-01	1.6E-02	1.0E-03	5.9E-06	1.6E-01	4.2E-02	3.9E-08	1.1E-03	5.7E-03
127	4.1E-01	1.6E-02	1.0E-03	6.9E-06	1.6E-01	4.2E-02	4.6E-08	1.3E-03	6.6E-03
128	4.9E-01	1.6E-02	1.0E-03	8.3E-06	1.6E-01	4.2E-02	5.5E-08	1.6E-03	7.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	1.6E-02	1.0E-03	1.0E-05	1.6E-01	4.2E-02	6.7E-08	1.9E-03	9.7E-03
130	7.4E-01	1.6E-02	1.0E-03	1.3E-05	1.6E-01	4.2E-02	8.4E-08	2.4E-03	1.2E-02
131	9.7E-01	1.6E-02	1.0E-03	1.6E-05	1.6E-01	4.2E-02	1.1E-07	3.1E-03	1.6E-02
132	1.3E+00	1.6E-02	1.0E-03	2.2E-05	1.6E-01	4.2E-02	1.5E-07	4.3E-03	2.1E-02
133	1.9E+00	1.6E-02	1.0E-03	3.2E-05	1.6E-01	4.2E-02	2.1E-07	6.2E-03	3.1E-02
134	3.0E+00	1.6E-02	1.0E-03	5.1E-05	1.6E-01	4.2E-02	3.4E-07	9.7E-03	4.9E-02
135	5.4E+00	1.6E-02	1.0E-03	9.1E-05	1.6E-01	4.2E-02	6.0E-07	1.7E-02	8.7E-02
136	3.2E-01	1.6E-02	1.0E-03	5.5E-06	1.6E-01	4.2E-02	3.7E-08	1.1E-03	5.3E-03
137	3.8E-01	1.6E-02	1.0E-03	6.4E-06	1.6E-01	4.2E-02	4.3E-08	1.2E-03	6.2E-03
138	4.5E-01	1.6E-02	1.0E-03	7.6E-06	1.6E-01	4.2E-02	5.0E-08	1.5E-03	7.3E-03
139	5.4E-01	1.6E-02	1.0E-03	9.1E-06	1.6E-01	4.2E-02	6.0E-08	1.7E-03	8.7E-03
140	6.6E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.5E-08	2.2E-03	1.1E-02
141	8.4E-01	1.6E-02	1.0E-03	1.4E-05	1.6E-01	4.2E-02	9.5E-08	2.7E-03	1.4E-02
142	1.1E+00	1.6E-02	1.0E-03	1.9E-05	1.6E-01	4.2E-02	1.2E-07	3.6E-03	1.8E-02
143	1.5E+00	1.6E-02	1.0E-03	2.6E-05	1.6E-01	4.2E-02	1.7E-07	4.9E-03	2.5E-02
144	2.1E+00	1.6E-02	1.0E-03	3.6E-05	1.6E-01	4.2E-02	2.4E-07	6.9E-03	3.4E-02
145	3.1E+00	1.6E-02	1.0E-03	5.2E-05	1.6E-01	4.2E-02	3.5E-07	1.0E-02	5.0E-02
146	3.0E-01	1.6E-02	1.0E-03	5.1E-06	1.6E-01	4.2E-02	3.4E-08	9.8E-04	4.9E-03
147	3.5E-01	1.6E-02	1.0E-03	5.9E-06	1.6E-01	4.2E-02	3.9E-08	1.1E-03	5.6E-03
148	4.1E-01	1.6E-02	1.0E-03	6.9E-06	1.6E-01	4.2E-02	4.6E-08	1.3E-03	6.6E-03
149	4.8E-01	1.6E-02	1.0E-03	8.2E-06	1.6E-01	4.2E-02	5.5E-08	1.6E-03	7.9E-03
150	5.9E-01	1.6E-02	1.0E-03	1.0E-05	1.6E-01	4.2E-02	6.6E-08	1.9E-03	9.5E-03
151	7.2E-01	1.6E-02	1.0E-03	1.2E-05	1.6E-01	4.2E-02	8.2E-08	2.4E-03	1.2E-02
152	9.0E-01	1.6E-02	1.0E-03	1.5E-05	1.6E-01	4.2E-02	1.0E-07	2.9E-03	1.5E-02
153	1.2E+00	1.6E-02	1.0E-03	2.0E-05	1.6E-01	4.2E-02	1.3E-07	3.8E-03	1.9E-02
154	1.5E+00	1.6E-02	1.0E-03	2.5E-05	1.6E-01	4.2E-02	1.6E-07	4.8E-03	2.4E-02
155	1.9E+00	1.6E-02	1.0E-03	3.2E-05	1.6E-01	4.2E-02	2.1E-07	6.2E-03	3.1E-02
156	2.8E-01	1.6E-02	1.0E-03	4.8E-06	1.6E-01	4.2E-02	3.1E-08	9.1E-04	4.5E-03
157	3.2E-01	1.6E-02	1.0E-03	5.5E-06	1.6E-01	4.2E-02	3.6E-08	1.0E-03	5.2E-03
158	3.7E-01	1.6E-02	1.0E-03	6.3E-06	1.6E-01	4.2E-02	4.2E-08	1.2E-03	6.0E-03
159	4.3E-01	1.6E-02	1.0E-03	7.4E-06	1.6E-01	4.2E-02	4.9E-08	1.4E-03	7.1E-03
160	5.2E-01	1.6E-02	1.0E-03	8.8E-06	1.6E-01	4.2E-02	5.8E-08	1.7E-03	8.4E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.0E-08	2.0E-03	1.0E-02
162	7.4E-01	1.6E-02	1.0E-03	1.3E-05	1.6E-01	4.2E-02	8.4E-08	2.4E-03	1.2E-02
163	9.0E-01	1.6E-02	1.0E-03	1.5E-05	1.6E-01	4.2E-02	1.0E-07	2.9E-03	1.5E-02
164	1.1E+00	1.6E-02	1.0E-03	1.8E-05	1.6E-01	4.2E-02	1.2E-07	3.5E-03	1.7E-02
165	1.3E+00	1.6E-02	1.0E-03	2.2E-05	1.6E-01	4.2E-02	1.5E-07	4.3E-03	2.1E-02
166	2.6E-01	1.6E-02	1.0E-03	4.4E-06	1.6E-01	4.2E-02	2.9E-08	8.4E-04	4.2E-03
167	2.9E-01	1.6E-02	1.0E-03	5.0E-06	1.6E-01	4.2E-02	3.3E-08	9.6E-04	4.8E-03
168	3.4E-01	1.6E-02	1.0E-03	5.7E-06	1.6E-01	4.2E-02	3.8E-08	1.1E-03	5.5E-03
169	3.9E-01	1.6E-02	1.0E-03	6.6E-06	1.6E-01	4.2E-02	4.4E-08	1.3E-03	6.3E-03
170	4.5E-01	1.6E-02	1.0E-03	7.7E-06	1.6E-01	4.2E-02	5.1E-08	1.5E-03	7.4E-03
171	5.3E-01	1.6E-02	1.0E-03	9.0E-06	1.6E-01	4.2E-02	6.0E-08	1.7E-03	8.6E-03
172	6.1E-01	1.6E-02	1.0E-03	1.0E-05	1.6E-01	4.2E-02	6.9E-08	2.0E-03	9.9E-03
173	7.1E-01	1.6E-02	1.0E-03	1.2E-05	1.6E-01	4.2E-02	8.0E-08	2.3E-03	1.2E-02
174	8.2E-01	1.6E-02	1.0E-03	1.4E-05	1.6E-01	4.2E-02	9.2E-08	2.7E-03	1.3E-02
175	9.5E-01	1.6E-02	1.0E-03	1.6E-05	1.6E-01	4.2E-02	1.1E-07	3.1E-03	1.5E-02
176	2.4E-01	1.6E-02	1.0E-03	4.1E-06	1.6E-01	4.2E-02	2.7E-08	7.8E-04	3.9E-03
177	2.7E-01	1.6E-02	1.0E-03	4.6E-06	1.6E-01	4.2E-02	3.0E-08	8.8E-04	4.4E-03
178	3.0E-01	1.6E-02	1.0E-03	5.2E-06	1.6E-01	4.2E-02	3.4E-08	9.9E-04	5.0E-03
179	3.5E-01	1.6E-02	1.0E-03	5.9E-06	1.6E-01	4.2E-02	3.9E-08	1.1E-03	5.6E-03
180	3.9E-01	1.6E-02	1.0E-03	6.7E-06	1.6E-01	4.2E-02	4.4E-08	1.3E-03	6.4E-03
181	4.5E-01	1.6E-02	1.0E-03	7.7E-06	1.6E-01	4.2E-02	5.1E-08	1.5E-03	7.3E-03
182	5.1E-01	1.6E-02	1.0E-03	8.6E-06	1.6E-01	4.2E-02	5.7E-08	1.7E-03	8.3E-03
183	5.7E-01	1.6E-02	1.0E-03	9.7E-06	1.6E-01	4.2E-02	6.4E-08	1.9E-03	9.3E-03
184	6.4E-01	1.6E-02	1.0E-03	1.1E-05	1.6E-01	4.2E-02	7.2E-08	2.1E-03	1.0E-02
185	7.2E-01	1.6E-02	1.0E-03	1.2E-05	1.6E-01	4.2E-02	8.1E-08	2.4E-03	1.2E-02
186	5.9E-01	1.6E-02	1.0E-03	1.0E-05	1.6E-01	4.2E-02	6.6E-08	1.9E-03	9.6E-03
187	5.2E-01	1.6E-02	1.0E-03	8.9E-06	1.6E-01	4.2E-02	5.9E-08	1.7E-03	8.5E-03
188	4.7E-01	1.6E-02	1.0E-03	7.9E-06	1.6E-01	4.2E-02	5.2E-08	1.5E-03	7.6E-03
189	2.2E-01	1.6E-02	1.0E-03	3.8E-06	1.6E-01	4.2E-02	2.5E-08	7.2E-04	3.6E-03
190	2.5E-01	1.6E-02	1.0E-03	4.2E-06	1.6E-01	4.2E-02	2.8E-08	8.0E-04	4.0E-03
191	2.7E-01	1.6E-02	1.0E-03	4.7E-06	1.6E-01	4.2E-02	3.1E-08	9.0E-04	4.5E-03
192	3.1E-01	1.6E-02	1.0E-03	5.2E-06	1.6E-01	4.2E-02	3.5E-08	1.0E-03	5.0E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	1.6E-02	1.0E-03	5.9E-06	1.6E-01	4.2E-02	3.9E-08	1.1E-03	5.6E-03
194	3.8E-01	1.6E-02	1.0E-03	6.5E-06	1.6E-01	4.2E-02	4.3E-08	1.2E-03	6.2E-03
195	4.3E-01	1.6E-02	1.0E-03	7.2E-06	1.6E-01	4.2E-02	4.8E-08	1.4E-03	6.9E-03
196	4.7E-01	1.6E-02	1.0E-03	8.0E-06	1.6E-01	4.2E-02	5.3E-08	1.5E-03	7.6E-03
197	5.6E-01	1.6E-02	1.0E-03	9.6E-06	1.6E-01	4.2E-02	6.4E-08	1.8E-03	9.2E-03
198	6.1E-01	1.6E-02	1.0E-03	1.0E-05	1.6E-01	4.2E-02	6.8E-08	2.0E-03	9.9E-03
199	5.7E-01	1.6E-02	1.0E-03	9.8E-06	1.6E-01	4.2E-02	6.5E-08	1.9E-03	9.3E-03
200	5.3E-01	1.6E-02	1.0E-03	9.1E-06	1.6E-01	4.2E-02	6.0E-08	1.7E-03	8.7E-03
201	4.9E-01	1.6E-02	1.0E-03	8.4E-06	1.6E-01	4.2E-02	5.6E-08	1.6E-03	8.0E-03
202	4.5E-01	1.6E-02	1.0E-03	7.7E-06	1.6E-01	4.2E-02	5.1E-08	1.5E-03	7.3E-03
203	4.1E-01	1.6E-02	1.0E-03	6.9E-06	1.6E-01	4.2E-02	4.6E-08	1.3E-03	6.6E-03
204	2.0E-01	1.6E-02	1.0E-03	3.5E-06	1.6E-01	4.2E-02	2.3E-08	6.7E-04	3.3E-03
205	2.3E-01	1.6E-02	1.0E-03	3.8E-06	1.6E-01	4.2E-02	2.5E-08	7.3E-04	3.7E-03
206	2.5E-01	1.6E-02	1.0E-03	4.2E-06	1.6E-01	4.2E-02	2.8E-08	8.1E-04	4.0E-03
207	2.7E-01	1.6E-02	1.0E-03	4.7E-06	1.6E-01	4.2E-02	3.1E-08	9.0E-04	4.5E-03
208	3.0E-01	1.6E-02	1.0E-03	5.2E-06	1.6E-01	4.2E-02	3.4E-08	9.9E-04	4.9E-03
209	3.3E-01	1.6E-02	1.0E-03	5.6E-06	1.6E-01	4.2E-02	3.7E-08	1.1E-03	5.4E-03
210	3.6E-01	1.6E-02	1.0E-03	6.2E-06	1.6E-01	4.2E-02	4.1E-08	1.2E-03	5.9E-03
211	4.2E-01	1.6E-02	1.0E-03	7.2E-06	1.6E-01	4.2E-02	4.8E-08	1.4E-03	6.9E-03
212	4.5E-01	1.6E-02	1.0E-03	7.7E-06	1.6E-01	4.2E-02	5.1E-08	1.5E-03	7.3E-03
213	5.0E-01	1.6E-02	1.0E-03	8.5E-06	1.6E-01	4.2E-02	5.6E-08	1.6E-03	8.1E-03
214	5.0E-01	1.6E-02	1.0E-03	8.4E-06	1.6E-01	4.2E-02	5.6E-08	1.6E-03	8.1E-03
215	4.9E-01	1.6E-02	1.0E-03	8.3E-06	1.6E-01	4.2E-02	5.5E-08	1.6E-03	7.9E-03
216	4.7E-01	1.6E-02	1.0E-03	8.0E-06	1.6E-01	4.2E-02	5.3E-08	1.5E-03	7.6E-03
217	4.4E-01	1.6E-02	1.0E-03	7.5E-06	1.6E-01	4.2E-02	5.0E-08	1.4E-03	7.2E-03
218	4.2E-01	1.6E-02	1.0E-03	7.1E-06	1.6E-01	4.2E-02	4.7E-08	1.4E-03	6.8E-03
219	3.9E-01	1.6E-02	1.0E-03	6.6E-06	1.6E-01	4.2E-02	4.4E-08	1.3E-03	6.3E-03
220	3.5E-01	1.6E-02	1.0E-03	6.0E-06	1.6E-01	4.2E-02	4.0E-08	1.2E-03	5.8E-03
221	1.9E-01	1.6E-02	1.0E-03	3.2E-06	1.6E-01	4.2E-02	2.1E-08	6.1E-04	3.1E-03
222	2.1E-01	1.6E-02	1.0E-03	3.5E-06	1.6E-01	4.2E-02	2.3E-08	6.7E-04	3.4E-03
223	2.2E-01	1.6E-02	1.0E-03	3.8E-06	1.6E-01	4.2E-02	2.5E-08	7.3E-04	3.7E-03
224	2.5E-01	1.6E-02	1.0E-03	4.2E-06	1.6E-01	4.2E-02	2.8E-08	8.0E-04	4.0E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	1.6E-02	1.0E-03	4.5E-06	1.6E-01	4.2E-02	3.0E-08	8.7E-04	4.3E-03
226	3.1E-01	1.6E-02	1.0E-03	5.3E-06	1.6E-01	4.2E-02	3.5E-08	1.0E-03	5.1E-03
227	3.3E-01	1.6E-02	1.0E-03	5.7E-06	1.6E-01	4.2E-02	3.8E-08	1.1E-03	5.4E-03
228	3.5E-01	1.6E-02	1.0E-03	6.0E-06	1.6E-01	4.2E-02	4.0E-08	1.1E-03	5.7E-03
229	3.7E-01	1.6E-02	1.0E-03	6.3E-06	1.6E-01	4.2E-02	4.2E-08	1.2E-03	6.0E-03
230	4.0E-01	1.6E-02	1.0E-03	6.9E-06	1.6E-01	4.2E-02	4.5E-08	1.3E-03	6.6E-03
231	4.0E-01	1.6E-02	1.0E-03	6.8E-06	1.6E-01	4.2E-02	4.5E-08	1.3E-03	6.5E-03
232	4.0E-01	1.6E-02	1.0E-03	6.8E-06	1.6E-01	4.2E-02	4.5E-08	1.3E-03	6.5E-03
233	3.9E-01	1.6E-02	1.0E-03	6.6E-06	1.6E-01	4.2E-02	4.4E-08	1.3E-03	6.3E-03
234	3.7E-01	1.6E-02	1.0E-03	6.3E-06	1.6E-01	4.2E-02	4.2E-08	1.2E-03	6.0E-03
235	3.5E-01	1.6E-02	1.0E-03	6.0E-06	1.6E-01	4.2E-02	4.0E-08	1.2E-03	5.8E-03
236	3.3E-01	1.6E-02	1.0E-03	5.6E-06	1.6E-01	4.2E-02	3.7E-08	1.1E-03	5.4E-03
237	3.1E-01	1.6E-02	1.0E-03	5.3E-06	1.6E-01	4.2E-02	3.5E-08	1.0E-03	5.1E-03
238	1.8E+00	1.6E-02	1.0E-03	3.1E-05	1.6E-01	4.2E-02	2.0E-07	5.8E-03	2.9E-02
239	1.8E+00	1.6E-02	1.0E-03	3.1E-05	1.6E-01	4.2E-02	2.1E-07	5.9E-03	3.0E-02
240	1.9E+00	1.6E-02	1.0E-03	3.2E-05	1.6E-01	4.2E-02	2.1E-07	6.0E-03	3.0E-02
241	1.9E+00	1.6E-02	1.0E-03	3.2E-05	1.6E-01	4.2E-02	2.1E-07	6.1E-03	3.1E-02
242	1.9E+00	1.6E-02	1.0E-03	3.3E-05	1.6E-01	4.2E-02	2.2E-07	6.2E-03	3.1E-02
243	1.9E+00	1.6E-02	1.0E-03	3.3E-05	1.6E-01	4.2E-02	2.2E-07	6.3E-03	3.2E-02
244	2.0E+00	1.6E-02	1.0E-03	3.3E-05	1.6E-01	4.2E-02	2.2E-07	6.4E-03	3.2E-02
245	2.0E+00	1.6E-02	1.0E-03	3.4E-05	1.6E-01	4.2E-02	2.3E-07	6.5E-03	3.3E-02
246	2.0E+00	1.6E-02	1.0E-03	3.5E-05	1.6E-01	4.2E-02	2.3E-07	6.6E-03	3.3E-02
247	2.1E+00	1.6E-02	1.0E-03	3.5E-05	1.6E-01	4.2E-02	2.3E-07	6.7E-03	3.4E-02
248	2.1E+00	1.6E-02	1.0E-03	3.6E-05	1.6E-01	4.2E-02	2.4E-07	6.8E-03	3.4E-02
249	2.1E+00	1.6E-02	1.0E-03	3.6E-05	1.6E-01	4.2E-02	2.4E-07	6.9E-03	3.5E-02
250	2.2E+00	1.6E-02	1.0E-03	3.7E-05	1.6E-01	4.2E-02	2.4E-07	7.0E-03	3.5E-02
251	2.2E+00	1.6E-02	1.0E-03	3.7E-05	1.6E-01	4.2E-02	2.5E-07	7.1E-03	3.6E-02
252	2.2E+00	1.6E-02	1.0E-03	3.7E-05	1.6E-01	4.2E-02	2.5E-07	7.1E-03	3.6E-02
253	2.2E+00	1.6E-02	1.0E-03	3.8E-05	1.6E-01	4.2E-02	2.5E-07	7.3E-03	3.6E-02
254	2.3E+00	1.6E-02	1.0E-03	3.9E-05	1.6E-01	4.2E-02	2.6E-07	7.4E-03	3.7E-02
255	2.3E+00	1.6E-02	1.0E-03	3.9E-05	1.6E-01	4.2E-02	2.6E-07	7.5E-03	3.8E-02
256	2.3E+00	1.6E-02	1.0E-03	4.0E-05	1.6E-01	4.2E-02	2.6E-07	7.7E-03	3.8E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	1.6E-02	1.0E-03	4.1E-05	1.6E-01	4.2E-02	2.7E-07	7.8E-03	3.9E-02
258	2.4E+00	1.6E-02	1.0E-03	4.1E-05	1.6E-01	4.2E-02	2.7E-07	7.8E-03	3.9E-02
259	2.4E+00	1.6E-02	1.0E-03	4.1E-05	1.6E-01	4.2E-02	2.7E-07	7.9E-03	4.0E-02
260	2.5E+00	1.6E-02	1.0E-03	4.2E-05	1.6E-01	4.2E-02	2.8E-07	8.0E-03	4.0E-02
261	2.5E+00	1.6E-02	1.0E-03	4.3E-05	1.6E-01	4.2E-02	2.8E-07	8.2E-03	4.1E-02
262	2.6E+00	1.6E-02	1.0E-03	4.4E-05	1.6E-01	4.2E-02	2.9E-07	8.4E-03	4.2E-02
263	2.6E+00	1.6E-02	1.0E-03	4.4E-05	1.6E-01	4.2E-02	2.9E-07	8.5E-03	4.2E-02
264	2.6E+00	1.6E-02	1.0E-03	4.5E-05	1.6E-01	4.2E-02	3.0E-07	8.6E-03	4.3E-02
265	2.7E+00	1.6E-02	1.0E-03	4.6E-05	1.6E-01	4.2E-02	3.0E-07	8.7E-03	4.4E-02
266	2.7E+00	1.6E-02	1.0E-03	4.6E-05	1.6E-01	4.2E-02	3.1E-07	8.8E-03	4.4E-02
267	2.7E+00	1.6E-02	1.0E-03	4.6E-05	1.6E-01	4.2E-02	3.1E-07	8.9E-03	4.4E-02
268	2.7E+00	1.6E-02	1.0E-03	4.7E-05	1.6E-01	4.2E-02	3.1E-07	8.9E-03	4.5E-02
269	2.8E+00	1.6E-02	1.0E-03	4.7E-05	1.6E-01	4.2E-02	3.1E-07	9.0E-03	4.5E-02
270	2.8E+00	1.6E-02	1.0E-03	4.7E-05	1.6E-01	4.2E-02	3.1E-07	9.0E-03	4.5E-02
271	2.9E+00	1.6E-02	1.0E-03	5.0E-05	1.6E-01	4.2E-02	3.3E-07	9.5E-03	4.7E-02
272	3.0E+00	1.6E-02	1.0E-03	5.0E-05	1.6E-01	4.2E-02	3.3E-07	9.6E-03	4.8E-02
273	3.0E+00	1.6E-02	1.0E-03	5.1E-05	1.6E-01	4.2E-02	3.4E-07	9.7E-03	4.9E-02
274	3.0E+00	1.6E-02	1.0E-03	5.2E-05	1.6E-01	4.2E-02	3.4E-07	9.9E-03	4.9E-02
275	3.0E+00	1.6E-02	1.0E-03	5.2E-05	1.6E-01	4.2E-02	3.4E-07	9.9E-03	5.0E-02
276	3.1E+00	1.6E-02	1.0E-03	5.2E-05	1.6E-01	4.2E-02	3.5E-07	1.0E-02	5.0E-02
277	3.1E+00	1.6E-02	1.0E-03	5.2E-05	1.6E-01	4.2E-02	3.5E-07	1.0E-02	5.0E-02
278	3.1E+00	1.6E-02	1.0E-03	5.2E-05	1.6E-01	4.2E-02	3.5E-07	1.0E-02	5.0E-02
279	3.1E+00	1.6E-02	1.0E-03	5.2E-05	1.6E-01	4.2E-02	3.4E-07	1.0E-02	5.0E-02
280	3.0E+00	1.6E-02	1.0E-03	5.2E-05	1.6E-01	4.2E-02	3.4E-07	9.9E-03	4.9E-02
281	3.0E+00	1.6E-02	1.0E-03	5.1E-05	1.6E-01	4.2E-02	3.4E-07	9.8E-03	4.9E-02
282	3.4E+00	1.6E-02	1.0E-03	5.7E-05	1.6E-01	4.2E-02	3.8E-07	1.1E-02	5.5E-02
283	3.4E+00	1.6E-02	1.0E-03	5.8E-05	1.6E-01	4.2E-02	3.8E-07	1.1E-02	5.5E-02
284	3.4E+00	1.6E-02	1.0E-03	5.8E-05	1.6E-01	4.2E-02	3.9E-07	1.1E-02	5.6E-02
285	3.4E+00	1.6E-02	1.0E-03	5.8E-05	1.6E-01	4.2E-02	3.9E-07	1.1E-02	5.6E-02
286	3.4E+00	1.6E-02	1.0E-03	5.9E-05	1.6E-01	4.2E-02	3.9E-07	1.1E-02	5.6E-02
287	3.4E+00	1.6E-02	1.0E-03	5.8E-05	1.6E-01	4.2E-02	3.9E-07	1.1E-02	5.6E-02
288	3.4E+00	1.6E-02	1.0E-03	5.8E-05	1.6E-01	4.2E-02	3.8E-07	1.1E-02	5.6E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	1.6E-02	1.0E-03	5.7E-05	1.6E-01	4.2E-02	3.8E-07	1.1E-02	5.5E-02
290	3.3E+00	1.6E-02	1.0E-03	5.7E-05	1.6E-01	4.2E-02	3.8E-07	1.1E-02	5.4E-02
291	3.3E+00	1.6E-02	1.0E-03	5.6E-05	1.6E-01	4.2E-02	3.7E-07	1.1E-02	5.4E-02
292	3.3E+00	1.6E-02	1.0E-03	5.5E-05	1.6E-01	4.2E-02	3.7E-07	1.1E-02	5.3E-02
293	3.9E+00	1.6E-02	1.0E-03	6.6E-05	1.6E-01	4.2E-02	4.4E-07	1.3E-02	6.3E-02
294	3.9E+00	1.6E-02	1.0E-03	6.6E-05	1.6E-01	4.2E-02	4.4E-07	1.3E-02	6.3E-02
295	3.9E+00	1.6E-02	1.0E-03	6.6E-05	1.6E-01	4.2E-02	4.3E-07	1.3E-02	6.3E-02
296	3.8E+00	1.6E-02	1.0E-03	6.5E-05	1.6E-01	4.2E-02	4.3E-07	1.2E-02	6.2E-02
297	3.8E+00	1.6E-02	1.0E-03	6.4E-05	1.6E-01	4.2E-02	4.2E-07	1.2E-02	6.1E-02
298	3.7E+00	1.6E-02	1.0E-03	6.3E-05	1.6E-01	4.2E-02	4.2E-07	1.2E-02	6.1E-02
299	3.7E+00	1.6E-02	1.0E-03	6.2E-05	1.6E-01	4.2E-02	4.1E-07	1.2E-02	6.0E-02
300	3.6E+00	1.6E-02	1.0E-03	6.1E-05	1.6E-01	4.2E-02	4.1E-07	1.2E-02	5.9E-02
301	3.5E+00	1.6E-02	1.0E-03	6.0E-05	1.6E-01	4.2E-02	4.0E-07	1.2E-02	5.8E-02
302	3.5E+00	1.6E-02	1.0E-03	5.9E-05	1.6E-01	4.2E-02	3.9E-07	1.1E-02	5.6E-02
303	3.4E+00	1.6E-02	1.0E-03	5.8E-05	1.6E-01	4.2E-02	3.8E-07	1.1E-02	5.5E-02
304	4.4E+00	1.6E-02	1.0E-03	7.4E-05	1.6E-01	4.2E-02	4.9E-07	1.4E-02	7.1E-02
305	4.3E+00	1.6E-02	1.0E-03	7.3E-05	1.6E-01	4.2E-02	4.9E-07	1.4E-02	7.0E-02
306	4.2E+00	1.6E-02	1.0E-03	7.2E-05	1.6E-01	4.2E-02	4.8E-07	1.4E-02	6.9E-02
307	4.2E+00	1.6E-02	1.0E-03	7.1E-05	1.6E-01	4.2E-02	4.7E-07	1.4E-02	6.8E-02
308	4.1E+00	1.6E-02	1.0E-03	7.0E-05	1.6E-01	4.2E-02	4.6E-07	1.3E-02	6.7E-02
309	4.0E+00	1.6E-02	1.0E-03	6.8E-05	1.6E-01	4.2E-02	4.5E-07	1.3E-02	6.5E-02
310	3.9E+00	1.6E-02	1.0E-03	6.7E-05	1.6E-01	4.2E-02	4.4E-07	1.3E-02	6.4E-02
311	3.8E+00	1.6E-02	1.0E-03	6.5E-05	1.6E-01	4.2E-02	4.3E-07	1.2E-02	6.2E-02
312	3.7E+00	1.6E-02	1.0E-03	6.3E-05	1.6E-01	4.2E-02	4.2E-07	1.2E-02	6.1E-02
313	3.6E+00	1.6E-02	1.0E-03	6.2E-05	1.6E-01	4.2E-02	4.1E-07	1.2E-02	5.9E-02
314	3.5E+00	1.6E-02	1.0E-03	6.0E-05	1.6E-01	4.2E-02	4.0E-07	1.1E-02	5.7E-02
315	3.4E+00	1.6E-02	1.0E-03	5.8E-05	1.6E-01	4.2E-02	3.8E-07	1.1E-02	5.6E-02
316	4.7E+00	1.6E-02	1.0E-03	8.0E-05	1.6E-01	4.2E-02	5.3E-07	1.5E-02	7.7E-02
317	4.6E+00	1.6E-02	1.0E-03	7.8E-05	1.6E-01	4.2E-02	5.2E-07	1.5E-02	7.5E-02
318	4.5E+00	1.6E-02	1.0E-03	7.6E-05	1.6E-01	4.2E-02	5.0E-07	1.5E-02	7.3E-02
319	4.4E+00	1.6E-02	1.0E-03	7.4E-05	1.6E-01	4.2E-02	4.9E-07	1.4E-02	7.1E-02
320	4.2E+00	1.6E-02	1.0E-03	7.2E-05	1.6E-01	4.2E-02	4.8E-07	1.4E-02	6.9E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	1.6E-02	1.0E-03	7.0E-05	1.6E-01	4.2E-02	4.6E-07	1.3E-02	6.7E-02
322	4.0E+00	1.6E-02	1.0E-03	6.8E-05	1.6E-01	4.2E-02	4.5E-07	1.3E-02	6.5E-02
323	3.8E+00	1.6E-02	1.0E-03	6.5E-05	1.6E-01	4.2E-02	4.3E-07	1.3E-02	6.3E-02
324	3.7E+00	1.6E-02	1.0E-03	6.3E-05	1.6E-01	4.2E-02	4.2E-07	1.2E-02	6.0E-02
325	5.0E+00	1.6E-02	1.0E-03	8.5E-05	1.6E-01	4.2E-02	5.6E-07	1.6E-02	8.2E-02
326	4.9E+00	1.6E-02	1.0E-03	8.3E-05	1.6E-01	4.2E-02	5.5E-07	1.6E-02	7.9E-02
327	4.7E+00	1.6E-02	1.0E-03	8.0E-05	1.6E-01	4.2E-02	5.3E-07	1.5E-02	7.6E-02
328	4.5E+00	1.6E-02	1.0E-03	7.7E-05	1.6E-01	4.2E-02	5.1E-07	1.5E-02	7.4E-02
329	4.4E+00	1.6E-02	1.0E-03	7.4E-05	1.6E-01	4.2E-02	4.9E-07	1.4E-02	7.1E-02
330	4.2E+00	1.6E-02	1.0E-03	7.1E-05	1.6E-01	4.2E-02	4.7E-07	1.4E-02	6.8E-02
331	5.2E+00	1.6E-02	1.0E-03	8.9E-05	1.6E-01	4.2E-02	5.9E-07	1.7E-02	8.5E-02
332	5.0E+00	1.6E-02	1.0E-03	8.5E-05	1.6E-01	4.2E-02	5.6E-07	1.6E-02	8.2E-02
333	4.8E+00	1.6E-02	1.0E-03	8.2E-05	1.6E-01	4.2E-02	5.4E-07	1.6E-02	7.8E-02
334	4.6E+00	1.6E-02	1.0E-03	7.8E-05	1.6E-01	4.2E-02	5.2E-07	1.5E-02	7.5E-02
335	1.7E+00	1.6E-02	1.0E-03	3.0E-05	1.6E-01	4.2E-02	2.0E-07	5.7E-03	2.8E-02
336	1.8E+00	1.6E-02	1.0E-03	3.0E-05	1.6E-01	4.2E-02	2.0E-07	5.8E-03	2.9E-02
337	1.8E+00	1.6E-02	1.0E-03	3.1E-05	1.6E-01	4.2E-02	2.1E-07	5.9E-03	3.0E-02
338	1.9E+00	1.6E-02	1.0E-03	3.2E-05	1.6E-01	4.2E-02	2.1E-07	6.1E-03	3.0E-02
339	1.9E+00	1.6E-02	1.0E-03	3.2E-05	1.6E-01	4.2E-02	2.1E-07	6.1E-03	3.1E-02
340	1.9E+00	1.6E-02	1.0E-03	3.3E-05	1.6E-01	4.2E-02	2.2E-07	6.3E-03	3.2E-02
341	2.0E+00	1.6E-02	1.0E-03	3.4E-05	1.6E-01	4.2E-02	2.2E-07	6.5E-03	3.2E-02
342	2.0E+00	1.6E-02	1.0E-03	3.5E-05	1.6E-01	4.2E-02	2.3E-07	6.7E-03	3.3E-02
343	2.0E+00	1.6E-02	1.0E-03	3.5E-05	1.6E-01	4.2E-02	2.3E-07	6.7E-03	3.3E-02
344	2.1E+00	1.6E-02	1.0E-03	3.6E-05	1.6E-01	4.2E-02	2.4E-07	6.9E-03	3.4E-02
345	2.2E+00	1.6E-02	1.0E-03	3.7E-05	1.6E-01	4.2E-02	2.5E-07	7.1E-03	3.5E-02
346	2.2E+00	1.6E-02	1.0E-03	3.8E-05	1.6E-01	4.2E-02	2.5E-07	7.3E-03	3.7E-02
347	2.2E+00	1.6E-02	1.0E-03	3.8E-05	1.6E-01	4.2E-02	2.5E-07	7.2E-03	3.6E-02
348	2.3E+00	1.6E-02	1.0E-03	3.9E-05	1.6E-01	4.2E-02	2.6E-07	7.5E-03	3.8E-02
349	2.4E+00	1.6E-02	1.0E-03	4.1E-05	1.6E-01	4.2E-02	2.7E-07	7.8E-03	3.9E-02
350	2.5E+00	1.6E-02	1.0E-03	4.2E-05	1.6E-01	4.2E-02	2.8E-07	8.1E-03	4.0E-02
351	2.4E+00	1.6E-02	1.0E-03	4.1E-05	1.6E-01	4.2E-02	2.7E-07	7.9E-03	3.9E-02
352	2.5E+00	1.6E-02	1.0E-03	4.3E-05	1.6E-01	4.2E-02	2.9E-07	8.3E-03	4.1E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	1.6E-02	1.0E-03	4.5E-05	1.6E-01	4.2E-02	3.0E-07	8.6E-03	4.3E-02
354	2.7E+00	1.6E-02	1.0E-03	4.7E-05	1.6E-01	4.2E-02	3.1E-07	8.9E-03	4.5E-02
355	2.6E+00	1.6E-02	1.0E-03	4.5E-05	1.6E-01	4.2E-02	3.0E-07	8.6E-03	4.3E-02
356	2.8E+00	1.6E-02	1.0E-03	4.7E-05	1.6E-01	4.2E-02	3.1E-07	9.0E-03	4.5E-02
357	2.9E+00	1.6E-02	1.0E-03	5.0E-05	1.6E-01	4.2E-02	3.3E-07	9.5E-03	4.7E-02
358	3.0E+00	1.6E-02	1.0E-03	5.2E-05	1.6E-01	4.2E-02	3.4E-07	9.9E-03	5.0E-02
359	2.9E+00	1.6E-02	1.0E-03	4.9E-05	1.6E-01	4.2E-02	3.3E-07	9.5E-03	4.7E-02
360	3.1E+00	1.6E-02	1.0E-03	5.2E-05	1.6E-01	4.2E-02	3.5E-07	1.0E-02	5.0E-02
361	3.2E+00	1.6E-02	1.0E-03	5.5E-05	1.6E-01	4.2E-02	3.6E-07	1.0E-02	5.2E-02
362	3.4E+00	1.6E-02	1.0E-03	5.8E-05	1.6E-01	4.2E-02	3.8E-07	1.1E-02	5.5E-02
363	3.2E+00	1.6E-02	1.0E-03	5.4E-05	1.6E-01	4.2E-02	3.6E-07	1.0E-02	5.2E-02
364	3.4E+00	1.6E-02	1.0E-03	5.8E-05	1.6E-01	4.2E-02	3.8E-07	1.1E-02	5.5E-02
365	3.6E+00	1.6E-02	1.0E-03	6.1E-05	1.6E-01	4.2E-02	4.1E-07	1.2E-02	5.9E-02
366	3.8E+00	1.6E-02	1.0E-03	6.5E-05	1.6E-01	4.2E-02	4.3E-07	1.2E-02	6.2E-02
367	3.5E+00	1.6E-02	1.0E-03	6.0E-05	1.6E-01	4.2E-02	3.9E-07	1.1E-02	5.7E-02
368	3.7E+00	1.6E-02	1.0E-03	6.4E-05	1.6E-01	4.2E-02	4.2E-07	1.2E-02	6.1E-02
369	4.0E+00	1.6E-02	1.0E-03	6.8E-05	1.6E-01	4.2E-02	4.5E-07	1.3E-02	6.5E-02
370	4.3E+00	1.6E-02	1.0E-03	7.3E-05	1.6E-01	4.2E-02	4.8E-07	1.4E-02	7.0E-02
371	3.8E+00	1.6E-02	1.0E-03	6.5E-05	1.6E-01	4.2E-02	4.3E-07	1.2E-02	6.2E-02
372	4.1E+00	1.6E-02	1.0E-03	7.1E-05	1.6E-01	4.2E-02	4.7E-07	1.4E-02	6.8E-02
373	4.5E+00	1.6E-02	1.0E-03	7.6E-05	1.6E-01	4.2E-02	5.1E-07	1.5E-02	7.3E-02
374	4.8E+00	1.6E-02	1.0E-03	8.2E-05	1.6E-01	4.2E-02	5.5E-07	1.6E-02	7.9E-02
375	4.2E+00	1.6E-02	1.0E-03	7.1E-05	1.6E-01	4.2E-02	4.7E-07	1.4E-02	6.8E-02
376	4.6E+00	1.6E-02	1.0E-03	7.8E-05	1.6E-01	4.2E-02	5.2E-07	1.5E-02	7.4E-02
377	5.0E+00	1.6E-02	1.0E-03	8.5E-05	1.6E-01	4.2E-02	5.6E-07	1.6E-02	8.1E-02
378	5.5E+00	1.6E-02	1.0E-03	9.3E-05	1.6E-01	4.2E-02	6.2E-07	1.8E-02	8.9E-02
379	4.5E+00	1.6E-02	1.0E-03	7.7E-05	1.6E-01	4.2E-02	5.1E-07	1.5E-02	7.4E-02
380	5.0E+00	1.6E-02	1.0E-03	8.6E-05	1.6E-01	4.2E-02	5.7E-07	1.6E-02	8.2E-02
381	5.6E+00	1.6E-02	1.0E-03	9.5E-05	1.6E-01	4.2E-02	6.3E-07	1.8E-02	9.1E-02
382	6.2E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.0E-07	2.0E-02	1.0E-01
383	4.9E+00	1.6E-02	1.0E-03	8.4E-05	1.6E-01	4.2E-02	5.5E-07	1.6E-02	8.0E-02
384	5.5E+00	1.6E-02	1.0E-03	9.3E-05	1.6E-01	4.2E-02	6.2E-07	1.8E-02	8.9E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	1.6E-02	1.0E-03	1.0E-04	1.6E-01	4.2E-02	6.9E-07	2.0E-02	1.0E-01
386	6.9E+00	1.6E-02	1.0E-03	1.2E-04	1.6E-01	4.2E-02	7.8E-07	2.3E-02	1.1E-01
387	5.2E+00	1.6E-02	1.0E-03	8.9E-05	1.6E-01	4.2E-02	5.9E-07	1.7E-02	8.5E-02
388	5.9E+00	1.6E-02	1.0E-03	1.0E-04	1.6E-01	4.2E-02	6.7E-07	1.9E-02	9.6E-02
389	6.7E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.6E-07	2.2E-02	1.1E-01
390	7.7E+00	1.6E-02	1.0E-03	1.3E-04	1.6E-01	4.2E-02	8.7E-07	2.5E-02	1.3E-01
391	5.6E+00	1.6E-02	1.0E-03	9.5E-05	1.6E-01	4.2E-02	6.3E-07	1.8E-02	9.1E-02
392	6.3E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.1E-07	2.1E-02	1.0E-01
393	7.2E+00	1.6E-02	1.0E-03	1.2E-04	1.6E-01	4.2E-02	8.2E-07	2.4E-02	1.2E-01
394	8.4E+00	1.6E-02	1.0E-03	1.4E-04	1.6E-01	4.2E-02	9.5E-07	2.7E-02	1.4E-01
395	5.8E+00	1.6E-02	1.0E-03	9.9E-05	1.6E-01	4.2E-02	6.6E-07	1.9E-02	9.5E-02
396	6.7E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.5E-07	2.2E-02	1.1E-01
397	7.7E+00	1.6E-02	1.0E-03	1.3E-04	1.6E-01	4.2E-02	8.7E-07	2.5E-02	1.3E-01
398	9.1E+00	1.6E-02	1.0E-03	1.5E-04	1.6E-01	4.2E-02	1.0E-06	2.9E-02	1.5E-01
399	6.0E+00	1.6E-02	1.0E-03	1.0E-04	1.6E-01	4.2E-02	6.8E-07	2.0E-02	9.8E-02
400	7.0E+00	1.6E-02	1.0E-03	1.2E-04	1.6E-01	4.2E-02	7.9E-07	2.3E-02	1.1E-01
401	8.1E+00	1.6E-02	1.0E-03	1.4E-04	1.6E-01	4.2E-02	9.1E-07	2.6E-02	1.3E-01
402	9.6E+00	1.6E-02	1.0E-03	1.6E-04	1.6E-01	4.2E-02	1.1E-06	3.1E-02	1.6E-01
403	6.2E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.0E-07	2.0E-02	1.0E-01
404	7.2E+00	1.6E-02	1.0E-03	1.2E-04	1.6E-01	4.2E-02	8.1E-07	2.3E-02	1.2E-01
405	8.4E+00	1.6E-02	1.0E-03	1.4E-04	1.6E-01	4.2E-02	9.5E-07	2.7E-02	1.4E-01
406	1.0E+01	1.6E-02	1.0E-03	1.7E-04	1.6E-01	4.2E-02	1.1E-06	3.3E-02	1.6E-01
407	6.3E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.1E-07	2.1E-02	1.0E-01
408	7.4E+00	1.6E-02	1.0E-03	1.3E-04	1.6E-01	4.2E-02	8.3E-07	2.4E-02	1.2E-01
409	8.7E+00	1.6E-02	1.0E-03	1.5E-04	1.6E-01	4.2E-02	9.8E-07	2.8E-02	1.4E-01
410	1.0E+01	1.6E-02	1.0E-03	1.8E-04	1.6E-01	4.2E-02	1.2E-06	3.4E-02	1.7E-01
411	6.4E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.2E-07	2.1E-02	1.0E-01
412	7.5E+00	1.6E-02	1.0E-03	1.3E-04	1.6E-01	4.2E-02	8.4E-07	2.4E-02	1.2E-01
413	8.8E+00	1.6E-02	1.0E-03	1.5E-04	1.6E-01	4.2E-02	1.0E-06	2.9E-02	1.4E-01
414	1.1E+01	1.6E-02	1.0E-03	1.8E-04	1.6E-01	4.2E-02	1.2E-06	3.5E-02	1.7E-01
415	6.4E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.2E-07	2.1E-02	1.0E-01
416	7.5E+00	1.6E-02	1.0E-03	1.3E-04	1.6E-01	4.2E-02	8.5E-07	2.4E-02	1.2E-01

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	1.6E-02	1.0E-03	1.5E-04	1.6E-01	4.2E-02	1.0E-06	2.9E-02	1.4E-01
418	1.1E+01	1.6E-02	1.0E-03	1.8E-04	1.6E-01	4.2E-02	1.2E-06	3.5E-02	1.7E-01
419	6.4E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.2E-07	2.1E-02	1.0E-01
420	7.5E+00	1.6E-02	1.0E-03	1.3E-04	1.6E-01	4.2E-02	8.4E-07	2.4E-02	1.2E-01
421	8.9E+00	1.6E-02	1.0E-03	1.5E-04	1.6E-01	4.2E-02	1.0E-06	2.9E-02	1.4E-01
422	1.1E+01	1.6E-02	1.0E-03	1.8E-04	1.6E-01	4.2E-02	1.2E-06	3.5E-02	1.7E-01
423	6.3E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.0E-07	2.0E-02	1.0E-01
424	7.4E+00	1.6E-02	1.0E-03	1.3E-04	1.6E-01	4.2E-02	8.3E-07	2.4E-02	1.2E-01
425	8.8E+00	1.6E-02	1.0E-03	1.5E-04	1.6E-01	4.2E-02	9.9E-07	2.9E-02	1.4E-01
426	1.1E+01	1.6E-02	1.0E-03	1.8E-04	1.6E-01	4.2E-02	1.2E-06	3.5E-02	1.7E-01
427	6.1E+00	1.6E-02	1.0E-03	1.0E-04	1.6E-01	4.2E-02	6.9E-07	2.0E-02	9.9E-02
428	7.2E+00	1.6E-02	1.0E-03	1.2E-04	1.6E-01	4.2E-02	8.1E-07	2.3E-02	1.2E-01
429	8.6E+00	1.6E-02	1.0E-03	1.5E-04	1.6E-01	4.2E-02	9.6E-07	2.8E-02	1.4E-01
430	1.0E+01	1.6E-02	1.0E-03	1.8E-04	1.6E-01	4.2E-02	1.2E-06	3.4E-02	1.7E-01
431	5.9E+00	1.6E-02	1.0E-03	1.0E-04	1.6E-01	4.2E-02	6.6E-07	1.9E-02	9.6E-02
432	6.9E+00	1.6E-02	1.0E-03	1.2E-04	1.6E-01	4.2E-02	7.8E-07	2.3E-02	1.1E-01
433	8.3E+00	1.6E-02	1.0E-03	1.4E-04	1.6E-01	4.2E-02	9.3E-07	2.7E-02	1.3E-01
434	1.0E+01	1.6E-02	1.0E-03	1.7E-04	1.6E-01	4.2E-02	1.1E-06	3.3E-02	1.6E-01
435	5.6E+00	1.6E-02	1.0E-03	9.6E-05	1.6E-01	4.2E-02	6.4E-07	1.8E-02	9.2E-02
436	6.6E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.5E-07	2.2E-02	1.1E-01
437	7.9E+00	1.6E-02	1.0E-03	1.3E-04	1.6E-01	4.2E-02	8.9E-07	2.6E-02	1.3E-01
438	9.6E+00	1.6E-02	1.0E-03	1.6E-04	1.6E-01	4.2E-02	1.1E-06	3.1E-02	1.6E-01
439	5.4E+00	1.6E-02	1.0E-03	9.1E-05	1.6E-01	4.2E-02	6.0E-07	1.7E-02	8.7E-02
440	6.3E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.1E-07	2.0E-02	1.0E-01
441	7.4E+00	1.6E-02	1.0E-03	1.3E-04	1.6E-01	4.2E-02	8.4E-07	2.4E-02	1.2E-01
442	9.0E+00	1.6E-02	1.0E-03	1.5E-04	1.6E-01	4.2E-02	1.0E-06	2.9E-02	1.5E-01
443	5.0E+00	1.6E-02	1.0E-03	8.6E-05	1.6E-01	4.2E-02	5.7E-07	1.6E-02	8.2E-02
444	5.9E+00	1.6E-02	1.0E-03	1.0E-04	1.6E-01	4.2E-02	6.6E-07	1.9E-02	9.5E-02
445	6.9E+00	1.6E-02	1.0E-03	1.2E-04	1.6E-01	4.2E-02	7.8E-07	2.2E-02	1.1E-01
446	8.3E+00	1.6E-02	1.0E-03	1.4E-04	1.6E-01	4.2E-02	9.4E-07	2.7E-02	1.4E-01
447	4.7E+00	1.6E-02	1.0E-03	8.0E-05	1.6E-01	4.2E-02	5.3E-07	1.5E-02	7.7E-02
448	5.4E+00	1.6E-02	1.0E-03	9.3E-05	1.6E-01	4.2E-02	6.1E-07	1.8E-02	8.9E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	1.6E-02	1.0E-03	1.1E-04	1.6E-01	4.2E-02	7.2E-07	2.1E-02	1.0E-01
450	7.6E+00	1.6E-02	1.0E-03	1.3E-04	1.6E-01	4.2E-02	8.5E-07	2.5E-02	1.2E-01
451	4.4E-01	1.6E-02	1.0E-03	7.5E-06	1.6E-01	4.2E-02	5.0E-08	1.4E-03	7.2E-03
452	4.4E-01	1.6E-02	1.0E-03	7.5E-06	1.6E-01	4.2E-02	5.0E-08	1.4E-03	7.2E-03
453	4.4E-01	1.6E-02	1.0E-03	7.6E-06	1.6E-01	4.2E-02	5.0E-08	1.5E-03	7.3E-03
454	4.5E-01	1.6E-02	1.0E-03	7.6E-06	1.6E-01	4.2E-02	5.0E-08	1.5E-03	7.3E-03
455	5.4E-01	1.6E-02	1.0E-03	9.2E-06	1.6E-01	4.2E-02	6.1E-08	1.8E-03	8.8E-03
456	5.4E-01	1.6E-02	1.0E-03	9.2E-06	1.6E-01	4.2E-02	6.1E-08	1.8E-03	8.8E-03
457	5.5E-01	1.6E-02	1.0E-03	9.3E-06	1.6E-01	4.2E-02	6.1E-08	1.8E-03	8.9E-03
458	5.4E-01	1.6E-02	1.0E-03	9.2E-06	1.6E-01	4.2E-02	6.1E-08	1.8E-03	8.8E-03
459	6.8E-01	1.6E-02	1.0E-03	1.2E-05	1.6E-01	4.2E-02	7.7E-08	2.2E-03	1.1E-02
460	6.8E-01	1.6E-02	1.0E-03	1.2E-05	1.6E-01	4.2E-02	7.7E-08	2.2E-03	1.1E-02
461	6.8E-01	1.6E-02	1.0E-03	1.2E-05	1.6E-01	4.2E-02	7.7E-08	2.2E-03	1.1E-02
462	7.8E-01	1.6E-02	1.0E-03	1.3E-05	1.6E-01	4.2E-02	8.8E-08	2.6E-03	1.3E-02
463	9.7E-01	1.6E-02	1.0E-03	1.6E-05	1.6E-01	4.2E-02	1.1E-07	3.2E-03	1.6E-02
464	7.9E-01	1.6E-02	1.0E-03	1.3E-05	1.6E-01	4.2E-02	8.9E-08	2.6E-03	1.3E-02
465	1.0E+00	1.6E-02	1.0E-03	1.7E-05	1.6E-01	4.2E-02	1.1E-07	3.3E-03	1.6E-02
466	1.3E+00	1.6E-02	1.0E-03	2.2E-05	1.6E-01	4.2E-02	1.5E-07	4.3E-03	2.1E-02
467	1.8E+00	1.6E-02	1.0E-03	3.0E-05	1.6E-01	4.2E-02	2.0E-07	5.8E-03	2.9E-02
468	7.7E-01	1.6E-02	1.0E-03	1.3E-05	1.6E-01	4.2E-02	8.7E-08	2.5E-03	1.3E-02
469	9.8E-01	1.6E-02	1.0E-03	1.7E-05	1.6E-01	4.2E-02	1.1E-07	3.2E-03	1.6E-02
470	1.3E+00	1.6E-02	1.0E-03	2.2E-05	1.6E-01	4.2E-02	1.5E-07	4.3E-03	2.1E-02
471	1.8E+00	1.6E-02	1.0E-03	3.1E-05	1.6E-01	4.2E-02	2.1E-07	6.0E-03	3.0E-02
472	9.2E-01	1.6E-02	1.0E-03	1.6E-05	1.6E-01	4.2E-02	1.0E-07	3.0E-03	1.5E-02
473	1.2E+00	1.6E-02	1.0E-03	2.1E-05	1.6E-01	4.2E-02	1.4E-07	4.0E-03	2.0E-02
474	1.7E+00	1.6E-02	1.0E-03	3.0E-05	1.6E-01	4.2E-02	2.0E-07	5.7E-03	2.8E-02
475	8.3E-01	1.6E-02	1.0E-03	1.4E-05	1.6E-01	4.2E-02	9.4E-08	2.7E-03	1.4E-02
476	1.1E+00	1.6E-02	1.0E-03	1.9E-05	1.6E-01	4.2E-02	1.2E-07	3.6E-03	1.8E-02
477	1.5E+00	1.6E-02	1.0E-03	2.6E-05	1.6E-01	4.2E-02	1.7E-07	5.0E-03	2.5E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
1	2.8E+00	1.2E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12
2	2.9E+00	1.2E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	2.9E+00	2.3E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12
3	3.1E+00	1.2E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.6E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12
4	3.2E+00	1.2E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	3.3E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	4.2E-02	5.1E-12
5	3.3E+00	1.2E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.9E-12	3.5E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12
6	3.5E+00	1.2E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	3.7E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12
7	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	3.9E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12
8	3.8E+00	1.2E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.3E-12	4.1E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12
9	3.9E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
10	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.4E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12
11	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.4E-12	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
12	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.4E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.8E-12
13	3.9E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
14	3.9E+00	1.2E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.0E-12
15	2.9E+00	1.2E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	4.1E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.4E-12
16	2.8E+00	1.2E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	3.8E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	6.0E-12
17	3.1E+00	1.2E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.6E-12	2.9E+00	2.3E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12
18	3.3E+00	1.2E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12
19	3.4E+00	1.2E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	3.4E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12
20	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	3.6E+00	2.3E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12
21	3.8E+00	1.2E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	3.9E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12
22	4.0E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	4.1E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12
23	4.6E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12
24	4.5E+00	1.2E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	6.1E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12
25	3.5E+00	1.2E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
26	3.3E+00	1.2E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
27	3.1E+00	1.2E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.6E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
28	3.4E+00	1.2E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12
29	3.8E+00	1.2E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	3.7E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12
30	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	4.0E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12
31	4.3E+00	1.2E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
32	4.6E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
33	4.8E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.1E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
34	5.0E+00	1.2E-07	1.0E-03	6.5E-10	1.6E-01	4.2E-02	4.3E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
35	5.3E+00	1.2E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
36	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12
37	5.5E+00	1.2E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	7.1E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
38	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	7.4E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11
39	5.3E+00	1.2E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
40	4.0E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
41	3.7E+00	1.2E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12
42	3.4E+00	1.2E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
43	3.7E+00	1.2E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	3.3E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	4.2E-02	5.1E-12
44	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.5E-12	3.6E+00	2.3E-07	1.0E-03	8.5E-10	1.6E-01	4.2E-02	5.6E-12
45	4.3E+00	1.2E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	4.0E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12
46	5.0E+00	1.2E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
47	5.3E+00	1.2E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12	5.3E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.3E-12
48	5.6E+00	1.2E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12
49	5.9E+00	1.2E-07	1.0E-03	7.7E-10	1.6E-01	4.2E-02	5.1E-12	6.3E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12
50	6.2E+00	1.2E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
51	6.5E+00	1.2E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.5E-12	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
52	6.6E+00	1.2E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12	8.8E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
53	6.5E+00	1.2E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.6E-12	9.2E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11
54	6.3E+00	1.2E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12	9.4E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11
55	6.0E+00	1.2E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.2E-12	9.3E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11
56	5.7E+00	1.2E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12	9.0E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
57	4.5E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
58	4.2E+00	1.2E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	6.5E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
59	3.8E+00	1.2E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.2E-12
60	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	3.4E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12
61	4.5E+00	1.2E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	3.7E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	4.2E-02	5.9E-12
62	4.9E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	4.2E+00	2.3E-07	1.0E-03	9.9E-10	1.6E-01	4.2E-02	6.6E-12
63	5.3E+00	1.2E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.5E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
64	5.7E+00	1.2E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	4.9E-12	5.3E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
65	7.0E+00	1.2E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.1E-12	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
66	7.5E+00	1.2E-07	1.0E-03	9.8E-10	1.6E-01	4.2E-02	6.5E-12	8.2E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
67	7.9E+00	1.2E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12	9.0E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
68	8.1E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	1.1E+01	2.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
69	7.9E+00	1.2E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
70	7.6E+00	1.2E-07	1.0E-03	9.9E-10	1.6E-01	4.2E-02	6.6E-12	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
71	7.2E+00	1.2E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
72	6.8E+00	1.2E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
73	4.4E+00	1.2E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12
74	4.9E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12
75	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
76	6.0E+00	1.2E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.2E-12	4.9E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.7E-12
77	6.7E+00	1.2E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12	5.7E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12
78	7.3E+00	1.2E-07	1.0E-03	9.5E-10	1.6E-01	4.2E-02	6.3E-12	6.5E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
79	8.0E+00	1.2E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12	7.4E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11
80	9.9E+00	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12	1.1E+01	2.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
81	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
82	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
83	9.5E+00	1.2E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
84	8.9E+00	1.2E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.6E-12	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
85	8.2E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
86	4.5E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	3.4E+00	2.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.3E-12
87	5.2E+00	1.2E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	3.9E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12
88	6.0E+00	1.2E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.1E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
89	6.8E+00	1.2E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.0E-12
90	7.7E+00	1.2E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.6E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
91	8.7E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
92	9.7E+00	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12	8.1E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
93	1.1E+01	1.2E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.2E-12	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
94	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
95	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.6E-12	2.6E+01	2.3E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11
96	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	4.2E-02	3.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
97	4.8E+00	1.2E-07	1.0E-03	6.2E-10	1.6E-01	4.2E-02	4.1E-12	3.4E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12
98	5.5E+00	1.2E-07	1.0E-03	7.2E-10	1.6E-01	4.2E-02	4.8E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12
99	6.4E+00	1.2E-07	1.0E-03	8.3E-10	1.6E-01	4.2E-02	5.5E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
100	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
101	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
102	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	1.1E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11
103	1.6E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
104	4.8E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.2E-12
105	5.7E+00	1.2E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12	3.8E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	5.9E-12
106	6.7E+00	1.2E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
107	1.8E+01	1.2E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
108	2.1E+01	1.2E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
109	4.7E+00	1.2E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.1E-12	3.2E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	5.0E-12
110	5.6E+00	1.2E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12	3.7E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12
111	6.8E+00	1.2E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
112	2.3E+01	1.2E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
113	3.0E+01	1.2E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
114	4.5E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12
115	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	3.5E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	4.2E-02	5.5E-12
116	6.6E+00	1.2E-07	1.0E-03	8.5E-10	1.6E-01	4.2E-02	5.6E-12	4.1E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12
117	8.1E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
118	2.7E+01	1.2E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
119	4.2E+01	1.2E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
120	4.3E+00	1.2E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	2.9E+00	2.3E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12
121	5.1E+00	1.2E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12	3.3E+00	2.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12
122	6.2E+00	1.2E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	3.9E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12
123	7.6E+00	1.2E-07	1.0E-03	9.9E-10	1.6E-01	4.2E-02	6.5E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.1E-12
124	2.7E+01	1.2E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	1.0E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11
125	4.8E+01	1.2E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
126	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	2.8E+00	2.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12
127	4.8E+00	1.2E-07	1.0E-03	6.2E-10	1.6E-01	4.2E-02	4.1E-12	3.2E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	5.0E-12
128	5.7E+00	1.2E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	4.9E-12	3.7E+00	2.3E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
129	7.1E+00	1.2E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
130	8.9E+00	1.2E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.6E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
131	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	6.1E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12
132	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
133	2.4E+01	1.2E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
134	4.0E+01	1.2E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.5E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
135	8.8E+01	1.2E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.6E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11
136	3.8E+00	1.2E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	2.7E+00	2.3E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12
137	4.5E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	3.0E+00	2.3E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12
138	5.3E+00	1.2E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12
139	6.5E+00	1.2E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.6E-12	4.0E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.3E-12
140	8.1E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
141	1.0E+01	1.2E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12
142	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
143	2.0E+01	1.2E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	8.6E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
144	3.0E+01	1.2E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11	1.1E+01	2.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
145	5.2E+01	1.2E-07	1.0E-03	6.7E-09	1.6E-01	4.2E-02	4.4E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
146	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	2.5E+00	2.3E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12
147	4.2E+00	1.2E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.6E-12	2.9E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12
148	5.0E+00	1.2E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12	3.2E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	4.2E-02	5.1E-12
149	6.0E+00	1.2E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.2E-12	3.8E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	4.2E-02	5.9E-12
150	7.3E+00	1.2E-07	1.0E-03	9.5E-10	1.6E-01	4.2E-02	6.3E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
151	9.2E+00	1.2E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.1E-12
152	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.7E-12
153	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	7.6E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
154	2.2E+01	1.2E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11	9.5E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11
155	3.2E+01	1.2E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
156	3.4E+00	1.2E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	2.4E+00	2.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12
157	4.0E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12
158	4.6E+00	1.2E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12	3.1E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	4.2E-02	4.8E-12
159	5.5E+00	1.2E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	3.5E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	4.2E-02	5.5E-12
160	6.6E+00	1.2E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.3E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
161	8.1E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
162	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12
163	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
164	1.6E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11	8.1E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
165	2.1E+01	1.2E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11	1.0E+01	2.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
166	3.2E+00	1.2E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	2.3E+00	2.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12
167	3.7E+00	1.2E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	2.6E+00	2.3E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12
168	4.2E+00	1.2E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.7E-12	2.9E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12
169	5.0E+00	1.2E-07	1.0E-03	6.5E-10	1.6E-01	4.2E-02	4.3E-12	3.3E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	4.2E-02	5.1E-12
170	5.9E+00	1.2E-07	1.0E-03	7.6E-10	1.6E-01	4.2E-02	5.1E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12
171	7.0E+00	1.2E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.1E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
172	8.5E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.8E-12
173	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
174	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
175	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	8.3E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
176	3.0E+00	1.2E-07	1.0E-03	3.9E-10	1.6E-01	4.2E-02	2.6E-12	2.2E+00	2.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12
177	3.4E+00	1.2E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	2.4E+00	2.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12
178	3.9E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.3E-12	2.7E+00	2.3E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12
179	4.5E+00	1.2E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.9E-12	3.0E+00	2.3E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12
180	5.2E+00	1.2E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.3E-12
181	6.1E+00	1.2E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12	3.9E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.1E-12
182	7.2E+00	1.2E-07	1.0E-03	9.3E-10	1.6E-01	4.2E-02	6.2E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
183	8.4E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
184	9.8E+00	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.2E-12
185	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.7E-12	6.8E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
186	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.4E-12
187	4.6E+00	1.2E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	3.9E-12	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12
188	3.9E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12
189	2.8E+00	1.2E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	2.0E+00	2.3E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12
190	3.1E+00	1.2E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	2.3E+00	2.3E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12
191	3.6E+00	1.2E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.1E-12	2.5E+00	2.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12
192	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.5E-12	2.8E+00	2.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
193	4.6E+00	1.2E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12
194	5.3E+00	1.2E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.5E-12	3.5E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.5E-12
195	6.1E+00	1.2E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	4.2E-02	6.1E-12
196	6.9E+00	1.2E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	6.0E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
197	8.6E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12	5.7E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12
198	7.1E+00	1.2E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
199	6.2E+00	1.2E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.7E-12
200	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12
201	4.7E+00	1.2E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.0E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
202	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
203	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	4.2E-02	6.3E-12
204	2.6E+00	1.2E-07	1.0E-03	3.4E-10	1.6E-01	4.2E-02	2.2E-12	1.9E+00	2.3E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.0E-12
205	2.9E+00	1.2E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	2.1E+00	2.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12
206	3.2E+00	1.2E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	2.3E+00	2.3E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.6E-12
207	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	2.6E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.0E-12
208	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	2.8E+00	2.3E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.4E-12
209	4.6E+00	1.2E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12
210	5.2E+00	1.2E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.5E-12	3.5E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	4.2E-02	5.5E-12
211	6.3E+00	1.2E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
212	6.7E+00	1.2E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
213	6.6E+00	1.2E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12
214	6.2E+00	1.2E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.3E-12	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12
215	5.8E+00	1.2E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	4.9E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12
216	5.2E+00	1.2E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.4E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
217	4.6E+00	1.2E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12
218	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
219	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	3.9E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12
220	3.2E+00	1.2E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12
221	2.4E+00	1.2E-07	1.0E-03	3.1E-10	1.6E-01	4.2E-02	2.1E-12	1.8E+00	2.3E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.8E-12
222	2.7E+00	1.2E-07	1.0E-03	3.5E-10	1.6E-01	4.2E-02	2.3E-12	2.0E+00	2.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12
223	3.0E+00	1.2E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	2.2E+00	2.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12
224	3.3E+00	1.2E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.8E-12	2.4E+00	2.3E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
225	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	2.6E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.1E-12
226	4.5E+00	1.2E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12
227	4.9E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12
228	5.2E+00	1.2E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.4E-12	3.7E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.8E-12
229	5.5E+00	1.2E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	4.2E-02	6.3E-12
230	5.3E+00	1.2E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
231	5.0E+00	1.2E-07	1.0E-03	6.5E-10	1.6E-01	4.2E-02	4.3E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
232	4.8E+00	1.2E-07	1.0E-03	6.2E-10	1.6E-01	4.2E-02	4.1E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
233	4.3E+00	1.2E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	4.2E+00	2.3E-07	1.0E-03	9.9E-10	1.6E-01	4.2E-02	6.5E-12
234	3.9E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	4.2E-02	6.2E-12
235	3.6E+00	1.2E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.1E-12	3.7E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12
236	3.2E+00	1.2E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	3.3E+00	2.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12
237	2.9E+00	1.2E-07	1.0E-03	3.7E-10	1.6E-01	4.2E-02	2.5E-12	3.1E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	4.2E-02	4.8E-12
238	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
239	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
240	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
241	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
242	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
243	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.7E-12	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
244	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
245	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
246	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
247	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
248	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
249	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
250	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
251	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
252	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
253	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
254	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
255	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11
256	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
257	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
258	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	2.0E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.1E-11
259	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
260	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.3E-11
261	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
262	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
263	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
264	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
265	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
266	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.2E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.4E-11
267	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.2E+01	2.3E-07	1.0E-03	5.3E-09	1.6E-01	4.2E-02	3.5E-11
268	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.3E+01	2.3E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11
269	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.4E+01	2.3E-07	1.0E-03	5.6E-09	1.6E-01	4.2E-02	3.7E-11
270	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	2.4E+01	2.3E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11
271	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.3E-11
272	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.2E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.4E-11
273	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.2E+01	2.3E-07	1.0E-03	5.3E-09	1.6E-01	4.2E-02	3.5E-11
274	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.3E+01	2.3E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11
275	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.4E+01	2.3E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11
276	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.5E+01	2.3E-07	1.0E-03	5.9E-09	1.6E-01	4.2E-02	3.9E-11
277	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.6E+01	2.3E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.0E-11
278	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.6E+01	2.3E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11
279	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.7E+01	2.3E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.2E-11
280	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.8E+01	2.3E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11
281	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.8E+01	2.3E-07	1.0E-03	6.7E-09	1.6E-01	4.2E-02	4.4E-11
282	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	2.4E+01	2.3E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11
283	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	2.5E+01	2.3E-07	1.0E-03	5.9E-09	1.6E-01	4.2E-02	3.9E-11
284	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	2.6E+01	2.3E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11
285	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	2.7E+01	2.3E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.2E-11
286	1.4E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	2.8E+01	2.3E-07	1.0E-03	6.6E-09	1.6E-01	4.2E-02	4.4E-11
287	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.9E+01	2.3E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11
288	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.0E+01	2.3E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
289	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.0E+01	2.3E-07	1.0E-03	7.2E-09	1.6E-01	4.2E-02	4.8E-11
290	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	3.1E+01	2.3E-07	1.0E-03	7.4E-09	1.6E-01	4.2E-02	4.9E-11
291	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.2E+01	2.3E-07	1.0E-03	7.5E-09	1.6E-01	4.2E-02	5.0E-11
292	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.2E+01	2.3E-07	1.0E-03	7.6E-09	1.6E-01	4.2E-02	5.0E-11
293	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	2.9E+01	2.3E-07	1.0E-03	6.9E-09	1.6E-01	4.2E-02	4.6E-11
294	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.0E+01	2.3E-07	1.0E-03	7.2E-09	1.6E-01	4.2E-02	4.8E-11
295	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.2E+01	2.3E-07	1.0E-03	7.5E-09	1.6E-01	4.2E-02	4.9E-11
296	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.3E+01	2.3E-07	1.0E-03	7.8E-09	1.6E-01	4.2E-02	5.1E-11
297	1.4E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	3.4E+01	2.3E-07	1.0E-03	8.0E-09	1.6E-01	4.2E-02	5.3E-11
298	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.5E+01	2.3E-07	1.0E-03	8.2E-09	1.6E-01	4.2E-02	5.4E-11
299	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.5E+01	2.3E-07	1.0E-03	8.4E-09	1.6E-01	4.2E-02	5.6E-11
300	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+01	2.3E-07	1.0E-03	8.5E-09	1.6E-01	4.2E-02	5.6E-11
301	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
302	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
303	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
304	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.5E+01	2.3E-07	1.0E-03	8.2E-09	1.6E-01	4.2E-02	5.5E-11
305	1.6E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
306	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+01	2.3E-07	1.0E-03	8.9E-09	1.6E-01	4.2E-02	5.9E-11
307	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.9E+01	2.3E-07	1.0E-03	9.2E-09	1.6E-01	4.2E-02	6.1E-11
308	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	4.0E+01	2.3E-07	1.0E-03	9.5E-09	1.6E-01	4.2E-02	6.3E-11
309	1.4E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	4.1E+01	2.3E-07	1.0E-03	9.7E-09	1.6E-01	4.2E-02	6.4E-11
310	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.1E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	4.2E-02	6.5E-11
311	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.2E+01	2.3E-07	1.0E-03	9.9E-09	1.6E-01	4.2E-02	6.5E-11
312	1.3E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.2E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	4.2E-02	6.5E-11
313	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	4.1E+01	2.3E-07	1.0E-03	9.7E-09	1.6E-01	4.2E-02	6.4E-11
314	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	4.0E+01	2.3E-07	1.0E-03	9.5E-09	1.6E-01	4.2E-02	6.3E-11
315	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.9E+01	2.3E-07	1.0E-03	9.2E-09	1.6E-01	4.2E-02	6.1E-11
316	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.4E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.9E-11
317	1.6E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11	4.6E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.1E-11
318	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.4E-11
319	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.5E-11
320	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
321	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.6E-11
322	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.5E-11
323	1.3E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.3E-11
324	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	4.5E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.0E-11
325	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.6E-11
326	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	5.6E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.8E-11
327	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.0E-11
328	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.0E-11
329	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	5.7E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.9E-11
330	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.6E-11
331	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	6.9E+01	2.3E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.1E-10
332	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	7.0E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	4.2E-02	1.1E-10
333	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	6.9E+01	2.3E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.1E-10
334	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	6.6E+01	2.3E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10
335	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
336	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
337	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
338	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
339	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
340	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
341	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
342	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
343	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
344	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
345	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	1.4E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
346	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
347	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
348	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
349	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
350	1.4E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
351	1.4E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
352	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
353	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	1.5E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
354	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
355	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
356	1.6E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
357	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
358	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
359	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
360	1.7E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
361	1.7E+01	1.2E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
362	1.7E+01	1.2E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
363	1.7E+01	1.2E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	1.5E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
364	1.8E+01	1.2E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
365	1.8E+01	1.2E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.6E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
366	1.8E+01	1.2E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
367	1.8E+01	1.2E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
368	1.9E+01	1.2E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
369	1.9E+01	1.2E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
370	2.0E+01	1.2E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
371	2.0E+01	1.2E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
372	2.0E+01	1.2E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
373	2.1E+01	1.2E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
374	2.1E+01	1.2E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
375	2.1E+01	1.2E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
376	2.2E+01	1.2E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
377	2.2E+01	1.2E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
378	2.3E+01	1.2E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
379	2.3E+01	1.2E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
380	2.3E+01	1.2E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
381	2.4E+01	1.2E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
382	2.5E+01	1.2E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
383	2.4E+01	1.2E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
384	2.5E+01	1.2E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
385	2.6E+01	1.2E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11
386	2.7E+01	1.2E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11
387	2.6E+01	1.2E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11	1.7E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
388	2.7E+01	1.2E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11	1.8E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
389	2.8E+01	1.2E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
390	2.9E+01	1.2E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11	2.0E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.1E-11
391	2.8E+01	1.2E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
392	3.0E+01	1.2E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
393	3.1E+01	1.2E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
394	3.2E+01	1.2E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
395	3.1E+01	1.2E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
396	3.2E+01	1.2E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11
397	3.4E+01	1.2E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
398	3.5E+01	1.2E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
399	3.3E+01	1.2E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
400	3.5E+01	1.2E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
401	3.7E+01	1.2E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11
402	3.8E+01	1.2E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.2E-11
403	3.6E+01	1.2E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
404	3.8E+01	1.2E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
405	4.0E+01	1.2E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.5E-11	2.0E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.1E-11
406	4.3E+01	1.2E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.3E-11
407	3.9E+01	1.2E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.4E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
408	4.2E+01	1.2E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
409	4.5E+01	1.2E-07	1.0E-03	5.8E-09	1.6E-01	4.2E-02	3.8E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
410	4.7E+01	1.2E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.1E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
411	4.3E+01	1.2E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
412	4.6E+01	1.2E-07	1.0E-03	6.0E-09	1.6E-01	4.2E-02	3.9E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
413	4.9E+01	1.2E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.2E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
414	5.3E+01	1.2E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
415	4.6E+01	1.2E-07	1.0E-03	6.0E-09	1.6E-01	4.2E-02	4.0E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
416	5.0E+01	1.2E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
417	5.4E+01	1.2E-07	1.0E-03	7.1E-09	1.6E-01	4.2E-02	4.7E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
418	5.9E+01	1.2E-07	1.0E-03	7.6E-09	1.6E-01	4.2E-02	5.1E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
419	5.0E+01	1.2E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
420	5.5E+01	1.2E-07	1.0E-03	7.2E-09	1.6E-01	4.2E-02	4.7E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
421	6.0E+01	1.2E-07	1.0E-03	7.8E-09	1.6E-01	4.2E-02	5.2E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
422	6.6E+01	1.2E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.3E-11
423	5.4E+01	1.2E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.6E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
424	6.0E+01	1.2E-07	1.0E-03	7.8E-09	1.6E-01	4.2E-02	5.2E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
425	6.7E+01	1.2E-07	1.0E-03	8.7E-09	1.6E-01	4.2E-02	5.7E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
426	7.4E+01	1.2E-07	1.0E-03	9.6E-09	1.6E-01	4.2E-02	6.4E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
427	5.8E+01	1.2E-07	1.0E-03	7.5E-09	1.6E-01	4.2E-02	4.9E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
428	6.5E+01	1.2E-07	1.0E-03	8.4E-09	1.6E-01	4.2E-02	5.6E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
429	7.3E+01	1.2E-07	1.0E-03	9.5E-09	1.6E-01	4.2E-02	6.3E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
430	8.3E+01	1.2E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.2E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
431	6.1E+01	1.2E-07	1.0E-03	7.9E-09	1.6E-01	4.2E-02	5.2E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
432	7.0E+01	1.2E-07	1.0E-03	9.0E-09	1.6E-01	4.2E-02	6.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11
433	8.0E+01	1.2E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.9E-11	2.0E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.1E-11
434	9.3E+01	1.2E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.0E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
435	6.3E+01	1.2E-07	1.0E-03	8.2E-09	1.6E-01	4.2E-02	5.4E-11	1.7E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
436	7.3E+01	1.2E-07	1.0E-03	9.5E-09	1.6E-01	4.2E-02	6.3E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
437	8.6E+01	1.2E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.4E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11
438	1.0E+02	1.2E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.8E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.3E-11
439	6.4E+01	1.2E-07	1.0E-03	8.3E-09	1.6E-01	4.2E-02	5.5E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
440	7.6E+01	1.2E-07	1.0E-03	9.8E-09	1.6E-01	4.2E-02	6.5E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
441	9.0E+01	1.2E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.8E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
442	1.1E+02	1.2E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.5E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.2E-11
443	6.4E+01	1.2E-07	1.0E-03	8.3E-09	1.6E-01	4.2E-02	5.5E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
444	7.6E+01	1.2E-07	1.0E-03	9.8E-09	1.6E-01	4.2E-02	6.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
445	9.2E+01	1.2E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.9E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
446	1.1E+02	1.2E-07	1.0E-03	1.5E-08	1.6E-01	4.2E-02	9.8E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
447	6.2E+01	1.2E-07	1.0E-03	8.1E-09	1.6E-01	4.2E-02	5.3E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
448	7.4E+01	1.2E-07	1.0E-03	9.6E-09	1.6E-01	4.2E-02	6.4E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	9.0E+01	1.2E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.7E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
450	1.1E+02	1.2E-07	1.0E-03	1.5E-08	1.6E-01	4.2E-02	9.7E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
451	3.8E+00	1.2E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
452	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.8E-12
453	3.5E+00	1.2E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
454	3.3E+00	1.2E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.9E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12
455	4.3E+00	1.2E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12
456	4.2E+00	1.2E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
457	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.4E-12	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	8.9E-12
458	3.8E+00	1.2E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
459	5.1E+00	1.2E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
460	4.8E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
461	4.6E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
462	7.6E+00	1.2E-07	1.0E-03	9.8E-10	1.6E-01	4.2E-02	6.5E-12	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12
463	8.8E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.6E-12	6.1E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.6E-12
464	8.1E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.1E-12
465	9.8E+00	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12	6.1E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.6E-12
466	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	7.4E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11
467	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	9.0E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
468	8.3E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
469	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.4E-12
470	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
471	1.7E+01	1.2E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	9.0E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
472	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12
473	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	7.0E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
474	1.9E+01	1.2E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
475	9.7E+00	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
476	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	6.5E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
477	1.8E+01	1.2E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	8.1E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
1	2.9E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.7E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
2	3.1E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.9E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.2E-12
3	3.3E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.9E-12
4	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	2.1E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
5	3.8E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.5E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
6	4.1E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11
7	4.4E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.1E-12	2.6E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
8	4.7E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.3E-12	2.8E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11
9	5.0E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.7E-12	3.0E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
10	5.3E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	4.9E-12	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11
11	5.7E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
12	6.0E+00	1.3E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.5E-12	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
13	6.2E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
14	6.3E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
15	5.0E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12	5.0E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
16	4.6E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12	5.0E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
17	3.0E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12
18	3.3E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.1E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
19	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	2.0E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
20	3.9E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.6E-12	2.1E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
21	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
22	4.6E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12	2.5E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
23	7.5E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
24	7.7E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12	4.8E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
25	6.3E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	5.8E+00	7.5E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
26	5.8E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12	5.9E+00	7.5E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11
27	5.4E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	4.9E-12	5.9E+00	7.5E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11
28	3.1E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
29	3.9E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	2.0E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
30	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
31	4.7E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.3E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11
32	5.2E+00	1.3E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12	2.6E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
33	5.7E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	2.9E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
34	6.2E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11
35	6.9E+00	1.3E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.3E-12	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
36	7.5E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
37	8.9E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
38	9.4E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12	5.2E+00	7.5E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
39	9.8E+00	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12	5.6E+00	7.5E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
40	7.7E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.1E-12	7.0E+00	7.5E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11
41	7.0E+00	1.3E-07	1.0E-03	9.8E-10	1.6E-01	4.2E-02	6.5E-12	7.1E+00	7.5E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11
42	6.3E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	7.1E+00	7.5E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11
43	3.2E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
44	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
45	4.1E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.7E-12	2.0E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
46	5.1E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
47	5.8E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	2.7E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
48	6.4E+00	1.3E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	5.9E-12	3.0E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.6E-11
49	7.2E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.6E-12	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
50	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12	3.8E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	2.0E-11
51	9.0E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
52	1.1E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	5.4E+00	7.5E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
53	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	6.0E+00	7.5E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
54	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	6.7E+00	7.5E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.4E-11
55	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	7.3E+00	7.5E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11
56	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	7.8E+00	7.5E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.0E-11
57	9.6E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12	8.7E+00	7.5E-07	1.0E-03	6.7E-09	1.6E-01	4.2E-02	4.5E-11
58	8.5E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12	8.7E+00	7.5E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11
59	7.5E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12	8.7E+00	7.5E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11
60	3.2E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12
61	3.7E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
62	4.2E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	2.0E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
63	4.8E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
64	5.4E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	4.2E-02	5.0E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
65	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.6E-12	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
66	9.5E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
67	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
68	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	6.1E+00	7.5E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
69	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	7.1E+00	7.5E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.6E-11
70	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	8.1E+00	7.5E-07	1.0E-03	6.3E-09	1.6E-01	4.2E-02	4.2E-11
71	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	9.0E+00	7.5E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.7E-11
72	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	9.9E+00	7.5E-07	1.0E-03	7.7E-09	1.6E-01	4.2E-02	5.1E-11
73	3.2E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	1.6E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.1E-12
74	3.6E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12
75	4.2E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12
76	4.8E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.5E-12	2.1E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
77	5.7E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11
78	6.6E+00	1.3E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12	2.7E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
79	7.8E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12	3.1E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
80	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.8E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
81	1.9E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11	7.0E+00	7.5E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11
82	2.3E+01	1.3E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11	8.4E+00	7.5E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11
83	2.6E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11	1.0E+01	7.5E-07	1.0E-03	7.8E-09	1.6E-01	4.2E-02	5.2E-11
84	2.7E+01	1.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11	1.2E+01	7.5E-07	1.0E-03	9.2E-09	1.6E-01	4.2E-02	6.1E-11
85	2.6E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11	1.3E+01	7.5E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.8E-11
86	3.1E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.8E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.8E-12
87	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.3E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12
88	4.1E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12	1.9E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.6E-12
89	4.8E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.4E-12	2.1E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
90	5.7E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
91	6.8E+00	1.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.3E-12	2.6E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
92	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12	3.0E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
93	9.9E+00	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.2E-12	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
94	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
95	4.8E+01	1.3E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.7E-11
96	4.6E+01	1.3E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.2E-11	2.0E+01	7.5E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
97	3.0E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.7E-12
98	3.5E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12
99	4.0E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.7E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
100	6.7E+00	1.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12	2.5E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
101	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.6E-12	2.9E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
102	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
103	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
104	2.9E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	1.5E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
105	3.3E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	1.6E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12
106	3.8E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	1.7E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12
107	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11
108	1.3E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
109	2.8E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	4.2E-02	2.6E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12
110	3.2E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
111	3.7E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12
112	9.5E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12	3.0E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
113	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
114	2.7E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	4.2E-02	2.5E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
115	3.0E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.6E-12
116	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12
117	4.0E+00	1.3E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
118	8.7E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.1E-12	2.9E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11
119	1.1E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
120	2.6E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
121	2.9E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.7E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
122	3.3E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.1E-12	1.6E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.1E-12
123	3.8E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12
124	7.9E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12	2.7E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
125	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.4E-12	3.1E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
126	2.4E+00	1.3E-07	1.0E-03	3.4E-10	1.6E-01	4.2E-02	2.3E-12	1.3E+00	7.5E-07	1.0E-03	9.9E-10	1.6E-01	4.2E-02	6.6E-12
127	2.7E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.1E-12
128	3.1E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.8E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
129	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
130	4.2E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.4E-12
131	4.9E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
132	5.8E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
133	7.2E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.6E-12	2.6E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
134	9.0E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12	2.9E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
135	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
136	2.3E+00	1.3E-07	1.0E-03	3.3E-10	1.6E-01	4.2E-02	2.2E-12	1.2E+00	7.5E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.4E-12
137	2.6E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	4.2E-02	2.4E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
138	3.0E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	1.5E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
139	3.4E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	1.6E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12
140	3.9E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12
141	4.5E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
142	5.4E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	5.0E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
143	6.4E+00	1.3E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	5.9E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
144	7.9E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12	2.7E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
145	9.8E+00	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12	3.1E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
146	2.2E+00	1.3E-07	1.0E-03	3.1E-10	1.6E-01	4.2E-02	2.1E-12	1.2E+00	7.5E-07	1.0E-03	9.3E-10	1.6E-01	4.2E-02	6.2E-12
147	2.5E+00	1.3E-07	1.0E-03	3.5E-10	1.6E-01	4.2E-02	2.3E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
148	2.8E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	4.2E-02	2.6E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12
149	3.2E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
150	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12
151	4.2E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12
152	4.8E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
153	5.7E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
154	6.8E+00	1.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12	2.6E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
155	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12	2.9E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11
156	2.1E+00	1.3E-07	1.0E-03	3.0E-10	1.6E-01	4.2E-02	2.0E-12	1.2E+00	7.5E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	6.0E-12
157	2.4E+00	1.3E-07	1.0E-03	3.3E-10	1.6E-01	4.2E-02	2.2E-12	1.3E+00	7.5E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.5E-12
158	2.6E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	4.2E-02	2.4E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
159	2.9E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	1.5E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.6E-12
160	3.3E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
161	3.8E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
162	4.4E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.0E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
163	5.0E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	2.1E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
164	5.8E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12	2.4E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
165	6.9E+00	1.3E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.3E-12	2.7E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
166	2.0E+00	1.3E-07	1.0E-03	2.8E-10	1.6E-01	4.2E-02	1.9E-12	1.1E+00	7.5E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.8E-12
167	2.2E+00	1.3E-07	1.0E-03	3.1E-10	1.6E-01	4.2E-02	2.0E-12	1.2E+00	7.5E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12
168	2.5E+00	1.3E-07	1.0E-03	3.4E-10	1.6E-01	4.2E-02	2.3E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
169	2.7E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12
170	3.1E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.8E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
171	3.5E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12
172	3.9E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.6E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.4E-12
173	4.4E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	4.2E-02	4.1E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
174	5.1E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
175	5.8E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
176	1.9E+00	1.3E-07	1.0E-03	2.7E-10	1.6E-01	4.2E-02	1.8E-12	1.1E+00	7.5E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.6E-12
177	2.1E+00	1.3E-07	1.0E-03	2.9E-10	1.6E-01	4.2E-02	1.9E-12	1.2E+00	7.5E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12
178	2.3E+00	1.3E-07	1.0E-03	3.2E-10	1.6E-01	4.2E-02	2.1E-12	1.2E+00	7.5E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12
179	2.5E+00	1.3E-07	1.0E-03	3.5E-10	1.6E-01	4.2E-02	2.3E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	7.0E-12
180	2.8E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	4.2E-02	2.6E-12	1.5E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
181	3.1E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.6E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12
182	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12
183	3.9E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.6E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.6E-12
184	4.4E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.1E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
185	4.9E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
186	5.0E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.7E-12	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
187	4.5E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	5.0E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
188	4.1E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12	5.2E+00	7.5E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
189	1.8E+00	1.3E-07	1.0E-03	2.5E-10	1.6E-01	4.2E-02	1.7E-12	1.0E+00	7.5E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12
190	2.0E+00	1.3E-07	1.0E-03	2.7E-10	1.6E-01	4.2E-02	1.8E-12	1.1E+00	7.5E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.8E-12
191	2.1E+00	1.3E-07	1.0E-03	3.0E-10	1.6E-01	4.2E-02	2.0E-12	1.2E+00	7.5E-07	1.0E-03	9.3E-10	1.6E-01	4.2E-02	6.2E-12
192	2.4E+00	1.3E-07	1.0E-03	3.3E-10	1.6E-01	4.2E-02	2.2E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.6E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
193	2.6E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12
194	2.9E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.6E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.7E-12
195	3.2E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12
196	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12
197	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	2.1E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
198	5.1E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
199	4.8E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
200	4.6E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.2E-12	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
201	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
202	3.9E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
203	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
204	1.7E+00	1.3E-07	1.0E-03	2.4E-10	1.6E-01	4.2E-02	1.6E-12	1.0E+00	7.5E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.2E-12
205	1.8E+00	1.3E-07	1.0E-03	2.6E-10	1.6E-01	4.2E-02	1.7E-12	1.1E+00	7.5E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.5E-12
206	2.0E+00	1.3E-07	1.0E-03	2.8E-10	1.6E-01	4.2E-02	1.8E-12	1.1E+00	7.5E-07	1.0E-03	8.9E-10	1.6E-01	4.2E-02	5.9E-12
207	2.2E+00	1.3E-07	1.0E-03	3.0E-10	1.6E-01	4.2E-02	2.0E-12	1.2E+00	7.5E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.3E-12
208	2.4E+00	1.3E-07	1.0E-03	3.3E-10	1.6E-01	4.2E-02	2.2E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
209	2.6E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12
210	2.8E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.6E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
211	3.4E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
212	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12
213	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	2.6E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
214	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	2.8E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11
215	4.2E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.9E-12	3.0E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
216	4.1E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.7E-12	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11
217	3.9E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	3.3E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
218	3.6E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
219	3.4E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
220	3.1E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.8E-12	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
221	1.6E+00	1.3E-07	1.0E-03	2.2E-10	1.6E-01	4.2E-02	1.5E-12	9.7E-01	7.5E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	5.0E-12
222	1.7E+00	1.3E-07	1.0E-03	2.4E-10	1.6E-01	4.2E-02	1.6E-12	1.0E+00	7.5E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12
223	1.9E+00	1.3E-07	1.0E-03	2.6E-10	1.6E-01	4.2E-02	1.7E-12	1.1E+00	7.5E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12
224	2.0E+00	1.3E-07	1.0E-03	2.8E-10	1.6E-01	4.2E-02	1.9E-12	1.2E+00	7.5E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
225	2.2E+00	1.3E-07	1.0E-03	3.1E-10	1.6E-01	4.2E-02	2.0E-12	1.3E+00	7.5E-07	1.0E-03	9.8E-10	1.6E-01	4.2E-02	6.5E-12
226	2.6E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
227	2.8E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	4.2E-02	2.6E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.0E-12
228	3.0E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
229	3.2E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
230	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
231	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	2.5E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
232	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	2.6E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11
233	3.4E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	2.8E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11
234	3.3E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.0E-12	2.9E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
235	3.1E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	3.0E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.6E-11
236	2.9E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.7E-12	3.1E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
237	2.7E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11
238	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	6.1E+00	7.5E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
239	1.9E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	6.4E+00	7.5E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
240	1.9E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11	6.6E+00	7.5E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.4E-11
241	2.0E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11	6.9E+00	7.5E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.5E-11
242	2.1E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	2.0E-11	7.2E+00	7.5E-07	1.0E-03	5.6E-09	1.6E-01	4.2E-02	3.7E-11
243	2.2E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11	7.5E+00	7.5E-07	1.0E-03	5.8E-09	1.6E-01	4.2E-02	3.8E-11
244	1.9E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	6.2E+00	7.5E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
245	2.0E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11	6.4E+00	7.5E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
246	2.0E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11	6.7E+00	7.5E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.5E-11
247	2.1E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11	7.0E+00	7.5E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11
248	2.2E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11	7.3E+00	7.5E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11
249	2.3E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11	7.6E+00	7.5E-07	1.0E-03	5.9E-09	1.6E-01	4.2E-02	3.9E-11
250	2.4E+01	1.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11	8.0E+00	7.5E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11
251	2.5E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	8.3E+00	7.5E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11
252	2.0E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11	6.5E+00	7.5E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
253	2.1E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11	6.8E+00	7.5E-07	1.0E-03	5.3E-09	1.6E-01	4.2E-02	3.5E-11
254	2.3E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11	7.1E+00	7.5E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11
255	2.4E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11	7.4E+00	7.5E-07	1.0E-03	5.8E-09	1.6E-01	4.2E-02	3.8E-11
256	2.5E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	7.8E+00	7.5E-07	1.0E-03	6.0E-09	1.6E-01	4.2E-02	4.0E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
257	2.6E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11	8.1E+00	7.5E-07	1.0E-03	6.3E-09	1.6E-01	4.2E-02	4.2E-11
258	2.7E+01	1.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11	8.5E+00	7.5E-07	1.0E-03	6.6E-09	1.6E-01	4.2E-02	4.4E-11
259	2.8E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11	8.9E+00	7.5E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.6E-11
260	3.0E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11	9.4E+00	7.5E-07	1.0E-03	7.3E-09	1.6E-01	4.2E-02	4.8E-11
261	2.4E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11	7.1E+00	7.5E-07	1.0E-03	5.6E-09	1.6E-01	4.2E-02	3.7E-11
262	2.5E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	7.5E+00	7.5E-07	1.0E-03	5.8E-09	1.6E-01	4.2E-02	3.9E-11
263	2.6E+01	1.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11	7.9E+00	7.5E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.1E-11
264	2.7E+01	1.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11	8.3E+00	7.5E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.3E-11
265	2.9E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11	8.7E+00	7.5E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11
266	3.1E+01	1.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11	9.2E+00	7.5E-07	1.0E-03	7.1E-09	1.6E-01	4.2E-02	4.7E-11
267	3.2E+01	1.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11	9.7E+00	7.5E-07	1.0E-03	7.5E-09	1.6E-01	4.2E-02	5.0E-11
268	3.4E+01	1.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11	1.0E+01	7.5E-07	1.0E-03	7.9E-09	1.6E-01	4.2E-02	5.2E-11
269	3.5E+01	1.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11	1.1E+01	7.5E-07	1.0E-03	8.3E-09	1.6E-01	4.2E-02	5.5E-11
270	3.7E+01	1.3E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.4E-11	1.1E+01	7.5E-07	1.0E-03	8.8E-09	1.6E-01	4.2E-02	5.8E-11
271	2.8E+01	1.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11	8.0E+00	7.5E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11
272	2.9E+01	1.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11	8.4E+00	7.5E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11
273	3.1E+01	1.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11	8.8E+00	7.5E-07	1.0E-03	6.9E-09	1.6E-01	4.2E-02	4.6E-11
274	3.3E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11	9.4E+00	7.5E-07	1.0E-03	7.3E-09	1.6E-01	4.2E-02	4.8E-11
275	3.5E+01	1.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.2E-11	9.9E+00	7.5E-07	1.0E-03	7.7E-09	1.6E-01	4.2E-02	5.1E-11
276	3.7E+01	1.3E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.4E-11	1.0E+01	7.5E-07	1.0E-03	8.2E-09	1.6E-01	4.2E-02	5.4E-11
277	3.9E+01	1.3E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11	1.1E+01	7.5E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
278	4.1E+01	1.3E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11	1.2E+01	7.5E-07	1.0E-03	9.2E-09	1.6E-01	4.2E-02	6.1E-11
279	4.3E+01	1.3E-07	1.0E-03	6.0E-09	1.6E-01	4.2E-02	4.0E-11	1.2E+01	7.5E-07	1.0E-03	9.7E-09	1.6E-01	4.2E-02	6.4E-11
280	4.5E+01	1.3E-07	1.0E-03	6.3E-09	1.6E-01	4.2E-02	4.2E-11	1.3E+01	7.5E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.9E-11
281	4.8E+01	1.3E-07	1.0E-03	6.7E-09	1.6E-01	4.2E-02	4.4E-11	1.4E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.3E-11
282	3.3E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11	9.0E+00	7.5E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.6E-11
283	3.5E+01	1.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.2E-11	9.5E+00	7.5E-07	1.0E-03	7.4E-09	1.6E-01	4.2E-02	4.9E-11
284	3.7E+01	1.3E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.4E-11	1.0E+01	7.5E-07	1.0E-03	7.9E-09	1.6E-01	4.2E-02	5.2E-11
285	4.0E+01	1.3E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11	1.1E+01	7.5E-07	1.0E-03	8.4E-09	1.6E-01	4.2E-02	5.5E-11
286	4.2E+01	1.3E-07	1.0E-03	5.9E-09	1.6E-01	4.2E-02	3.9E-11	1.1E+01	7.5E-07	1.0E-03	8.9E-09	1.6E-01	4.2E-02	5.9E-11
287	4.5E+01	1.3E-07	1.0E-03	6.3E-09	1.6E-01	4.2E-02	4.1E-11	1.2E+01	7.5E-07	1.0E-03	9.5E-09	1.6E-01	4.2E-02	6.3E-11
288	4.8E+01	1.3E-07	1.0E-03	6.6E-09	1.6E-01	4.2E-02	4.4E-11	1.3E+01	7.5E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
289	5.1E+01	1.3E-07	1.0E-03	7.1E-09	1.6E-01	4.2E-02	4.7E-11	1.4E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.2E-11
290	5.4E+01	1.3E-07	1.0E-03	7.5E-09	1.6E-01	4.2E-02	5.0E-11	1.5E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.7E-11
291	5.7E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	4.2E-02	5.2E-11	1.6E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.3E-11
292	5.9E+01	1.3E-07	1.0E-03	8.3E-09	1.6E-01	4.2E-02	5.5E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.9E-11
293	4.3E+01	1.3E-07	1.0E-03	6.0E-09	1.6E-01	4.2E-02	4.0E-11	1.1E+01	7.5E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
294	4.6E+01	1.3E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.3E-11	1.2E+01	7.5E-07	1.0E-03	9.2E-09	1.6E-01	4.2E-02	6.1E-11
295	4.9E+01	1.3E-07	1.0E-03	6.9E-09	1.6E-01	4.2E-02	4.6E-11	1.3E+01	7.5E-07	1.0E-03	9.8E-09	1.6E-01	4.2E-02	6.5E-11
296	5.3E+01	1.3E-07	1.0E-03	7.4E-09	1.6E-01	4.2E-02	4.9E-11	1.4E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.0E-11
297	5.7E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	4.2E-02	5.2E-11	1.5E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.5E-11
298	6.1E+01	1.3E-07	1.0E-03	8.5E-09	1.6E-01	4.2E-02	5.6E-11	1.6E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.1E-11
299	6.5E+01	1.3E-07	1.0E-03	9.0E-09	1.6E-01	4.2E-02	6.0E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.8E-11
300	6.9E+01	1.3E-07	1.0E-03	9.6E-09	1.6E-01	4.2E-02	6.4E-11	1.8E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.5E-11
301	7.3E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.7E-11	2.0E+01	7.5E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10
302	7.6E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.1E-11	2.2E+01	7.5E-07	1.0E-03	1.7E-08	1.6E-01	4.2E-02	1.1E-10
303	7.9E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.3E-11	2.3E+01	7.5E-07	1.0E-03	1.8E-08	1.6E-01	4.2E-02	1.2E-10
304	5.4E+01	1.3E-07	1.0E-03	7.6E-09	1.6E-01	4.2E-02	5.0E-11	1.3E+01	7.5E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.7E-11
305	5.8E+01	1.3E-07	1.0E-03	8.2E-09	1.6E-01	4.2E-02	5.4E-11	1.4E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.2E-11
306	6.3E+01	1.3E-07	1.0E-03	8.9E-09	1.6E-01	4.2E-02	5.9E-11	1.5E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.9E-11
307	6.9E+01	1.3E-07	1.0E-03	9.6E-09	1.6E-01	4.2E-02	6.4E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.6E-11
308	7.4E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.9E-11	1.8E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.4E-11
309	8.0E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.4E-11	2.0E+01	7.5E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10
310	8.7E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.0E-11	2.2E+01	7.5E-07	1.0E-03	1.7E-08	1.6E-01	4.2E-02	1.1E-10
311	9.2E+01	1.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.5E-11	2.4E+01	7.5E-07	1.0E-03	1.9E-08	1.6E-01	4.2E-02	1.2E-10
312	9.7E+01	1.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.0E-11	2.6E+01	7.5E-07	1.0E-03	2.1E-08	1.6E-01	4.2E-02	1.4E-10
313	1.0E+02	1.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.3E-11	2.9E+01	7.5E-07	1.0E-03	2.2E-08	1.6E-01	4.2E-02	1.5E-10
314	1.0E+02	1.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.3E-11	3.1E+01	7.5E-07	1.0E-03	2.4E-08	1.6E-01	4.2E-02	1.6E-10
315	9.7E+01	1.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.0E-11	3.3E+01	7.5E-07	1.0E-03	2.6E-08	1.6E-01	4.2E-02	1.7E-10
316	7.8E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.2E-11	1.7E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.0E-11
317	8.6E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.9E-11	1.9E+01	7.5E-07	1.0E-03	1.5E-08	1.6E-01	4.2E-02	9.9E-11
318	9.5E+01	1.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.7E-11	2.1E+01	7.5E-07	1.0E-03	1.7E-08	1.6E-01	4.2E-02	1.1E-10
319	1.0E+02	1.3E-07	1.0E-03	1.5E-08	1.6E-01	4.2E-02	9.6E-11	2.4E+01	7.5E-07	1.0E-03	1.9E-08	1.6E-01	4.2E-02	1.2E-10
320	1.1E+02	1.3E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10	2.7E+01	7.5E-07	1.0E-03	2.1E-08	1.6E-01	4.2E-02	1.4E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
321	3.7E+01	1.3E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.4E-11	3.0E+01	7.5E-07	1.0E-03	2.3E-08	1.6E-01	4.2E-02	1.6E-10
322	3.6E+01	1.3E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.4E-11	1.6E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.2E-11
323	3.5E+01	1.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.3E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.8E-11
324	3.4E+01	1.3E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11	1.9E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.6E-11
325	1.1E+02	1.3E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10	2.3E+01	7.5E-07	1.0E-03	1.8E-08	1.6E-01	4.2E-02	1.2E-10
326	4.4E+01	1.3E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.1E-11	2.6E+01	7.5E-07	1.0E-03	2.0E-08	1.6E-01	4.2E-02	1.3E-10
327	4.4E+01	1.3E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.1E-11	3.0E+01	7.5E-07	1.0E-03	2.3E-08	1.6E-01	4.2E-02	1.5E-10
328	4.3E+01	1.3E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.0E-11	1.5E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.9E-11
329	4.2E+01	1.3E-07	1.0E-03	5.9E-09	1.6E-01	4.2E-02	3.9E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.6E-11
330	4.1E+01	1.3E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11	1.8E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.4E-11
331	5.2E+01	1.3E-07	1.0E-03	7.3E-09	1.6E-01	4.2E-02	4.8E-11	1.5E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.5E-11
332	5.2E+01	1.3E-07	1.0E-03	7.2E-09	1.6E-01	4.2E-02	4.8E-11	1.6E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.2E-11
333	5.0E+01	1.3E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.6E-11	1.8E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.1E-11
334	4.8E+01	1.3E-07	1.0E-03	6.7E-09	1.6E-01	4.2E-02	4.5E-11	1.9E+01	7.5E-07	1.0E-03	1.5E-08	1.6E-01	4.2E-02	1.0E-10
335	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
336	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
337	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.8E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
338	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.9E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
339	1.3E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
340	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
341	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.8E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
342	1.5E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	4.9E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
343	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
344	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
345	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.8E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
346	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	5.0E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
347	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
348	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
349	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
350	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.9E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
351	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
352	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
353	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
354	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.9E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
355	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
356	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
357	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
358	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.9E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
359	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
360	1.5E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
361	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.7E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
362	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.8E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
363	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.3E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
364	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
365	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
366	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11	4.8E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
367	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
368	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
369	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.6E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
370	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11	4.8E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
371	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
372	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
373	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
374	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
375	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.2E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
376	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
377	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
378	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.7E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
379	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
380	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.3E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
381	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
382	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
383	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
384	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
385	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
386	1.8E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
387	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
388	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.2E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
389	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
390	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
391	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
392	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
393	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.3E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
394	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
395	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
396	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
397	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
398	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
399	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
400	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
401	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
402	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
403	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
404	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
405	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
406	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
407	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
408	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
409	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
410	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
411	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
412	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
413	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
414	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
415	1.3E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
416	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
417	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
418	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
419	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
420	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
421	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
422	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
423	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.5E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
424	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
425	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
426	1.5E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
427	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
428	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
429	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
430	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
431	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.4E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
432	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
433	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
434	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
435	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.8E-11
436	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
437	1.3E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
438	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
439	1.1E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.3E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
440	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
441	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
442	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
443	1.1E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	3.3E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
444	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.8E-11
445	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
446	1.3E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
447	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11
448	1.1E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.3E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
450	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
451	6.3E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
452	6.2E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
453	6.0E+00	1.3E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.6E-12	4.8E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
454	5.8E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.3E-12	4.9E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
455	7.8E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12	5.1E+00	7.5E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
456	7.6E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	5.4E+00	7.5E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
457	7.3E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12	5.6E+00	7.5E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
458	6.9E+00	1.3E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12	5.8E+00	7.5E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
459	9.8E+00	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12	6.0E+00	7.5E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
460	9.6E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12	6.4E+00	7.5E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
461	9.1E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12	6.7E+00	7.5E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.5E-11
462	4.7E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.3E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
463	5.6E+00	1.3E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.1E-12	2.2E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
464	4.5E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
465	5.3E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
466	6.4E+00	1.3E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	5.9E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
467	7.9E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12	2.8E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11
468	4.3E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.6E-12
469	5.0E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.7E-12	2.1E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
470	6.1E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	4.2E-02	5.6E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
471	7.5E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12	2.6E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
472	4.8E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
473	5.7E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
474	6.9E+00	1.3E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12	2.5E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
475	4.4E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	4.2E-02	4.1E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12
476	5.3E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12	2.1E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
477	6.4E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	4.2E-02	5.9E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11

5. Risk by Construction Phase

b. Risk From Site Prep - Unmitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	1.3E-02	1.0E-03	3.9E-06	1.6E-01	8.2E-02	5.0E-08	7.4E-04	3.7E-03
2	3.0E-01	1.3E-02	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.2E-08	7.8E-04	3.9E-03
3	3.1E-01	1.3E-02	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.1E-04	4.0E-03
4	3.2E-01	1.3E-02	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.6E-08	8.3E-04	4.2E-03
5	3.3E-01	1.3E-02	1.0E-03	4.5E-06	1.6E-01	8.2E-02	5.8E-08	8.6E-04	4.3E-03
6	3.4E-01	1.3E-02	1.0E-03	4.6E-06	1.6E-01	8.2E-02	5.9E-08	8.8E-04	4.4E-03
7	3.5E-01	1.3E-02	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.0E-04	4.5E-03
8	3.6E-01	1.3E-02	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.3E-08	9.3E-04	4.6E-03
9	3.7E-01	1.3E-02	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.5E-08	9.6E-04	4.8E-03
10	3.8E-01	1.3E-02	1.0E-03	5.2E-06	1.6E-01	8.2E-02	6.7E-08	1.0E-03	5.0E-03
11	4.0E-01	1.3E-02	1.0E-03	5.4E-06	1.6E-01	8.2E-02	7.0E-08	1.0E-03	5.2E-03
12	4.1E-01	1.3E-02	1.0E-03	5.6E-06	1.6E-01	8.2E-02	7.3E-08	1.1E-03	5.4E-03
13	4.3E-01	1.3E-02	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.5E-08	1.1E-03	5.6E-03
14	4.3E-01	1.3E-02	1.0E-03	5.9E-06	1.6E-01	8.2E-02	7.6E-08	1.1E-03	5.7E-03
15	4.3E-01	1.3E-02	1.0E-03	5.9E-06	1.6E-01	8.2E-02	7.6E-08	1.1E-03	5.6E-03
16	4.2E-01	1.3E-02	1.0E-03	5.7E-06	1.6E-01	8.2E-02	7.4E-08	1.1E-03	5.5E-03
17	3.2E-01	1.3E-02	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.6E-08	8.3E-04	4.2E-03
18	3.4E-01	1.3E-02	1.0E-03	4.6E-06	1.6E-01	8.2E-02	5.9E-08	8.8E-04	4.4E-03
19	3.6E-01	1.3E-02	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.3E-08	9.3E-04	4.6E-03
20	3.7E-01	1.3E-02	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.5E-08	9.7E-04	4.9E-03
21	3.9E-01	1.3E-02	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.8E-08	1.0E-03	5.0E-03
22	4.0E-01	1.3E-02	1.0E-03	5.4E-06	1.6E-01	8.2E-02	7.0E-08	1.0E-03	5.2E-03
23	5.2E-01	1.3E-02	1.0E-03	7.1E-06	1.6E-01	8.2E-02	9.2E-08	1.4E-03	6.8E-03
24	5.3E-01	1.3E-02	1.0E-03	7.3E-06	1.6E-01	8.2E-02	9.4E-08	1.4E-03	7.0E-03
25	5.3E-01	1.3E-02	1.0E-03	7.2E-06	1.6E-01	8.2E-02	9.3E-08	1.4E-03	6.9E-03
26	5.2E-01	1.3E-02	1.0E-03	7.0E-06	1.6E-01	8.2E-02	9.1E-08	1.3E-03	6.7E-03
27	5.0E-01	1.3E-02	1.0E-03	6.8E-06	1.6E-01	8.2E-02	8.7E-08	1.3E-03	6.5E-03
28	3.5E-01	1.3E-02	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.2E-08	9.2E-04	4.6E-03
29	4.1E-01	1.3E-02	1.0E-03	5.6E-06	1.6E-01	8.2E-02	7.2E-08	1.1E-03	5.3E-03
30	4.3E-01	1.3E-02	1.0E-03	5.9E-06	1.6E-01	8.2E-02	7.6E-08	1.1E-03	5.7E-03
31	4.6E-01	1.3E-02	1.0E-03	6.3E-06	1.6E-01	8.2E-02	8.1E-08	1.2E-03	6.0E-03
32	4.8E-01	1.3E-02	1.0E-03	6.6E-06	1.6E-01	8.2E-02	8.5E-08	1.3E-03	6.3E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	1.3E-02	1.0E-03	6.9E-06	1.6E-01	8.2E-02	8.9E-08	1.3E-03	6.6E-03
34	5.2E-01	1.3E-02	1.0E-03	7.1E-06	1.6E-01	8.2E-02	9.2E-08	1.4E-03	6.8E-03
35	5.5E-01	1.3E-02	1.0E-03	7.4E-06	1.6E-01	8.2E-02	9.6E-08	1.4E-03	7.1E-03
36	5.7E-01	1.3E-02	1.0E-03	7.8E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.5E-03
37	6.3E-01	1.3E-02	1.0E-03	8.6E-06	1.6E-01	8.2E-02	1.1E-07	1.7E-03	8.3E-03
38	6.6E-01	1.3E-02	1.0E-03	8.9E-06	1.6E-01	8.2E-02	1.2E-07	1.7E-03	8.6E-03
39	6.7E-01	1.3E-02	1.0E-03	9.2E-06	1.6E-01	8.2E-02	1.2E-07	1.8E-03	8.8E-03
40	6.5E-01	1.3E-02	1.0E-03	8.8E-06	1.6E-01	8.2E-02	1.1E-07	1.7E-03	8.5E-03
41	6.2E-01	1.3E-02	1.0E-03	8.5E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.1E-03
42	5.9E-01	1.3E-02	1.0E-03	8.1E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.7E-03
43	3.9E-01	1.3E-02	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.8E-08	1.0E-03	5.1E-03
44	4.3E-01	1.3E-02	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.5E-08	1.1E-03	5.6E-03
45	4.7E-01	1.3E-02	1.0E-03	6.4E-06	1.6E-01	8.2E-02	8.2E-08	1.2E-03	6.1E-03
46	5.5E-01	1.3E-02	1.0E-03	7.5E-06	1.6E-01	8.2E-02	9.7E-08	1.4E-03	7.2E-03
47	5.9E-01	1.3E-02	1.0E-03	8.0E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.7E-03
48	6.2E-01	1.3E-02	1.0E-03	8.5E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.1E-03
49	6.5E-01	1.3E-02	1.0E-03	8.9E-06	1.6E-01	8.2E-02	1.1E-07	1.7E-03	8.5E-03
50	6.9E-01	1.3E-02	1.0E-03	9.4E-06	1.6E-01	8.2E-02	1.2E-07	1.8E-03	9.0E-03
51	7.3E-01	1.3E-02	1.0E-03	1.0E-05	1.6E-01	8.2E-02	1.3E-07	1.9E-03	9.5E-03
52	8.2E-01	1.3E-02	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.4E-07	2.1E-03	1.1E-02
53	8.6E-01	1.3E-02	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.5E-07	2.2E-03	1.1E-02
54	8.8E-01	1.3E-02	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.5E-07	2.3E-03	1.1E-02
55	8.9E-01	1.3E-02	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.6E-07	2.3E-03	1.2E-02
56	8.9E-01	1.3E-02	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.6E-07	2.3E-03	1.2E-02
57	8.1E-01	1.3E-02	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.4E-07	2.1E-03	1.1E-02
58	7.6E-01	1.3E-02	1.0E-03	1.0E-05	1.6E-01	8.2E-02	1.3E-07	2.0E-03	9.9E-03
59	7.0E-01	1.3E-02	1.0E-03	9.6E-06	1.6E-01	8.2E-02	1.2E-07	1.8E-03	9.2E-03
60	4.2E-01	1.3E-02	1.0E-03	5.7E-06	1.6E-01	8.2E-02	7.4E-08	1.1E-03	5.5E-03
61	4.7E-01	1.3E-02	1.0E-03	6.4E-06	1.6E-01	8.2E-02	8.3E-08	1.2E-03	6.1E-03
62	5.3E-01	1.3E-02	1.0E-03	7.2E-06	1.6E-01	8.2E-02	9.3E-08	1.4E-03	6.9E-03
63	5.9E-01	1.3E-02	1.0E-03	8.0E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.7E-03
64	6.6E-01	1.3E-02	1.0E-03	8.9E-06	1.6E-01	8.2E-02	1.2E-07	1.7E-03	8.6E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	1.3E-02	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.5E-07	2.2E-03	1.1E-02
66	9.1E-01	1.3E-02	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.6E-07	2.4E-03	1.2E-02
67	9.7E-01	1.3E-02	1.0E-03	1.3E-05	1.6E-01	8.2E-02	1.7E-07	2.5E-03	1.3E-02
68	1.1E+00	1.3E-02	1.0E-03	1.5E-05	1.6E-01	8.2E-02	2.0E-07	2.9E-03	1.5E-02
69	1.2E+00	1.3E-02	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.1E-07	3.1E-03	1.5E-02
70	1.2E+00	1.3E-02	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.1E-07	3.1E-03	1.6E-02
71	1.2E+00	1.3E-02	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.1E-07	3.2E-03	1.6E-02
72	1.2E+00	1.3E-02	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.1E-07	3.1E-03	1.6E-02
73	4.4E-01	1.3E-02	1.0E-03	6.0E-06	1.6E-01	8.2E-02	7.8E-08	1.2E-03	5.8E-03
74	5.0E-01	1.3E-02	1.0E-03	6.9E-06	1.6E-01	8.2E-02	8.9E-08	1.3E-03	6.6E-03
75	5.8E-01	1.3E-02	1.0E-03	7.9E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.5E-03
76	6.7E-01	1.3E-02	1.0E-03	9.1E-06	1.6E-01	8.2E-02	1.2E-07	1.7E-03	8.7E-03
77	7.7E-01	1.3E-02	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.4E-07	2.0E-03	1.0E-02
78	8.8E-01	1.3E-02	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.6E-07	2.3E-03	1.1E-02
79	1.0E+00	1.3E-02	1.0E-03	1.4E-05	1.6E-01	8.2E-02	1.8E-07	2.6E-03	1.3E-02
80	1.4E+00	1.3E-02	1.0E-03	1.9E-05	1.6E-01	8.2E-02	2.4E-07	3.6E-03	1.8E-02
81	1.6E+00	1.3E-02	1.0E-03	2.2E-05	1.6E-01	8.2E-02	2.9E-07	4.2E-03	2.1E-02
82	1.7E+00	1.3E-02	1.0E-03	2.3E-05	1.6E-01	8.2E-02	3.0E-07	4.5E-03	2.2E-02
83	1.7E+00	1.3E-02	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.1E-07	4.5E-03	2.3E-02
84	1.7E+00	1.3E-02	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.0E-07	4.5E-03	2.3E-02
85	1.7E+00	1.3E-02	1.0E-03	2.3E-05	1.6E-01	8.2E-02	2.9E-07	4.3E-03	2.2E-02
86	4.5E-01	1.3E-02	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.8E-08	1.2E-03	5.8E-03
87	5.2E-01	1.3E-02	1.0E-03	7.2E-06	1.6E-01	8.2E-02	9.2E-08	1.4E-03	6.8E-03
88	6.2E-01	1.3E-02	1.0E-03	8.5E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.1E-03
89	7.4E-01	1.3E-02	1.0E-03	1.0E-05	1.6E-01	8.2E-02	1.3E-07	1.9E-03	9.6E-03
90	8.8E-01	1.3E-02	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.5E-07	2.3E-03	1.1E-02
91	1.1E+00	1.3E-02	1.0E-03	1.4E-05	1.6E-01	8.2E-02	1.9E-07	2.8E-03	1.4E-02
92	1.3E+00	1.3E-02	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.2E-07	3.3E-03	1.7E-02
93	1.5E+00	1.3E-02	1.0E-03	2.1E-05	1.6E-01	8.2E-02	2.7E-07	3.9E-03	2.0E-02
94	1.8E+00	1.3E-02	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.1E-07	4.6E-03	2.3E-02
95	2.6E+00	1.3E-02	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.6E-07	6.9E-03	3.4E-02
96	2.4E+00	1.3E-02	1.0E-03	3.3E-05	1.6E-01	8.2E-02	4.2E-07	6.3E-03	3.1E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Unmitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	1.3E-02	1.0E-03	6.2E-06	1.6E-01	8.2E-02	8.0E-08	1.2E-03	6.0E-03
98	5.4E-01	1.3E-02	1.0E-03	7.3E-06	1.6E-01	8.2E-02	9.4E-08	1.4E-03	7.0E-03
99	6.4E-01	1.3E-02	1.0E-03	8.7E-06	1.6E-01	8.2E-02	1.1E-07	1.7E-03	8.3E-03
100	1.2E+00	1.3E-02	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.1E-07	3.2E-03	1.6E-02
101	1.5E+00	1.3E-02	1.0E-03	2.1E-05	1.6E-01	8.2E-02	2.7E-07	4.0E-03	2.0E-02
102	2.0E+00	1.3E-02	1.0E-03	2.7E-05	1.6E-01	8.2E-02	3.5E-07	5.2E-03	2.6E-02
103	2.6E+00	1.3E-02	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.7E-07	6.9E-03	3.5E-02
104	4.5E-01	1.3E-02	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.9E-08	1.2E-03	5.8E-03
105	5.3E-01	1.3E-02	1.0E-03	7.2E-06	1.6E-01	8.2E-02	9.3E-08	1.4E-03	6.9E-03
106	6.4E-01	1.3E-02	1.0E-03	8.7E-06	1.6E-01	8.2E-02	1.1E-07	1.7E-03	8.4E-03
107	2.5E+00	1.3E-02	1.0E-03	3.4E-05	1.6E-01	8.2E-02	4.4E-07	6.5E-03	3.3E-02
108	3.8E+00	1.3E-02	1.0E-03	5.2E-05	1.6E-01	8.2E-02	6.7E-07	9.9E-03	5.0E-02
109	4.3E-01	1.3E-02	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.5E-08	1.1E-03	5.6E-03
110	5.1E-01	1.3E-02	1.0E-03	6.9E-06	1.6E-01	8.2E-02	8.9E-08	1.3E-03	6.6E-03
111	6.2E-01	1.3E-02	1.0E-03	8.4E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.0E-03
112	2.8E+00	1.3E-02	1.0E-03	3.8E-05	1.6E-01	8.2E-02	4.9E-07	7.2E-03	3.6E-02
113	4.7E+00	1.3E-02	1.0E-03	6.4E-05	1.6E-01	8.2E-02	8.2E-07	1.2E-02	6.1E-02
114	4.0E-01	1.3E-02	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.0E-03	5.2E-03
115	4.8E-01	1.3E-02	1.0E-03	6.5E-06	1.6E-01	8.2E-02	8.4E-08	1.2E-03	6.2E-03
116	5.8E-01	1.3E-02	1.0E-03	7.9E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.5E-03
117	7.2E-01	1.3E-02	1.0E-03	9.8E-06	1.6E-01	8.2E-02	1.3E-07	1.9E-03	9.3E-03
118	2.7E+00	1.3E-02	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.7E-07	7.0E-03	3.5E-02
119	4.7E+00	1.3E-02	1.0E-03	6.5E-05	1.6E-01	8.2E-02	8.4E-07	1.2E-02	6.2E-02
120	3.7E-01	1.3E-02	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.6E-08	9.8E-04	4.9E-03
121	4.4E-01	1.3E-02	1.0E-03	6.0E-06	1.6E-01	8.2E-02	7.8E-08	1.2E-03	5.8E-03
122	5.3E-01	1.3E-02	1.0E-03	7.3E-06	1.6E-01	8.2E-02	9.4E-08	1.4E-03	7.0E-03
123	6.6E-01	1.3E-02	1.0E-03	8.9E-06	1.6E-01	8.2E-02	1.2E-07	1.7E-03	8.5E-03
124	2.3E+00	1.3E-02	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.0E-02
125	4.0E+00	1.3E-02	1.0E-03	5.5E-05	1.6E-01	8.2E-02	7.1E-07	1.0E-02	5.2E-02
126	3.5E-01	1.3E-02	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.1E-04	4.5E-03
127	4.1E-01	1.3E-02	1.0E-03	5.6E-06	1.6E-01	8.2E-02	7.2E-08	1.1E-03	5.3E-03
128	4.9E-01	1.3E-02	1.0E-03	6.6E-06	1.6E-01	8.2E-02	8.6E-08	1.3E-03	6.4E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	1.3E-02	1.0E-03	8.1E-06	1.6E-01	8.2E-02	1.0E-07	1.6E-03	7.8E-03
130	7.4E-01	1.3E-02	1.0E-03	1.0E-05	1.6E-01	8.2E-02	1.3E-07	1.9E-03	9.7E-03
131	9.7E-01	1.3E-02	1.0E-03	1.3E-05	1.6E-01	8.2E-02	1.7E-07	2.5E-03	1.3E-02
132	1.3E+00	1.3E-02	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.4E-03	1.7E-02
133	1.9E+00	1.3E-02	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.3E-07	5.0E-03	2.5E-02
134	3.0E+00	1.3E-02	1.0E-03	4.1E-05	1.6E-01	8.2E-02	5.3E-07	7.8E-03	3.9E-02
135	5.4E+00	1.3E-02	1.0E-03	7.3E-05	1.6E-01	8.2E-02	9.4E-07	1.4E-02	7.0E-02
136	3.2E-01	1.3E-02	1.0E-03	4.4E-06	1.6E-01	8.2E-02	5.7E-08	8.4E-04	4.2E-03
137	3.8E-01	1.3E-02	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.6E-08	9.8E-04	4.9E-03
138	4.5E-01	1.3E-02	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.8E-08	1.2E-03	5.8E-03
139	5.4E-01	1.3E-02	1.0E-03	7.3E-06	1.6E-01	8.2E-02	9.4E-08	1.4E-03	7.0E-03
140	6.6E-01	1.3E-02	1.0E-03	9.0E-06	1.6E-01	8.2E-02	1.2E-07	1.7E-03	8.6E-03
141	8.4E-01	1.3E-02	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.5E-07	2.2E-03	1.1E-02
142	1.1E+00	1.3E-02	1.0E-03	1.5E-05	1.6E-01	8.2E-02	1.9E-07	2.9E-03	1.4E-02
143	1.5E+00	1.3E-02	1.0E-03	2.0E-05	1.6E-01	8.2E-02	2.6E-07	3.9E-03	2.0E-02
144	2.1E+00	1.3E-02	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.7E-07	5.5E-03	2.7E-02
145	3.1E+00	1.3E-02	1.0E-03	4.2E-05	1.6E-01	8.2E-02	5.4E-07	8.0E-03	4.0E-02
146	3.0E-01	1.3E-02	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.8E-04	3.9E-03
147	3.5E-01	1.3E-02	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.0E-04	4.5E-03
148	4.1E-01	1.3E-02	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.1E-03	5.3E-03
149	4.8E-01	1.3E-02	1.0E-03	6.6E-06	1.6E-01	8.2E-02	8.5E-08	1.3E-03	6.3E-03
150	5.9E-01	1.3E-02	1.0E-03	8.0E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.6E-03
151	7.2E-01	1.3E-02	1.0E-03	9.9E-06	1.6E-01	8.2E-02	1.3E-07	1.9E-03	9.4E-03
152	9.0E-01	1.3E-02	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.6E-07	2.3E-03	1.2E-02
153	1.2E+00	1.3E-02	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.0E-07	3.0E-03	1.5E-02
154	1.5E+00	1.3E-02	1.0E-03	2.0E-05	1.6E-01	8.2E-02	2.6E-07	3.8E-03	1.9E-02
155	1.9E+00	1.3E-02	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.3E-07	4.9E-03	2.5E-02
156	2.8E-01	1.3E-02	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.3E-04	3.6E-03
157	3.2E-01	1.3E-02	1.0E-03	4.4E-06	1.6E-01	8.2E-02	5.6E-08	8.4E-04	4.2E-03
158	3.7E-01	1.3E-02	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.5E-08	9.7E-04	4.8E-03
159	4.3E-01	1.3E-02	1.0E-03	5.9E-06	1.6E-01	8.2E-02	7.6E-08	1.1E-03	5.7E-03
160	5.2E-01	1.3E-02	1.0E-03	7.0E-06	1.6E-01	8.2E-02	9.1E-08	1.3E-03	6.7E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	1.3E-02	1.0E-03	8.4E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.1E-03
162	7.4E-01	1.3E-02	1.0E-03	1.0E-05	1.6E-01	8.2E-02	1.3E-07	1.9E-03	9.7E-03
163	9.0E-01	1.3E-02	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.6E-07	2.3E-03	1.2E-02
164	1.1E+00	1.3E-02	1.0E-03	1.5E-05	1.6E-01	8.2E-02	1.9E-07	2.8E-03	1.4E-02
165	1.3E+00	1.3E-02	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.4E-03	1.7E-02
166	2.6E-01	1.3E-02	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.6E-08	6.8E-04	3.4E-03
167	2.9E-01	1.3E-02	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.2E-08	7.7E-04	3.8E-03
168	3.4E-01	1.3E-02	1.0E-03	4.6E-06	1.6E-01	8.2E-02	5.9E-08	8.8E-04	4.4E-03
169	3.9E-01	1.3E-02	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.8E-08	1.0E-03	5.1E-03
170	4.5E-01	1.3E-02	1.0E-03	6.2E-06	1.6E-01	8.2E-02	7.9E-08	1.2E-03	5.9E-03
171	5.3E-01	1.3E-02	1.0E-03	7.2E-06	1.6E-01	8.2E-02	9.3E-08	1.4E-03	6.9E-03
172	6.1E-01	1.3E-02	1.0E-03	8.3E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	7.9E-03
173	7.1E-01	1.3E-02	1.0E-03	9.6E-06	1.6E-01	8.2E-02	1.2E-07	1.8E-03	9.2E-03
174	8.2E-01	1.3E-02	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.4E-07	2.1E-03	1.1E-02
175	9.5E-01	1.3E-02	1.0E-03	1.3E-05	1.6E-01	8.2E-02	1.7E-07	2.5E-03	1.2E-02
176	2.4E-01	1.3E-02	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.2E-08	6.3E-04	3.1E-03
177	2.7E-01	1.3E-02	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.7E-08	7.0E-04	3.5E-03
178	3.0E-01	1.3E-02	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.4E-08	7.9E-04	4.0E-03
179	3.5E-01	1.3E-02	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.0E-04	4.5E-03
180	3.9E-01	1.3E-02	1.0E-03	5.4E-06	1.6E-01	8.2E-02	6.9E-08	1.0E-03	5.1E-03
181	4.5E-01	1.3E-02	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.9E-08	1.2E-03	5.9E-03
182	5.1E-01	1.3E-02	1.0E-03	6.9E-06	1.6E-01	8.2E-02	8.9E-08	1.3E-03	6.6E-03
183	5.7E-01	1.3E-02	1.0E-03	7.8E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.4E-03
184	6.4E-01	1.3E-02	1.0E-03	8.7E-06	1.6E-01	8.2E-02	1.1E-07	1.7E-03	8.3E-03
185	7.2E-01	1.3E-02	1.0E-03	9.8E-06	1.6E-01	8.2E-02	1.3E-07	1.9E-03	9.4E-03
186	5.9E-01	1.3E-02	1.0E-03	8.0E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.7E-03
187	5.2E-01	1.3E-02	1.0E-03	7.1E-06	1.6E-01	8.2E-02	9.2E-08	1.4E-03	6.8E-03
188	4.7E-01	1.3E-02	1.0E-03	6.3E-06	1.6E-01	8.2E-02	8.2E-08	1.2E-03	6.1E-03
189	2.2E-01	1.3E-02	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.8E-04	2.9E-03
190	2.5E-01	1.3E-02	1.0E-03	3.4E-06	1.6E-01	8.2E-02	4.3E-08	6.4E-04	3.2E-03
191	2.7E-01	1.3E-02	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.2E-04	3.6E-03
192	3.1E-01	1.3E-02	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.0E-04	4.0E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	1.3E-02	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.0E-04	4.5E-03
194	3.8E-01	1.3E-02	1.0E-03	5.2E-06	1.6E-01	8.2E-02	6.7E-08	1.0E-03	5.0E-03
195	4.3E-01	1.3E-02	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.5E-08	1.1E-03	5.6E-03
196	4.7E-01	1.3E-02	1.0E-03	6.4E-06	1.6E-01	8.2E-02	8.2E-08	1.2E-03	6.1E-03
197	5.6E-01	1.3E-02	1.0E-03	7.7E-06	1.6E-01	8.2E-02	9.9E-08	1.5E-03	7.4E-03
198	6.1E-01	1.3E-02	1.0E-03	8.3E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	7.9E-03
199	5.7E-01	1.3E-02	1.0E-03	7.8E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.5E-03
200	5.3E-01	1.3E-02	1.0E-03	7.3E-06	1.6E-01	8.2E-02	9.4E-08	1.4E-03	7.0E-03
201	4.9E-01	1.3E-02	1.0E-03	6.7E-06	1.6E-01	8.2E-02	8.7E-08	1.3E-03	6.4E-03
202	4.5E-01	1.3E-02	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.9E-08	1.2E-03	5.9E-03
203	4.1E-01	1.3E-02	1.0E-03	5.6E-06	1.6E-01	8.2E-02	7.2E-08	1.1E-03	5.3E-03
204	2.0E-01	1.3E-02	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.6E-08	5.3E-04	2.7E-03
205	2.3E-01	1.3E-02	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	5.9E-04	2.9E-03
206	2.5E-01	1.3E-02	1.0E-03	3.4E-06	1.6E-01	8.2E-02	4.4E-08	6.5E-04	3.2E-03
207	2.7E-01	1.3E-02	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.2E-04	3.6E-03
208	3.0E-01	1.3E-02	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.9E-04	3.9E-03
209	3.3E-01	1.3E-02	1.0E-03	4.5E-06	1.6E-01	8.2E-02	5.8E-08	8.6E-04	4.3E-03
210	3.6E-01	1.3E-02	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.4E-08	9.4E-04	4.7E-03
211	4.2E-01	1.3E-02	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.5E-08	1.1E-03	5.5E-03
212	4.5E-01	1.3E-02	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.9E-08	1.2E-03	5.9E-03
213	5.0E-01	1.3E-02	1.0E-03	6.8E-06	1.6E-01	8.2E-02	8.8E-08	1.3E-03	6.5E-03
214	5.0E-01	1.3E-02	1.0E-03	6.7E-06	1.6E-01	8.2E-02	8.7E-08	1.3E-03	6.5E-03
215	4.9E-01	1.3E-02	1.0E-03	6.6E-06	1.6E-01	8.2E-02	8.6E-08	1.3E-03	6.3E-03
216	4.7E-01	1.3E-02	1.0E-03	6.4E-06	1.6E-01	8.2E-02	8.2E-08	1.2E-03	6.1E-03
217	4.4E-01	1.3E-02	1.0E-03	6.0E-06	1.6E-01	8.2E-02	7.8E-08	1.2E-03	5.8E-03
218	4.2E-01	1.3E-02	1.0E-03	5.7E-06	1.6E-01	8.2E-02	7.3E-08	1.1E-03	5.4E-03
219	3.9E-01	1.3E-02	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.8E-08	1.0E-03	5.0E-03
220	3.5E-01	1.3E-02	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.2E-08	9.2E-04	4.6E-03
221	1.9E-01	1.3E-02	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	4.9E-04	2.5E-03
222	2.1E-01	1.3E-02	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.6E-08	5.4E-04	2.7E-03
223	2.2E-01	1.3E-02	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	5.9E-04	2.9E-03
224	2.5E-01	1.3E-02	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.3E-08	6.4E-04	3.2E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	1.3E-02	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	7.0E-04	3.5E-03
226	3.1E-01	1.3E-02	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.5E-08	8.2E-04	4.1E-03
227	3.3E-01	1.3E-02	1.0E-03	4.6E-06	1.6E-01	8.2E-02	5.9E-08	8.7E-04	4.4E-03
228	3.5E-01	1.3E-02	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.2E-08	9.2E-04	4.6E-03
229	3.7E-01	1.3E-02	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.5E-08	9.7E-04	4.8E-03
230	4.0E-01	1.3E-02	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.1E-03	5.3E-03
231	4.0E-01	1.3E-02	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.0E-03	5.2E-03
232	4.0E-01	1.3E-02	1.0E-03	5.4E-06	1.6E-01	8.2E-02	7.0E-08	1.0E-03	5.2E-03
233	3.9E-01	1.3E-02	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.8E-08	1.0E-03	5.0E-03
234	3.7E-01	1.3E-02	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.5E-08	9.7E-04	4.8E-03
235	3.5E-01	1.3E-02	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.2E-08	9.2E-04	4.6E-03
236	3.3E-01	1.3E-02	1.0E-03	4.5E-06	1.6E-01	8.2E-02	5.8E-08	8.6E-04	4.3E-03
237	3.1E-01	1.3E-02	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.5E-08	8.1E-04	4.1E-03
238	1.8E+00	1.3E-02	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.2E-07	4.7E-03	2.3E-02
239	1.8E+00	1.3E-02	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.2E-07	4.8E-03	2.4E-02
240	1.9E+00	1.3E-02	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.3E-07	4.8E-03	2.4E-02
241	1.9E+00	1.3E-02	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.3E-07	4.9E-03	2.5E-02
242	1.9E+00	1.3E-02	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.4E-07	5.0E-03	2.5E-02
243	1.9E+00	1.3E-02	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.4E-07	5.1E-03	2.5E-02
244	2.0E+00	1.3E-02	1.0E-03	2.7E-05	1.6E-01	8.2E-02	3.4E-07	5.1E-03	2.6E-02
245	2.0E+00	1.3E-02	1.0E-03	2.7E-05	1.6E-01	8.2E-02	3.5E-07	5.2E-03	2.6E-02
246	2.0E+00	1.3E-02	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.6E-07	5.3E-03	2.7E-02
247	2.1E+00	1.3E-02	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.6E-07	5.4E-03	2.7E-02
248	2.1E+00	1.3E-02	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.7E-07	5.5E-03	2.7E-02
249	2.1E+00	1.3E-02	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.7E-07	5.6E-03	2.8E-02
250	2.2E+00	1.3E-02	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.8E-07	5.6E-03	2.8E-02
251	2.2E+00	1.3E-02	1.0E-03	3.0E-05	1.6E-01	8.2E-02	3.8E-07	5.7E-03	2.8E-02
252	2.2E+00	1.3E-02	1.0E-03	3.0E-05	1.6E-01	8.2E-02	3.8E-07	5.7E-03	2.8E-02
253	2.2E+00	1.3E-02	1.0E-03	3.0E-05	1.6E-01	8.2E-02	3.9E-07	5.8E-03	2.9E-02
254	2.3E+00	1.3E-02	1.0E-03	3.1E-05	1.6E-01	8.2E-02	4.0E-07	5.9E-03	3.0E-02
255	2.3E+00	1.3E-02	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.0E-03	3.0E-02
256	2.3E+00	1.3E-02	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.1E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	1.3E-02	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.2E-07	6.2E-03	3.1E-02
258	2.4E+00	1.3E-02	1.0E-03	3.3E-05	1.6E-01	8.2E-02	4.2E-07	6.3E-03	3.1E-02
259	2.4E+00	1.3E-02	1.0E-03	3.3E-05	1.6E-01	8.2E-02	4.3E-07	6.4E-03	3.2E-02
260	2.5E+00	1.3E-02	1.0E-03	3.3E-05	1.6E-01	8.2E-02	4.3E-07	6.4E-03	3.2E-02
261	2.5E+00	1.3E-02	1.0E-03	3.4E-05	1.6E-01	8.2E-02	4.4E-07	6.6E-03	3.3E-02
262	2.6E+00	1.3E-02	1.0E-03	3.5E-05	1.6E-01	8.2E-02	4.5E-07	6.7E-03	3.3E-02
263	2.6E+00	1.3E-02	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.6E-07	6.8E-03	3.4E-02
264	2.6E+00	1.3E-02	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.6E-07	6.9E-03	3.4E-02
265	2.7E+00	1.3E-02	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.7E-07	7.0E-03	3.5E-02
266	2.7E+00	1.3E-02	1.0E-03	3.7E-05	1.6E-01	8.2E-02	4.8E-07	7.1E-03	3.5E-02
267	2.7E+00	1.3E-02	1.0E-03	3.7E-05	1.6E-01	8.2E-02	4.8E-07	7.1E-03	3.6E-02
268	2.7E+00	1.3E-02	1.0E-03	3.7E-05	1.6E-01	8.2E-02	4.8E-07	7.2E-03	3.6E-02
269	2.8E+00	1.3E-02	1.0E-03	3.8E-05	1.6E-01	8.2E-02	4.8E-07	7.2E-03	3.6E-02
270	2.8E+00	1.3E-02	1.0E-03	3.8E-05	1.6E-01	8.2E-02	4.9E-07	7.2E-03	3.6E-02
271	2.9E+00	1.3E-02	1.0E-03	4.0E-05	1.6E-01	8.2E-02	5.1E-07	7.6E-03	3.8E-02
272	3.0E+00	1.3E-02	1.0E-03	4.0E-05	1.6E-01	8.2E-02	5.2E-07	7.7E-03	3.9E-02
273	3.0E+00	1.3E-02	1.0E-03	4.1E-05	1.6E-01	8.2E-02	5.3E-07	7.8E-03	3.9E-02
274	3.0E+00	1.3E-02	1.0E-03	4.1E-05	1.6E-01	8.2E-02	5.3E-07	7.9E-03	3.9E-02
275	3.0E+00	1.3E-02	1.0E-03	4.2E-05	1.6E-01	8.2E-02	5.4E-07	8.0E-03	4.0E-02
276	3.1E+00	1.3E-02	1.0E-03	4.2E-05	1.6E-01	8.2E-02	5.4E-07	8.0E-03	4.0E-02
277	3.1E+00	1.3E-02	1.0E-03	4.2E-05	1.6E-01	8.2E-02	5.4E-07	8.0E-03	4.0E-02
278	3.1E+00	1.3E-02	1.0E-03	4.2E-05	1.6E-01	8.2E-02	5.4E-07	8.0E-03	4.0E-02
279	3.1E+00	1.3E-02	1.0E-03	4.2E-05	1.6E-01	8.2E-02	5.4E-07	8.0E-03	4.0E-02
280	3.0E+00	1.3E-02	1.0E-03	4.1E-05	1.6E-01	8.2E-02	5.3E-07	7.9E-03	3.9E-02
281	3.0E+00	1.3E-02	1.0E-03	4.1E-05	1.6E-01	8.2E-02	5.3E-07	7.8E-03	3.9E-02
282	3.4E+00	1.3E-02	1.0E-03	4.6E-05	1.6E-01	8.2E-02	5.9E-07	8.8E-03	4.4E-02
283	3.4E+00	1.3E-02	1.0E-03	4.6E-05	1.6E-01	8.2E-02	6.0E-07	8.9E-03	4.4E-02
284	3.4E+00	1.3E-02	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.0E-07	8.9E-03	4.5E-02
285	3.4E+00	1.3E-02	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.0E-07	9.0E-03	4.5E-02
286	3.4E+00	1.3E-02	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.1E-07	9.0E-03	4.5E-02
287	3.4E+00	1.3E-02	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.0E-07	9.0E-03	4.5E-02
288	3.4E+00	1.3E-02	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.0E-07	8.9E-03	4.5E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	1.3E-02	1.0E-03	4.6E-05	1.6E-01	8.2E-02	5.9E-07	8.8E-03	4.4E-02
290	3.3E+00	1.3E-02	1.0E-03	4.5E-05	1.6E-01	8.2E-02	5.9E-07	8.7E-03	4.3E-02
291	3.3E+00	1.3E-02	1.0E-03	4.5E-05	1.6E-01	8.2E-02	5.8E-07	8.6E-03	4.3E-02
292	3.3E+00	1.3E-02	1.0E-03	4.4E-05	1.6E-01	8.2E-02	5.7E-07	8.5E-03	4.2E-02
293	3.9E+00	1.3E-02	1.0E-03	5.3E-05	1.6E-01	8.2E-02	6.8E-07	1.0E-02	5.1E-02
294	3.9E+00	1.3E-02	1.0E-03	5.3E-05	1.6E-01	8.2E-02	6.8E-07	1.0E-02	5.1E-02
295	3.9E+00	1.3E-02	1.0E-03	5.3E-05	1.6E-01	8.2E-02	6.8E-07	1.0E-02	5.0E-02
296	3.8E+00	1.3E-02	1.0E-03	5.2E-05	1.6E-01	8.2E-02	6.7E-07	9.9E-03	5.0E-02
297	3.8E+00	1.3E-02	1.0E-03	5.1E-05	1.6E-01	8.2E-02	6.6E-07	9.8E-03	4.9E-02
298	3.7E+00	1.3E-02	1.0E-03	5.1E-05	1.6E-01	8.2E-02	6.5E-07	9.7E-03	4.8E-02
299	3.7E+00	1.3E-02	1.0E-03	5.0E-05	1.6E-01	8.2E-02	6.4E-07	9.6E-03	4.8E-02
300	3.6E+00	1.3E-02	1.0E-03	4.9E-05	1.6E-01	8.2E-02	6.3E-07	9.4E-03	4.7E-02
301	3.5E+00	1.3E-02	1.0E-03	4.8E-05	1.6E-01	8.2E-02	6.2E-07	9.2E-03	4.6E-02
302	3.5E+00	1.3E-02	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.1E-07	9.0E-03	4.5E-02
303	3.4E+00	1.3E-02	1.0E-03	4.6E-05	1.6E-01	8.2E-02	6.0E-07	8.8E-03	4.4E-02
304	4.4E+00	1.3E-02	1.0E-03	5.9E-05	1.6E-01	8.2E-02	7.7E-07	1.1E-02	5.7E-02
305	4.3E+00	1.3E-02	1.0E-03	5.9E-05	1.6E-01	8.2E-02	7.6E-07	1.1E-02	5.6E-02
306	4.2E+00	1.3E-02	1.0E-03	5.8E-05	1.6E-01	8.2E-02	7.5E-07	1.1E-02	5.5E-02
307	4.2E+00	1.3E-02	1.0E-03	5.7E-05	1.6E-01	8.2E-02	7.3E-07	1.1E-02	5.4E-02
308	4.1E+00	1.3E-02	1.0E-03	5.6E-05	1.6E-01	8.2E-02	7.2E-07	1.1E-02	5.3E-02
309	4.0E+00	1.3E-02	1.0E-03	5.5E-05	1.6E-01	8.2E-02	7.1E-07	1.0E-02	5.2E-02
310	3.9E+00	1.3E-02	1.0E-03	5.3E-05	1.6E-01	8.2E-02	6.9E-07	1.0E-02	5.1E-02
311	3.8E+00	1.3E-02	1.0E-03	5.2E-05	1.6E-01	8.2E-02	6.7E-07	1.0E-02	5.0E-02
312	3.7E+00	1.3E-02	1.0E-03	5.1E-05	1.6E-01	8.2E-02	6.6E-07	9.7E-03	4.9E-02
313	3.6E+00	1.3E-02	1.0E-03	4.9E-05	1.6E-01	8.2E-02	6.4E-07	9.5E-03	4.7E-02
314	3.5E+00	1.3E-02	1.0E-03	4.8E-05	1.6E-01	8.2E-02	6.2E-07	9.2E-03	4.6E-02
315	3.4E+00	1.3E-02	1.0E-03	4.6E-05	1.6E-01	8.2E-02	6.0E-07	8.9E-03	4.4E-02
316	4.7E+00	1.3E-02	1.0E-03	6.4E-05	1.6E-01	8.2E-02	8.3E-07	1.2E-02	6.1E-02
317	4.6E+00	1.3E-02	1.0E-03	6.3E-05	1.6E-01	8.2E-02	8.1E-07	1.2E-02	6.0E-02
318	4.5E+00	1.3E-02	1.0E-03	6.1E-05	1.6E-01	8.2E-02	7.9E-07	1.2E-02	5.8E-02
319	4.4E+00	1.3E-02	1.0E-03	5.9E-05	1.6E-01	8.2E-02	7.7E-07	1.1E-02	5.7E-02
320	4.2E+00	1.3E-02	1.0E-03	5.8E-05	1.6E-01	8.2E-02	7.5E-07	1.1E-02	5.5E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	1.3E-02	1.0E-03	5.6E-05	1.6E-01	8.2E-02	7.2E-07	1.1E-02	5.4E-02
322	4.0E+00	1.3E-02	1.0E-03	5.4E-05	1.6E-01	8.2E-02	7.0E-07	1.0E-02	5.2E-02
323	3.8E+00	1.3E-02	1.0E-03	5.2E-05	1.6E-01	8.2E-02	6.8E-07	1.0E-02	5.0E-02
324	3.7E+00	1.3E-02	1.0E-03	5.1E-05	1.6E-01	8.2E-02	6.5E-07	9.7E-03	4.8E-02
325	5.0E+00	1.3E-02	1.0E-03	6.8E-05	1.6E-01	8.2E-02	8.8E-07	1.3E-02	6.5E-02
326	4.9E+00	1.3E-02	1.0E-03	6.6E-05	1.6E-01	8.2E-02	8.5E-07	1.3E-02	6.3E-02
327	4.7E+00	1.3E-02	1.0E-03	6.4E-05	1.6E-01	8.2E-02	8.3E-07	1.2E-02	6.1E-02
328	4.5E+00	1.3E-02	1.0E-03	6.2E-05	1.6E-01	8.2E-02	8.0E-07	1.2E-02	5.9E-02
329	4.4E+00	1.3E-02	1.0E-03	5.9E-05	1.6E-01	8.2E-02	7.7E-07	1.1E-02	5.7E-02
330	4.2E+00	1.3E-02	1.0E-03	5.7E-05	1.6E-01	8.2E-02	7.4E-07	1.1E-02	5.5E-02
331	5.2E+00	1.3E-02	1.0E-03	7.1E-05	1.6E-01	8.2E-02	9.2E-07	1.4E-02	6.8E-02
332	5.0E+00	1.3E-02	1.0E-03	6.8E-05	1.6E-01	8.2E-02	8.8E-07	1.3E-02	6.5E-02
333	4.8E+00	1.3E-02	1.0E-03	6.5E-05	1.6E-01	8.2E-02	8.4E-07	1.3E-02	6.3E-02
334	4.6E+00	1.3E-02	1.0E-03	6.3E-05	1.6E-01	8.2E-02	8.1E-07	1.2E-02	6.0E-02
335	1.7E+00	1.3E-02	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.1E-07	4.5E-03	2.3E-02
336	1.8E+00	1.3E-02	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.1E-07	4.6E-03	2.3E-02
337	1.8E+00	1.3E-02	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.2E-07	4.8E-03	2.4E-02
338	1.9E+00	1.3E-02	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.3E-07	4.9E-03	2.4E-02
339	1.9E+00	1.3E-02	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.3E-07	4.9E-03	2.5E-02
340	1.9E+00	1.3E-02	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.4E-07	5.0E-03	2.5E-02
341	2.0E+00	1.3E-02	1.0E-03	2.7E-05	1.6E-01	8.2E-02	3.5E-07	5.2E-03	2.6E-02
342	2.0E+00	1.3E-02	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.6E-07	5.3E-03	2.7E-02
343	2.0E+00	1.3E-02	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.6E-07	5.3E-03	2.7E-02
344	2.1E+00	1.3E-02	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.7E-07	5.5E-03	2.8E-02
345	2.2E+00	1.3E-02	1.0E-03	3.0E-05	1.6E-01	8.2E-02	3.8E-07	5.7E-03	2.8E-02
346	2.2E+00	1.3E-02	1.0E-03	3.1E-05	1.6E-01	8.2E-02	4.0E-07	5.9E-03	2.9E-02
347	2.2E+00	1.3E-02	1.0E-03	3.0E-05	1.6E-01	8.2E-02	3.9E-07	5.8E-03	2.9E-02
348	2.3E+00	1.3E-02	1.0E-03	3.1E-05	1.6E-01	8.2E-02	4.1E-07	6.0E-03	3.0E-02
349	2.4E+00	1.3E-02	1.0E-03	3.3E-05	1.6E-01	8.2E-02	4.2E-07	6.2E-03	3.1E-02
350	2.5E+00	1.3E-02	1.0E-03	3.4E-05	1.6E-01	8.2E-02	4.4E-07	6.5E-03	3.2E-02
351	2.4E+00	1.3E-02	1.0E-03	3.3E-05	1.6E-01	8.2E-02	4.3E-07	6.3E-03	3.2E-02
352	2.5E+00	1.3E-02	1.0E-03	3.5E-05	1.6E-01	8.2E-02	4.5E-07	6.6E-03	3.3E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	1.3E-02	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.6E-07	6.9E-03	3.4E-02
354	2.7E+00	1.3E-02	1.0E-03	3.7E-05	1.6E-01	8.2E-02	4.8E-07	7.1E-03	3.6E-02
355	2.6E+00	1.3E-02	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.7E-07	6.9E-03	3.5E-02
356	2.8E+00	1.3E-02	1.0E-03	3.8E-05	1.6E-01	8.2E-02	4.9E-07	7.2E-03	3.6E-02
357	2.9E+00	1.3E-02	1.0E-03	4.0E-05	1.6E-01	8.2E-02	5.1E-07	7.6E-03	3.8E-02
358	3.0E+00	1.3E-02	1.0E-03	4.1E-05	1.6E-01	8.2E-02	5.4E-07	7.9E-03	4.0E-02
359	2.9E+00	1.3E-02	1.0E-03	4.0E-05	1.6E-01	8.2E-02	5.1E-07	7.6E-03	3.8E-02
360	3.1E+00	1.3E-02	1.0E-03	4.2E-05	1.6E-01	8.2E-02	5.4E-07	8.0E-03	4.0E-02
361	3.2E+00	1.3E-02	1.0E-03	4.4E-05	1.6E-01	8.2E-02	5.7E-07	8.4E-03	4.2E-02
362	3.4E+00	1.3E-02	1.0E-03	4.6E-05	1.6E-01	8.2E-02	6.0E-07	8.8E-03	4.4E-02
363	3.2E+00	1.3E-02	1.0E-03	4.3E-05	1.6E-01	8.2E-02	5.6E-07	8.3E-03	4.2E-02
364	3.4E+00	1.3E-02	1.0E-03	4.6E-05	1.6E-01	8.2E-02	6.0E-07	8.8E-03	4.4E-02
365	3.6E+00	1.3E-02	1.0E-03	4.9E-05	1.6E-01	8.2E-02	6.3E-07	9.4E-03	4.7E-02
366	3.8E+00	1.3E-02	1.0E-03	5.2E-05	1.6E-01	8.2E-02	6.7E-07	9.9E-03	5.0E-02
367	3.5E+00	1.3E-02	1.0E-03	4.8E-05	1.6E-01	8.2E-02	6.2E-07	9.1E-03	4.6E-02
368	3.7E+00	1.3E-02	1.0E-03	5.1E-05	1.6E-01	8.2E-02	6.6E-07	9.8E-03	4.9E-02
369	4.0E+00	1.3E-02	1.0E-03	5.5E-05	1.6E-01	8.2E-02	7.1E-07	1.0E-02	5.2E-02
370	4.3E+00	1.3E-02	1.0E-03	5.8E-05	1.6E-01	8.2E-02	7.5E-07	1.1E-02	5.6E-02
371	3.8E+00	1.3E-02	1.0E-03	5.2E-05	1.6E-01	8.2E-02	6.7E-07	1.0E-02	5.0E-02
372	4.1E+00	1.3E-02	1.0E-03	5.6E-05	1.6E-01	8.2E-02	7.3E-07	1.1E-02	5.4E-02
373	4.5E+00	1.3E-02	1.0E-03	6.1E-05	1.6E-01	8.2E-02	7.9E-07	1.2E-02	5.8E-02
374	4.8E+00	1.3E-02	1.0E-03	6.6E-05	1.6E-01	8.2E-02	8.5E-07	1.3E-02	6.3E-02
375	4.2E+00	1.3E-02	1.0E-03	5.7E-05	1.6E-01	8.2E-02	7.4E-07	1.1E-02	5.5E-02
376	4.6E+00	1.3E-02	1.0E-03	6.2E-05	1.6E-01	8.2E-02	8.0E-07	1.2E-02	6.0E-02
377	5.0E+00	1.3E-02	1.0E-03	6.8E-05	1.6E-01	8.2E-02	8.8E-07	1.3E-02	6.5E-02
378	5.5E+00	1.3E-02	1.0E-03	7.5E-05	1.6E-01	8.2E-02	9.6E-07	1.4E-02	7.1E-02
379	4.5E+00	1.3E-02	1.0E-03	6.2E-05	1.6E-01	8.2E-02	8.0E-07	1.2E-02	5.9E-02
380	5.0E+00	1.3E-02	1.0E-03	6.8E-05	1.6E-01	8.2E-02	8.8E-07	1.3E-02	6.6E-02
381	5.6E+00	1.3E-02	1.0E-03	7.6E-05	1.6E-01	8.2E-02	9.8E-07	1.5E-02	7.3E-02
382	6.2E+00	1.3E-02	1.0E-03	8.4E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	8.1E-02
383	4.9E+00	1.3E-02	1.0E-03	6.7E-05	1.6E-01	8.2E-02	8.6E-07	1.3E-02	6.4E-02
384	5.5E+00	1.3E-02	1.0E-03	7.5E-05	1.6E-01	8.2E-02	9.6E-07	1.4E-02	7.1E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	1.3E-02	1.0E-03	8.4E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	8.0E-02
386	6.9E+00	1.3E-02	1.0E-03	9.5E-05	1.6E-01	8.2E-02	1.2E-06	1.8E-02	9.0E-02
387	5.2E+00	1.3E-02	1.0E-03	7.1E-05	1.6E-01	8.2E-02	9.2E-07	1.4E-02	6.8E-02
388	5.9E+00	1.3E-02	1.0E-03	8.1E-05	1.6E-01	8.2E-02	1.0E-06	1.5E-02	7.7E-02
389	6.7E+00	1.3E-02	1.0E-03	9.1E-05	1.6E-01	8.2E-02	1.2E-06	1.7E-02	8.7E-02
390	7.7E+00	1.3E-02	1.0E-03	1.0E-04	1.6E-01	8.2E-02	1.4E-06	2.0E-02	1.0E-01
391	5.6E+00	1.3E-02	1.0E-03	7.6E-05	1.6E-01	8.2E-02	9.8E-07	1.4E-02	7.2E-02
392	6.3E+00	1.3E-02	1.0E-03	8.6E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	8.2E-02
393	7.2E+00	1.3E-02	1.0E-03	9.9E-05	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.4E-02
394	8.4E+00	1.3E-02	1.0E-03	1.1E-04	1.6E-01	8.2E-02	1.5E-06	2.2E-02	1.1E-01
395	5.8E+00	1.3E-02	1.0E-03	7.9E-05	1.6E-01	8.2E-02	1.0E-06	1.5E-02	7.6E-02
396	6.7E+00	1.3E-02	1.0E-03	9.1E-05	1.6E-01	8.2E-02	1.2E-06	1.7E-02	8.7E-02
397	7.7E+00	1.3E-02	1.0E-03	1.1E-04	1.6E-01	8.2E-02	1.4E-06	2.0E-02	1.0E-01
398	9.1E+00	1.3E-02	1.0E-03	1.2E-04	1.6E-01	8.2E-02	1.6E-06	2.4E-02	1.2E-01
399	6.0E+00	1.3E-02	1.0E-03	8.2E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	7.9E-02
400	7.0E+00	1.3E-02	1.0E-03	9.5E-05	1.6E-01	8.2E-02	1.2E-06	1.8E-02	9.1E-02
401	8.1E+00	1.3E-02	1.0E-03	1.1E-04	1.6E-01	8.2E-02	1.4E-06	2.1E-02	1.1E-01
402	9.6E+00	1.3E-02	1.0E-03	1.3E-04	1.6E-01	8.2E-02	1.7E-06	2.5E-02	1.3E-01
403	6.2E+00	1.3E-02	1.0E-03	8.5E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	8.1E-02
404	7.2E+00	1.3E-02	1.0E-03	9.8E-05	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.4E-02
405	8.4E+00	1.3E-02	1.0E-03	1.2E-04	1.6E-01	8.2E-02	1.5E-06	2.2E-02	1.1E-01
406	1.0E+01	1.3E-02	1.0E-03	1.4E-04	1.6E-01	8.2E-02	1.8E-06	2.6E-02	1.3E-01
407	6.3E+00	1.3E-02	1.0E-03	8.6E-05	1.6E-01	8.2E-02	1.1E-06	1.7E-02	8.3E-02
408	7.4E+00	1.3E-02	1.0E-03	1.0E-04	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.6E-02
409	8.7E+00	1.3E-02	1.0E-03	1.2E-04	1.6E-01	8.2E-02	1.5E-06	2.3E-02	1.1E-01
410	1.0E+01	1.3E-02	1.0E-03	1.4E-04	1.6E-01	8.2E-02	1.8E-06	2.7E-02	1.4E-01
411	6.4E+00	1.3E-02	1.0E-03	8.7E-05	1.6E-01	8.2E-02	1.1E-06	1.7E-02	8.3E-02
412	7.5E+00	1.3E-02	1.0E-03	1.0E-04	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.7E-02
413	8.8E+00	1.3E-02	1.0E-03	1.2E-04	1.6E-01	8.2E-02	1.6E-06	2.3E-02	1.2E-01
414	1.1E+01	1.3E-02	1.0E-03	1.4E-04	1.6E-01	8.2E-02	1.9E-06	2.8E-02	1.4E-01
415	6.4E+00	1.3E-02	1.0E-03	8.7E-05	1.6E-01	8.2E-02	1.1E-06	1.7E-02	8.3E-02
416	7.5E+00	1.3E-02	1.0E-03	1.0E-04	1.6E-01	8.2E-02	1.3E-06	2.0E-02	9.8E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	1.3E-02	1.0E-03	1.2E-04	1.6E-01	8.2E-02	1.6E-06	2.3E-02	1.2E-01
418	1.1E+01	1.3E-02	1.0E-03	1.5E-04	1.6E-01	8.2E-02	1.9E-06	2.8E-02	1.4E-01
419	6.4E+00	1.3E-02	1.0E-03	8.7E-05	1.6E-01	8.2E-02	1.1E-06	1.7E-02	8.3E-02
420	7.5E+00	1.3E-02	1.0E-03	1.0E-04	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.7E-02
421	8.9E+00	1.3E-02	1.0E-03	1.2E-04	1.6E-01	8.2E-02	1.6E-06	2.3E-02	1.2E-01
422	1.1E+01	1.3E-02	1.0E-03	1.5E-04	1.6E-01	8.2E-02	1.9E-06	2.8E-02	1.4E-01
423	6.3E+00	1.3E-02	1.0E-03	8.5E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	8.2E-02
424	7.4E+00	1.3E-02	1.0E-03	1.0E-04	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.6E-02
425	8.8E+00	1.3E-02	1.0E-03	1.2E-04	1.6E-01	8.2E-02	1.5E-06	2.3E-02	1.1E-01
426	1.1E+01	1.3E-02	1.0E-03	1.4E-04	1.6E-01	8.2E-02	1.9E-06	2.8E-02	1.4E-01
427	6.1E+00	1.3E-02	1.0E-03	8.3E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	8.0E-02
428	7.2E+00	1.3E-02	1.0E-03	9.8E-05	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.4E-02
429	8.6E+00	1.3E-02	1.0E-03	1.2E-04	1.6E-01	8.2E-02	1.5E-06	2.2E-02	1.1E-01
430	1.0E+01	1.3E-02	1.0E-03	1.4E-04	1.6E-01	8.2E-02	1.8E-06	2.7E-02	1.4E-01
431	5.9E+00	1.3E-02	1.0E-03	8.0E-05	1.6E-01	8.2E-02	1.0E-06	1.5E-02	7.7E-02
432	6.9E+00	1.3E-02	1.0E-03	9.4E-05	1.6E-01	8.2E-02	1.2E-06	1.8E-02	9.0E-02
433	8.3E+00	1.3E-02	1.0E-03	1.1E-04	1.6E-01	8.2E-02	1.5E-06	2.2E-02	1.1E-01
434	1.0E+01	1.3E-02	1.0E-03	1.4E-04	1.6E-01	8.2E-02	1.8E-06	2.6E-02	1.3E-01
435	5.6E+00	1.3E-02	1.0E-03	7.7E-05	1.6E-01	8.2E-02	9.9E-07	1.5E-02	7.4E-02
436	6.6E+00	1.3E-02	1.0E-03	9.0E-05	1.6E-01	8.2E-02	1.2E-06	1.7E-02	8.6E-02
437	7.9E+00	1.3E-02	1.0E-03	1.1E-04	1.6E-01	8.2E-02	1.4E-06	2.1E-02	1.0E-01
438	9.6E+00	1.3E-02	1.0E-03	1.3E-04	1.6E-01	8.2E-02	1.7E-06	2.5E-02	1.2E-01
439	5.4E+00	1.3E-02	1.0E-03	7.3E-05	1.6E-01	8.2E-02	9.4E-07	1.4E-02	7.0E-02
440	6.3E+00	1.3E-02	1.0E-03	8.5E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	8.2E-02
441	7.4E+00	1.3E-02	1.0E-03	1.0E-04	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.7E-02
442	9.0E+00	1.3E-02	1.0E-03	1.2E-04	1.6E-01	8.2E-02	1.6E-06	2.3E-02	1.2E-01
443	5.0E+00	1.3E-02	1.0E-03	6.9E-05	1.6E-01	8.2E-02	8.9E-07	1.3E-02	6.6E-02
444	5.9E+00	1.3E-02	1.0E-03	8.0E-05	1.6E-01	8.2E-02	1.0E-06	1.5E-02	7.6E-02
445	6.9E+00	1.3E-02	1.0E-03	9.4E-05	1.6E-01	8.2E-02	1.2E-06	1.8E-02	9.0E-02
446	8.3E+00	1.3E-02	1.0E-03	1.1E-04	1.6E-01	8.2E-02	1.5E-06	2.2E-02	1.1E-01
447	4.7E+00	1.3E-02	1.0E-03	6.4E-05	1.6E-01	8.2E-02	8.3E-07	1.2E-02	6.1E-02
448	5.4E+00	1.3E-02	1.0E-03	7.4E-05	1.6E-01	8.2E-02	9.6E-07	1.4E-02	7.1E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	1.3E-02	1.0E-03	8.7E-05	1.6E-01	8.2E-02	1.1E-06	1.7E-02	8.3E-02
450	7.6E+00	1.3E-02	1.0E-03	1.0E-04	1.6E-01	8.2E-02	1.3E-06	2.0E-02	9.8E-02
451	4.4E-01	1.3E-02	1.0E-03	6.0E-06	1.6E-01	8.2E-02	7.8E-08	1.2E-03	5.8E-03
452	4.4E-01	1.3E-02	1.0E-03	6.0E-06	1.6E-01	8.2E-02	7.8E-08	1.2E-03	5.8E-03
453	4.4E-01	1.3E-02	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.8E-08	1.2E-03	5.8E-03
454	4.5E-01	1.3E-02	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.8E-08	1.2E-03	5.8E-03
455	5.4E-01	1.3E-02	1.0E-03	7.3E-06	1.6E-01	8.2E-02	9.5E-08	1.4E-03	7.0E-03
456	5.4E-01	1.3E-02	1.0E-03	7.4E-06	1.6E-01	8.2E-02	9.5E-08	1.4E-03	7.1E-03
457	5.5E-01	1.3E-02	1.0E-03	7.4E-06	1.6E-01	8.2E-02	9.6E-08	1.4E-03	7.1E-03
458	5.4E-01	1.3E-02	1.0E-03	7.4E-06	1.6E-01	8.2E-02	9.5E-08	1.4E-03	7.1E-03
459	6.8E-01	1.3E-02	1.0E-03	9.3E-06	1.6E-01	8.2E-02	1.2E-07	1.8E-03	8.9E-03
460	6.8E-01	1.3E-02	1.0E-03	9.3E-06	1.6E-01	8.2E-02	1.2E-07	1.8E-03	8.9E-03
461	6.8E-01	1.3E-02	1.0E-03	9.3E-06	1.6E-01	8.2E-02	1.2E-07	1.8E-03	8.9E-03
462	7.8E-01	1.3E-02	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.4E-07	2.0E-03	1.0E-02
463	9.7E-01	1.3E-02	1.0E-03	1.3E-05	1.6E-01	8.2E-02	1.7E-07	2.5E-03	1.3E-02
464	7.9E-01	1.3E-02	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.4E-07	2.1E-03	1.0E-02
465	1.0E+00	1.3E-02	1.0E-03	1.4E-05	1.6E-01	8.2E-02	1.8E-07	2.6E-03	1.3E-02
466	1.3E+00	1.3E-02	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.4E-03	1.7E-02
467	1.8E+00	1.3E-02	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.1E-07	4.6E-03	2.3E-02
468	7.7E-01	1.3E-02	1.0E-03	1.0E-05	1.6E-01	8.2E-02	1.4E-07	2.0E-03	1.0E-02
469	9.8E-01	1.3E-02	1.0E-03	1.3E-05	1.6E-01	8.2E-02	1.7E-07	2.6E-03	1.3E-02
470	1.3E+00	1.3E-02	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.4E-03	1.7E-02
471	1.8E+00	1.3E-02	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.2E-07	4.8E-03	2.4E-02
472	9.2E-01	1.3E-02	1.0E-03	1.3E-05	1.6E-01	8.2E-02	1.6E-07	2.4E-03	1.2E-02
473	1.2E+00	1.3E-02	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.2E-07	3.2E-03	1.6E-02
474	1.7E+00	1.3E-02	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.1E-07	4.5E-03	2.3E-02
475	8.3E-01	1.3E-02	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.5E-07	2.2E-03	1.1E-02
476	1.1E+00	1.3E-02	1.0E-03	1.5E-05	1.6E-01	8.2E-02	1.9E-07	2.9E-03	1.4E-02
477	1.5E+00	1.3E-02	1.0E-03	2.1E-05	1.6E-01	8.2E-02	2.7E-07	4.0E-03	2.0E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
1	2.8E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	2.7E+00	2.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12
2	2.9E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12
3	3.1E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12
4	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
5	3.3E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.5E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
6	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
7	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
8	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	4.1E+00	2.3E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11
9	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
10	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
11	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.8E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
12	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.8E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
13	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
14	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
15	2.9E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	4.1E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
16	2.8E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
17	3.1E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.2E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12
18	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12
19	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
20	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	3.6E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11
21	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
22	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.1E+00	2.3E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
23	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
24	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
25	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
26	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
27	3.1E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
28	3.4E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12
29	3.8E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
30	4.1E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.9E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
31	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
32	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
33	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.2E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
34	5.0E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.5E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
35	5.3E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
36	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
37	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	7.1E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
38	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
39	5.3E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
40	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
41	3.7E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
42	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
43	3.7E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
44	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.8E-12	3.6E+00	2.3E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11
45	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
46	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
47	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	5.3E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
48	5.6E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
49	5.9E+00	1.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11	6.3E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
50	6.2E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11
51	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
52	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	8.8E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
53	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	9.2E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
54	6.3E+00	1.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	9.4E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
55	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	9.3E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11
56	5.7E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
57	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
58	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	6.5E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
59	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
60	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	6.9E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
61	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.7E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11
62	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	4.2E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
63	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
64	5.7E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.3E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
65	7.0E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11
66	7.5E+00	1.3E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11	8.2E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11
67	7.9E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
68	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
69	7.9E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
70	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	1.2E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
71	7.2E+00	1.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
72	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
73	4.4E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
74	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	3.8E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
75	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
76	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	4.9E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
77	6.7E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
78	7.3E+00	1.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	6.5E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
79	8.0E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
80	9.9E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
81	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	1.4E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
82	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
83	9.5E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
84	8.9E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
85	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
86	4.5E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	3.4E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
87	5.2E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.9E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
88	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
89	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
90	7.7E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
91	8.7E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
92	9.7E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	8.1E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11
93	1.1E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
94	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
95	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	2.6E+01	2.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
96	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
97	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.2E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
98	5.5E+00	1.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.4E-12	3.8E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
99	6.4E+00	1.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
100	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11
101	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
102	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.1E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
103	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
104	4.8E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	3.3E+00	2.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11
105	5.7E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
106	6.7E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
107	1.8E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
108	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.4E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
109	4.7E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	3.2E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	9.9E-12
110	5.6E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
111	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
112	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11	1.1E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
113	3.0E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
114	4.5E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12
115	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
116	6.6E+00	1.3E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11	4.1E+00	2.3E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11
117	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
118	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
119	4.2E+01	1.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
120	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12
121	5.1E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	3.3E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
122	6.2E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.1E-11	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
123	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
124	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.0E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
125	4.8E+01	1.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
126	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	6.9E-12	2.8E+00	2.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12
127	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	3.2E+00	2.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12
128	5.7E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
129	7.1E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
130	8.9E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
131	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
132	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
133	2.4E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
134	4.0E+01	1.3E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	3.9E-11
135	8.8E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
136	3.8E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12
137	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	3.0E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.4E-12
138	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12	3.4E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
139	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
140	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
141	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.6E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11
142	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
143	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	8.6E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
144	3.0E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
145	5.2E+01	1.3E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
146	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.5E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12
147	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.2E-12	2.9E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12
148	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	3.2E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
149	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	3.8E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11
150	7.3E+00	1.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11
151	9.2E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
152	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
153	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.6E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
154	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	9.5E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
155	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11	1.2E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
156	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	2.4E+00	2.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12
157	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	2.7E+00	2.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12
158	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.5E-12
159	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
160	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
161	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
162	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
163	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
164	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	8.1E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
165	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.0E+01	2.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
166	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.5E-12	2.3E+00	2.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12
167	3.7E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.9E-12
168	4.2E+00	1.3E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	2.9E+00	2.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12
169	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.5E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
170	5.9E+00	1.3E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	1.0E-11	3.7E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11
171	7.0E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
172	8.5E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
173	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
174	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
175	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	8.3E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
176	3.0E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.1E-12	2.2E+00	2.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12
177	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	2.4E+00	2.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12
178	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12
179	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.0E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12
180	5.2E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
181	6.1E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
182	7.2E+00	1.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
183	8.4E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
184	9.8E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
185	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	6.8E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
186	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.1E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
187	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	5.2E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
188	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
189	2.8E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	2.0E+00	2.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12
190	3.1E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	2.3E+00	2.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12
191	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	2.5E+00	2.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12
192	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.9E-12	2.8E+00	2.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
193	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12
194	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
195	6.1E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	3.9E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
196	6.9E+00	1.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
197	8.6E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
198	7.1E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
199	6.2E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
200	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
201	4.7E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
202	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
203	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
204	2.6E+00	1.3E-07	1.0E-03	3.4E-10	1.6E-01	8.2E-02	4.4E-12	1.9E+00	2.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12
205	2.9E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	2.1E+00	2.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12
206	3.2E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	2.3E+00	2.3E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12
207	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12
208	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.8E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12
209	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12
210	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
211	6.3E+00	1.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
212	6.7E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
213	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
214	6.2E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
215	5.8E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
216	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
217	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
218	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
219	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
220	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.4E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
221	2.4E+00	1.3E-07	1.0E-03	3.2E-10	1.6E-01	8.2E-02	4.1E-12	1.8E+00	2.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12
222	2.7E+00	1.3E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	2.0E+00	2.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12
223	3.0E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	2.2E+00	2.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12
224	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	2.4E+00	2.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
225	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12
226	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12
227	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
228	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	3.7E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11
229	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
230	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
231	5.0E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
232	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
233	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	4.2E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
234	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	3.9E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
235	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
236	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.3E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
237	2.9E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.5E-12
238	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
239	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
240	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
241	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
242	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
243	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
244	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
245	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
246	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
247	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
248	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
249	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
250	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
251	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
252	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
253	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
254	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
255	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
256	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
257	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
258	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
259	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11
260	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.4E-11
261	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
262	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
263	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
264	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.0E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
265	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
266	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.2E+01	2.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
267	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.2E+01	2.3E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	6.9E-11
268	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.3E+01	2.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
269	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.4E+01	2.3E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.3E-11
270	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
271	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
272	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.2E+01	2.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
273	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	2.2E+01	2.3E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	7.0E-11
274	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	2.3E+01	2.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
275	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
276	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.5E+01	2.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.7E-11
277	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.6E+01	2.3E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11
278	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.6E+01	2.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.2E-11
279	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.7E+01	2.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11
280	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.8E+01	2.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11
281	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.8E+01	2.3E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11
282	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
283	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.5E+01	2.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11
284	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.6E+01	2.3E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.1E-11
285	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.7E+01	2.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.3E-11
286	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.8E+01	2.3E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.6E-11
287	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.9E+01	2.3E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
288	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.0E+01	2.3E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
289	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.0E+01	2.3E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11
290	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.1E+01	2.3E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.6E-11
291	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.2E+01	2.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
292	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.2E+01	2.3E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	9.9E-11
293	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	2.9E+01	2.3E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.1E-11
294	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.0E+01	2.3E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11
295	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.2E+01	2.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
296	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.3E+01	2.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10
297	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.4E+01	2.3E-07	1.0E-03	8.1E-09	1.6E-01	8.2E-02	1.0E-10
298	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.5E+01	2.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
299	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.5E+01	2.3E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
300	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10
301	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
302	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.6E+01	2.3E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10
303	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
304	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.5E+01	2.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
305	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
306	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+01	2.3E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10
307	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.9E+01	2.3E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
308	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.0E+01	2.3E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
309	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.1E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10
310	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.1E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
311	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.2E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
312	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.2E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
313	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.1E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10
314	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.0E+01	2.3E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
315	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.9E+01	2.3E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
316	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.4E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
317	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.6E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
318	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10
319	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
320	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
321	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
322	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10
323	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
324	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.5E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
325	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
326	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	5.6E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
327	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
328	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
329	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
330	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
331	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	6.9E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.1E-10
332	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.0E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
333	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.9E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.1E-10
334	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.6E+01	2.3E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.1E-10
335	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
336	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
337	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
338	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
339	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
340	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
341	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
342	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
343	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
344	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
345	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11	1.4E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
346	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
347	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
348	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
349	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.3E-11
350	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
351	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
352	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
353	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
354	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
355	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
356	1.6E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
357	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
358	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.8E-11
359	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
360	1.7E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
361	1.7E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
362	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
363	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
364	1.8E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
365	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
366	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
367	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
368	1.9E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
369	1.9E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
370	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
371	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
372	2.0E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
373	2.1E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
374	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
375	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
376	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	1.6E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11
377	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
378	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
379	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
380	2.3E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
381	2.4E+01	1.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
382	2.5E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
383	2.4E+01	1.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
384	2.5E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
385	2.6E+01	1.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
386	2.7E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
387	2.6E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11
388	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
389	2.8E+01	1.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
390	2.9E+01	1.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
391	2.8E+01	1.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
392	3.0E+01	1.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
393	3.1E+01	1.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
394	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
395	3.1E+01	1.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
396	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
397	3.4E+01	1.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
398	3.5E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11	2.0E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
399	3.3E+01	1.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
400	3.5E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
401	3.7E+01	1.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
402	3.8E+01	1.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11
403	3.6E+01	1.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
404	3.8E+01	1.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
405	4.0E+01	1.3E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.9E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
406	4.3E+01	1.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
407	3.9E+01	1.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
408	4.2E+01	1.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
409	4.5E+01	1.3E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
410	4.7E+01	1.3E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
411	4.3E+01	1.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
412	4.6E+01	1.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
413	4.9E+01	1.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.1E-11
414	5.3E+01	1.3E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
415	4.6E+01	1.3E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
416	5.0E+01	1.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
417	5.4E+01	1.3E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.3E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
418	5.9E+01	1.3E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	1.0E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
419	5.0E+01	1.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.4E-11
420	5.5E+01	1.3E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.4E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
421	6.0E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
422	6.6E+01	1.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
423	5.4E+01	1.3E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
424	6.0E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
425	6.7E+01	1.3E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.1E-11
426	7.4E+01	1.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
427	5.8E+01	1.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
428	6.5E+01	1.3E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
429	7.3E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.2E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
430	8.3E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
431	6.1E+01	1.3E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
432	7.0E+01	1.3E-07	1.0E-03	9.2E-09	1.6E-01	8.2E-02	1.2E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
433	8.0E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11
434	9.3E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
435	6.3E+01	1.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
436	7.3E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.2E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
437	8.6E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
438	1.0E+02	1.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
439	6.4E+01	1.3E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
440	7.6E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11
441	9.0E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
442	1.1E+02	1.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11
443	6.4E+01	1.3E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
444	7.6E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.4E-11
445	9.2E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
446	1.1E+02	1.3E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
447	6.2E+01	1.3E-07	1.0E-03	8.2E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
448	7.4E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.3E-10	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	9.0E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
450	1.1E+02	1.3E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
451	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
452	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
453	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
454	3.3E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
455	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	6.0E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
456	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
457	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.8E-12	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
458	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
459	5.1E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
460	4.8E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
461	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11
462	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
463	8.8E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
464	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
465	9.8E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
466	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
467	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
468	8.3E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
469	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
470	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
471	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
472	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
473	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	7.0E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
474	1.9E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
475	9.7E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
476	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.5E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
477	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.0E-11	8.1E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
1	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
2	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
3	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
4	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
5	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
6	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
7	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
8	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
9	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
10	5.3E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
11	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
12	6.0E+00	1.4E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
13	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
14	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
15	5.0E+00	1.4E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
16	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
17	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
18	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
19	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	2.0E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
20	3.9E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
21	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
22	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
23	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
24	7.7E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
25	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	5.8E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
26	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	5.9E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
27	5.4E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.9E+00	7.6E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11
28	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
29	3.9E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
30	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
31	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
32	5.2E+00	1.4E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
33	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
34	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
35	6.9E+00	1.4E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
36	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
37	8.9E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
38	9.4E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.2E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
39	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.6E+00	7.6E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
40	7.7E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
41	7.0E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11
42	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
43	3.2E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
44	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
45	4.1E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
46	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.4E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
47	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
48	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
49	7.2E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
50	8.1E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
51	9.0E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	4.2E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.3E-11
52	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	5.4E+00	7.6E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
53	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.0E+00	7.6E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
54	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
55	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	7.3E+00	7.6E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.4E-11
56	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	7.8E+00	7.6E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11
57	9.6E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	8.7E+00	7.6E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11
58	8.5E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
59	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
60	3.2E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
61	3.7E+00	1.4E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
62	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	2.0E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
63	4.8E+00	1.4E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
64	5.4E+00	1.4E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	1.0E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
65	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
66	9.5E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
67	1.1E+01	1.4E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
68	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.1E+00	7.6E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
69	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
70	1.7E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	8.1E+00	7.6E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.2E-11
71	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	9.0E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11
72	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	9.9E+00	7.6E-07	1.0E-03	7.8E-09	1.6E-01	8.2E-02	1.0E-10
73	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
74	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
75	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
76	4.8E+00	1.4E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
77	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
78	6.6E+00	1.4E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
79	7.8E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	3.1E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
80	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
81	1.9E+01	1.4E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
82	2.3E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	8.4E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11
83	2.6E+01	1.4E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11	1.0E+01	7.6E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10
84	2.7E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
85	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
86	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
87	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
88	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
89	4.8E+00	1.4E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
90	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
91	6.8E+00	1.4E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
92	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
93	9.9E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
94	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
95	4.8E+01	1.4E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.8E-11	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
96	4.6E+01	1.4E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
97	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
98	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
99	4.0E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
100	6.7E+00	1.4E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
101	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
102	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
103	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
104	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
105	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
106	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
107	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
108	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
109	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.1E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
110	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
111	3.7E+00	1.4E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
112	9.5E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
113	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
114	2.7E+00	1.4E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
115	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
116	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.4E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
117	4.0E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
118	8.7E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
119	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
120	2.6E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
121	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
122	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
123	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
124	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
125	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11	3.1E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
126	2.4E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
127	2.7E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
128	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
129	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
130	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
131	4.9E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
132	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
133	7.2E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
134	9.0E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
135	1.2E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
136	2.3E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.2E+00	7.6E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
137	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.3E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
138	3.0E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
139	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
140	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
141	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
142	5.4E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
143	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
144	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.7E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
145	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.1E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
146	2.2E+00	1.4E-07	1.0E-03	3.2E-10	1.6E-01	8.2E-02	4.1E-12	1.2E+00	7.6E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
147	2.5E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
148	2.8E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.1E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
149	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
150	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
151	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.8E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
152	4.8E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
153	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
154	6.8E+00	1.4E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
155	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
156	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.9E-12	1.2E+00	7.6E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
157	2.4E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.3E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
158	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
159	2.9E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
160	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
161	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
162	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
163	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
164	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
165	6.9E+00	1.4E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
166	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.7E-12	1.1E+00	7.6E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11
167	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.1E-12	1.2E+00	7.6E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
168	2.5E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
169	2.7E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
170	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
171	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
172	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
173	4.4E+00	1.4E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
174	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.2E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
175	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
176	1.9E+00	1.4E-07	1.0E-03	2.7E-10	1.6E-01	8.2E-02	3.5E-12	1.1E+00	7.6E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11
177	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.8E-12	1.2E+00	7.6E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
178	2.3E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.2E-12	1.2E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
179	2.5E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.6E-12	1.3E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
180	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
181	3.1E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.7E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
182	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
183	3.9E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
184	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.1E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
185	4.9E+00	1.4E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
186	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
187	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
188	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	5.2E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
189	1.8E+00	1.4E-07	1.0E-03	2.5E-10	1.6E-01	8.2E-02	3.3E-12	1.0E+00	7.6E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
190	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.6E-12	1.1E+00	7.6E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
191	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.9E-12	1.2E+00	7.6E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
192	2.4E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
193	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.7E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
194	2.9E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
195	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
196	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.4E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
197	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
198	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.2E-12	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
199	4.8E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
200	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
201	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
202	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
203	3.6E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
204	1.7E+00	1.4E-07	1.0E-03	2.4E-10	1.6E-01	8.2E-02	3.1E-12	1.0E+00	7.6E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
205	1.8E+00	1.4E-07	1.0E-03	2.6E-10	1.6E-01	8.2E-02	3.4E-12	1.1E+00	7.6E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11
206	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.7E-12	1.1E+00	7.6E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
207	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.0E-12	1.2E+00	7.6E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
208	2.4E+00	1.4E-07	1.0E-03	3.4E-10	1.6E-01	8.2E-02	4.4E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
209	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
210	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
211	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
212	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
213	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
214	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
215	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	3.0E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
216	4.1E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
217	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
218	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
219	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
220	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
221	1.6E+00	1.4E-07	1.0E-03	2.3E-10	1.6E-01	8.2E-02	2.9E-12	9.7E-01	7.6E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.9E-12
222	1.7E+00	1.4E-07	1.0E-03	2.4E-10	1.6E-01	8.2E-02	3.2E-12	1.0E+00	7.6E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.1E-11
223	1.9E+00	1.4E-07	1.0E-03	2.6E-10	1.6E-01	8.2E-02	3.4E-12	1.1E+00	7.6E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11
224	2.0E+00	1.4E-07	1.0E-03	2.9E-10	1.6E-01	8.2E-02	3.7E-12	1.2E+00	7.6E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
225	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.0E-12	1.3E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
226	2.6E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
227	2.8E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.1E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
228	3.0E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
229	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
230	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
231	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.5E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
232	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
233	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
234	3.3E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
235	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
236	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	3.1E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
237	2.7E+00	1.4E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	5.0E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
238	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	6.1E+00	7.6E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
239	1.9E+01	1.4E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11	6.4E+00	7.6E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
240	1.9E+01	1.4E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	6.6E+00	7.6E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
241	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.9E+00	7.6E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	7.0E-11
242	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	7.2E+00	7.6E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.3E-11
243	2.2E+01	1.4E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	7.5E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
244	1.9E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	6.2E+00	7.6E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
245	2.0E+01	1.4E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	6.4E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
246	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
247	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
248	2.2E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	7.3E+00	7.6E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.4E-11
249	2.3E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.6E+00	7.6E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11
250	2.4E+01	1.4E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11	8.0E+00	7.6E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
251	2.5E+01	1.4E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	8.3E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11
252	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.5E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
253	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	6.8E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.9E-11
254	2.3E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
255	2.4E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.4E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
256	2.5E+01	1.4E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	7.8E+00	7.6E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
257	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11	8.1E+00	7.6E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.3E-11
258	2.7E+01	1.4E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11	8.5E+00	7.6E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11
259	2.8E+01	1.4E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11	8.9E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.1E-11
260	3.0E+01	1.4E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11	9.4E+00	7.6E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.6E-11
261	2.4E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11
262	2.5E+01	1.4E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	7.5E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
263	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	7.9E+00	7.6E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11
264	2.7E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	8.3E+00	7.6E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11
265	2.9E+01	1.4E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
266	3.1E+01	1.4E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11	9.2E+00	7.6E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.4E-11
267	3.2E+01	1.4E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11	9.7E+00	7.6E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
268	3.4E+01	1.4E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11	1.0E+01	7.6E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10
269	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.1E+01	7.6E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
270	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.1E+01	7.6E-07	1.0E-03	8.9E-09	1.6E-01	8.2E-02	1.2E-10
271	2.8E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11	8.0E+00	7.6E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
272	2.9E+01	1.4E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11	8.4E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11
273	3.1E+01	1.4E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11	8.8E+00	7.6E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.0E-11
274	3.3E+01	1.4E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11	9.4E+00	7.6E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.6E-11
275	3.5E+01	1.4E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11	9.9E+00	7.6E-07	1.0E-03	7.8E-09	1.6E-01	8.2E-02	1.0E-10
276	3.7E+01	1.4E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.0E+01	7.6E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
277	3.9E+01	1.4E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.1E+01	7.6E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10
278	4.1E+01	1.4E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
279	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.2E+01	7.6E-07	1.0E-03	9.9E-09	1.6E-01	8.2E-02	1.3E-10
280	4.5E+01	1.4E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.3E-11	1.3E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
281	4.8E+01	1.4E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
282	3.3E+01	1.4E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11	9.0E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11
283	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.4E-11	9.5E+00	7.6E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.7E-11
284	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.0E+01	7.6E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10
285	4.0E+01	1.4E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11	1.1E+01	7.6E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
286	4.2E+01	1.4E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.7E-11	1.1E+01	7.6E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10
287	4.5E+01	1.4E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.2E-11	1.2E+01	7.6E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
288	4.8E+01	1.4E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
289	5.1E+01	1.4E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.3E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
290	5.4E+01	1.4E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
291	5.7E+01	1.4E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.6E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.6E-10
292	5.9E+01	1.4E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
293	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.8E-11	1.1E+01	7.6E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
294	4.6E+01	1.4E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
295	4.9E+01	1.4E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.0E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
296	5.3E+01	1.4E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.7E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
297	5.7E+01	1.4E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
298	6.1E+01	1.4E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
299	6.5E+01	1.4E-07	1.0E-03	9.2E-09	1.6E-01	8.2E-02	1.2E-10	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
300	6.9E+01	1.4E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10	1.8E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10
301	7.3E+01	1.4E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10
302	7.6E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.2E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
303	7.9E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.3E+01	7.6E-07	1.0E-03	1.8E-08	1.6E-01	8.2E-02	2.4E-10
304	5.4E+01	1.4E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	9.9E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
305	5.8E+01	1.4E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
306	6.3E+01	1.4E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
307	6.9E+01	1.4E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.3E-10	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
308	7.4E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10
309	8.0E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10
310	8.7E+01	1.4E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	2.2E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
311	9.2E+01	1.4E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.4E+01	7.6E-07	1.0E-03	1.9E-08	1.6E-01	8.2E-02	2.5E-10
312	9.7E+01	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	2.6E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10
313	1.0E+02	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	2.9E+01	7.6E-07	1.0E-03	2.3E-08	1.6E-01	8.2E-02	2.9E-10
314	1.0E+02	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	3.1E+01	7.6E-07	1.0E-03	2.5E-08	1.6E-01	8.2E-02	3.2E-10
315	9.7E+01	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	3.3E+01	7.6E-07	1.0E-03	2.6E-08	1.6E-01	8.2E-02	3.4E-10
316	7.8E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
317	8.6E+01	1.4E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	2.0E-10
318	9.5E+01	1.4E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.1E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
319	1.0E+02	1.4E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.4E+01	7.6E-07	1.0E-03	1.9E-08	1.6E-01	8.2E-02	2.4E-10
320	1.1E+02	1.4E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.1E-10	2.7E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
321	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	3.0E+01	7.6E-07	1.0E-03	2.4E-08	1.6E-01	8.2E-02	3.1E-10
322	3.6E+01	1.4E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.6E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
323	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.7E-10
324	3.4E+01	1.4E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10
325	1.1E+02	1.4E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10	2.3E+01	7.6E-07	1.0E-03	1.8E-08	1.6E-01	8.2E-02	2.3E-10
326	4.4E+01	1.4E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	2.6E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10
327	4.4E+01	1.4E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	3.0E+01	7.6E-07	1.0E-03	2.4E-08	1.6E-01	8.2E-02	3.1E-10
328	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
329	4.2E+01	1.4E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
330	4.1E+01	1.4E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10
331	5.2E+01	1.4E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.5E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
332	5.2E+01	1.4E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11	1.6E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.6E-10
333	5.0E+01	1.4E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
334	4.8E+01	1.4E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	2.0E-10
335	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
336	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
337	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
338	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
339	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
340	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
341	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
342	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
343	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
344	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
345	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
346	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
347	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
348	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
349	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.7E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.8E-11
350	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
351	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.4E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11
352	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
353	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
354	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
355	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
356	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
357	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
358	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
359	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
360	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.5E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
361	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
362	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
363	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
364	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
365	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.0E-11	4.6E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
366	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
367	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
368	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
369	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
370	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
371	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
372	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11
373	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
374	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
375	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
376	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
377	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.5E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
378	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
379	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
380	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
381	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
382	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
383	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
384	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
385	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
386	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
387	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
388	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
389	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
390	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
391	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
392	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
393	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
394	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
395	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
396	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
397	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
398	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
399	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.9E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
400	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
401	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
402	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
403	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
404	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
405	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
406	1.7E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
407	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
408	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
409	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
410	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
411	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
412	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
413	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
414	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
415	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
416	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
417	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
418	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
419	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
420	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
421	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
422	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.1E-11
423	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
424	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
425	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
426	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
427	1.2E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
428	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
429	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
430	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	3.9E-11
431	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
432	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
433	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
434	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
435	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
436	1.2E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
437	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
438	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.7E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
439	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
440	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
441	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
442	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
443	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
444	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
445	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
446	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
447	1.1E+01	1.4E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	3.2E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11
448	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
450	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
451	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
452	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.6E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
453	6.0E+00	1.4E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
454	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
455	7.8E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.1E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
456	7.6E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.4E+00	7.6E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
457	7.3E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.6E+00	7.6E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
458	6.9E+00	1.4E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11	5.8E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
459	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	6.0E+00	7.6E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
460	9.6E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	6.4E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
461	9.1E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
462	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
463	5.6E+00	1.4E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
464	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
465	5.3E+00	1.4E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
466	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
467	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
468	4.3E+00	1.4E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
469	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
470	6.1E+00	1.4E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
471	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
472	4.8E+00	1.4E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
473	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
474	6.9E+00	1.4E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
475	4.4E+00	1.4E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
476	5.3E+00	1.4E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
477	6.4E+00	1.4E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11

5. Risk by Construction Phase

c. Risk From Grading - Unmitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	8.9E-03	1.0E-03	2.7E-06	1.6E-01	8.2E-02	3.4E-08	5.1E-04	2.6E-03
2	3.0E-01	8.9E-03	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.6E-08	5.3E-04	2.7E-03
3	3.1E-01	8.9E-03	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.7E-08	5.5E-04	2.8E-03
4	3.2E-01	8.9E-03	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.8E-08	5.7E-04	2.9E-03
5	3.3E-01	8.9E-03	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	5.9E-04	2.9E-03
6	3.4E-01	8.9E-03	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.1E-08	6.0E-04	3.0E-03
7	3.5E-01	8.9E-03	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.2E-08	6.2E-04	3.1E-03
8	3.6E-01	8.9E-03	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.3E-08	6.4E-04	3.2E-03
9	3.7E-01	8.9E-03	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.6E-04	3.3E-03
10	3.8E-01	8.9E-03	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.6E-08	6.9E-04	3.4E-03
11	4.0E-01	8.9E-03	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.1E-04	3.6E-03
12	4.1E-01	8.9E-03	1.0E-03	3.9E-06	1.6E-01	8.2E-02	5.0E-08	7.4E-04	3.7E-03
13	4.3E-01	8.9E-03	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.1E-08	7.6E-04	3.8E-03
14	4.3E-01	8.9E-03	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.2E-08	7.8E-04	3.9E-03
15	4.3E-01	8.9E-03	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.2E-08	7.7E-04	3.9E-03
16	4.2E-01	8.9E-03	1.0E-03	3.9E-06	1.6E-01	8.2E-02	5.1E-08	7.5E-04	3.8E-03
17	3.2E-01	8.9E-03	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.8E-08	5.7E-04	2.9E-03
18	3.4E-01	8.9E-03	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.1E-08	6.0E-04	3.0E-03
19	3.6E-01	8.9E-03	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.3E-08	6.4E-04	3.2E-03
20	3.7E-01	8.9E-03	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.7E-04	3.3E-03
21	3.9E-01	8.9E-03	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	6.9E-04	3.5E-03
22	4.0E-01	8.9E-03	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.1E-04	3.6E-03
23	5.2E-01	8.9E-03	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.3E-08	9.3E-04	4.7E-03
24	5.3E-01	8.9E-03	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.4E-08	9.5E-04	4.8E-03
25	5.3E-01	8.9E-03	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.4E-08	9.5E-04	4.7E-03
26	5.2E-01	8.9E-03	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.2E-08	9.2E-04	4.6E-03
27	5.0E-01	8.9E-03	1.0E-03	4.6E-06	1.6E-01	8.2E-02	6.0E-08	8.9E-04	4.4E-03
28	3.5E-01	8.9E-03	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.2E-08	6.3E-04	3.1E-03
29	4.1E-01	8.9E-03	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.3E-04	3.7E-03
30	4.3E-01	8.9E-03	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.2E-08	7.8E-04	3.9E-03
31	4.6E-01	8.9E-03	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.5E-08	8.2E-04	4.1E-03
32	4.8E-01	8.9E-03	1.0E-03	4.5E-06	1.6E-01	8.2E-02	5.8E-08	8.7E-04	4.3E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	8.9E-03	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.0E-04	4.5E-03
34	5.2E-01	8.9E-03	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.3E-08	9.3E-04	4.7E-03
35	5.5E-01	8.9E-03	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.6E-08	9.8E-04	4.9E-03
36	5.7E-01	8.9E-03	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.9E-08	1.0E-03	5.1E-03
37	6.3E-01	8.9E-03	1.0E-03	5.9E-06	1.6E-01	8.2E-02	7.7E-08	1.1E-03	5.7E-03
38	6.6E-01	8.9E-03	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.9E-08	1.2E-03	5.9E-03
39	6.7E-01	8.9E-03	1.0E-03	6.3E-06	1.6E-01	8.2E-02	8.1E-08	1.2E-03	6.0E-03
40	6.5E-01	8.9E-03	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.8E-08	1.2E-03	5.8E-03
41	6.2E-01	8.9E-03	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.5E-08	1.1E-03	5.6E-03
42	5.9E-01	8.9E-03	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.1E-03	5.3E-03
43	3.9E-01	8.9E-03	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	6.9E-04	3.5E-03
44	4.3E-01	8.9E-03	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.1E-08	7.6E-04	3.8E-03
45	4.7E-01	8.9E-03	1.0E-03	4.4E-06	1.6E-01	8.2E-02	5.6E-08	8.4E-04	4.2E-03
46	5.5E-01	8.9E-03	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.6E-08	9.8E-04	4.9E-03
47	5.9E-01	8.9E-03	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.1E-03	5.3E-03
48	6.2E-01	8.9E-03	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.5E-08	1.1E-03	5.6E-03
49	6.5E-01	8.9E-03	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.9E-08	1.2E-03	5.8E-03
50	6.9E-01	8.9E-03	1.0E-03	6.5E-06	1.6E-01	8.2E-02	8.4E-08	1.2E-03	6.2E-03
51	7.3E-01	8.9E-03	1.0E-03	6.8E-06	1.6E-01	8.2E-02	8.8E-08	1.3E-03	6.5E-03
52	8.2E-01	8.9E-03	1.0E-03	7.7E-06	1.6E-01	8.2E-02	9.9E-08	1.5E-03	7.4E-03
53	8.6E-01	8.9E-03	1.0E-03	8.0E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.7E-03
54	8.8E-01	8.9E-03	1.0E-03	8.2E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	7.9E-03
55	8.9E-01	8.9E-03	1.0E-03	8.3E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.0E-03
56	8.9E-01	8.9E-03	1.0E-03	8.3E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.0E-03
57	8.1E-01	8.9E-03	1.0E-03	7.5E-06	1.6E-01	8.2E-02	9.7E-08	1.4E-03	7.2E-03
58	7.6E-01	8.9E-03	1.0E-03	7.1E-06	1.6E-01	8.2E-02	9.2E-08	1.4E-03	6.8E-03
59	7.0E-01	8.9E-03	1.0E-03	6.6E-06	1.6E-01	8.2E-02	8.5E-08	1.3E-03	6.3E-03
60	4.2E-01	8.9E-03	1.0E-03	3.9E-06	1.6E-01	8.2E-02	5.1E-08	7.5E-04	3.7E-03
61	4.7E-01	8.9E-03	1.0E-03	4.4E-06	1.6E-01	8.2E-02	5.7E-08	8.4E-04	4.2E-03
62	5.3E-01	8.9E-03	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.3E-08	9.4E-04	4.7E-03
63	5.9E-01	8.9E-03	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.1E-03	5.3E-03
64	6.6E-01	8.9E-03	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.9E-08	1.2E-03	5.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	8.9E-03	1.0E-03	7.9E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.5E-03
66	9.1E-01	8.9E-03	1.0E-03	8.5E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.1E-03
67	9.7E-01	8.9E-03	1.0E-03	9.1E-06	1.6E-01	8.2E-02	1.2E-07	1.7E-03	8.7E-03
68	1.1E+00	8.9E-03	1.0E-03	1.0E-05	1.6E-01	8.2E-02	1.4E-07	2.0E-03	1.0E-02
69	1.2E+00	8.9E-03	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.4E-07	2.1E-03	1.0E-02
70	1.2E+00	8.9E-03	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.5E-07	2.2E-03	1.1E-02
71	1.2E+00	8.9E-03	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.5E-07	2.2E-03	1.1E-02
72	1.2E+00	8.9E-03	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.4E-07	2.1E-03	1.1E-02
73	4.4E-01	8.9E-03	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.9E-04	4.0E-03
74	5.0E-01	8.9E-03	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.0E-04	4.5E-03
75	5.8E-01	8.9E-03	1.0E-03	5.4E-06	1.6E-01	8.2E-02	7.0E-08	1.0E-03	5.2E-03
76	6.7E-01	8.9E-03	1.0E-03	6.2E-06	1.6E-01	8.2E-02	8.1E-08	1.2E-03	6.0E-03
77	7.7E-01	8.9E-03	1.0E-03	7.2E-06	1.6E-01	8.2E-02	9.3E-08	1.4E-03	6.9E-03
78	8.8E-01	8.9E-03	1.0E-03	8.2E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	7.9E-03
79	1.0E+00	8.9E-03	1.0E-03	9.4E-06	1.6E-01	8.2E-02	1.2E-07	1.8E-03	9.0E-03
80	1.4E+00	8.9E-03	1.0E-03	1.3E-05	1.6E-01	8.2E-02	1.6E-07	2.4E-03	1.2E-02
81	1.6E+00	8.9E-03	1.0E-03	1.5E-05	1.6E-01	8.2E-02	2.0E-07	2.9E-03	1.5E-02
82	1.7E+00	8.9E-03	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.1E-07	3.1E-03	1.5E-02
83	1.7E+00	8.9E-03	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.1E-07	3.1E-03	1.6E-02
84	1.7E+00	8.9E-03	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.1E-07	3.1E-03	1.5E-02
85	1.7E+00	8.9E-03	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.0E-07	3.0E-03	1.5E-02
86	4.5E-01	8.9E-03	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.0E-04	4.0E-03
87	5.2E-01	8.9E-03	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.3E-08	9.4E-04	4.7E-03
88	6.2E-01	8.9E-03	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.5E-08	1.1E-03	5.6E-03
89	7.4E-01	8.9E-03	1.0E-03	6.9E-06	1.6E-01	8.2E-02	8.9E-08	1.3E-03	6.6E-03
90	8.8E-01	8.9E-03	1.0E-03	8.2E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	7.9E-03
91	1.1E+00	8.9E-03	1.0E-03	9.9E-06	1.6E-01	8.2E-02	1.3E-07	1.9E-03	9.5E-03
92	1.3E+00	8.9E-03	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.5E-07	2.3E-03	1.1E-02
93	1.5E+00	8.9E-03	1.0E-03	1.4E-05	1.6E-01	8.2E-02	1.8E-07	2.7E-03	1.4E-02
94	1.8E+00	8.9E-03	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.1E-07	3.2E-03	1.6E-02
95	2.6E+00	8.9E-03	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.2E-07	4.7E-03	2.3E-02
96	2.4E+00	8.9E-03	1.0E-03	2.2E-05	1.6E-01	8.2E-02	2.9E-07	4.3E-03	2.2E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	8.9E-03	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.5E-08	8.2E-04	4.1E-03
98	5.4E-01	8.9E-03	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.5E-08	9.6E-04	4.8E-03
99	6.4E-01	8.9E-03	1.0E-03	6.0E-06	1.6E-01	8.2E-02	7.7E-08	1.1E-03	5.7E-03
100	1.2E+00	8.9E-03	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.5E-07	2.2E-03	1.1E-02
101	1.5E+00	8.9E-03	1.0E-03	1.4E-05	1.6E-01	8.2E-02	1.9E-07	2.8E-03	1.4E-02
102	2.0E+00	8.9E-03	1.0E-03	1.9E-05	1.6E-01	8.2E-02	2.4E-07	3.6E-03	1.8E-02
103	2.6E+00	8.9E-03	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.2E-07	4.7E-03	2.4E-02
104	4.5E-01	8.9E-03	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.0E-04	4.0E-03
105	5.3E-01	8.9E-03	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.4E-08	9.5E-04	4.7E-03
106	6.4E-01	8.9E-03	1.0E-03	6.0E-06	1.6E-01	8.2E-02	7.7E-08	1.1E-03	5.7E-03
107	2.5E+00	8.9E-03	1.0E-03	2.3E-05	1.6E-01	8.2E-02	3.0E-07	4.5E-03	2.2E-02
108	3.8E+00	8.9E-03	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.6E-07	6.8E-03	3.4E-02
109	4.3E-01	8.9E-03	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.1E-08	7.6E-04	3.8E-03
110	5.1E-01	8.9E-03	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.1E-04	4.5E-03
111	6.2E-01	8.9E-03	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.4E-08	1.1E-03	5.5E-03
112	2.8E+00	8.9E-03	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.3E-07	4.9E-03	2.5E-02
113	4.7E+00	8.9E-03	1.0E-03	4.4E-05	1.6E-01	8.2E-02	5.6E-07	8.4E-03	4.2E-02
114	4.0E-01	8.9E-03	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.8E-08	7.2E-04	3.6E-03
115	4.8E-01	8.9E-03	1.0E-03	4.5E-06	1.6E-01	8.2E-02	5.7E-08	8.5E-04	4.3E-03
116	5.8E-01	8.9E-03	1.0E-03	5.4E-06	1.6E-01	8.2E-02	7.0E-08	1.0E-03	5.2E-03
117	7.2E-01	8.9E-03	1.0E-03	6.7E-06	1.6E-01	8.2E-02	8.7E-08	1.3E-03	6.4E-03
118	2.7E+00	8.9E-03	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.2E-07	4.8E-03	2.4E-02
119	4.7E+00	8.9E-03	1.0E-03	4.4E-05	1.6E-01	8.2E-02	5.7E-07	8.5E-03	4.2E-02
120	3.7E-01	8.9E-03	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.7E-04	3.3E-03
121	4.4E-01	8.9E-03	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.9E-04	4.0E-03
122	5.3E-01	8.9E-03	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.4E-08	9.5E-04	4.8E-03
123	6.6E-01	8.9E-03	1.0E-03	6.1E-06	1.6E-01	8.2E-02	7.9E-08	1.2E-03	5.9E-03
124	2.3E+00	8.9E-03	1.0E-03	2.2E-05	1.6E-01	8.2E-02	2.8E-07	4.2E-03	2.1E-02
125	4.0E+00	8.9E-03	1.0E-03	3.7E-05	1.6E-01	8.2E-02	4.8E-07	7.2E-03	3.6E-02
126	3.5E-01	8.9E-03	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.2E-08	6.2E-04	3.1E-03
127	4.1E-01	8.9E-03	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.3E-04	3.7E-03
128	4.9E-01	8.9E-03	1.0E-03	4.6E-06	1.6E-01	8.2E-02	5.9E-08	8.7E-04	4.4E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	8.9E-03	1.0E-03	5.6E-06	1.6E-01	8.2E-02	7.2E-08	1.1E-03	5.3E-03
130	7.4E-01	8.9E-03	1.0E-03	7.0E-06	1.6E-01	8.2E-02	9.0E-08	1.3E-03	6.7E-03
131	9.7E-01	8.9E-03	1.0E-03	9.0E-06	1.6E-01	8.2E-02	1.2E-07	1.7E-03	8.6E-03
132	1.3E+00	8.9E-03	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.6E-07	2.3E-03	1.2E-02
133	1.9E+00	8.9E-03	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.4E-03	1.7E-02
134	3.0E+00	8.9E-03	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.6E-07	5.3E-03	2.7E-02
135	5.4E+00	8.9E-03	1.0E-03	5.0E-05	1.6E-01	8.2E-02	6.5E-07	9.6E-03	4.8E-02
136	3.2E-01	8.9E-03	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.8E-04	2.9E-03
137	3.8E-01	8.9E-03	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.6E-08	6.8E-04	3.4E-03
138	4.5E-01	8.9E-03	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.0E-04	4.0E-03
139	5.4E-01	8.9E-03	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.5E-08	9.6E-04	4.8E-03
140	6.6E-01	8.9E-03	1.0E-03	6.2E-06	1.6E-01	8.2E-02	8.0E-08	1.2E-03	5.9E-03
141	8.4E-01	8.9E-03	1.0E-03	7.9E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.5E-03
142	1.1E+00	8.9E-03	1.0E-03	1.0E-05	1.6E-01	8.2E-02	1.3E-07	2.0E-03	9.9E-03
143	1.5E+00	8.9E-03	1.0E-03	1.4E-05	1.6E-01	8.2E-02	1.8E-07	2.7E-03	1.3E-02
144	2.1E+00	8.9E-03	1.0E-03	2.0E-05	1.6E-01	8.2E-02	2.5E-07	3.8E-03	1.9E-02
145	3.1E+00	8.9E-03	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.7E-07	5.5E-03	2.7E-02
146	3.0E-01	8.9E-03	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.6E-08	5.4E-04	2.7E-03
147	3.5E-01	8.9E-03	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.2E-08	6.2E-04	3.1E-03
148	4.1E-01	8.9E-03	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.3E-04	3.6E-03
149	4.8E-01	8.9E-03	1.0E-03	4.5E-06	1.6E-01	8.2E-02	5.8E-08	8.7E-04	4.3E-03
150	5.9E-01	8.9E-03	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.0E-03	5.2E-03
151	7.2E-01	8.9E-03	1.0E-03	6.8E-06	1.6E-01	8.2E-02	8.7E-08	1.3E-03	6.5E-03
152	9.0E-01	8.9E-03	1.0E-03	8.4E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.0E-03
153	1.2E+00	8.9E-03	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.4E-07	2.1E-03	1.0E-02
154	1.5E+00	8.9E-03	1.0E-03	1.4E-05	1.6E-01	8.2E-02	1.8E-07	2.6E-03	1.3E-02
155	1.9E+00	8.9E-03	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.4E-03	1.7E-02
156	2.8E-01	8.9E-03	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.4E-08	5.0E-04	2.5E-03
157	3.2E-01	8.9E-03	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.7E-04	2.9E-03
158	3.7E-01	8.9E-03	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.6E-04	3.3E-03
159	4.3E-01	8.9E-03	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.2E-08	7.8E-04	3.9E-03
160	5.2E-01	8.9E-03	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.2E-08	9.2E-04	4.6E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	8.9E-03	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.5E-08	1.1E-03	5.5E-03
162	7.4E-01	8.9E-03	1.0E-03	7.0E-06	1.6E-01	8.2E-02	9.0E-08	1.3E-03	6.7E-03
163	9.0E-01	8.9E-03	1.0E-03	8.4E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.0E-03
164	1.1E+00	8.9E-03	1.0E-03	1.0E-05	1.6E-01	8.2E-02	1.3E-07	1.9E-03	9.6E-03
165	1.3E+00	8.9E-03	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.6E-07	2.3E-03	1.2E-02
166	2.6E-01	8.9E-03	1.0E-03	2.4E-06	1.6E-01	8.2E-02	3.1E-08	4.6E-04	2.3E-03
167	2.9E-01	8.9E-03	1.0E-03	2.7E-06	1.6E-01	8.2E-02	3.5E-08	5.3E-04	2.6E-03
168	3.4E-01	8.9E-03	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.1E-08	6.0E-04	3.0E-03
169	3.9E-01	8.9E-03	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	6.9E-04	3.5E-03
170	4.5E-01	8.9E-03	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.1E-04	4.0E-03
171	5.3E-01	8.9E-03	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.4E-08	9.4E-04	4.7E-03
172	6.1E-01	8.9E-03	1.0E-03	5.7E-06	1.6E-01	8.2E-02	7.3E-08	1.1E-03	5.4E-03
173	7.1E-01	8.9E-03	1.0E-03	6.6E-06	1.6E-01	8.2E-02	8.5E-08	1.3E-03	6.3E-03
174	8.2E-01	8.9E-03	1.0E-03	7.6E-06	1.6E-01	8.2E-02	9.8E-08	1.5E-03	7.3E-03
175	9.5E-01	8.9E-03	1.0E-03	8.9E-06	1.6E-01	8.2E-02	1.1E-07	1.7E-03	8.5E-03
176	2.4E-01	8.9E-03	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.9E-08	4.3E-04	2.1E-03
177	2.7E-01	8.9E-03	1.0E-03	2.5E-06	1.6E-01	8.2E-02	3.3E-08	4.8E-04	2.4E-03
178	3.0E-01	8.9E-03	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.7E-08	5.4E-04	2.7E-03
179	3.5E-01	8.9E-03	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.2E-08	6.2E-04	3.1E-03
180	3.9E-01	8.9E-03	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.1E-04	3.5E-03
181	4.5E-01	8.9E-03	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.1E-04	4.0E-03
182	5.1E-01	8.9E-03	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.1E-04	4.5E-03
183	5.7E-01	8.9E-03	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.9E-08	1.0E-03	5.1E-03
184	6.4E-01	8.9E-03	1.0E-03	6.0E-06	1.6E-01	8.2E-02	7.7E-08	1.1E-03	5.7E-03
185	7.2E-01	8.9E-03	1.0E-03	6.7E-06	1.6E-01	8.2E-02	8.7E-08	1.3E-03	6.5E-03
186	5.9E-01	8.9E-03	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.1E-03	5.3E-03
187	5.2E-01	8.9E-03	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.3E-08	9.4E-04	4.7E-03
188	4.7E-01	8.9E-03	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.6E-08	8.3E-04	4.2E-03
189	2.2E-01	8.9E-03	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
190	2.5E-01	8.9E-03	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.4E-04	2.2E-03
191	2.7E-01	8.9E-03	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	4.9E-04	2.5E-03
192	3.1E-01	8.9E-03	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.7E-08	5.5E-04	2.8E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	8.9E-03	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.2E-08	6.2E-04	3.1E-03
194	3.8E-01	8.9E-03	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.6E-08	6.9E-04	3.4E-03
195	4.3E-01	8.9E-03	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.1E-08	7.6E-04	3.8E-03
196	4.7E-01	8.9E-03	1.0E-03	4.4E-06	1.6E-01	8.2E-02	5.7E-08	8.4E-04	4.2E-03
197	5.6E-01	8.9E-03	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.8E-08	1.0E-03	5.1E-03
198	6.1E-01	8.9E-03	1.0E-03	5.7E-06	1.6E-01	8.2E-02	7.3E-08	1.1E-03	5.4E-03
199	5.7E-01	8.9E-03	1.0E-03	5.4E-06	1.6E-01	8.2E-02	6.9E-08	1.0E-03	5.1E-03
200	5.3E-01	8.9E-03	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.5E-08	9.6E-04	4.8E-03
201	4.9E-01	8.9E-03	1.0E-03	4.6E-06	1.6E-01	8.2E-02	5.9E-08	8.8E-04	4.4E-03
202	4.5E-01	8.9E-03	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.1E-04	4.0E-03
203	4.1E-01	8.9E-03	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.3E-04	3.7E-03
204	2.0E-01	8.9E-03	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.5E-08	3.7E-04	1.8E-03
205	2.3E-01	8.9E-03	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
206	2.5E-01	8.9E-03	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.4E-04	2.2E-03
207	2.7E-01	8.9E-03	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	4.9E-04	2.5E-03
208	3.0E-01	8.9E-03	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.7E-08	5.4E-04	2.7E-03
209	3.3E-01	8.9E-03	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	5.9E-04	3.0E-03
210	3.6E-01	8.9E-03	1.0E-03	3.4E-06	1.6E-01	8.2E-02	4.4E-08	6.5E-04	3.2E-03
211	4.2E-01	8.9E-03	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.1E-08	7.6E-04	3.8E-03
212	4.5E-01	8.9E-03	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.1E-04	4.0E-03
213	5.0E-01	8.9E-03	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.0E-08	8.9E-04	4.5E-03
214	5.0E-01	8.9E-03	1.0E-03	4.6E-06	1.6E-01	8.2E-02	6.0E-08	8.9E-04	4.4E-03
215	4.9E-01	8.9E-03	1.0E-03	4.5E-06	1.6E-01	8.2E-02	5.9E-08	8.7E-04	4.4E-03
216	4.7E-01	8.9E-03	1.0E-03	4.4E-06	1.6E-01	8.2E-02	5.6E-08	8.4E-04	4.2E-03
217	4.4E-01	8.9E-03	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.4E-08	7.9E-04	4.0E-03
218	4.2E-01	8.9E-03	1.0E-03	3.9E-06	1.6E-01	8.2E-02	5.0E-08	7.4E-04	3.7E-03
219	3.9E-01	8.9E-03	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	6.9E-04	3.5E-03
220	3.5E-01	8.9E-03	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.3E-08	6.3E-04	3.2E-03
221	1.9E-01	8.9E-03	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.4E-04	1.7E-03
222	2.1E-01	8.9E-03	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.5E-08	3.7E-04	1.8E-03
223	2.2E-01	8.9E-03	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
224	2.5E-01	8.9E-03	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.4E-04	2.2E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	8.9E-03	1.0E-03	2.5E-06	1.6E-01	8.2E-02	3.2E-08	4.8E-04	2.4E-03
226	3.1E-01	8.9E-03	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.8E-08	5.6E-04	2.8E-03
227	3.3E-01	8.9E-03	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	6.0E-04	3.0E-03
228	3.5E-01	8.9E-03	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.2E-08	6.3E-04	3.1E-03
229	3.7E-01	8.9E-03	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.6E-04	3.3E-03
230	4.0E-01	8.9E-03	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.2E-04	3.6E-03
231	4.0E-01	8.9E-03	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.8E-08	7.2E-04	3.6E-03
232	4.0E-01	8.9E-03	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.1E-04	3.6E-03
233	3.9E-01	8.9E-03	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	6.9E-04	3.5E-03
234	3.7E-01	8.9E-03	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.6E-04	3.3E-03
235	3.5E-01	8.9E-03	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.3E-08	6.3E-04	3.2E-03
236	3.3E-01	8.9E-03	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	5.9E-04	3.0E-03
237	3.1E-01	8.9E-03	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.7E-08	5.6E-04	2.8E-03
238	1.8E+00	8.9E-03	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.2E-07	3.2E-03	1.6E-02
239	1.8E+00	8.9E-03	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.2E-07	3.3E-03	1.6E-02
240	1.9E+00	8.9E-03	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.2E-07	3.3E-03	1.7E-02
241	1.9E+00	8.9E-03	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.4E-03	1.7E-02
242	1.9E+00	8.9E-03	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.4E-03	1.7E-02
243	1.9E+00	8.9E-03	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.5E-03	1.7E-02
244	2.0E+00	8.9E-03	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.4E-07	3.5E-03	1.7E-02
245	2.0E+00	8.9E-03	1.0E-03	1.9E-05	1.6E-01	8.2E-02	2.4E-07	3.6E-03	1.8E-02
246	2.0E+00	8.9E-03	1.0E-03	1.9E-05	1.6E-01	8.2E-02	2.5E-07	3.6E-03	1.8E-02
247	2.1E+00	8.9E-03	1.0E-03	1.9E-05	1.6E-01	8.2E-02	2.5E-07	3.7E-03	1.8E-02
248	2.1E+00	8.9E-03	1.0E-03	2.0E-05	1.6E-01	8.2E-02	2.5E-07	3.8E-03	1.9E-02
249	2.1E+00	8.9E-03	1.0E-03	2.0E-05	1.6E-01	8.2E-02	2.6E-07	3.8E-03	1.9E-02
250	2.2E+00	8.9E-03	1.0E-03	2.0E-05	1.6E-01	8.2E-02	2.6E-07	3.9E-03	1.9E-02
251	2.2E+00	8.9E-03	1.0E-03	2.0E-05	1.6E-01	8.2E-02	2.6E-07	3.9E-03	2.0E-02
252	2.2E+00	8.9E-03	1.0E-03	2.0E-05	1.6E-01	8.2E-02	2.6E-07	3.9E-03	2.0E-02
253	2.2E+00	8.9E-03	1.0E-03	2.1E-05	1.6E-01	8.2E-02	2.7E-07	4.0E-03	2.0E-02
254	2.3E+00	8.9E-03	1.0E-03	2.1E-05	1.6E-01	8.2E-02	2.7E-07	4.1E-03	2.0E-02
255	2.3E+00	8.9E-03	1.0E-03	2.2E-05	1.6E-01	8.2E-02	2.8E-07	4.1E-03	2.1E-02
256	2.3E+00	8.9E-03	1.0E-03	2.2E-05	1.6E-01	8.2E-02	2.8E-07	4.2E-03	2.1E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	8.9E-03	1.0E-03	2.2E-05	1.6E-01	8.2E-02	2.9E-07	4.3E-03	2.1E-02
258	2.4E+00	8.9E-03	1.0E-03	2.3E-05	1.6E-01	8.2E-02	2.9E-07	4.3E-03	2.2E-02
259	2.4E+00	8.9E-03	1.0E-03	2.3E-05	1.6E-01	8.2E-02	2.9E-07	4.4E-03	2.2E-02
260	2.5E+00	8.9E-03	1.0E-03	2.3E-05	1.6E-01	8.2E-02	3.0E-07	4.4E-03	2.2E-02
261	2.5E+00	8.9E-03	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.0E-07	4.5E-03	2.3E-02
262	2.6E+00	8.9E-03	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.1E-07	4.6E-03	2.3E-02
263	2.6E+00	8.9E-03	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.1E-07	4.7E-03	2.3E-02
264	2.6E+00	8.9E-03	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.2E-07	4.7E-03	2.4E-02
265	2.7E+00	8.9E-03	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.2E-07	4.8E-03	2.4E-02
266	2.7E+00	8.9E-03	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.3E-07	4.8E-03	2.4E-02
267	2.7E+00	8.9E-03	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.3E-07	4.9E-03	2.4E-02
268	2.7E+00	8.9E-03	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.3E-07	4.9E-03	2.5E-02
269	2.8E+00	8.9E-03	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.3E-07	4.9E-03	2.5E-02
270	2.8E+00	8.9E-03	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.3E-07	4.9E-03	2.5E-02
271	2.9E+00	8.9E-03	1.0E-03	2.7E-05	1.6E-01	8.2E-02	3.5E-07	5.2E-03	2.6E-02
272	3.0E+00	8.9E-03	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.6E-07	5.3E-03	2.6E-02
273	3.0E+00	8.9E-03	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.6E-07	5.4E-03	2.7E-02
274	3.0E+00	8.9E-03	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.7E-07	5.4E-03	2.7E-02
275	3.0E+00	8.9E-03	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.7E-07	5.5E-03	2.7E-02
276	3.1E+00	8.9E-03	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.7E-07	5.5E-03	2.7E-02
277	3.1E+00	8.9E-03	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.7E-07	5.5E-03	2.7E-02
278	3.1E+00	8.9E-03	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.7E-07	5.5E-03	2.7E-02
279	3.1E+00	8.9E-03	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.7E-07	5.5E-03	2.7E-02
280	3.0E+00	8.9E-03	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.7E-07	5.4E-03	2.7E-02
281	3.0E+00	8.9E-03	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.6E-07	5.4E-03	2.7E-02
282	3.4E+00	8.9E-03	1.0E-03	3.1E-05	1.6E-01	8.2E-02	4.1E-07	6.0E-03	3.0E-02
283	3.4E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.0E-02
284	3.4E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.1E-02
285	3.4E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.1E-02
286	3.4E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.2E-07	6.2E-03	3.1E-02
287	3.4E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.1E-02
288	3.4E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.1E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	8.9E-03	1.0E-03	3.1E-05	1.6E-01	8.2E-02	4.1E-07	6.0E-03	3.0E-02
290	3.3E+00	8.9E-03	1.0E-03	3.1E-05	1.6E-01	8.2E-02	4.0E-07	6.0E-03	3.0E-02
291	3.3E+00	8.9E-03	1.0E-03	3.1E-05	1.6E-01	8.2E-02	4.0E-07	5.9E-03	2.9E-02
292	3.3E+00	8.9E-03	1.0E-03	3.0E-05	1.6E-01	8.2E-02	3.9E-07	5.8E-03	2.9E-02
293	3.9E+00	8.9E-03	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.7E-07	6.9E-03	3.5E-02
294	3.9E+00	8.9E-03	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.7E-07	6.9E-03	3.5E-02
295	3.9E+00	8.9E-03	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.7E-07	6.9E-03	3.5E-02
296	3.8E+00	8.9E-03	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.6E-07	6.8E-03	3.4E-02
297	3.8E+00	8.9E-03	1.0E-03	3.5E-05	1.6E-01	8.2E-02	4.5E-07	6.7E-03	3.4E-02
298	3.7E+00	8.9E-03	1.0E-03	3.5E-05	1.6E-01	8.2E-02	4.5E-07	6.6E-03	3.3E-02
299	3.7E+00	8.9E-03	1.0E-03	3.4E-05	1.6E-01	8.2E-02	4.4E-07	6.6E-03	3.3E-02
300	3.6E+00	8.9E-03	1.0E-03	3.4E-05	1.6E-01	8.2E-02	4.3E-07	6.5E-03	3.2E-02
301	3.5E+00	8.9E-03	1.0E-03	3.3E-05	1.6E-01	8.2E-02	4.3E-07	6.3E-03	3.2E-02
302	3.5E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.2E-07	6.2E-03	3.1E-02
303	3.4E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.0E-02
304	4.4E+00	8.9E-03	1.0E-03	4.1E-05	1.6E-01	8.2E-02	5.3E-07	7.8E-03	3.9E-02
305	4.3E+00	8.9E-03	1.0E-03	4.0E-05	1.6E-01	8.2E-02	5.2E-07	7.7E-03	3.9E-02
306	4.2E+00	8.9E-03	1.0E-03	4.0E-05	1.6E-01	8.2E-02	5.1E-07	7.6E-03	3.8E-02
307	4.2E+00	8.9E-03	1.0E-03	3.9E-05	1.6E-01	8.2E-02	5.0E-07	7.5E-03	3.7E-02
308	4.1E+00	8.9E-03	1.0E-03	3.8E-05	1.6E-01	8.2E-02	4.9E-07	7.3E-03	3.7E-02
309	4.0E+00	8.9E-03	1.0E-03	3.7E-05	1.6E-01	8.2E-02	4.8E-07	7.2E-03	3.6E-02
310	3.9E+00	8.9E-03	1.0E-03	3.7E-05	1.6E-01	8.2E-02	4.7E-07	7.0E-03	3.5E-02
311	3.8E+00	8.9E-03	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.6E-07	6.9E-03	3.4E-02
312	3.7E+00	8.9E-03	1.0E-03	3.5E-05	1.6E-01	8.2E-02	4.5E-07	6.7E-03	3.3E-02
313	3.6E+00	8.9E-03	1.0E-03	3.4E-05	1.6E-01	8.2E-02	4.4E-07	6.5E-03	3.2E-02
314	3.5E+00	8.9E-03	1.0E-03	3.3E-05	1.6E-01	8.2E-02	4.2E-07	6.3E-03	3.1E-02
315	3.4E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.1E-02
316	4.7E+00	8.9E-03	1.0E-03	4.4E-05	1.6E-01	8.2E-02	5.7E-07	8.4E-03	4.2E-02
317	4.6E+00	8.9E-03	1.0E-03	4.3E-05	1.6E-01	8.2E-02	5.5E-07	8.2E-03	4.1E-02
318	4.5E+00	8.9E-03	1.0E-03	4.2E-05	1.6E-01	8.2E-02	5.4E-07	8.0E-03	4.0E-02
319	4.4E+00	8.9E-03	1.0E-03	4.1E-05	1.6E-01	8.2E-02	5.3E-07	7.8E-03	3.9E-02
320	4.2E+00	8.9E-03	1.0E-03	4.0E-05	1.6E-01	8.2E-02	5.1E-07	7.6E-03	3.8E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	8.9E-03	1.0E-03	3.8E-05	1.6E-01	8.2E-02	5.0E-07	7.3E-03	3.7E-02
322	4.0E+00	8.9E-03	1.0E-03	3.7E-05	1.6E-01	8.2E-02	4.8E-07	7.1E-03	3.6E-02
323	3.8E+00	8.9E-03	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.6E-07	6.9E-03	3.4E-02
324	3.7E+00	8.9E-03	1.0E-03	3.5E-05	1.6E-01	8.2E-02	4.5E-07	6.6E-03	3.3E-02
325	5.0E+00	8.9E-03	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.0E-07	9.0E-03	4.5E-02
326	4.9E+00	8.9E-03	1.0E-03	4.5E-05	1.6E-01	8.2E-02	5.9E-07	8.7E-03	4.3E-02
327	4.7E+00	8.9E-03	1.0E-03	4.4E-05	1.6E-01	8.2E-02	5.7E-07	8.4E-03	4.2E-02
328	4.5E+00	8.9E-03	1.0E-03	4.2E-05	1.6E-01	8.2E-02	5.5E-07	8.1E-03	4.1E-02
329	4.4E+00	8.9E-03	1.0E-03	4.1E-05	1.6E-01	8.2E-02	5.3E-07	7.8E-03	3.9E-02
330	4.2E+00	8.9E-03	1.0E-03	3.9E-05	1.6E-01	8.2E-02	5.1E-07	7.5E-03	3.8E-02
331	5.2E+00	8.9E-03	1.0E-03	4.9E-05	1.6E-01	8.2E-02	6.3E-07	9.3E-03	4.7E-02
332	5.0E+00	8.9E-03	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.0E-07	9.0E-03	4.5E-02
333	4.8E+00	8.9E-03	1.0E-03	4.5E-05	1.6E-01	8.2E-02	5.8E-07	8.6E-03	4.3E-02
334	4.6E+00	8.9E-03	1.0E-03	4.3E-05	1.6E-01	8.2E-02	5.5E-07	8.2E-03	4.1E-02
335	1.7E+00	8.9E-03	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.1E-07	3.1E-03	1.6E-02
336	1.8E+00	8.9E-03	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.1E-07	3.2E-03	1.6E-02
337	1.8E+00	8.9E-03	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.2E-07	3.3E-03	1.6E-02
338	1.9E+00	8.9E-03	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.3E-07	3.3E-03	1.7E-02
339	1.9E+00	8.9E-03	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.4E-03	1.7E-02
340	1.9E+00	8.9E-03	1.0E-03	1.8E-05	1.6E-01	8.2E-02	2.3E-07	3.5E-03	1.7E-02
341	2.0E+00	8.9E-03	1.0E-03	1.9E-05	1.6E-01	8.2E-02	2.4E-07	3.6E-03	1.8E-02
342	2.0E+00	8.9E-03	1.0E-03	1.9E-05	1.6E-01	8.2E-02	2.5E-07	3.7E-03	1.8E-02
343	2.0E+00	8.9E-03	1.0E-03	1.9E-05	1.6E-01	8.2E-02	2.5E-07	3.7E-03	1.8E-02
344	2.1E+00	8.9E-03	1.0E-03	2.0E-05	1.6E-01	8.2E-02	2.5E-07	3.8E-03	1.9E-02
345	2.2E+00	8.9E-03	1.0E-03	2.0E-05	1.6E-01	8.2E-02	2.6E-07	3.9E-03	1.9E-02
346	2.2E+00	8.9E-03	1.0E-03	2.1E-05	1.6E-01	8.2E-02	2.7E-07	4.0E-03	2.0E-02
347	2.2E+00	8.9E-03	1.0E-03	2.1E-05	1.6E-01	8.2E-02	2.7E-07	4.0E-03	2.0E-02
348	2.3E+00	8.9E-03	1.0E-03	2.2E-05	1.6E-01	8.2E-02	2.8E-07	4.1E-03	2.1E-02
349	2.4E+00	8.9E-03	1.0E-03	2.2E-05	1.6E-01	8.2E-02	2.9E-07	4.3E-03	2.1E-02
350	2.5E+00	8.9E-03	1.0E-03	2.3E-05	1.6E-01	8.2E-02	3.0E-07	4.4E-03	2.2E-02
351	2.4E+00	8.9E-03	1.0E-03	2.3E-05	1.6E-01	8.2E-02	2.9E-07	4.3E-03	2.2E-02
352	2.5E+00	8.9E-03	1.0E-03	2.4E-05	1.6E-01	8.2E-02	3.1E-07	4.5E-03	2.3E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	8.9E-03	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.2E-07	4.7E-03	2.4E-02
354	2.7E+00	8.9E-03	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.3E-07	4.9E-03	2.5E-02
355	2.6E+00	8.9E-03	1.0E-03	2.5E-05	1.6E-01	8.2E-02	3.2E-07	4.7E-03	2.4E-02
356	2.8E+00	8.9E-03	1.0E-03	2.6E-05	1.6E-01	8.2E-02	3.4E-07	5.0E-03	2.5E-02
357	2.9E+00	8.9E-03	1.0E-03	2.7E-05	1.6E-01	8.2E-02	3.5E-07	5.2E-03	2.6E-02
358	3.0E+00	8.9E-03	1.0E-03	2.8E-05	1.6E-01	8.2E-02	3.7E-07	5.4E-03	2.7E-02
359	2.9E+00	8.9E-03	1.0E-03	2.7E-05	1.6E-01	8.2E-02	3.5E-07	5.2E-03	2.6E-02
360	3.1E+00	8.9E-03	1.0E-03	2.9E-05	1.6E-01	8.2E-02	3.7E-07	5.5E-03	2.7E-02
361	3.2E+00	8.9E-03	1.0E-03	3.0E-05	1.6E-01	8.2E-02	3.9E-07	5.8E-03	2.9E-02
362	3.4E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.0E-02
363	3.2E+00	8.9E-03	1.0E-03	3.0E-05	1.6E-01	8.2E-02	3.9E-07	5.7E-03	2.9E-02
364	3.4E+00	8.9E-03	1.0E-03	3.2E-05	1.6E-01	8.2E-02	4.1E-07	6.1E-03	3.0E-02
365	3.6E+00	8.9E-03	1.0E-03	3.4E-05	1.6E-01	8.2E-02	4.3E-07	6.4E-03	3.2E-02
366	3.8E+00	8.9E-03	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.6E-07	6.8E-03	3.4E-02
367	3.5E+00	8.9E-03	1.0E-03	3.3E-05	1.6E-01	8.2E-02	4.2E-07	6.3E-03	3.1E-02
368	3.7E+00	8.9E-03	1.0E-03	3.5E-05	1.6E-01	8.2E-02	4.5E-07	6.7E-03	3.4E-02
369	4.0E+00	8.9E-03	1.0E-03	3.7E-05	1.6E-01	8.2E-02	4.8E-07	7.2E-03	3.6E-02
370	4.3E+00	8.9E-03	1.0E-03	4.0E-05	1.6E-01	8.2E-02	5.2E-07	7.7E-03	3.8E-02
371	3.8E+00	8.9E-03	1.0E-03	3.6E-05	1.6E-01	8.2E-02	4.6E-07	6.9E-03	3.4E-02
372	4.1E+00	8.9E-03	1.0E-03	3.9E-05	1.6E-01	8.2E-02	5.0E-07	7.4E-03	3.7E-02
373	4.5E+00	8.9E-03	1.0E-03	4.2E-05	1.6E-01	8.2E-02	5.4E-07	8.0E-03	4.0E-02
374	4.8E+00	8.9E-03	1.0E-03	4.5E-05	1.6E-01	8.2E-02	5.8E-07	8.7E-03	4.3E-02
375	4.2E+00	8.9E-03	1.0E-03	3.9E-05	1.6E-01	8.2E-02	5.1E-07	7.5E-03	3.7E-02
376	4.6E+00	8.9E-03	1.0E-03	4.3E-05	1.6E-01	8.2E-02	5.5E-07	8.2E-03	4.1E-02
377	5.0E+00	8.9E-03	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.0E-07	8.9E-03	4.5E-02
378	5.5E+00	8.9E-03	1.0E-03	5.1E-05	1.6E-01	8.2E-02	6.6E-07	9.8E-03	4.9E-02
379	4.5E+00	8.9E-03	1.0E-03	4.3E-05	1.6E-01	8.2E-02	5.5E-07	8.1E-03	4.1E-02
380	5.0E+00	8.9E-03	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.1E-07	9.0E-03	4.5E-02
381	5.6E+00	8.9E-03	1.0E-03	5.2E-05	1.6E-01	8.2E-02	6.7E-07	1.0E-02	5.0E-02
382	6.2E+00	8.9E-03	1.0E-03	5.8E-05	1.6E-01	8.2E-02	7.5E-07	1.1E-02	5.5E-02
383	4.9E+00	8.9E-03	1.0E-03	4.6E-05	1.6E-01	8.2E-02	5.9E-07	8.8E-03	4.4E-02
384	5.5E+00	8.9E-03	1.0E-03	5.1E-05	1.6E-01	8.2E-02	6.6E-07	9.8E-03	4.9E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	8.9E-03	1.0E-03	5.7E-05	1.6E-01	8.2E-02	7.4E-07	1.1E-02	5.5E-02
386	6.9E+00	8.9E-03	1.0E-03	6.5E-05	1.6E-01	8.2E-02	8.4E-07	1.2E-02	6.2E-02
387	5.2E+00	8.9E-03	1.0E-03	4.9E-05	1.6E-01	8.2E-02	6.3E-07	9.4E-03	4.7E-02
388	5.9E+00	8.9E-03	1.0E-03	5.5E-05	1.6E-01	8.2E-02	7.1E-07	1.1E-02	5.3E-02
389	6.7E+00	8.9E-03	1.0E-03	6.3E-05	1.6E-01	8.2E-02	8.1E-07	1.2E-02	6.0E-02
390	7.7E+00	8.9E-03	1.0E-03	7.2E-05	1.6E-01	8.2E-02	9.3E-07	1.4E-02	6.9E-02
391	5.6E+00	8.9E-03	1.0E-03	5.2E-05	1.6E-01	8.2E-02	6.7E-07	9.9E-03	5.0E-02
392	6.3E+00	8.9E-03	1.0E-03	5.9E-05	1.6E-01	8.2E-02	7.6E-07	1.1E-02	5.6E-02
393	7.2E+00	8.9E-03	1.0E-03	6.8E-05	1.6E-01	8.2E-02	8.7E-07	1.3E-02	6.5E-02
394	8.4E+00	8.9E-03	1.0E-03	7.9E-05	1.6E-01	8.2E-02	1.0E-06	1.5E-02	7.5E-02
395	5.8E+00	8.9E-03	1.0E-03	5.4E-05	1.6E-01	8.2E-02	7.0E-07	1.0E-02	5.2E-02
396	6.7E+00	8.9E-03	1.0E-03	6.2E-05	1.6E-01	8.2E-02	8.0E-07	1.2E-02	6.0E-02
397	7.7E+00	8.9E-03	1.0E-03	7.2E-05	1.6E-01	8.2E-02	9.3E-07	1.4E-02	6.9E-02
398	9.1E+00	8.9E-03	1.0E-03	8.5E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	8.1E-02
399	6.0E+00	8.9E-03	1.0E-03	5.6E-05	1.6E-01	8.2E-02	7.3E-07	1.1E-02	5.4E-02
400	7.0E+00	8.9E-03	1.0E-03	6.5E-05	1.6E-01	8.2E-02	8.4E-07	1.2E-02	6.2E-02
401	8.1E+00	8.9E-03	1.0E-03	7.6E-05	1.6E-01	8.2E-02	9.8E-07	1.5E-02	7.3E-02
402	9.6E+00	8.9E-03	1.0E-03	9.0E-05	1.6E-01	8.2E-02	1.2E-06	1.7E-02	8.6E-02
403	6.2E+00	8.9E-03	1.0E-03	5.8E-05	1.6E-01	8.2E-02	7.5E-07	1.1E-02	5.6E-02
404	7.2E+00	8.9E-03	1.0E-03	6.7E-05	1.6E-01	8.2E-02	8.7E-07	1.3E-02	6.4E-02
405	8.4E+00	8.9E-03	1.0E-03	7.9E-05	1.6E-01	8.2E-02	1.0E-06	1.5E-02	7.5E-02
406	1.0E+01	8.9E-03	1.0E-03	9.4E-05	1.6E-01	8.2E-02	1.2E-06	1.8E-02	9.0E-02
407	6.3E+00	8.9E-03	1.0E-03	5.9E-05	1.6E-01	8.2E-02	7.6E-07	1.1E-02	5.7E-02
408	7.4E+00	8.9E-03	1.0E-03	6.9E-05	1.6E-01	8.2E-02	8.9E-07	1.3E-02	6.6E-02
409	8.7E+00	8.9E-03	1.0E-03	8.1E-05	1.6E-01	8.2E-02	1.0E-06	1.6E-02	7.8E-02
410	1.0E+01	8.9E-03	1.0E-03	9.7E-05	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.3E-02
411	6.4E+00	8.9E-03	1.0E-03	6.0E-05	1.6E-01	8.2E-02	7.7E-07	1.1E-02	5.7E-02
412	7.5E+00	8.9E-03	1.0E-03	7.0E-05	1.6E-01	8.2E-02	9.0E-07	1.3E-02	6.7E-02
413	8.8E+00	8.9E-03	1.0E-03	8.3E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	7.9E-02
414	1.1E+01	8.9E-03	1.0E-03	9.9E-05	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.5E-02
415	6.4E+00	8.9E-03	1.0E-03	6.0E-05	1.6E-01	8.2E-02	7.7E-07	1.1E-02	5.7E-02
416	7.5E+00	8.9E-03	1.0E-03	7.0E-05	1.6E-01	8.2E-02	9.1E-07	1.3E-02	6.7E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	8.9E-03	1.0E-03	8.3E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	8.0E-02
418	1.1E+01	8.9E-03	1.0E-03	1.0E-04	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.6E-02
419	6.4E+00	8.9E-03	1.0E-03	5.9E-05	1.6E-01	8.2E-02	7.7E-07	1.1E-02	5.7E-02
420	7.5E+00	8.9E-03	1.0E-03	7.0E-05	1.6E-01	8.2E-02	9.0E-07	1.3E-02	6.7E-02
421	8.9E+00	8.9E-03	1.0E-03	8.3E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	7.9E-02
422	1.1E+01	8.9E-03	1.0E-03	1.0E-04	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.6E-02
423	6.3E+00	8.9E-03	1.0E-03	5.8E-05	1.6E-01	8.2E-02	7.5E-07	1.1E-02	5.6E-02
424	7.4E+00	8.9E-03	1.0E-03	6.9E-05	1.6E-01	8.2E-02	8.9E-07	1.3E-02	6.6E-02
425	8.8E+00	8.9E-03	1.0E-03	8.2E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	7.8E-02
426	1.1E+01	8.9E-03	1.0E-03	9.9E-05	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.5E-02
427	6.1E+00	8.9E-03	1.0E-03	5.7E-05	1.6E-01	8.2E-02	7.4E-07	1.1E-02	5.5E-02
428	7.2E+00	8.9E-03	1.0E-03	6.7E-05	1.6E-01	8.2E-02	8.7E-07	1.3E-02	6.4E-02
429	8.6E+00	8.9E-03	1.0E-03	8.0E-05	1.6E-01	8.2E-02	1.0E-06	1.5E-02	7.7E-02
430	1.0E+01	8.9E-03	1.0E-03	9.7E-05	1.6E-01	8.2E-02	1.3E-06	1.9E-02	9.3E-02
431	5.9E+00	8.9E-03	1.0E-03	5.5E-05	1.6E-01	8.2E-02	7.1E-07	1.1E-02	5.3E-02
432	6.9E+00	8.9E-03	1.0E-03	6.5E-05	1.6E-01	8.2E-02	8.4E-07	1.2E-02	6.2E-02
433	8.3E+00	8.9E-03	1.0E-03	7.7E-05	1.6E-01	8.2E-02	1.0E-06	1.5E-02	7.4E-02
434	1.0E+01	8.9E-03	1.0E-03	9.4E-05	1.6E-01	8.2E-02	1.2E-06	1.8E-02	9.0E-02
435	5.6E+00	8.9E-03	1.0E-03	5.3E-05	1.6E-01	8.2E-02	6.8E-07	1.0E-02	5.0E-02
436	6.6E+00	8.9E-03	1.0E-03	6.2E-05	1.6E-01	8.2E-02	8.0E-07	1.2E-02	5.9E-02
437	7.9E+00	8.9E-03	1.0E-03	7.4E-05	1.6E-01	8.2E-02	9.5E-07	1.4E-02	7.0E-02
438	9.6E+00	8.9E-03	1.0E-03	8.9E-05	1.6E-01	8.2E-02	1.2E-06	1.7E-02	8.6E-02
439	5.4E+00	8.9E-03	1.0E-03	5.0E-05	1.6E-01	8.2E-02	6.5E-07	9.6E-03	4.8E-02
440	6.3E+00	8.9E-03	1.0E-03	5.9E-05	1.6E-01	8.2E-02	7.6E-07	1.1E-02	5.6E-02
441	7.4E+00	8.9E-03	1.0E-03	6.9E-05	1.6E-01	8.2E-02	9.0E-07	1.3E-02	6.6E-02
442	9.0E+00	8.9E-03	1.0E-03	8.4E-05	1.6E-01	8.2E-02	1.1E-06	1.6E-02	8.0E-02
443	5.0E+00	8.9E-03	1.0E-03	4.7E-05	1.6E-01	8.2E-02	6.1E-07	9.0E-03	4.5E-02
444	5.9E+00	8.9E-03	1.0E-03	5.5E-05	1.6E-01	8.2E-02	7.1E-07	1.0E-02	5.2E-02
445	6.9E+00	8.9E-03	1.0E-03	6.5E-05	1.6E-01	8.2E-02	8.3E-07	1.2E-02	6.2E-02
446	8.3E+00	8.9E-03	1.0E-03	7.8E-05	1.6E-01	8.2E-02	1.0E-06	1.5E-02	7.4E-02
447	4.7E+00	8.9E-03	1.0E-03	4.4E-05	1.6E-01	8.2E-02	5.7E-07	8.4E-03	4.2E-02
448	5.4E+00	8.9E-03	1.0E-03	5.1E-05	1.6E-01	8.2E-02	6.6E-07	9.7E-03	4.9E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	8.9E-03	1.0E-03	5.9E-05	1.6E-01	8.2E-02	7.7E-07	1.1E-02	5.7E-02
450	7.6E+00	8.9E-03	1.0E-03	7.1E-05	1.6E-01	8.2E-02	9.1E-07	1.4E-02	6.8E-02
451	4.4E-01	8.9E-03	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.9E-04	3.9E-03
452	4.4E-01	8.9E-03	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.9E-04	4.0E-03
453	4.4E-01	8.9E-03	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.0E-04	4.0E-03
454	4.5E-01	8.9E-03	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.0E-04	4.0E-03
455	5.4E-01	8.9E-03	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.5E-08	9.6E-04	4.8E-03
456	5.4E-01	8.9E-03	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.5E-08	9.7E-04	4.9E-03
457	5.5E-01	8.9E-03	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.6E-08	9.8E-04	4.9E-03
458	5.4E-01	8.9E-03	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.5E-08	9.7E-04	4.9E-03
459	6.8E-01	8.9E-03	1.0E-03	6.4E-06	1.6E-01	8.2E-02	8.2E-08	1.2E-03	6.1E-03
460	6.8E-01	8.9E-03	1.0E-03	6.4E-06	1.6E-01	8.2E-02	8.3E-08	1.2E-03	6.1E-03
461	6.8E-01	8.9E-03	1.0E-03	6.4E-06	1.6E-01	8.2E-02	8.2E-08	1.2E-03	6.1E-03
462	7.8E-01	8.9E-03	1.0E-03	7.3E-06	1.6E-01	8.2E-02	9.5E-08	1.4E-03	7.0E-03
463	9.7E-01	8.9E-03	1.0E-03	9.0E-06	1.6E-01	8.2E-02	1.2E-07	1.7E-03	8.7E-03
464	7.9E-01	8.9E-03	1.0E-03	7.4E-06	1.6E-01	8.2E-02	9.6E-08	1.4E-03	7.1E-03
465	1.0E+00	8.9E-03	1.0E-03	9.4E-06	1.6E-01	8.2E-02	1.2E-07	1.8E-03	9.0E-03
466	1.3E+00	8.9E-03	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.6E-07	2.3E-03	1.2E-02
467	1.8E+00	8.9E-03	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.1E-07	3.2E-03	1.6E-02
468	7.7E-01	8.9E-03	1.0E-03	7.2E-06	1.6E-01	8.2E-02	9.3E-08	1.4E-03	6.9E-03
469	9.8E-01	8.9E-03	1.0E-03	9.2E-06	1.6E-01	8.2E-02	1.2E-07	1.8E-03	8.8E-03
470	1.3E+00	8.9E-03	1.0E-03	1.2E-05	1.6E-01	8.2E-02	1.6E-07	2.3E-03	1.2E-02
471	1.8E+00	8.9E-03	1.0E-03	1.7E-05	1.6E-01	8.2E-02	2.2E-07	3.3E-03	1.6E-02
472	9.2E-01	8.9E-03	1.0E-03	8.6E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	8.2E-03
473	1.2E+00	8.9E-03	1.0E-03	1.1E-05	1.6E-01	8.2E-02	1.5E-07	2.2E-03	1.1E-02
474	1.7E+00	8.9E-03	1.0E-03	1.6E-05	1.6E-01	8.2E-02	2.1E-07	3.1E-03	1.6E-02
475	8.3E-01	8.9E-03	1.0E-03	7.8E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.5E-03
476	1.1E+00	8.9E-03	1.0E-03	1.0E-05	1.6E-01	8.2E-02	1.3E-07	2.0E-03	9.8E-03
477	1.5E+00	8.9E-03	1.0E-03	1.4E-05	1.6E-01	8.2E-02	1.9E-07	2.7E-03	1.4E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
1	2.8E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	2.7E+00	2.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12
2	2.9E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12
3	3.1E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12
4	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
5	3.3E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.5E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
6	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
7	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
8	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	4.1E+00	2.3E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11
9	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
10	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
11	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.8E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
12	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.8E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
13	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
14	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
15	2.9E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	4.1E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
16	2.8E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
17	3.1E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.2E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12
18	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12
19	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
20	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	3.6E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11
21	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
22	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.1E+00	2.3E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
23	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
24	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
25	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
26	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
27	3.1E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
28	3.4E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12
29	3.8E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
30	4.1E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.9E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
31	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
32	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
33	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.2E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
34	5.0E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.5E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
35	5.3E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
36	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
37	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	7.1E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
38	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
39	5.3E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
40	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
41	3.7E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
42	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
43	3.7E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
44	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.8E-12	3.6E+00	2.3E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11
45	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
46	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
47	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	5.3E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
48	5.6E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
49	5.9E+00	1.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11	6.3E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
50	6.2E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11
51	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
52	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	8.8E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
53	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	9.2E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
54	6.3E+00	1.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	9.4E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
55	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	9.3E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11
56	5.7E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
57	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
58	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	6.5E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
59	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
60	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	6.9E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
61	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.7E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11
62	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	4.2E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
63	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
64	5.7E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.3E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
65	7.0E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11
66	7.5E+00	1.3E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11	8.2E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11
67	7.9E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
68	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
69	7.9E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
70	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	1.2E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
71	7.2E+00	1.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
72	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
73	4.4E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
74	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	3.8E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
75	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
76	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	4.9E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
77	6.7E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
78	7.3E+00	1.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	6.5E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
79	8.0E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
80	9.9E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
81	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	1.4E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
82	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
83	9.5E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
84	8.9E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
85	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
86	4.5E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	3.4E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
87	5.2E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.9E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
88	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
89	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
90	7.7E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
91	8.7E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
92	9.7E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	8.1E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11
93	1.1E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
94	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
95	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	2.6E+01	2.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
96	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
97	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.2E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
98	5.5E+00	1.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.4E-12	3.8E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
99	6.4E+00	1.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
100	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11
101	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
102	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.1E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
103	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
104	4.8E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	3.3E+00	2.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11
105	5.7E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
106	6.7E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
107	1.8E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
108	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.4E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
109	4.7E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	3.2E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	9.9E-12
110	5.6E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
111	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
112	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11	1.1E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
113	3.0E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
114	4.5E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12
115	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
116	6.6E+00	1.3E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11	4.1E+00	2.3E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11
117	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
118	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
119	4.2E+01	1.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
120	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12
121	5.1E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	3.3E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
122	6.2E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.1E-11	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
123	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
124	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.0E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
125	4.8E+01	1.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
126	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	6.9E-12	2.8E+00	2.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12
127	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	3.2E+00	2.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12
128	5.7E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
129	7.1E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
130	8.9E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
131	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
132	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
133	2.4E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
134	4.0E+01	1.3E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	3.9E-11
135	8.8E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
136	3.8E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12
137	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	3.0E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.4E-12
138	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12	3.4E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
139	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
140	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
141	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.6E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11
142	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
143	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	8.6E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
144	3.0E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
145	5.2E+01	1.3E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
146	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.5E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12
147	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.2E-12	2.9E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12
148	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	3.2E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
149	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	3.8E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11
150	7.3E+00	1.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11
151	9.2E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
152	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
153	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.6E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
154	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	9.5E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
155	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11	1.2E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
156	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	2.4E+00	2.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12
157	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	2.7E+00	2.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12
158	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.5E-12
159	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
160	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
161	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
162	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
163	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
164	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	8.1E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
165	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.0E+01	2.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
166	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.5E-12	2.3E+00	2.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12
167	3.7E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.9E-12
168	4.2E+00	1.3E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	2.9E+00	2.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12
169	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.5E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
170	5.9E+00	1.3E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	1.0E-11	3.7E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11
171	7.0E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
172	8.5E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
173	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
174	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
175	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	8.3E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
176	3.0E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.1E-12	2.2E+00	2.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12
177	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	2.4E+00	2.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12
178	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12
179	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.0E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12
180	5.2E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
181	6.1E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
182	7.2E+00	1.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
183	8.4E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
184	9.8E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
185	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	6.8E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
186	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.1E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
187	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	5.2E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
188	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
189	2.8E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	2.0E+00	2.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12
190	3.1E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	2.3E+00	2.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12
191	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	2.5E+00	2.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12
192	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.9E-12	2.8E+00	2.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
193	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12
194	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
195	6.1E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	3.9E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
196	6.9E+00	1.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
197	8.6E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
198	7.1E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
199	6.2E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
200	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
201	4.7E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
202	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
203	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
204	2.6E+00	1.3E-07	1.0E-03	3.4E-10	1.6E-01	8.2E-02	4.4E-12	1.9E+00	2.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12
205	2.9E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	2.1E+00	2.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12
206	3.2E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	2.3E+00	2.3E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12
207	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12
208	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.8E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12
209	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12
210	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
211	6.3E+00	1.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
212	6.7E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
213	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
214	6.2E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
215	5.8E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
216	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
217	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
218	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
219	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
220	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.4E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
221	2.4E+00	1.3E-07	1.0E-03	3.2E-10	1.6E-01	8.2E-02	4.1E-12	1.8E+00	2.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12
222	2.7E+00	1.3E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	2.0E+00	2.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12
223	3.0E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	2.2E+00	2.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12
224	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	2.4E+00	2.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
225	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12
226	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12
227	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
228	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	3.7E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11
229	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
230	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
231	5.0E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
232	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
233	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	4.2E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
234	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	3.9E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
235	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
236	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.3E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
237	2.9E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.5E-12
238	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
239	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
240	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
241	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
242	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
243	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
244	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
245	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
246	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
247	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
248	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
249	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
250	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
251	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
252	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
253	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
254	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
255	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
256	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
257	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
258	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
259	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11
260	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.4E-11
261	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
262	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
263	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
264	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.0E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
265	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
266	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.2E+01	2.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
267	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.2E+01	2.3E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	6.9E-11
268	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.3E+01	2.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
269	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.4E+01	2.3E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.3E-11
270	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
271	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
272	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.2E+01	2.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
273	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	2.2E+01	2.3E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	7.0E-11
274	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	2.3E+01	2.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
275	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
276	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.5E+01	2.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.7E-11
277	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.6E+01	2.3E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11
278	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.6E+01	2.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.2E-11
279	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.7E+01	2.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11
280	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.8E+01	2.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11
281	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.8E+01	2.3E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11
282	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
283	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.5E+01	2.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11
284	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.6E+01	2.3E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.1E-11
285	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.7E+01	2.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.3E-11
286	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.8E+01	2.3E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.6E-11
287	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.9E+01	2.3E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
288	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.0E+01	2.3E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
289	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.0E+01	2.3E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11
290	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.1E+01	2.3E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.6E-11
291	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.2E+01	2.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
292	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.2E+01	2.3E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	9.9E-11
293	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	2.9E+01	2.3E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.1E-11
294	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.0E+01	2.3E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11
295	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.2E+01	2.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
296	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.3E+01	2.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10
297	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.4E+01	2.3E-07	1.0E-03	8.1E-09	1.6E-01	8.2E-02	1.0E-10
298	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.5E+01	2.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
299	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.5E+01	2.3E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
300	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10
301	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
302	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.6E+01	2.3E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10
303	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
304	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.5E+01	2.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
305	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
306	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+01	2.3E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10
307	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.9E+01	2.3E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
308	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.0E+01	2.3E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
309	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.1E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10
310	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.1E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
311	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.2E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
312	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.2E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
313	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.1E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10
314	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.0E+01	2.3E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
315	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.9E+01	2.3E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
316	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.4E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
317	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.6E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
318	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10
319	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
320	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
321	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
322	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10
323	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
324	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.5E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
325	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
326	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	5.6E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
327	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
328	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
329	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
330	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
331	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	6.9E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.1E-10
332	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.0E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
333	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.9E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.1E-10
334	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.6E+01	2.3E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.1E-10
335	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
336	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
337	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
338	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
339	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
340	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
341	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
342	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
343	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
344	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
345	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11	1.4E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
346	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
347	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
348	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
349	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.3E-11
350	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
351	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
352	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
353	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
354	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
355	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
356	1.6E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
357	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
358	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.8E-11
359	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
360	1.7E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
361	1.7E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
362	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
363	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
364	1.8E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
365	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
366	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
367	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
368	1.9E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
369	1.9E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
370	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
371	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
372	2.0E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
373	2.1E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
374	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
375	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
376	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	1.6E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11
377	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
378	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
379	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
380	2.3E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
381	2.4E+01	1.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
382	2.5E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
383	2.4E+01	1.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
384	2.5E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
385	2.6E+01	1.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
386	2.7E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
387	2.6E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11
388	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
389	2.8E+01	1.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
390	2.9E+01	1.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
391	2.8E+01	1.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
392	3.0E+01	1.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
393	3.1E+01	1.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
394	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
395	3.1E+01	1.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
396	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
397	3.4E+01	1.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
398	3.5E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11	2.0E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
399	3.3E+01	1.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
400	3.5E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
401	3.7E+01	1.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
402	3.8E+01	1.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11
403	3.6E+01	1.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
404	3.8E+01	1.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
405	4.0E+01	1.3E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.9E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
406	4.3E+01	1.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
407	3.9E+01	1.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
408	4.2E+01	1.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
409	4.5E+01	1.3E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
410	4.7E+01	1.3E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
411	4.3E+01	1.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
412	4.6E+01	1.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
413	4.9E+01	1.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.1E-11
414	5.3E+01	1.3E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
415	4.6E+01	1.3E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
416	5.0E+01	1.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
417	5.4E+01	1.3E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.3E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
418	5.9E+01	1.3E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	1.0E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
419	5.0E+01	1.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.4E-11
420	5.5E+01	1.3E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.4E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
421	6.0E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
422	6.6E+01	1.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
423	5.4E+01	1.3E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
424	6.0E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
425	6.7E+01	1.3E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.1E-11
426	7.4E+01	1.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
427	5.8E+01	1.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
428	6.5E+01	1.3E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
429	7.3E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.2E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
430	8.3E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
431	6.1E+01	1.3E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
432	7.0E+01	1.3E-07	1.0E-03	9.2E-09	1.6E-01	8.2E-02	1.2E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
433	8.0E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11
434	9.3E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
435	6.3E+01	1.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
436	7.3E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.2E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
437	8.6E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
438	1.0E+02	1.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
439	6.4E+01	1.3E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
440	7.6E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11
441	9.0E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
442	1.1E+02	1.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11
443	6.4E+01	1.3E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
444	7.6E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.4E-11
445	9.2E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
446	1.1E+02	1.3E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
447	6.2E+01	1.3E-07	1.0E-03	8.2E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
448	7.4E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.3E-10	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	9.0E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
450	1.1E+02	1.3E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
451	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
452	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
453	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
454	3.3E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
455	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	6.0E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
456	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
457	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.8E-12	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
458	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
459	5.1E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
460	4.8E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
461	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11
462	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
463	8.8E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
464	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
465	9.8E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
466	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
467	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
468	8.3E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
469	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
470	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
471	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
472	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
473	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	7.0E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
474	1.9E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
475	9.7E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
476	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.5E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
477	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.0E-11	8.1E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
1	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
2	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
3	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
4	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
5	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
6	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
7	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
8	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
9	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
10	5.3E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
11	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
12	6.0E+00	1.4E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
13	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
14	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
15	5.0E+00	1.4E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
16	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
17	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
18	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
19	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	2.0E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
20	3.9E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
21	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
22	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
23	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
24	7.7E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
25	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	5.8E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
26	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	5.9E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
27	5.4E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.9E+00	7.6E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11
28	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
29	3.9E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
30	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
31	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
32	5.2E+00	1.4E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
33	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
34	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
35	6.9E+00	1.4E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
36	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
37	8.9E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
38	9.4E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.2E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
39	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.6E+00	7.6E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
40	7.7E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
41	7.0E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11
42	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
43	3.2E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
44	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
45	4.1E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
46	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.4E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
47	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
48	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
49	7.2E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
50	8.1E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
51	9.0E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	4.2E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.3E-11
52	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	5.4E+00	7.6E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
53	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.0E+00	7.6E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
54	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
55	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	7.3E+00	7.6E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.4E-11
56	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	7.8E+00	7.6E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11
57	9.6E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	8.7E+00	7.6E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11
58	8.5E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
59	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
60	3.2E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
61	3.7E+00	1.4E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
62	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	2.0E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
63	4.8E+00	1.4E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
64	5.4E+00	1.4E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	1.0E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
65	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
66	9.5E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
67	1.1E+01	1.4E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
68	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.1E+00	7.6E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
69	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
70	1.7E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	8.1E+00	7.6E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.2E-11
71	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	9.0E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11
72	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	9.9E+00	7.6E-07	1.0E-03	7.8E-09	1.6E-01	8.2E-02	1.0E-10
73	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
74	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
75	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
76	4.8E+00	1.4E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
77	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
78	6.6E+00	1.4E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
79	7.8E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	3.1E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
80	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
81	1.9E+01	1.4E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
82	2.3E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	8.4E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11
83	2.6E+01	1.4E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11	1.0E+01	7.6E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10
84	2.7E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
85	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
86	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
87	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
88	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
89	4.8E+00	1.4E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
90	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
91	6.8E+00	1.4E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
92	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
93	9.9E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
94	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
95	4.8E+01	1.4E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.8E-11	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
96	4.6E+01	1.4E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
97	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
98	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
99	4.0E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
100	6.7E+00	1.4E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
101	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
102	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
103	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
104	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
105	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
106	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
107	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
108	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
109	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.1E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
110	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
111	3.7E+00	1.4E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
112	9.5E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
113	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
114	2.7E+00	1.4E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
115	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
116	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.4E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
117	4.0E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
118	8.7E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
119	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
120	2.6E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
121	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
122	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
123	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
124	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
125	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11	3.1E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
126	2.4E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
127	2.7E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
128	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
129	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
130	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
131	4.9E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
132	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
133	7.2E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
134	9.0E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
135	1.2E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
136	2.3E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.2E+00	7.6E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
137	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.3E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
138	3.0E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
139	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
140	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
141	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
142	5.4E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
143	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
144	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.7E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
145	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.1E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
146	2.2E+00	1.4E-07	1.0E-03	3.2E-10	1.6E-01	8.2E-02	4.1E-12	1.2E+00	7.6E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
147	2.5E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
148	2.8E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.1E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
149	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
150	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
151	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.8E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
152	4.8E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
153	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
154	6.8E+00	1.4E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
155	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
156	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.9E-12	1.2E+00	7.6E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
157	2.4E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.3E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
158	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
159	2.9E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
160	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
161	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
162	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
163	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
164	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
165	6.9E+00	1.4E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
166	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.7E-12	1.1E+00	7.6E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11
167	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.1E-12	1.2E+00	7.6E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
168	2.5E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
169	2.7E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
170	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
171	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
172	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
173	4.4E+00	1.4E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
174	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.2E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
175	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
176	1.9E+00	1.4E-07	1.0E-03	2.7E-10	1.6E-01	8.2E-02	3.5E-12	1.1E+00	7.6E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11
177	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.8E-12	1.2E+00	7.6E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
178	2.3E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.2E-12	1.2E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
179	2.5E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.6E-12	1.3E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
180	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
181	3.1E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.7E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
182	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
183	3.9E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
184	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.1E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
185	4.9E+00	1.4E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
186	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
187	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
188	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	5.2E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
189	1.8E+00	1.4E-07	1.0E-03	2.5E-10	1.6E-01	8.2E-02	3.3E-12	1.0E+00	7.6E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
190	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.6E-12	1.1E+00	7.6E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
191	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.9E-12	1.2E+00	7.6E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
192	2.4E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
193	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.7E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
194	2.9E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
195	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
196	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.4E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
197	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
198	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.2E-12	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
199	4.8E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
200	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
201	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
202	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
203	3.6E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
204	1.7E+00	1.4E-07	1.0E-03	2.4E-10	1.6E-01	8.2E-02	3.1E-12	1.0E+00	7.6E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
205	1.8E+00	1.4E-07	1.0E-03	2.6E-10	1.6E-01	8.2E-02	3.4E-12	1.1E+00	7.6E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11
206	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.7E-12	1.1E+00	7.6E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
207	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.0E-12	1.2E+00	7.6E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
208	2.4E+00	1.4E-07	1.0E-03	3.4E-10	1.6E-01	8.2E-02	4.4E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
209	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
210	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
211	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
212	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
213	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
214	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
215	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	3.0E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
216	4.1E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
217	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
218	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
219	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
220	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
221	1.6E+00	1.4E-07	1.0E-03	2.3E-10	1.6E-01	8.2E-02	2.9E-12	9.7E-01	7.6E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.9E-12
222	1.7E+00	1.4E-07	1.0E-03	2.4E-10	1.6E-01	8.2E-02	3.2E-12	1.0E+00	7.6E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.1E-11
223	1.9E+00	1.4E-07	1.0E-03	2.6E-10	1.6E-01	8.2E-02	3.4E-12	1.1E+00	7.6E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11
224	2.0E+00	1.4E-07	1.0E-03	2.9E-10	1.6E-01	8.2E-02	3.7E-12	1.2E+00	7.6E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
225	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.0E-12	1.3E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
226	2.6E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
227	2.8E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.1E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
228	3.0E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
229	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
230	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
231	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.5E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
232	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
233	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
234	3.3E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
235	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
236	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	3.1E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
237	2.7E+00	1.4E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	5.0E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
238	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	6.1E+00	7.6E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
239	1.9E+01	1.4E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11	6.4E+00	7.6E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
240	1.9E+01	1.4E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	6.6E+00	7.6E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
241	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.9E+00	7.6E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	7.0E-11
242	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	7.2E+00	7.6E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.3E-11
243	2.2E+01	1.4E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	7.5E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
244	1.9E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	6.2E+00	7.6E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
245	2.0E+01	1.4E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	6.4E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
246	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
247	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
248	2.2E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	7.3E+00	7.6E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.4E-11
249	2.3E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.6E+00	7.6E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11
250	2.4E+01	1.4E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11	8.0E+00	7.6E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
251	2.5E+01	1.4E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	8.3E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11
252	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.5E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
253	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	6.8E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.9E-11
254	2.3E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
255	2.4E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.4E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
256	2.5E+01	1.4E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	7.8E+00	7.6E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
257	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11	8.1E+00	7.6E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.3E-11
258	2.7E+01	1.4E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11	8.5E+00	7.6E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11
259	2.8E+01	1.4E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11	8.9E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.1E-11
260	3.0E+01	1.4E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11	9.4E+00	7.6E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.6E-11
261	2.4E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11
262	2.5E+01	1.4E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	7.5E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
263	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	7.9E+00	7.6E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11
264	2.7E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	8.3E+00	7.6E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11
265	2.9E+01	1.4E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
266	3.1E+01	1.4E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11	9.2E+00	7.6E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.4E-11
267	3.2E+01	1.4E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11	9.7E+00	7.6E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
268	3.4E+01	1.4E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11	1.0E+01	7.6E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10
269	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.1E+01	7.6E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
270	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.1E+01	7.6E-07	1.0E-03	8.9E-09	1.6E-01	8.2E-02	1.2E-10
271	2.8E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11	8.0E+00	7.6E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
272	2.9E+01	1.4E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11	8.4E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11
273	3.1E+01	1.4E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11	8.8E+00	7.6E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.0E-11
274	3.3E+01	1.4E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11	9.4E+00	7.6E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.6E-11
275	3.5E+01	1.4E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11	9.9E+00	7.6E-07	1.0E-03	7.8E-09	1.6E-01	8.2E-02	1.0E-10
276	3.7E+01	1.4E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.0E+01	7.6E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
277	3.9E+01	1.4E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.1E+01	7.6E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10
278	4.1E+01	1.4E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
279	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.2E+01	7.6E-07	1.0E-03	9.9E-09	1.6E-01	8.2E-02	1.3E-10
280	4.5E+01	1.4E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.3E-11	1.3E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
281	4.8E+01	1.4E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
282	3.3E+01	1.4E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11	9.0E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11
283	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.4E-11	9.5E+00	7.6E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.7E-11
284	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.0E+01	7.6E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10
285	4.0E+01	1.4E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11	1.1E+01	7.6E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
286	4.2E+01	1.4E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.7E-11	1.1E+01	7.6E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10
287	4.5E+01	1.4E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.2E-11	1.2E+01	7.6E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
288	4.8E+01	1.4E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
289	5.1E+01	1.4E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.3E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
290	5.4E+01	1.4E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
291	5.7E+01	1.4E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.6E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.6E-10
292	5.9E+01	1.4E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
293	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.8E-11	1.1E+01	7.6E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
294	4.6E+01	1.4E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
295	4.9E+01	1.4E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.0E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
296	5.3E+01	1.4E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.7E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
297	5.7E+01	1.4E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
298	6.1E+01	1.4E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
299	6.5E+01	1.4E-07	1.0E-03	9.2E-09	1.6E-01	8.2E-02	1.2E-10	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
300	6.9E+01	1.4E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10	1.8E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10
301	7.3E+01	1.4E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10
302	7.6E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.2E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
303	7.9E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.3E+01	7.6E-07	1.0E-03	1.8E-08	1.6E-01	8.2E-02	2.4E-10
304	5.4E+01	1.4E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	9.9E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
305	5.8E+01	1.4E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
306	6.3E+01	1.4E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
307	6.9E+01	1.4E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.3E-10	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
308	7.4E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10
309	8.0E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10
310	8.7E+01	1.4E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	2.2E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
311	9.2E+01	1.4E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.4E+01	7.6E-07	1.0E-03	1.9E-08	1.6E-01	8.2E-02	2.5E-10
312	9.7E+01	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	2.6E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10
313	1.0E+02	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	2.9E+01	7.6E-07	1.0E-03	2.3E-08	1.6E-01	8.2E-02	2.9E-10
314	1.0E+02	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	3.1E+01	7.6E-07	1.0E-03	2.5E-08	1.6E-01	8.2E-02	3.2E-10
315	9.7E+01	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	3.3E+01	7.6E-07	1.0E-03	2.6E-08	1.6E-01	8.2E-02	3.4E-10
316	7.8E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
317	8.6E+01	1.4E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	2.0E-10
318	9.5E+01	1.4E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.1E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
319	1.0E+02	1.4E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.4E+01	7.6E-07	1.0E-03	1.9E-08	1.6E-01	8.2E-02	2.4E-10
320	1.1E+02	1.4E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.1E-10	2.7E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
321	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	3.0E+01	7.6E-07	1.0E-03	2.4E-08	1.6E-01	8.2E-02	3.1E-10
322	3.6E+01	1.4E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.6E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
323	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.7E-10
324	3.4E+01	1.4E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10
325	1.1E+02	1.4E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10	2.3E+01	7.6E-07	1.0E-03	1.8E-08	1.6E-01	8.2E-02	2.3E-10
326	4.4E+01	1.4E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	2.6E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10
327	4.4E+01	1.4E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	3.0E+01	7.6E-07	1.0E-03	2.4E-08	1.6E-01	8.2E-02	3.1E-10
328	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
329	4.2E+01	1.4E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
330	4.1E+01	1.4E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10
331	5.2E+01	1.4E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.5E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
332	5.2E+01	1.4E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11	1.6E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.6E-10
333	5.0E+01	1.4E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
334	4.8E+01	1.4E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	2.0E-10
335	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
336	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
337	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
338	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
339	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
340	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
341	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
342	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
343	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
344	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
345	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
346	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
347	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
348	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
349	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.7E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.8E-11
350	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
351	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.4E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11
352	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
353	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
354	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
355	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
356	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
357	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
358	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
359	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
360	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.5E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
361	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
362	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
363	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
364	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
365	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.0E-11	4.6E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
366	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
367	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
368	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
369	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
370	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
371	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
372	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11
373	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
374	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
375	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
376	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
377	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.5E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
378	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
379	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
380	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
381	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
382	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
383	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
384	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
385	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
386	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
387	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
388	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
389	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
390	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
391	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
392	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
393	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
394	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
395	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
396	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
397	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
398	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
399	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.9E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
400	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
401	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
402	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
403	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
404	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
405	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
406	1.7E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
407	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
408	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
409	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
410	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
411	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
412	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
413	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
414	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
415	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
416	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
417	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
418	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
419	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
420	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
421	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
422	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.1E-11
423	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
424	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
425	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
426	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
427	1.2E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
428	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
429	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
430	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	3.9E-11
431	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
432	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
433	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
434	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
435	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
436	1.2E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
437	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
438	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.7E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
439	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
440	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
441	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
442	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
443	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
444	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
445	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
446	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
447	1.1E+01	1.4E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	3.2E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11
448	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
450	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
451	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
452	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.6E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
453	6.0E+00	1.4E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
454	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
455	7.8E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.1E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
456	7.6E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.4E+00	7.6E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
457	7.3E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.6E+00	7.6E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
458	6.9E+00	1.4E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11	5.8E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
459	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	6.0E+00	7.6E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
460	9.6E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	6.4E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
461	9.1E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
462	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
463	5.6E+00	1.4E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
464	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
465	5.3E+00	1.4E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
466	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
467	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
468	4.3E+00	1.4E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
469	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
470	6.1E+00	1.4E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
471	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
472	4.8E+00	1.4E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
473	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
474	6.9E+00	1.4E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
475	4.4E+00	1.4E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
476	5.3E+00	1.4E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
477	6.4E+00	1.4E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11

5. Risk by Construction Phase

d. Risk From Trenching - Unmitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	7.6E-03	1.0E-03	2.3E-06	1.6E-01	7.9E-02	2.8E-08	4.3E-04	2.2E-03
2	3.0E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	7.9E-02	2.9E-08	4.5E-04	2.3E-03
3	3.1E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	7.9E-02	3.1E-08	4.7E-04	2.3E-03
4	3.2E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.1E-08	4.8E-04	2.4E-03
5	3.3E-01	7.6E-03	1.0E-03	2.6E-06	1.6E-01	7.9E-02	3.2E-08	5.0E-04	2.5E-03
6	3.4E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	7.9E-02	3.3E-08	5.1E-04	2.5E-03
7	3.5E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	7.9E-02	3.4E-08	5.2E-04	2.6E-03
8	3.6E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.5E-08	5.4E-04	2.7E-03
9	3.7E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	7.9E-02	3.6E-08	5.6E-04	2.8E-03
10	3.8E-01	7.6E-03	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.8E-08	5.8E-04	2.9E-03
11	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	7.9E-02	3.9E-08	6.0E-04	3.0E-03
12	4.1E-01	7.6E-03	1.0E-03	3.3E-06	1.6E-01	7.9E-02	4.1E-08	6.3E-04	3.1E-03
13	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.2E-08	6.4E-04	3.2E-03
14	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.3E-08	6.6E-04	3.3E-03
15	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.3E-08	6.5E-04	3.3E-03
16	4.2E-01	7.6E-03	1.0E-03	3.3E-06	1.6E-01	7.9E-02	4.2E-08	6.4E-04	3.2E-03
17	3.2E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.1E-08	4.8E-04	2.4E-03
18	3.4E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	7.9E-02	3.3E-08	5.1E-04	2.6E-03
19	3.6E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.5E-08	5.4E-04	2.7E-03
20	3.7E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	7.9E-02	3.7E-08	5.6E-04	2.8E-03
21	3.9E-01	7.6E-03	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.8E-08	5.8E-04	2.9E-03
22	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	7.9E-02	3.9E-08	6.0E-04	3.0E-03
23	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	7.9E-02	5.1E-08	7.9E-04	3.9E-03
24	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.3E-08	8.1E-04	4.0E-03
25	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.2E-08	8.0E-04	4.0E-03
26	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	7.9E-02	5.1E-08	7.8E-04	3.9E-03
27	5.0E-01	7.6E-03	1.0E-03	3.9E-06	1.6E-01	7.9E-02	4.9E-08	7.5E-04	3.8E-03
28	3.5E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.5E-08	5.3E-04	2.7E-03
29	4.1E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	7.9E-02	4.0E-08	6.2E-04	3.1E-03
30	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.3E-08	6.6E-04	3.3E-03
31	4.6E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.5E-08	6.9E-04	3.5E-03
32	4.8E-01	7.6E-03	1.0E-03	3.8E-06	1.6E-01	7.9E-02	4.8E-08	7.3E-04	3.7E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	7.6E-03	1.0E-03	4.0E-06	1.6E-01	7.9E-02	5.0E-08	7.6E-04	3.8E-03
34	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	7.9E-02	5.1E-08	7.9E-04	3.9E-03
35	5.5E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	7.9E-02	5.4E-08	8.3E-04	4.1E-03
36	5.7E-01	7.6E-03	1.0E-03	4.5E-06	1.6E-01	7.9E-02	5.6E-08	8.6E-04	4.3E-03
37	6.3E-01	7.6E-03	1.0E-03	5.0E-06	1.6E-01	7.9E-02	6.3E-08	9.6E-04	4.8E-03
38	6.6E-01	7.6E-03	1.0E-03	5.2E-06	1.6E-01	7.9E-02	6.5E-08	9.9E-04	5.0E-03
39	6.7E-01	7.6E-03	1.0E-03	5.3E-06	1.6E-01	7.9E-02	6.6E-08	1.0E-03	5.1E-03
40	6.5E-01	7.6E-03	1.0E-03	5.1E-06	1.6E-01	7.9E-02	6.4E-08	9.8E-04	4.9E-03
41	6.2E-01	7.6E-03	1.0E-03	4.9E-06	1.6E-01	7.9E-02	6.2E-08	9.4E-04	4.7E-03
42	5.9E-01	7.6E-03	1.0E-03	4.7E-06	1.6E-01	7.9E-02	5.8E-08	8.9E-04	4.5E-03
43	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	7.9E-02	3.8E-08	5.9E-04	2.9E-03
44	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.2E-08	6.4E-04	3.2E-03
45	4.7E-01	7.6E-03	1.0E-03	3.7E-06	1.6E-01	7.9E-02	4.6E-08	7.1E-04	3.5E-03
46	5.5E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	7.9E-02	5.4E-08	8.3E-04	4.2E-03
47	5.9E-01	7.6E-03	1.0E-03	4.7E-06	1.6E-01	7.9E-02	5.8E-08	8.9E-04	4.5E-03
48	6.2E-01	7.6E-03	1.0E-03	4.9E-06	1.6E-01	7.9E-02	6.1E-08	9.4E-04	4.7E-03
49	6.5E-01	7.6E-03	1.0E-03	5.2E-06	1.6E-01	7.9E-02	6.4E-08	9.9E-04	4.9E-03
50	6.9E-01	7.6E-03	1.0E-03	5.5E-06	1.6E-01	7.9E-02	6.8E-08	1.0E-03	5.2E-03
51	7.3E-01	7.6E-03	1.0E-03	5.8E-06	1.6E-01	7.9E-02	7.2E-08	1.1E-03	5.5E-03
52	8.2E-01	7.6E-03	1.0E-03	6.5E-06	1.6E-01	7.9E-02	8.1E-08	1.2E-03	6.2E-03
53	8.6E-01	7.6E-03	1.0E-03	6.8E-06	1.6E-01	7.9E-02	8.4E-08	1.3E-03	6.5E-03
54	8.8E-01	7.6E-03	1.0E-03	6.9E-06	1.6E-01	7.9E-02	8.7E-08	1.3E-03	6.6E-03
55	8.9E-01	7.6E-03	1.0E-03	7.0E-06	1.6E-01	7.9E-02	8.8E-08	1.3E-03	6.7E-03
56	8.9E-01	7.6E-03	1.0E-03	7.0E-06	1.6E-01	7.9E-02	8.8E-08	1.3E-03	6.7E-03
57	8.1E-01	7.6E-03	1.0E-03	6.4E-06	1.6E-01	7.9E-02	8.0E-08	1.2E-03	6.1E-03
58	7.6E-01	7.6E-03	1.0E-03	6.0E-06	1.6E-01	7.9E-02	7.5E-08	1.1E-03	5.7E-03
59	7.0E-01	7.6E-03	1.0E-03	5.6E-06	1.6E-01	7.9E-02	7.0E-08	1.1E-03	5.3E-03
60	4.2E-01	7.6E-03	1.0E-03	3.3E-06	1.6E-01	7.9E-02	4.1E-08	6.3E-04	3.2E-03
61	4.7E-01	7.6E-03	1.0E-03	3.7E-06	1.6E-01	7.9E-02	4.6E-08	7.1E-04	3.6E-03
62	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.2E-08	8.0E-04	4.0E-03
63	5.9E-01	7.6E-03	1.0E-03	4.7E-06	1.6E-01	7.9E-02	5.8E-08	8.9E-04	4.5E-03
64	6.6E-01	7.6E-03	1.0E-03	5.2E-06	1.6E-01	7.9E-02	6.5E-08	9.9E-04	5.0E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	7.6E-03	1.0E-03	6.7E-06	1.6E-01	7.9E-02	8.3E-08	1.3E-03	6.4E-03
66	9.1E-01	7.6E-03	1.0E-03	7.2E-06	1.6E-01	7.9E-02	9.0E-08	1.4E-03	6.9E-03
67	9.7E-01	7.6E-03	1.0E-03	7.7E-06	1.6E-01	7.9E-02	9.6E-08	1.5E-03	7.3E-03
68	1.1E+00	7.6E-03	1.0E-03	8.9E-06	1.6E-01	7.9E-02	1.1E-07	1.7E-03	8.5E-03
69	1.2E+00	7.6E-03	1.0E-03	9.3E-06	1.6E-01	7.9E-02	1.2E-07	1.8E-03	8.9E-03
70	1.2E+00	7.6E-03	1.0E-03	9.5E-06	1.6E-01	7.9E-02	1.2E-07	1.8E-03	9.1E-03
71	1.2E+00	7.6E-03	1.0E-03	9.6E-06	1.6E-01	7.9E-02	1.2E-07	1.8E-03	9.1E-03
72	1.2E+00	7.6E-03	1.0E-03	9.4E-06	1.6E-01	7.9E-02	1.2E-07	1.8E-03	9.0E-03
73	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.3E-03
74	5.0E-01	7.6E-03	1.0E-03	4.0E-06	1.6E-01	7.9E-02	5.0E-08	7.6E-04	3.8E-03
75	5.8E-01	7.6E-03	1.0E-03	4.6E-06	1.6E-01	7.9E-02	5.7E-08	8.7E-04	4.4E-03
76	6.7E-01	7.6E-03	1.0E-03	5.3E-06	1.6E-01	7.9E-02	6.6E-08	1.0E-03	5.0E-03
77	7.7E-01	7.6E-03	1.0E-03	6.1E-06	1.6E-01	7.9E-02	7.6E-08	1.2E-03	5.8E-03
78	8.8E-01	7.6E-03	1.0E-03	7.0E-06	1.6E-01	7.9E-02	8.7E-08	1.3E-03	6.7E-03
79	1.0E+00	7.6E-03	1.0E-03	7.9E-06	1.6E-01	7.9E-02	9.9E-08	1.5E-03	7.6E-03
80	1.4E+00	7.6E-03	1.0E-03	1.1E-05	1.6E-01	7.9E-02	1.3E-07	2.1E-03	1.0E-02
81	1.6E+00	7.6E-03	1.0E-03	1.3E-05	1.6E-01	7.9E-02	1.6E-07	2.5E-03	1.2E-02
82	1.7E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.7E-07	2.6E-03	1.3E-02
83	1.7E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.7E-07	2.6E-03	1.3E-02
84	1.7E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.7E-07	2.6E-03	1.3E-02
85	1.7E+00	7.6E-03	1.0E-03	1.3E-05	1.6E-01	7.9E-02	1.6E-07	2.5E-03	1.3E-02
86	4.5E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.4E-03
87	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	7.9E-02	5.2E-08	7.9E-04	4.0E-03
88	6.2E-01	7.6E-03	1.0E-03	4.9E-06	1.6E-01	7.9E-02	6.1E-08	9.4E-04	4.7E-03
89	7.4E-01	7.6E-03	1.0E-03	5.8E-06	1.6E-01	7.9E-02	7.3E-08	1.1E-03	5.6E-03
90	8.8E-01	7.6E-03	1.0E-03	7.0E-06	1.6E-01	7.9E-02	8.7E-08	1.3E-03	6.7E-03
91	1.1E+00	7.6E-03	1.0E-03	8.4E-06	1.6E-01	7.9E-02	1.0E-07	1.6E-03	8.0E-03
92	1.3E+00	7.6E-03	1.0E-03	1.0E-05	1.6E-01	7.9E-02	1.3E-07	1.9E-03	9.6E-03
93	1.5E+00	7.6E-03	1.0E-03	1.2E-05	1.6E-01	7.9E-02	1.5E-07	2.3E-03	1.1E-02
94	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.8E-07	2.7E-03	1.3E-02
95	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	7.9E-02	2.6E-07	4.0E-03	2.0E-02
96	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	7.9E-02	2.4E-07	3.6E-03	1.8E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.5E-08	6.9E-04	3.5E-03
98	5.4E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.3E-08	8.1E-04	4.0E-03
99	6.4E-01	7.6E-03	1.0E-03	5.0E-06	1.6E-01	7.9E-02	6.3E-08	9.6E-04	4.8E-03
100	1.2E+00	7.6E-03	1.0E-03	9.6E-06	1.6E-01	7.9E-02	1.2E-07	1.8E-03	9.2E-03
101	1.5E+00	7.6E-03	1.0E-03	1.2E-05	1.6E-01	7.9E-02	1.5E-07	2.3E-03	1.2E-02
102	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	7.9E-02	2.0E-07	3.0E-03	1.5E-02
103	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	7.9E-02	2.6E-07	4.0E-03	2.0E-02
104	4.5E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.4E-03
105	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.2E-08	8.0E-04	4.0E-03
106	6.4E-01	7.6E-03	1.0E-03	5.1E-06	1.6E-01	7.9E-02	6.3E-08	9.7E-04	4.8E-03
107	2.5E+00	7.6E-03	1.0E-03	2.0E-05	1.6E-01	7.9E-02	2.5E-07	3.8E-03	1.9E-02
108	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	7.9E-02	3.8E-07	5.8E-03	2.9E-02
109	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.2E-08	6.4E-04	3.2E-03
110	5.1E-01	7.6E-03	1.0E-03	4.0E-06	1.6E-01	7.9E-02	5.0E-08	7.7E-04	3.8E-03
111	6.2E-01	7.6E-03	1.0E-03	4.9E-06	1.6E-01	7.9E-02	6.1E-08	9.3E-04	4.7E-03
112	2.8E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	7.9E-02	2.7E-07	4.2E-03	2.1E-02
113	4.7E+00	7.6E-03	1.0E-03	3.7E-05	1.6E-01	7.9E-02	4.6E-07	7.1E-03	3.5E-02
114	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	7.9E-02	4.0E-08	6.1E-04	3.0E-03
115	4.8E-01	7.6E-03	1.0E-03	3.8E-06	1.6E-01	7.9E-02	4.7E-08	7.2E-04	3.6E-03
116	5.8E-01	7.6E-03	1.0E-03	4.6E-06	1.6E-01	7.9E-02	5.7E-08	8.7E-04	4.4E-03
117	7.2E-01	7.6E-03	1.0E-03	5.7E-06	1.6E-01	7.9E-02	7.1E-08	1.1E-03	5.4E-03
118	2.7E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	7.9E-02	2.6E-07	4.0E-03	2.0E-02
119	4.7E+00	7.6E-03	1.0E-03	3.8E-05	1.6E-01	7.9E-02	4.7E-07	7.2E-03	3.6E-02
120	3.7E-01	7.6E-03	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.7E-08	5.7E-04	2.8E-03
121	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.3E-03
122	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.3E-08	8.1E-04	4.0E-03
123	6.6E-01	7.6E-03	1.0E-03	5.2E-06	1.6E-01	7.9E-02	6.5E-08	9.9E-04	5.0E-03
124	2.3E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	7.9E-02	2.3E-07	3.5E-03	1.8E-02
125	4.0E+00	7.6E-03	1.0E-03	3.2E-05	1.6E-01	7.9E-02	4.0E-07	6.1E-03	3.0E-02
126	3.5E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.4E-08	5.3E-04	2.6E-03
127	4.1E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	7.9E-02	4.0E-08	6.2E-04	3.1E-03
128	4.9E-01	7.6E-03	1.0E-03	3.9E-06	1.6E-01	7.9E-02	4.8E-08	7.4E-04	3.7E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	7.6E-03	1.0E-03	4.7E-06	1.6E-01	7.9E-02	5.9E-08	9.0E-04	4.5E-03
130	7.4E-01	7.6E-03	1.0E-03	5.9E-06	1.6E-01	7.9E-02	7.3E-08	1.1E-03	5.6E-03
131	9.7E-01	7.6E-03	1.0E-03	7.6E-06	1.6E-01	7.9E-02	9.5E-08	1.5E-03	7.3E-03
132	1.3E+00	7.6E-03	1.0E-03	1.0E-05	1.6E-01	7.9E-02	1.3E-07	2.0E-03	9.9E-03
133	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.9E-07	2.9E-03	1.4E-02
134	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	2.9E-07	4.5E-03	2.3E-02
135	5.4E+00	7.6E-03	1.0E-03	4.2E-05	1.6E-01	7.9E-02	5.3E-07	8.1E-03	4.1E-02
136	3.2E-01	7.6E-03	1.0E-03	2.6E-06	1.6E-01	7.9E-02	3.2E-08	4.9E-04	2.4E-03
137	3.8E-01	7.6E-03	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.7E-08	5.7E-04	2.9E-03
138	4.5E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.4E-03
139	5.4E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.3E-08	8.1E-04	4.1E-03
140	6.6E-01	7.6E-03	1.0E-03	5.2E-06	1.6E-01	7.9E-02	6.5E-08	1.0E-03	5.0E-03
141	8.4E-01	7.6E-03	1.0E-03	6.7E-06	1.6E-01	7.9E-02	8.3E-08	1.3E-03	6.4E-03
142	1.1E+00	7.6E-03	1.0E-03	8.7E-06	1.6E-01	7.9E-02	1.1E-07	1.7E-03	8.3E-03
143	1.5E+00	7.6E-03	1.0E-03	1.2E-05	1.6E-01	7.9E-02	1.5E-07	2.3E-03	1.1E-02
144	2.1E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	7.9E-02	2.1E-07	3.2E-03	1.6E-02
145	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.6E-03	2.3E-02
146	3.0E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	7.9E-02	3.0E-08	4.6E-04	2.3E-03
147	3.5E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	7.9E-02	3.4E-08	5.2E-04	2.6E-03
148	4.1E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	7.9E-02	4.0E-08	6.1E-04	3.1E-03
149	4.8E-01	7.6E-03	1.0E-03	3.8E-06	1.6E-01	7.9E-02	4.8E-08	7.3E-04	3.7E-03
150	5.9E-01	7.6E-03	1.0E-03	4.6E-06	1.6E-01	7.9E-02	5.8E-08	8.9E-04	4.4E-03
151	7.2E-01	7.6E-03	1.0E-03	5.7E-06	1.6E-01	7.9E-02	7.1E-08	1.1E-03	5.5E-03
152	9.0E-01	7.6E-03	1.0E-03	7.1E-06	1.6E-01	7.9E-02	8.9E-08	1.4E-03	6.8E-03
153	1.2E+00	7.6E-03	1.0E-03	9.2E-06	1.6E-01	7.9E-02	1.1E-07	1.8E-03	8.8E-03
154	1.5E+00	7.6E-03	1.0E-03	1.2E-05	1.6E-01	7.9E-02	1.4E-07	2.2E-03	1.1E-02
155	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.9E-07	2.9E-03	1.4E-02
156	2.8E-01	7.6E-03	1.0E-03	2.2E-06	1.6E-01	7.9E-02	2.8E-08	4.2E-04	2.1E-03
157	3.2E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.2E-08	4.8E-04	2.4E-03
158	3.7E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	7.9E-02	3.7E-08	5.6E-04	2.8E-03
159	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.3E-08	6.6E-04	3.3E-03
160	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	7.9E-02	5.1E-08	7.8E-04	3.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	7.6E-03	1.0E-03	4.9E-06	1.6E-01	7.9E-02	6.1E-08	9.4E-04	4.7E-03
162	7.4E-01	7.6E-03	1.0E-03	5.9E-06	1.6E-01	7.9E-02	7.4E-08	1.1E-03	5.6E-03
163	9.0E-01	7.6E-03	1.0E-03	7.1E-06	1.6E-01	7.9E-02	8.9E-08	1.4E-03	6.8E-03
164	1.1E+00	7.6E-03	1.0E-03	8.4E-06	1.6E-01	7.9E-02	1.1E-07	1.6E-03	8.1E-03
165	1.3E+00	7.6E-03	1.0E-03	1.0E-05	1.6E-01	7.9E-02	1.3E-07	2.0E-03	9.9E-03
166	2.6E-01	7.6E-03	1.0E-03	2.0E-06	1.6E-01	7.9E-02	2.6E-08	3.9E-04	2.0E-03
167	2.9E-01	7.6E-03	1.0E-03	2.3E-06	1.6E-01	7.9E-02	2.9E-08	4.4E-04	2.2E-03
168	3.4E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	7.9E-02	3.3E-08	5.1E-04	2.5E-03
169	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	7.9E-02	3.8E-08	5.9E-04	2.9E-03
170	4.5E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.5E-08	6.8E-04	3.4E-03
171	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.2E-08	8.0E-04	4.0E-03
172	6.1E-01	7.6E-03	1.0E-03	4.8E-06	1.6E-01	7.9E-02	6.0E-08	9.2E-04	4.6E-03
173	7.1E-01	7.6E-03	1.0E-03	5.6E-06	1.6E-01	7.9E-02	7.0E-08	1.1E-03	5.3E-03
174	8.2E-01	7.6E-03	1.0E-03	6.5E-06	1.6E-01	7.9E-02	8.1E-08	1.2E-03	6.2E-03
175	9.5E-01	7.6E-03	1.0E-03	7.5E-06	1.6E-01	7.9E-02	9.4E-08	1.4E-03	7.2E-03
176	2.4E-01	7.6E-03	1.0E-03	1.9E-06	1.6E-01	7.9E-02	2.4E-08	3.6E-04	1.8E-03
177	2.7E-01	7.6E-03	1.0E-03	2.1E-06	1.6E-01	7.9E-02	2.7E-08	4.1E-04	2.0E-03
178	3.0E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	7.9E-02	3.0E-08	4.6E-04	2.3E-03
179	3.5E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	7.9E-02	3.4E-08	5.2E-04	2.6E-03
180	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	7.9E-02	3.9E-08	6.0E-04	3.0E-03
181	4.5E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.5E-08	6.8E-04	3.4E-03
182	5.1E-01	7.6E-03	1.0E-03	4.0E-06	1.6E-01	7.9E-02	5.0E-08	7.7E-04	3.8E-03
183	5.7E-01	7.6E-03	1.0E-03	4.5E-06	1.6E-01	7.9E-02	5.6E-08	8.6E-04	4.3E-03
184	6.4E-01	7.6E-03	1.0E-03	5.1E-06	1.6E-01	7.9E-02	6.3E-08	9.7E-04	4.8E-03
185	7.2E-01	7.6E-03	1.0E-03	5.7E-06	1.6E-01	7.9E-02	7.1E-08	1.1E-03	5.5E-03
186	5.9E-01	7.6E-03	1.0E-03	4.6E-06	1.6E-01	7.9E-02	5.8E-08	8.9E-04	4.4E-03
187	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	7.9E-02	5.2E-08	7.9E-04	4.0E-03
188	4.7E-01	7.6E-03	1.0E-03	3.7E-06	1.6E-01	7.9E-02	4.6E-08	7.0E-04	3.5E-03
189	2.2E-01	7.6E-03	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.2E-08	3.4E-04	1.7E-03
190	2.5E-01	7.6E-03	1.0E-03	1.9E-06	1.6E-01	7.9E-02	2.4E-08	3.7E-04	1.9E-03
191	2.7E-01	7.6E-03	1.0E-03	2.2E-06	1.6E-01	7.9E-02	2.7E-08	4.2E-04	2.1E-03
192	3.1E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	7.9E-02	3.0E-08	4.7E-04	2.3E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	7.9E-02	3.4E-08	5.2E-04	2.6E-03
194	3.8E-01	7.6E-03	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.8E-08	5.8E-04	2.9E-03
195	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.2E-08	6.4E-04	3.2E-03
196	4.7E-01	7.6E-03	1.0E-03	3.7E-06	1.6E-01	7.9E-02	4.6E-08	7.1E-04	3.5E-03
197	5.6E-01	7.6E-03	1.0E-03	4.5E-06	1.6E-01	7.9E-02	5.6E-08	8.5E-04	4.3E-03
198	6.1E-01	7.6E-03	1.0E-03	4.8E-06	1.6E-01	7.9E-02	6.0E-08	9.2E-04	4.6E-03
199	5.7E-01	7.6E-03	1.0E-03	4.5E-06	1.6E-01	7.9E-02	5.7E-08	8.7E-04	4.3E-03
200	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.3E-08	8.1E-04	4.0E-03
201	4.9E-01	7.6E-03	1.0E-03	3.9E-06	1.6E-01	7.9E-02	4.9E-08	7.5E-04	3.7E-03
202	4.5E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.4E-08	6.8E-04	3.4E-03
203	4.1E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	7.9E-02	4.0E-08	6.2E-04	3.1E-03
204	2.0E-01	7.6E-03	1.0E-03	1.6E-06	1.6E-01	7.9E-02	2.0E-08	3.1E-04	1.5E-03
205	2.3E-01	7.6E-03	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.2E-08	3.4E-04	1.7E-03
206	2.5E-01	7.6E-03	1.0E-03	2.0E-06	1.6E-01	7.9E-02	2.5E-08	3.8E-04	1.9E-03
207	2.7E-01	7.6E-03	1.0E-03	2.2E-06	1.6E-01	7.9E-02	2.7E-08	4.2E-04	2.1E-03
208	3.0E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	7.9E-02	3.0E-08	4.6E-04	2.3E-03
209	3.3E-01	7.6E-03	1.0E-03	2.6E-06	1.6E-01	7.9E-02	3.3E-08	5.0E-04	2.5E-03
210	3.6E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	7.9E-02	3.6E-08	5.5E-04	2.7E-03
211	4.2E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.2E-08	6.4E-04	3.2E-03
212	4.5E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.4E-08	6.8E-04	3.4E-03
213	5.0E-01	7.6E-03	1.0E-03	3.9E-06	1.6E-01	7.9E-02	4.9E-08	7.6E-04	3.8E-03
214	5.0E-01	7.6E-03	1.0E-03	3.9E-06	1.6E-01	7.9E-02	4.9E-08	7.5E-04	3.7E-03
215	4.9E-01	7.6E-03	1.0E-03	3.8E-06	1.6E-01	7.9E-02	4.8E-08	7.4E-04	3.7E-03
216	4.7E-01	7.6E-03	1.0E-03	3.7E-06	1.6E-01	7.9E-02	4.6E-08	7.1E-04	3.5E-03
217	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.4E-03
218	4.2E-01	7.6E-03	1.0E-03	3.3E-06	1.6E-01	7.9E-02	4.1E-08	6.3E-04	3.1E-03
219	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	7.9E-02	3.8E-08	5.8E-04	2.9E-03
220	3.5E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.5E-08	5.4E-04	2.7E-03
221	1.9E-01	7.6E-03	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	2.9E-04	1.4E-03
222	2.1E-01	7.6E-03	1.0E-03	1.6E-06	1.6E-01	7.9E-02	2.0E-08	3.1E-04	1.6E-03
223	2.2E-01	7.6E-03	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.2E-08	3.4E-04	1.7E-03
224	2.5E-01	7.6E-03	1.0E-03	1.9E-06	1.6E-01	7.9E-02	2.4E-08	3.7E-04	1.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	7.6E-03	1.0E-03	2.1E-06	1.6E-01	7.9E-02	2.6E-08	4.0E-04	2.0E-03
226	3.1E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.1E-08	4.7E-04	2.4E-03
227	3.3E-01	7.6E-03	1.0E-03	2.6E-06	1.6E-01	7.9E-02	3.3E-08	5.1E-04	2.5E-03
228	3.5E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.5E-08	5.3E-04	2.7E-03
229	3.7E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	7.9E-02	3.7E-08	5.6E-04	2.8E-03
230	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	7.9E-02	4.0E-08	6.1E-04	3.0E-03
231	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	7.9E-02	4.0E-08	6.1E-04	3.0E-03
232	4.0E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	7.9E-02	3.9E-08	6.0E-04	3.0E-03
233	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	7.9E-02	3.8E-08	5.8E-04	2.9E-03
234	3.7E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	7.9E-02	3.7E-08	5.6E-04	2.8E-03
235	3.5E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.5E-08	5.3E-04	2.7E-03
236	3.3E-01	7.6E-03	1.0E-03	2.6E-06	1.6E-01	7.9E-02	3.3E-08	5.0E-04	2.5E-03
237	3.1E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.1E-08	4.7E-04	2.3E-03
238	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.8E-07	2.7E-03	1.4E-02
239	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.8E-07	2.8E-03	1.4E-02
240	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.8E-07	2.8E-03	1.4E-02
241	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.9E-07	2.8E-03	1.4E-02
242	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.9E-07	2.9E-03	1.4E-02
243	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.9E-07	2.9E-03	1.5E-02
244	2.0E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.9E-07	3.0E-03	1.5E-02
245	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	7.9E-02	2.0E-07	3.0E-03	1.5E-02
246	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	7.9E-02	2.0E-07	3.1E-03	1.5E-02
247	2.1E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	7.9E-02	2.0E-07	3.1E-03	1.6E-02
248	2.1E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	7.9E-02	2.1E-07	3.2E-03	1.6E-02
249	2.1E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	7.9E-02	2.1E-07	3.2E-03	1.6E-02
250	2.2E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	7.9E-02	2.1E-07	3.3E-03	1.6E-02
251	2.2E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	7.9E-02	2.2E-07	3.3E-03	1.6E-02
252	2.2E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	7.9E-02	2.2E-07	3.3E-03	1.7E-02
253	2.2E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	7.9E-02	2.2E-07	3.4E-03	1.7E-02
254	2.3E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	7.9E-02	2.2E-07	3.4E-03	1.7E-02
255	2.3E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	7.9E-02	2.3E-07	3.5E-03	1.8E-02
256	2.3E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	7.9E-02	2.3E-07	3.6E-03	1.8E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	7.9E-02	2.3E-07	3.6E-03	1.8E-02
258	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	7.9E-02	2.4E-07	3.6E-03	1.8E-02
259	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	7.9E-02	2.4E-07	3.7E-03	1.8E-02
260	2.5E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	7.9E-02	2.4E-07	3.7E-03	1.9E-02
261	2.5E+00	7.6E-03	1.0E-03	2.0E-05	1.6E-01	7.9E-02	2.5E-07	3.8E-03	1.9E-02
262	2.6E+00	7.6E-03	1.0E-03	2.0E-05	1.6E-01	7.9E-02	2.5E-07	3.9E-03	1.9E-02
263	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	7.9E-02	2.6E-07	3.9E-03	2.0E-02
264	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	7.9E-02	2.6E-07	4.0E-03	2.0E-02
265	2.7E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	7.9E-02	2.6E-07	4.0E-03	2.0E-02
266	2.7E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	7.9E-02	2.7E-07	4.1E-03	2.0E-02
267	2.7E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	7.9E-02	2.7E-07	4.1E-03	2.1E-02
268	2.7E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	7.9E-02	2.7E-07	4.2E-03	2.1E-02
269	2.8E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	7.9E-02	2.7E-07	4.2E-03	2.1E-02
270	2.8E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	7.9E-02	2.7E-07	4.2E-03	2.1E-02
271	2.9E+00	7.6E-03	1.0E-03	2.3E-05	1.6E-01	7.9E-02	2.9E-07	4.4E-03	2.2E-02
272	3.0E+00	7.6E-03	1.0E-03	2.3E-05	1.6E-01	7.9E-02	2.9E-07	4.5E-03	2.2E-02
273	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.5E-03	2.3E-02
274	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.6E-03	2.3E-02
275	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.6E-03	2.3E-02
276	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.6E-03	2.3E-02
277	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.6E-03	2.3E-02
278	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.6E-03	2.3E-02
279	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.6E-03	2.3E-02
280	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.6E-03	2.3E-02
281	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.5E-03	2.3E-02
282	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.3E-07	5.1E-03	2.5E-02
283	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.4E-07	5.1E-03	2.6E-02
284	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.4E-07	5.2E-03	2.6E-02
285	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.4E-07	5.2E-03	2.6E-02
286	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.4E-07	5.2E-03	2.6E-02
287	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.4E-07	5.2E-03	2.6E-02
288	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.4E-07	5.2E-03	2.6E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.3E-07	5.1E-03	2.5E-02
290	3.3E+00	7.6E-03	1.0E-03	2.6E-05	1.6E-01	7.9E-02	3.3E-07	5.0E-03	2.5E-02
291	3.3E+00	7.6E-03	1.0E-03	2.6E-05	1.6E-01	7.9E-02	3.3E-07	5.0E-03	2.5E-02
292	3.3E+00	7.6E-03	1.0E-03	2.6E-05	1.6E-01	7.9E-02	3.2E-07	4.9E-03	2.5E-02
293	3.9E+00	7.6E-03	1.0E-03	3.1E-05	1.6E-01	7.9E-02	3.8E-07	5.9E-03	2.9E-02
294	3.9E+00	7.6E-03	1.0E-03	3.1E-05	1.6E-01	7.9E-02	3.8E-07	5.9E-03	2.9E-02
295	3.9E+00	7.6E-03	1.0E-03	3.1E-05	1.6E-01	7.9E-02	3.8E-07	5.8E-03	2.9E-02
296	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	7.9E-02	3.8E-07	5.8E-03	2.9E-02
297	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	7.9E-02	3.7E-07	5.7E-03	2.8E-02
298	3.7E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	7.9E-02	3.7E-07	5.6E-03	2.8E-02
299	3.7E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	7.9E-02	3.6E-07	5.5E-03	2.8E-02
300	3.6E+00	7.6E-03	1.0E-03	2.8E-05	1.6E-01	7.9E-02	3.6E-07	5.5E-03	2.7E-02
301	3.5E+00	7.6E-03	1.0E-03	2.8E-05	1.6E-01	7.9E-02	3.5E-07	5.4E-03	2.7E-02
302	3.5E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.4E-07	5.2E-03	2.6E-02
303	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.3E-07	5.1E-03	2.6E-02
304	4.4E+00	7.6E-03	1.0E-03	3.5E-05	1.6E-01	7.9E-02	4.3E-07	6.6E-03	3.3E-02
305	4.3E+00	7.6E-03	1.0E-03	3.4E-05	1.6E-01	7.9E-02	4.3E-07	6.5E-03	3.3E-02
306	4.2E+00	7.6E-03	1.0E-03	3.4E-05	1.6E-01	7.9E-02	4.2E-07	6.4E-03	3.2E-02
307	4.2E+00	7.6E-03	1.0E-03	3.3E-05	1.6E-01	7.9E-02	4.1E-07	6.3E-03	3.2E-02
308	4.1E+00	7.6E-03	1.0E-03	3.2E-05	1.6E-01	7.9E-02	4.0E-07	6.2E-03	3.1E-02
309	4.0E+00	7.6E-03	1.0E-03	3.2E-05	1.6E-01	7.9E-02	4.0E-07	6.1E-03	3.0E-02
310	3.9E+00	7.6E-03	1.0E-03	3.1E-05	1.6E-01	7.9E-02	3.9E-07	5.9E-03	3.0E-02
311	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	7.9E-02	3.8E-07	5.8E-03	2.9E-02
312	3.7E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	7.9E-02	3.7E-07	5.6E-03	2.8E-02
313	3.6E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	7.9E-02	3.6E-07	5.5E-03	2.7E-02
314	3.5E+00	7.6E-03	1.0E-03	2.8E-05	1.6E-01	7.9E-02	3.5E-07	5.3E-03	2.7E-02
315	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.4E-07	5.2E-03	2.6E-02
316	4.7E+00	7.6E-03	1.0E-03	3.7E-05	1.6E-01	7.9E-02	4.6E-07	7.1E-03	3.6E-02
317	4.6E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	7.9E-02	4.5E-07	6.9E-03	3.5E-02
318	4.5E+00	7.6E-03	1.0E-03	3.5E-05	1.6E-01	7.9E-02	4.4E-07	6.8E-03	3.4E-02
319	4.4E+00	7.6E-03	1.0E-03	3.4E-05	1.6E-01	7.9E-02	4.3E-07	6.6E-03	3.3E-02
320	4.2E+00	7.6E-03	1.0E-03	3.3E-05	1.6E-01	7.9E-02	4.2E-07	6.4E-03	3.2E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	7.6E-03	1.0E-03	3.2E-05	1.6E-01	7.9E-02	4.1E-07	6.2E-03	3.1E-02
322	4.0E+00	7.6E-03	1.0E-03	3.1E-05	1.6E-01	7.9E-02	3.9E-07	6.0E-03	3.0E-02
323	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	7.9E-02	3.8E-07	5.8E-03	2.9E-02
324	3.7E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	7.9E-02	3.7E-07	5.6E-03	2.8E-02
325	5.0E+00	7.6E-03	1.0E-03	4.0E-05	1.6E-01	7.9E-02	4.9E-07	7.6E-03	3.8E-02
326	4.9E+00	7.6E-03	1.0E-03	3.8E-05	1.6E-01	7.9E-02	4.8E-07	7.3E-03	3.7E-02
327	4.7E+00	7.6E-03	1.0E-03	3.7E-05	1.6E-01	7.9E-02	4.6E-07	7.1E-03	3.5E-02
328	4.5E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	7.9E-02	4.5E-07	6.9E-03	3.4E-02
329	4.4E+00	7.6E-03	1.0E-03	3.5E-05	1.6E-01	7.9E-02	4.3E-07	6.6E-03	3.3E-02
330	4.2E+00	7.6E-03	1.0E-03	3.3E-05	1.6E-01	7.9E-02	4.1E-07	6.4E-03	3.2E-02
331	5.2E+00	7.6E-03	1.0E-03	4.1E-05	1.6E-01	7.9E-02	5.1E-07	7.9E-03	3.9E-02
332	5.0E+00	7.6E-03	1.0E-03	4.0E-05	1.6E-01	7.9E-02	4.9E-07	7.6E-03	3.8E-02
333	4.8E+00	7.6E-03	1.0E-03	3.8E-05	1.6E-01	7.9E-02	4.7E-07	7.3E-03	3.6E-02
334	4.6E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	7.9E-02	4.5E-07	6.9E-03	3.5E-02
335	1.7E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.7E-07	2.6E-03	1.3E-02
336	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.8E-07	2.7E-03	1.3E-02
337	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.8E-07	2.8E-03	1.4E-02
338	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.8E-07	2.8E-03	1.4E-02
339	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.9E-07	2.8E-03	1.4E-02
340	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.9E-07	2.9E-03	1.5E-02
341	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	7.9E-02	2.0E-07	3.0E-03	1.5E-02
342	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	7.9E-02	2.0E-07	3.1E-03	1.5E-02
343	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	7.9E-02	2.0E-07	3.1E-03	1.5E-02
344	2.1E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	7.9E-02	2.1E-07	3.2E-03	1.6E-02
345	2.2E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	7.9E-02	2.1E-07	3.3E-03	1.6E-02
346	2.2E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	7.9E-02	2.2E-07	3.4E-03	1.7E-02
347	2.2E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	7.9E-02	2.2E-07	3.4E-03	1.7E-02
348	2.3E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	7.9E-02	2.3E-07	3.5E-03	1.7E-02
349	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	7.9E-02	2.4E-07	3.6E-03	1.8E-02
350	2.5E+00	7.6E-03	1.0E-03	2.0E-05	1.6E-01	7.9E-02	2.4E-07	3.8E-03	1.9E-02
351	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	7.9E-02	2.4E-07	3.7E-03	1.8E-02
352	2.5E+00	7.6E-03	1.0E-03	2.0E-05	1.6E-01	7.9E-02	2.5E-07	3.8E-03	1.9E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	7.9E-02	2.6E-07	4.0E-03	2.0E-02
354	2.7E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	7.9E-02	2.7E-07	4.1E-03	2.1E-02
355	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	7.9E-02	2.6E-07	4.0E-03	2.0E-02
356	2.8E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	7.9E-02	2.7E-07	4.2E-03	2.1E-02
357	2.9E+00	7.6E-03	1.0E-03	2.3E-05	1.6E-01	7.9E-02	2.9E-07	4.4E-03	2.2E-02
358	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.6E-03	2.3E-02
359	2.9E+00	7.6E-03	1.0E-03	2.3E-05	1.6E-01	7.9E-02	2.9E-07	4.4E-03	2.2E-02
360	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	7.9E-02	3.0E-07	4.6E-03	2.3E-02
361	3.2E+00	7.6E-03	1.0E-03	2.5E-05	1.6E-01	7.9E-02	3.2E-07	4.9E-03	2.4E-02
362	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.3E-07	5.1E-03	2.6E-02
363	3.2E+00	7.6E-03	1.0E-03	2.5E-05	1.6E-01	7.9E-02	3.2E-07	4.8E-03	2.4E-02
364	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	7.9E-02	3.3E-07	5.1E-03	2.6E-02
365	3.6E+00	7.6E-03	1.0E-03	2.8E-05	1.6E-01	7.9E-02	3.6E-07	5.4E-03	2.7E-02
366	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	7.9E-02	3.8E-07	5.8E-03	2.9E-02
367	3.5E+00	7.6E-03	1.0E-03	2.8E-05	1.6E-01	7.9E-02	3.5E-07	5.3E-03	2.6E-02
368	3.7E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	7.9E-02	3.7E-07	5.7E-03	2.8E-02
369	4.0E+00	7.6E-03	1.0E-03	3.2E-05	1.6E-01	7.9E-02	4.0E-07	6.1E-03	3.0E-02
370	4.3E+00	7.6E-03	1.0E-03	3.4E-05	1.6E-01	7.9E-02	4.2E-07	6.5E-03	3.2E-02
371	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	7.9E-02	3.8E-07	5.8E-03	2.9E-02
372	4.1E+00	7.6E-03	1.0E-03	3.3E-05	1.6E-01	7.9E-02	4.1E-07	6.3E-03	3.1E-02
373	4.5E+00	7.6E-03	1.0E-03	3.5E-05	1.6E-01	7.9E-02	4.4E-07	6.8E-03	3.4E-02
374	4.8E+00	7.6E-03	1.0E-03	3.8E-05	1.6E-01	7.9E-02	4.8E-07	7.3E-03	3.7E-02
375	4.2E+00	7.6E-03	1.0E-03	3.3E-05	1.6E-01	7.9E-02	4.1E-07	6.3E-03	3.2E-02
376	4.6E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	7.9E-02	4.5E-07	6.9E-03	3.5E-02
377	5.0E+00	7.6E-03	1.0E-03	4.0E-05	1.6E-01	7.9E-02	4.9E-07	7.6E-03	3.8E-02
378	5.5E+00	7.6E-03	1.0E-03	4.3E-05	1.6E-01	7.9E-02	5.4E-07	8.3E-03	4.1E-02
379	4.5E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	7.9E-02	4.5E-07	6.9E-03	3.4E-02
380	5.0E+00	7.6E-03	1.0E-03	4.0E-05	1.6E-01	7.9E-02	5.0E-07	7.6E-03	3.8E-02
381	5.6E+00	7.6E-03	1.0E-03	4.4E-05	1.6E-01	7.9E-02	5.5E-07	8.4E-03	4.2E-02
382	6.2E+00	7.6E-03	1.0E-03	4.9E-05	1.6E-01	7.9E-02	6.1E-07	9.4E-03	4.7E-02
383	4.9E+00	7.6E-03	1.0E-03	3.9E-05	1.6E-01	7.9E-02	4.8E-07	7.4E-03	3.7E-02
384	5.5E+00	7.6E-03	1.0E-03	4.3E-05	1.6E-01	7.9E-02	5.4E-07	8.3E-03	4.1E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	7.6E-03	1.0E-03	4.9E-05	1.6E-01	7.9E-02	6.1E-07	9.3E-03	4.6E-02
386	6.9E+00	7.6E-03	1.0E-03	5.5E-05	1.6E-01	7.9E-02	6.8E-07	1.0E-02	5.2E-02
387	5.2E+00	7.6E-03	1.0E-03	4.1E-05	1.6E-01	7.9E-02	5.2E-07	7.9E-03	4.0E-02
388	5.9E+00	7.6E-03	1.0E-03	4.7E-05	1.6E-01	7.9E-02	5.8E-07	8.9E-03	4.5E-02
389	6.7E+00	7.6E-03	1.0E-03	5.3E-05	1.6E-01	7.9E-02	6.6E-07	1.0E-02	5.1E-02
390	7.7E+00	7.6E-03	1.0E-03	6.1E-05	1.6E-01	7.9E-02	7.6E-07	1.2E-02	5.8E-02
391	5.6E+00	7.6E-03	1.0E-03	4.4E-05	1.6E-01	7.9E-02	5.5E-07	8.4E-03	4.2E-02
392	6.3E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	7.9E-02	6.2E-07	9.6E-03	4.8E-02
393	7.2E+00	7.6E-03	1.0E-03	5.7E-05	1.6E-01	7.9E-02	7.1E-07	1.1E-02	5.5E-02
394	8.4E+00	7.6E-03	1.0E-03	6.6E-05	1.6E-01	7.9E-02	8.3E-07	1.3E-02	6.4E-02
395	5.8E+00	7.6E-03	1.0E-03	4.6E-05	1.6E-01	7.9E-02	5.7E-07	8.8E-03	4.4E-02
396	6.7E+00	7.6E-03	1.0E-03	5.3E-05	1.6E-01	7.9E-02	6.6E-07	1.0E-02	5.0E-02
397	7.7E+00	7.6E-03	1.0E-03	6.1E-05	1.6E-01	7.9E-02	7.6E-07	1.2E-02	5.8E-02
398	9.1E+00	7.6E-03	1.0E-03	7.2E-05	1.6E-01	7.9E-02	8.9E-07	1.4E-02	6.8E-02
399	6.0E+00	7.6E-03	1.0E-03	4.8E-05	1.6E-01	7.9E-02	6.0E-07	9.1E-03	4.6E-02
400	7.0E+00	7.6E-03	1.0E-03	5.5E-05	1.6E-01	7.9E-02	6.9E-07	1.1E-02	5.3E-02
401	8.1E+00	7.6E-03	1.0E-03	6.4E-05	1.6E-01	7.9E-02	8.0E-07	1.2E-02	6.1E-02
402	9.6E+00	7.6E-03	1.0E-03	7.6E-05	1.6E-01	7.9E-02	9.5E-07	1.5E-02	7.3E-02
403	6.2E+00	7.6E-03	1.0E-03	4.9E-05	1.6E-01	7.9E-02	6.1E-07	9.4E-03	4.7E-02
404	7.2E+00	7.6E-03	1.0E-03	5.7E-05	1.6E-01	7.9E-02	7.1E-07	1.1E-02	5.4E-02
405	8.4E+00	7.6E-03	1.0E-03	6.7E-05	1.6E-01	7.9E-02	8.3E-07	1.3E-02	6.4E-02
406	1.0E+01	7.6E-03	1.0E-03	7.9E-05	1.6E-01	7.9E-02	9.9E-07	1.5E-02	7.6E-02
407	6.3E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	7.9E-02	6.2E-07	9.6E-03	4.8E-02
408	7.4E+00	7.6E-03	1.0E-03	5.8E-05	1.6E-01	7.9E-02	7.3E-07	1.1E-02	5.6E-02
409	8.7E+00	7.6E-03	1.0E-03	6.9E-05	1.6E-01	7.9E-02	8.6E-07	1.3E-02	6.6E-02
410	1.0E+01	7.6E-03	1.0E-03	8.2E-05	1.6E-01	7.9E-02	1.0E-06	1.6E-02	7.9E-02
411	6.4E+00	7.6E-03	1.0E-03	5.1E-05	1.6E-01	7.9E-02	6.3E-07	9.7E-03	4.8E-02
412	7.5E+00	7.6E-03	1.0E-03	5.9E-05	1.6E-01	7.9E-02	7.4E-07	1.1E-02	5.7E-02
413	8.8E+00	7.6E-03	1.0E-03	7.0E-05	1.6E-01	7.9E-02	8.7E-07	1.3E-02	6.7E-02
414	1.1E+01	7.6E-03	1.0E-03	8.4E-05	1.6E-01	7.9E-02	1.0E-06	1.6E-02	8.0E-02
415	6.4E+00	7.6E-03	1.0E-03	5.1E-05	1.6E-01	7.9E-02	6.3E-07	9.7E-03	4.8E-02
416	7.5E+00	7.6E-03	1.0E-03	5.9E-05	1.6E-01	7.9E-02	7.4E-07	1.1E-02	5.7E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	7.6E-03	1.0E-03	7.0E-05	1.6E-01	7.9E-02	8.8E-07	1.3E-02	6.7E-02
418	1.1E+01	7.6E-03	1.0E-03	8.5E-05	1.6E-01	7.9E-02	1.1E-06	1.6E-02	8.1E-02
419	6.4E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	7.9E-02	6.3E-07	9.6E-03	4.8E-02
420	7.5E+00	7.6E-03	1.0E-03	5.9E-05	1.6E-01	7.9E-02	7.4E-07	1.1E-02	5.7E-02
421	8.9E+00	7.6E-03	1.0E-03	7.0E-05	1.6E-01	7.9E-02	8.8E-07	1.3E-02	6.7E-02
422	1.1E+01	7.6E-03	1.0E-03	8.5E-05	1.6E-01	7.9E-02	1.1E-06	1.6E-02	8.1E-02
423	6.3E+00	7.6E-03	1.0E-03	4.9E-05	1.6E-01	7.9E-02	6.2E-07	9.5E-03	4.7E-02
424	7.4E+00	7.6E-03	1.0E-03	5.8E-05	1.6E-01	7.9E-02	7.3E-07	1.1E-02	5.6E-02
425	8.8E+00	7.6E-03	1.0E-03	6.9E-05	1.6E-01	7.9E-02	8.6E-07	1.3E-02	6.6E-02
426	1.1E+01	7.6E-03	1.0E-03	8.4E-05	1.6E-01	7.9E-02	1.0E-06	1.6E-02	8.0E-02
427	6.1E+00	7.6E-03	1.0E-03	4.8E-05	1.6E-01	7.9E-02	6.0E-07	9.2E-03	4.6E-02
428	7.2E+00	7.6E-03	1.0E-03	5.7E-05	1.6E-01	7.9E-02	7.1E-07	1.1E-02	5.4E-02
429	8.6E+00	7.6E-03	1.0E-03	6.8E-05	1.6E-01	7.9E-02	8.4E-07	1.3E-02	6.5E-02
430	1.0E+01	7.6E-03	1.0E-03	8.2E-05	1.6E-01	7.9E-02	1.0E-06	1.6E-02	7.9E-02
431	5.9E+00	7.6E-03	1.0E-03	4.7E-05	1.6E-01	7.9E-02	5.8E-07	8.9E-03	4.5E-02
432	6.9E+00	7.6E-03	1.0E-03	5.5E-05	1.6E-01	7.9E-02	6.8E-07	1.0E-02	5.2E-02
433	8.3E+00	7.6E-03	1.0E-03	6.5E-05	1.6E-01	7.9E-02	8.2E-07	1.2E-02	6.2E-02
434	1.0E+01	7.6E-03	1.0E-03	7.9E-05	1.6E-01	7.9E-02	9.9E-07	1.5E-02	7.6E-02
435	5.6E+00	7.6E-03	1.0E-03	4.5E-05	1.6E-01	7.9E-02	5.6E-07	8.5E-03	4.3E-02
436	6.6E+00	7.6E-03	1.0E-03	5.2E-05	1.6E-01	7.9E-02	6.5E-07	1.0E-02	5.0E-02
437	7.9E+00	7.6E-03	1.0E-03	6.2E-05	1.6E-01	7.9E-02	7.8E-07	1.2E-02	6.0E-02
438	9.6E+00	7.6E-03	1.0E-03	7.6E-05	1.6E-01	7.9E-02	9.5E-07	1.4E-02	7.2E-02
439	5.4E+00	7.6E-03	1.0E-03	4.2E-05	1.6E-01	7.9E-02	5.3E-07	8.1E-03	4.0E-02
440	6.3E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	7.9E-02	6.2E-07	9.5E-03	4.7E-02
441	7.4E+00	7.6E-03	1.0E-03	5.9E-05	1.6E-01	7.9E-02	7.3E-07	1.1E-02	5.6E-02
442	9.0E+00	7.6E-03	1.0E-03	7.1E-05	1.6E-01	7.9E-02	8.9E-07	1.4E-02	6.8E-02
443	5.0E+00	7.6E-03	1.0E-03	4.0E-05	1.6E-01	7.9E-02	5.0E-07	7.6E-03	3.8E-02
444	5.9E+00	7.6E-03	1.0E-03	4.6E-05	1.6E-01	7.9E-02	5.8E-07	8.9E-03	4.4E-02
445	6.9E+00	7.6E-03	1.0E-03	5.5E-05	1.6E-01	7.9E-02	6.8E-07	1.0E-02	5.2E-02
446	8.3E+00	7.6E-03	1.0E-03	6.6E-05	1.6E-01	7.9E-02	8.2E-07	1.3E-02	6.3E-02
447	4.7E+00	7.6E-03	1.0E-03	3.7E-05	1.6E-01	7.9E-02	4.6E-07	7.1E-03	3.6E-02
448	5.4E+00	7.6E-03	1.0E-03	4.3E-05	1.6E-01	7.9E-02	5.4E-07	8.2E-03	4.1E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	7.9E-02	6.3E-07	9.6E-03	4.8E-02
450	7.6E+00	7.6E-03	1.0E-03	6.0E-05	1.6E-01	7.9E-02	7.5E-07	1.1E-02	5.7E-02
451	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.3E-03
452	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.3E-03
453	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.4E-03
454	4.5E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.4E-03
455	5.4E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	7.9E-02	5.3E-08	8.1E-04	4.1E-03
456	5.4E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	7.9E-02	5.3E-08	8.2E-04	4.1E-03
457	5.5E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	7.9E-02	5.4E-08	8.3E-04	4.1E-03
458	5.4E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	7.9E-02	5.4E-08	8.2E-04	4.1E-03
459	6.8E-01	7.6E-03	1.0E-03	5.4E-06	1.6E-01	7.9E-02	6.7E-08	1.0E-03	5.2E-03
460	6.8E-01	7.6E-03	1.0E-03	5.4E-06	1.6E-01	7.9E-02	6.8E-08	1.0E-03	5.2E-03
461	6.8E-01	7.6E-03	1.0E-03	5.4E-06	1.6E-01	7.9E-02	6.7E-08	1.0E-03	5.2E-03
462	7.8E-01	7.6E-03	1.0E-03	6.2E-06	1.6E-01	7.9E-02	7.7E-08	1.2E-03	5.9E-03
463	9.7E-01	7.6E-03	1.0E-03	7.6E-06	1.6E-01	7.9E-02	9.5E-08	1.5E-03	7.3E-03
464	7.9E-01	7.6E-03	1.0E-03	6.3E-06	1.6E-01	7.9E-02	7.8E-08	1.2E-03	6.0E-03
465	1.0E+00	7.6E-03	1.0E-03	7.9E-06	1.6E-01	7.9E-02	9.9E-08	1.5E-03	7.6E-03
466	1.3E+00	7.6E-03	1.0E-03	1.0E-05	1.6E-01	7.9E-02	1.3E-07	2.0E-03	9.9E-03
467	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.7E-07	2.7E-03	1.3E-02
468	7.7E-01	7.6E-03	1.0E-03	6.1E-06	1.6E-01	7.9E-02	7.6E-08	1.2E-03	5.8E-03
469	9.8E-01	7.6E-03	1.0E-03	7.8E-06	1.6E-01	7.9E-02	9.7E-08	1.5E-03	7.4E-03
470	1.3E+00	7.6E-03	1.0E-03	1.0E-05	1.6E-01	7.9E-02	1.3E-07	2.0E-03	9.9E-03
471	1.8E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	7.9E-02	1.8E-07	2.8E-03	1.4E-02
472	9.2E-01	7.6E-03	1.0E-03	7.3E-06	1.6E-01	7.9E-02	9.1E-08	1.4E-03	7.0E-03
473	1.2E+00	7.6E-03	1.0E-03	9.7E-06	1.6E-01	7.9E-02	1.2E-07	1.9E-03	9.3E-03
474	1.7E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	7.9E-02	1.7E-07	2.6E-03	1.3E-02
475	8.3E-01	7.6E-03	1.0E-03	6.6E-06	1.6E-01	7.9E-02	8.2E-08	1.3E-03	6.3E-03
476	1.1E+00	7.6E-03	1.0E-03	8.7E-06	1.6E-01	7.9E-02	1.1E-07	1.7E-03	8.3E-03
477	1.5E+00	7.6E-03	1.0E-03	1.2E-05	1.6E-01	7.9E-02	1.5E-07	2.3E-03	1.2E-02

5. Risk by Construction Phase

e. Risk From Foundation - Unmitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	3.1E-03	1.0E-03	9.4E-07	1.6E-01	1.3E-01	1.9E-08	1.8E-04	9.0E-04
2	3.0E-01	3.1E-03	1.0E-03	9.8E-07	1.6E-01	1.3E-01	2.0E-08	1.9E-04	9.4E-04
3	3.1E-01	3.1E-03	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.1E-08	1.9E-04	9.7E-04
4	3.2E-01	3.1E-03	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.2E-08	2.0E-04	1.0E-03
5	3.3E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.2E-08	2.1E-04	1.0E-03
6	3.4E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.1E-04	1.1E-03
7	3.5E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.2E-04	1.1E-03
8	3.6E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.4E-08	2.2E-04	1.1E-03
9	3.7E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.5E-08	2.3E-04	1.2E-03
10	3.8E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.4E-04	1.2E-03
11	4.0E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.7E-08	2.5E-04	1.3E-03
12	4.1E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
13	4.3E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.9E-08	2.7E-04	1.3E-03
14	4.3E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.9E-08	2.7E-04	1.4E-03
15	4.3E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.9E-08	2.7E-04	1.4E-03
16	4.2E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.9E-08	2.6E-04	1.3E-03
17	3.2E-01	3.1E-03	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.2E-08	2.0E-04	1.0E-03
18	3.4E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.1E-04	1.1E-03
19	3.6E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.4E-08	2.2E-04	1.1E-03
20	3.7E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.5E-08	2.3E-04	1.2E-03
21	3.9E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.4E-04	1.2E-03
22	4.0E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.7E-08	2.5E-04	1.3E-03
23	5.2E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.5E-08	3.3E-04	1.6E-03
24	5.3E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.6E-08	3.4E-04	1.7E-03
25	5.3E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.6E-08	3.3E-04	1.7E-03
26	5.2E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.5E-08	3.2E-04	1.6E-03
27	5.0E-01	3.1E-03	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.4E-08	3.1E-04	1.6E-03
28	3.5E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.4E-08	2.2E-04	1.1E-03
29	4.1E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
30	4.3E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.9E-08	2.7E-04	1.4E-03
31	4.6E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.1E-08	2.9E-04	1.4E-03
32	4.8E-01	3.1E-03	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.3E-08	3.1E-04	1.5E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.4E-08	3.2E-04	1.6E-03
34	5.2E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.5E-08	3.3E-04	1.6E-03
35	5.5E-01	3.1E-03	1.0E-03	1.8E-06	1.6E-01	1.3E-01	3.7E-08	3.4E-04	1.7E-03
36	5.7E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	3.9E-08	3.6E-04	1.8E-03
37	6.3E-01	3.1E-03	1.0E-03	2.1E-06	1.6E-01	1.3E-01	4.3E-08	4.0E-04	2.0E-03
38	6.6E-01	3.1E-03	1.0E-03	2.2E-06	1.6E-01	1.3E-01	4.5E-08	4.1E-04	2.1E-03
39	6.7E-01	3.1E-03	1.0E-03	2.2E-06	1.6E-01	1.3E-01	4.6E-08	4.2E-04	2.1E-03
40	6.5E-01	3.1E-03	1.0E-03	2.1E-06	1.6E-01	1.3E-01	4.4E-08	4.1E-04	2.0E-03
41	6.2E-01	3.1E-03	1.0E-03	2.0E-06	1.6E-01	1.3E-01	4.2E-08	3.9E-04	2.0E-03
42	5.9E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	4.0E-08	3.7E-04	1.9E-03
43	3.9E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.4E-04	1.2E-03
44	4.3E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.9E-08	2.7E-04	1.3E-03
45	4.7E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.2E-08	2.9E-04	1.5E-03
46	5.5E-01	3.1E-03	1.0E-03	1.8E-06	1.6E-01	1.3E-01	3.7E-08	3.5E-04	1.7E-03
47	5.9E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	4.0E-08	3.7E-04	1.9E-03
48	6.2E-01	3.1E-03	1.0E-03	2.0E-06	1.6E-01	1.3E-01	4.2E-08	3.9E-04	2.0E-03
49	6.5E-01	3.1E-03	1.0E-03	2.1E-06	1.6E-01	1.3E-01	4.4E-08	4.1E-04	2.1E-03
50	6.9E-01	3.1E-03	1.0E-03	2.3E-06	1.6E-01	1.3E-01	4.7E-08	4.4E-04	2.2E-03
51	7.3E-01	3.1E-03	1.0E-03	2.4E-06	1.6E-01	1.3E-01	5.0E-08	4.6E-04	2.3E-03
52	8.2E-01	3.1E-03	1.0E-03	2.7E-06	1.6E-01	1.3E-01	5.6E-08	5.2E-04	2.6E-03
53	8.6E-01	3.1E-03	1.0E-03	2.8E-06	1.6E-01	1.3E-01	5.8E-08	5.4E-04	2.7E-03
54	8.8E-01	3.1E-03	1.0E-03	2.9E-06	1.6E-01	1.3E-01	6.0E-08	5.5E-04	2.8E-03
55	8.9E-01	3.1E-03	1.0E-03	2.9E-06	1.6E-01	1.3E-01	6.0E-08	5.6E-04	2.8E-03
56	8.9E-01	3.1E-03	1.0E-03	2.9E-06	1.6E-01	1.3E-01	6.0E-08	5.6E-04	2.8E-03
57	8.1E-01	3.1E-03	1.0E-03	2.6E-06	1.6E-01	1.3E-01	5.5E-08	5.1E-04	2.5E-03
58	7.6E-01	3.1E-03	1.0E-03	2.5E-06	1.6E-01	1.3E-01	5.1E-08	4.8E-04	2.4E-03
59	7.0E-01	3.1E-03	1.0E-03	2.3E-06	1.6E-01	1.3E-01	4.8E-08	4.4E-04	2.2E-03
60	4.2E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
61	4.7E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.2E-08	3.0E-04	1.5E-03
62	5.3E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.6E-08	3.3E-04	1.7E-03
63	5.9E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	4.0E-08	3.7E-04	1.9E-03
64	6.6E-01	3.1E-03	1.0E-03	2.2E-06	1.6E-01	1.3E-01	4.4E-08	4.1E-04	2.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	3.1E-03	1.0E-03	2.8E-06	1.6E-01	1.3E-01	5.7E-08	5.3E-04	2.6E-03
66	9.1E-01	3.1E-03	1.0E-03	3.0E-06	1.6E-01	1.3E-01	6.2E-08	5.7E-04	2.9E-03
67	9.7E-01	3.1E-03	1.0E-03	3.2E-06	1.6E-01	1.3E-01	6.6E-08	6.1E-04	3.1E-03
68	1.1E+00	3.1E-03	1.0E-03	3.7E-06	1.6E-01	1.3E-01	7.6E-08	7.0E-04	3.5E-03
69	1.2E+00	3.1E-03	1.0E-03	3.8E-06	1.6E-01	1.3E-01	8.0E-08	7.4E-04	3.7E-03
70	1.2E+00	3.1E-03	1.0E-03	4.0E-06	1.6E-01	1.3E-01	8.2E-08	7.6E-04	3.8E-03
71	1.2E+00	3.1E-03	1.0E-03	4.0E-06	1.6E-01	1.3E-01	8.2E-08	7.6E-04	3.8E-03
72	1.2E+00	3.1E-03	1.0E-03	3.9E-06	1.6E-01	1.3E-01	8.1E-08	7.5E-04	3.8E-03
73	4.4E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
74	5.0E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.4E-08	3.2E-04	1.6E-03
75	5.8E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	3.9E-08	3.6E-04	1.8E-03
76	6.7E-01	3.1E-03	1.0E-03	2.2E-06	1.6E-01	1.3E-01	4.5E-08	4.2E-04	2.1E-03
77	7.7E-01	3.1E-03	1.0E-03	2.5E-06	1.6E-01	1.3E-01	5.2E-08	4.9E-04	2.4E-03
78	8.8E-01	3.1E-03	1.0E-03	2.9E-06	1.6E-01	1.3E-01	6.0E-08	5.5E-04	2.8E-03
79	1.0E+00	3.1E-03	1.0E-03	3.3E-06	1.6E-01	1.3E-01	6.8E-08	6.3E-04	3.2E-03
80	1.4E+00	3.1E-03	1.0E-03	4.5E-06	1.6E-01	1.3E-01	9.2E-08	8.6E-04	4.3E-03
81	1.6E+00	3.1E-03	1.0E-03	5.3E-06	1.6E-01	1.3E-01	1.1E-07	1.0E-03	5.1E-03
82	1.7E+00	3.1E-03	1.0E-03	5.6E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.4E-03
83	1.7E+00	3.1E-03	1.0E-03	5.7E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.5E-03
84	1.7E+00	3.1E-03	1.0E-03	5.7E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.4E-03
85	1.7E+00	3.1E-03	1.0E-03	5.5E-06	1.6E-01	1.3E-01	1.1E-07	1.0E-03	5.2E-03
86	4.5E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
87	5.2E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.6E-08	3.3E-04	1.7E-03
88	6.2E-01	3.1E-03	1.0E-03	2.0E-06	1.6E-01	1.3E-01	4.2E-08	3.9E-04	2.0E-03
89	7.4E-01	3.1E-03	1.0E-03	2.4E-06	1.6E-01	1.3E-01	5.0E-08	4.6E-04	2.3E-03
90	8.8E-01	3.1E-03	1.0E-03	2.9E-06	1.6E-01	1.3E-01	6.0E-08	5.5E-04	2.8E-03
91	1.1E+00	3.1E-03	1.0E-03	3.5E-06	1.6E-01	1.3E-01	7.2E-08	6.7E-04	3.3E-03
92	1.3E+00	3.1E-03	1.0E-03	4.2E-06	1.6E-01	1.3E-01	8.6E-08	8.0E-04	4.0E-03
93	1.5E+00	3.1E-03	1.0E-03	5.0E-06	1.6E-01	1.3E-01	1.0E-07	9.5E-04	4.7E-03
94	1.8E+00	3.1E-03	1.0E-03	5.8E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.6E-03
95	2.6E+00	3.1E-03	1.0E-03	8.6E-06	1.6E-01	1.3E-01	1.8E-07	1.7E-03	8.3E-03
96	2.4E+00	3.1E-03	1.0E-03	7.9E-06	1.6E-01	1.3E-01	1.6E-07	1.5E-03	7.6E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.1E-08	2.9E-04	1.4E-03
98	5.4E-01	3.1E-03	1.0E-03	1.8E-06	1.6E-01	1.3E-01	3.6E-08	3.4E-04	1.7E-03
99	6.4E-01	3.1E-03	1.0E-03	2.1E-06	1.6E-01	1.3E-01	4.3E-08	4.0E-04	2.0E-03
100	1.2E+00	3.1E-03	1.0E-03	4.0E-06	1.6E-01	1.3E-01	8.3E-08	7.6E-04	3.8E-03
101	1.5E+00	3.1E-03	1.0E-03	5.1E-06	1.6E-01	1.3E-01	1.1E-07	9.7E-04	4.9E-03
102	2.0E+00	3.1E-03	1.0E-03	6.6E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.3E-03
103	2.6E+00	3.1E-03	1.0E-03	8.7E-06	1.6E-01	1.3E-01	1.8E-07	1.7E-03	8.3E-03
104	4.5E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
105	5.3E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.6E-08	3.3E-04	1.7E-03
106	6.4E-01	3.1E-03	1.0E-03	2.1E-06	1.6E-01	1.3E-01	4.3E-08	4.0E-04	2.0E-03
107	2.5E+00	3.1E-03	1.0E-03	8.2E-06	1.6E-01	1.3E-01	1.7E-07	1.6E-03	7.8E-03
108	3.8E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.6E-07	2.4E-03	1.2E-02
109	4.3E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.9E-08	2.7E-04	1.3E-03
110	5.1E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.4E-08	3.2E-04	1.6E-03
111	6.2E-01	3.1E-03	1.0E-03	2.0E-06	1.6E-01	1.3E-01	4.2E-08	3.9E-04	1.9E-03
112	2.8E+00	3.1E-03	1.0E-03	9.1E-06	1.6E-01	1.3E-01	1.9E-07	1.7E-03	8.7E-03
113	4.7E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.2E-07	2.9E-03	1.5E-02
114	4.0E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.7E-08	2.5E-04	1.3E-03
115	4.8E-01	3.1E-03	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.2E-08	3.0E-04	1.5E-03
116	5.8E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	3.9E-08	3.6E-04	1.8E-03
117	7.2E-01	3.1E-03	1.0E-03	2.4E-06	1.6E-01	1.3E-01	4.9E-08	4.5E-04	2.3E-03
118	2.7E+00	3.1E-03	1.0E-03	8.8E-06	1.6E-01	1.3E-01	1.8E-07	1.7E-03	8.4E-03
119	4.7E+00	3.1E-03	1.0E-03	1.6E-05	1.6E-01	1.3E-01	3.2E-07	3.0E-03	1.5E-02
120	3.7E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.5E-08	2.4E-04	1.2E-03
121	4.4E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
122	5.3E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.6E-08	3.4E-04	1.7E-03
123	6.6E-01	3.1E-03	1.0E-03	2.2E-06	1.6E-01	1.3E-01	4.4E-08	4.1E-04	2.1E-03
124	2.3E+00	3.1E-03	1.0E-03	7.6E-06	1.6E-01	1.3E-01	1.6E-07	1.5E-03	7.3E-03
125	4.0E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.7E-07	2.5E-03	1.3E-02
126	3.5E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.4E-08	2.2E-04	1.1E-03
127	4.1E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
128	4.9E-01	3.1E-03	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.3E-08	3.1E-04	1.5E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	3.1E-03	1.0E-03	2.0E-06	1.6E-01	1.3E-01	4.0E-08	3.7E-04	1.9E-03
130	7.4E-01	3.1E-03	1.0E-03	2.4E-06	1.6E-01	1.3E-01	5.0E-08	4.7E-04	2.3E-03
131	9.7E-01	3.1E-03	1.0E-03	3.2E-06	1.6E-01	1.3E-01	6.6E-08	6.1E-04	3.0E-03
132	1.3E+00	3.1E-03	1.0E-03	4.3E-06	1.6E-01	1.3E-01	8.9E-08	8.2E-04	4.1E-03
133	1.9E+00	3.1E-03	1.0E-03	6.2E-06	1.6E-01	1.3E-01	1.3E-07	1.2E-03	6.0E-03
134	3.0E+00	3.1E-03	1.0E-03	9.8E-06	1.6E-01	1.3E-01	2.0E-07	1.9E-03	9.4E-03
135	5.4E+00	3.1E-03	1.0E-03	1.8E-05	1.6E-01	1.3E-01	3.6E-07	3.4E-03	1.7E-02
136	3.2E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.2E-08	2.0E-04	1.0E-03
137	3.8E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.6E-08	2.4E-04	1.2E-03
138	4.5E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
139	5.4E-01	3.1E-03	1.0E-03	1.8E-06	1.6E-01	1.3E-01	3.6E-08	3.4E-04	1.7E-03
140	6.6E-01	3.1E-03	1.0E-03	2.2E-06	1.6E-01	1.3E-01	4.5E-08	4.2E-04	2.1E-03
141	8.4E-01	3.1E-03	1.0E-03	2.8E-06	1.6E-01	1.3E-01	5.7E-08	5.3E-04	2.7E-03
142	1.1E+00	3.1E-03	1.0E-03	3.6E-06	1.6E-01	1.3E-01	7.5E-08	6.9E-04	3.5E-03
143	1.5E+00	3.1E-03	1.0E-03	4.9E-06	1.6E-01	1.3E-01	1.0E-07	9.5E-04	4.7E-03
144	2.1E+00	3.1E-03	1.0E-03	6.9E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.6E-03
145	3.1E+00	3.1E-03	1.0E-03	1.0E-05	1.6E-01	1.3E-01	2.1E-07	1.9E-03	9.6E-03
146	3.0E-01	3.1E-03	1.0E-03	9.9E-07	1.6E-01	1.3E-01	2.0E-08	1.9E-04	9.5E-04
147	3.5E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.4E-08	2.2E-04	1.1E-03
148	4.1E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
149	4.8E-01	3.1E-03	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.3E-08	3.0E-04	1.5E-03
150	5.9E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	4.0E-08	3.7E-04	1.8E-03
151	7.2E-01	3.1E-03	1.0E-03	2.4E-06	1.6E-01	1.3E-01	4.9E-08	4.6E-04	2.3E-03
152	9.0E-01	3.1E-03	1.0E-03	2.9E-06	1.6E-01	1.3E-01	6.1E-08	5.6E-04	2.8E-03
153	1.2E+00	3.1E-03	1.0E-03	3.8E-06	1.6E-01	1.3E-01	7.9E-08	7.3E-04	3.6E-03
154	1.5E+00	3.1E-03	1.0E-03	4.8E-06	1.6E-01	1.3E-01	9.9E-08	9.2E-04	4.6E-03
155	1.9E+00	3.1E-03	1.0E-03	6.2E-06	1.6E-01	1.3E-01	1.3E-07	1.2E-03	5.9E-03
156	2.8E-01	3.1E-03	1.0E-03	9.2E-07	1.6E-01	1.3E-01	1.9E-08	1.8E-04	8.8E-04
157	3.2E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.2E-08	2.0E-04	1.0E-03
158	3.7E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.5E-08	2.3E-04	1.2E-03
159	4.3E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.9E-08	2.7E-04	1.4E-03
160	5.2E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.5E-08	3.2E-04	1.6E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	3.1E-03	1.0E-03	2.0E-06	1.6E-01	1.3E-01	4.2E-08	3.9E-04	1.9E-03
162	7.4E-01	3.1E-03	1.0E-03	2.4E-06	1.6E-01	1.3E-01	5.1E-08	4.7E-04	2.3E-03
163	9.0E-01	3.1E-03	1.0E-03	2.9E-06	1.6E-01	1.3E-01	6.1E-08	5.6E-04	2.8E-03
164	1.1E+00	3.1E-03	1.0E-03	3.5E-06	1.6E-01	1.3E-01	7.3E-08	6.7E-04	3.4E-03
165	1.3E+00	3.1E-03	1.0E-03	4.3E-06	1.6E-01	1.3E-01	8.9E-08	8.2E-04	4.1E-03
166	2.6E-01	3.1E-03	1.0E-03	8.5E-07	1.6E-01	1.3E-01	1.8E-08	1.6E-04	8.2E-04
167	2.9E-01	3.1E-03	1.0E-03	9.6E-07	1.6E-01	1.3E-01	2.0E-08	1.8E-04	9.2E-04
168	3.4E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.1E-04	1.1E-03
169	3.9E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.4E-04	1.2E-03
170	4.5E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.1E-08	2.8E-04	1.4E-03
171	5.3E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.6E-08	3.3E-04	1.7E-03
172	6.1E-01	3.1E-03	1.0E-03	2.0E-06	1.6E-01	1.3E-01	4.1E-08	3.8E-04	1.9E-03
173	7.1E-01	3.1E-03	1.0E-03	2.3E-06	1.6E-01	1.3E-01	4.8E-08	4.4E-04	2.2E-03
174	8.2E-01	3.1E-03	1.0E-03	2.7E-06	1.6E-01	1.3E-01	5.5E-08	5.1E-04	2.6E-03
175	9.5E-01	3.1E-03	1.0E-03	3.1E-06	1.6E-01	1.3E-01	6.4E-08	6.0E-04	3.0E-03
176	2.4E-01	3.1E-03	1.0E-03	7.9E-07	1.6E-01	1.3E-01	1.6E-08	1.5E-04	7.6E-04
177	2.7E-01	3.1E-03	1.0E-03	8.8E-07	1.6E-01	1.3E-01	1.8E-08	1.7E-04	8.5E-04
178	3.0E-01	3.1E-03	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.1E-08	1.9E-04	9.6E-04
179	3.5E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.2E-04	1.1E-03
180	3.9E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.7E-08	2.5E-04	1.2E-03
181	4.5E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.1E-08	2.8E-04	1.4E-03
182	5.1E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.4E-08	3.2E-04	1.6E-03
183	5.7E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	3.9E-08	3.6E-04	1.8E-03
184	6.4E-01	3.1E-03	1.0E-03	2.1E-06	1.6E-01	1.3E-01	4.3E-08	4.0E-04	2.0E-03
185	7.2E-01	3.1E-03	1.0E-03	2.4E-06	1.6E-01	1.3E-01	4.9E-08	4.5E-04	2.3E-03
186	5.9E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	4.0E-08	3.7E-04	1.8E-03
187	5.2E-01	3.1E-03	1.0E-03	1.7E-06	1.6E-01	1.3E-01	3.6E-08	3.3E-04	1.6E-03
188	4.7E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.2E-08	2.9E-04	1.5E-03
189	2.2E-01	3.1E-03	1.0E-03	7.3E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	7.0E-04
190	2.5E-01	3.1E-03	1.0E-03	8.1E-07	1.6E-01	1.3E-01	1.7E-08	1.6E-04	7.8E-04
191	2.7E-01	3.1E-03	1.0E-03	9.0E-07	1.6E-01	1.3E-01	1.9E-08	1.7E-04	8.7E-04
192	3.1E-01	3.1E-03	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.1E-08	1.9E-04	9.7E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.2E-04	1.1E-03
194	3.8E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.4E-04	1.2E-03
195	4.3E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.9E-08	2.7E-04	1.3E-03
196	4.7E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.2E-08	2.9E-04	1.5E-03
197	5.6E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	3.8E-08	3.6E-04	1.8E-03
198	6.1E-01	3.1E-03	1.0E-03	2.0E-06	1.6E-01	1.3E-01	4.1E-08	3.8E-04	1.9E-03
199	5.7E-01	3.1E-03	1.0E-03	1.9E-06	1.6E-01	1.3E-01	3.9E-08	3.6E-04	1.8E-03
200	5.3E-01	3.1E-03	1.0E-03	1.8E-06	1.6E-01	1.3E-01	3.6E-08	3.4E-04	1.7E-03
201	4.9E-01	3.1E-03	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.3E-08	3.1E-04	1.6E-03
202	4.5E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.1E-08	2.8E-04	1.4E-03
203	4.1E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
204	2.0E-01	3.1E-03	1.0E-03	6.7E-07	1.6E-01	1.3E-01	1.4E-08	1.3E-04	6.4E-04
205	2.3E-01	3.1E-03	1.0E-03	7.4E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	7.1E-04
206	2.5E-01	3.1E-03	1.0E-03	8.2E-07	1.6E-01	1.3E-01	1.7E-08	1.6E-04	7.8E-04
207	2.7E-01	3.1E-03	1.0E-03	9.0E-07	1.6E-01	1.3E-01	1.9E-08	1.7E-04	8.6E-04
208	3.0E-01	3.1E-03	1.0E-03	9.9E-07	1.6E-01	1.3E-01	2.1E-08	1.9E-04	9.5E-04
209	3.3E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.2E-08	2.1E-04	1.0E-03
210	3.6E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.5E-08	2.3E-04	1.1E-03
211	4.2E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.9E-08	2.7E-04	1.3E-03
212	4.5E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.1E-08	2.8E-04	1.4E-03
213	5.0E-01	3.1E-03	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.4E-08	3.1E-04	1.6E-03
214	5.0E-01	3.1E-03	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.4E-08	3.1E-04	1.6E-03
215	4.9E-01	3.1E-03	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.3E-08	3.1E-04	1.5E-03
216	4.7E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.2E-08	2.9E-04	1.5E-03
217	4.4E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
218	4.2E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
219	3.9E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.4E-04	1.2E-03
220	3.5E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.4E-08	2.2E-04	1.1E-03
221	1.9E-01	3.1E-03	1.0E-03	6.2E-07	1.6E-01	1.3E-01	1.3E-08	1.2E-04	5.9E-04
222	2.1E-01	3.1E-03	1.0E-03	6.8E-07	1.6E-01	1.3E-01	1.4E-08	1.3E-04	6.5E-04
223	2.2E-01	3.1E-03	1.0E-03	7.4E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	7.1E-04
224	2.5E-01	3.1E-03	1.0E-03	8.0E-07	1.6E-01	1.3E-01	1.7E-08	1.5E-04	7.7E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	3.1E-03	1.0E-03	8.7E-07	1.6E-01	1.3E-01	1.8E-08	1.7E-04	8.4E-04
226	3.1E-01	3.1E-03	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.1E-08	2.0E-04	9.8E-04
227	3.3E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.1E-04	1.1E-03
228	3.5E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.4E-08	2.2E-04	1.1E-03
229	3.7E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.5E-08	2.3E-04	1.2E-03
230	4.0E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.7E-08	2.5E-04	1.3E-03
231	4.0E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.7E-08	2.5E-04	1.3E-03
232	4.0E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.7E-08	2.5E-04	1.3E-03
233	3.9E-01	3.1E-03	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.4E-04	1.2E-03
234	3.7E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.5E-08	2.3E-04	1.2E-03
235	3.5E-01	3.1E-03	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.4E-08	2.2E-04	1.1E-03
236	3.3E-01	3.1E-03	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.2E-08	2.1E-04	1.0E-03
237	3.1E-01	3.1E-03	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.1E-08	2.0E-04	9.8E-04
238	1.8E+00	3.1E-03	1.0E-03	5.9E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.6E-03
239	1.8E+00	3.1E-03	1.0E-03	6.0E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.7E-03
240	1.9E+00	3.1E-03	1.0E-03	6.1E-06	1.6E-01	1.3E-01	1.3E-07	1.2E-03	5.8E-03
241	1.9E+00	3.1E-03	1.0E-03	6.2E-06	1.6E-01	1.3E-01	1.3E-07	1.2E-03	5.9E-03
242	1.9E+00	3.1E-03	1.0E-03	6.3E-06	1.6E-01	1.3E-01	1.3E-07	1.2E-03	6.0E-03
243	1.9E+00	3.1E-03	1.0E-03	6.4E-06	1.6E-01	1.3E-01	1.3E-07	1.2E-03	6.1E-03
244	2.0E+00	3.1E-03	1.0E-03	6.4E-06	1.6E-01	1.3E-01	1.3E-07	1.2E-03	6.2E-03
245	2.0E+00	3.1E-03	1.0E-03	6.6E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.3E-03
246	2.0E+00	3.1E-03	1.0E-03	6.7E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.4E-03
247	2.1E+00	3.1E-03	1.0E-03	6.8E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.5E-03
248	2.1E+00	3.1E-03	1.0E-03	6.9E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.6E-03
249	2.1E+00	3.1E-03	1.0E-03	7.0E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.7E-03
250	2.2E+00	3.1E-03	1.0E-03	7.1E-06	1.6E-01	1.3E-01	1.5E-07	1.4E-03	6.8E-03
251	2.2E+00	3.1E-03	1.0E-03	7.2E-06	1.6E-01	1.3E-01	1.5E-07	1.4E-03	6.9E-03
252	2.2E+00	3.1E-03	1.0E-03	7.2E-06	1.6E-01	1.3E-01	1.5E-07	1.4E-03	6.9E-03
253	2.2E+00	3.1E-03	1.0E-03	7.3E-06	1.6E-01	1.3E-01	1.5E-07	1.4E-03	7.0E-03
254	2.3E+00	3.1E-03	1.0E-03	7.5E-06	1.6E-01	1.3E-01	1.5E-07	1.4E-03	7.2E-03
255	2.3E+00	3.1E-03	1.0E-03	7.6E-06	1.6E-01	1.3E-01	1.6E-07	1.5E-03	7.3E-03
256	2.3E+00	3.1E-03	1.0E-03	7.7E-06	1.6E-01	1.3E-01	1.6E-07	1.5E-03	7.4E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	3.1E-03	1.0E-03	7.8E-06	1.6E-01	1.3E-01	1.6E-07	1.5E-03	7.5E-03
258	2.4E+00	3.1E-03	1.0E-03	7.9E-06	1.6E-01	1.3E-01	1.6E-07	1.5E-03	7.6E-03
259	2.4E+00	3.1E-03	1.0E-03	8.0E-06	1.6E-01	1.3E-01	1.7E-07	1.5E-03	7.7E-03
260	2.5E+00	3.1E-03	1.0E-03	8.1E-06	1.6E-01	1.3E-01	1.7E-07	1.5E-03	7.7E-03
261	2.5E+00	3.1E-03	1.0E-03	8.3E-06	1.6E-01	1.3E-01	1.7E-07	1.6E-03	7.9E-03
262	2.6E+00	3.1E-03	1.0E-03	8.4E-06	1.6E-01	1.3E-01	1.7E-07	1.6E-03	8.1E-03
263	2.6E+00	3.1E-03	1.0E-03	8.6E-06	1.6E-01	1.3E-01	1.8E-07	1.6E-03	8.2E-03
264	2.6E+00	3.1E-03	1.0E-03	8.7E-06	1.6E-01	1.3E-01	1.8E-07	1.7E-03	8.3E-03
265	2.7E+00	3.1E-03	1.0E-03	8.8E-06	1.6E-01	1.3E-01	1.8E-07	1.7E-03	8.4E-03
266	2.7E+00	3.1E-03	1.0E-03	8.9E-06	1.6E-01	1.3E-01	1.8E-07	1.7E-03	8.5E-03
267	2.7E+00	3.1E-03	1.0E-03	9.0E-06	1.6E-01	1.3E-01	1.9E-07	1.7E-03	8.6E-03
268	2.7E+00	3.1E-03	1.0E-03	9.0E-06	1.6E-01	1.3E-01	1.9E-07	1.7E-03	8.6E-03
269	2.8E+00	3.1E-03	1.0E-03	9.0E-06	1.6E-01	1.3E-01	1.9E-07	1.7E-03	8.7E-03
270	2.8E+00	3.1E-03	1.0E-03	9.0E-06	1.6E-01	1.3E-01	1.9E-07	1.7E-03	8.7E-03
271	2.9E+00	3.1E-03	1.0E-03	9.6E-06	1.6E-01	1.3E-01	2.0E-07	1.8E-03	9.2E-03
272	3.0E+00	3.1E-03	1.0E-03	9.7E-06	1.6E-01	1.3E-01	2.0E-07	1.9E-03	9.3E-03
273	3.0E+00	3.1E-03	1.0E-03	9.8E-06	1.6E-01	1.3E-01	2.0E-07	1.9E-03	9.4E-03
274	3.0E+00	3.1E-03	1.0E-03	9.9E-06	1.6E-01	1.3E-01	2.1E-07	1.9E-03	9.5E-03
275	3.0E+00	3.1E-03	1.0E-03	1.0E-05	1.6E-01	1.3E-01	2.1E-07	1.9E-03	9.6E-03
276	3.1E+00	3.1E-03	1.0E-03	1.0E-05	1.6E-01	1.3E-01	2.1E-07	1.9E-03	9.6E-03
277	3.1E+00	3.1E-03	1.0E-03	1.0E-05	1.6E-01	1.3E-01	2.1E-07	1.9E-03	9.7E-03
278	3.1E+00	3.1E-03	1.0E-03	1.0E-05	1.6E-01	1.3E-01	2.1E-07	1.9E-03	9.7E-03
279	3.1E+00	3.1E-03	1.0E-03	1.0E-05	1.6E-01	1.3E-01	2.1E-07	1.9E-03	9.6E-03
280	3.0E+00	3.1E-03	1.0E-03	9.9E-06	1.6E-01	1.3E-01	2.1E-07	1.9E-03	9.5E-03
281	3.0E+00	3.1E-03	1.0E-03	9.9E-06	1.6E-01	1.3E-01	2.0E-07	1.9E-03	9.5E-03
282	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.1E-03	1.1E-02
283	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.1E-03	1.1E-02
284	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.2E-03	1.1E-02
285	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.2E-03	1.1E-02
286	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.2E-03	1.1E-02
287	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.2E-03	1.1E-02
288	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.1E-03	1.1E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.1E-03	1.1E-02
290	3.3E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.1E-03	1.0E-02
291	3.3E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.2E-07	2.1E-03	1.0E-02
292	3.3E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.2E-07	2.0E-03	1.0E-02
293	3.9E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.6E-07	2.4E-03	1.2E-02
294	3.9E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.6E-07	2.4E-03	1.2E-02
295	3.9E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.6E-07	2.4E-03	1.2E-02
296	3.8E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.6E-07	2.4E-03	1.2E-02
297	3.8E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.5E-07	2.4E-03	1.2E-02
298	3.7E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.5E-07	2.3E-03	1.2E-02
299	3.7E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.5E-07	2.3E-03	1.2E-02
300	3.6E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.4E-07	2.3E-03	1.1E-02
301	3.5E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.4E-07	2.2E-03	1.1E-02
302	3.5E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.4E-07	2.2E-03	1.1E-02
303	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.1E-03	1.1E-02
304	4.4E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	3.0E-07	2.7E-03	1.4E-02
305	4.3E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	2.9E-07	2.7E-03	1.4E-02
306	4.2E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	2.9E-07	2.7E-03	1.3E-02
307	4.2E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	2.8E-07	2.6E-03	1.3E-02
308	4.1E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.8E-07	2.6E-03	1.3E-02
309	4.0E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.7E-07	2.5E-03	1.3E-02
310	3.9E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.7E-07	2.5E-03	1.2E-02
311	3.8E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.6E-07	2.4E-03	1.2E-02
312	3.7E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.5E-07	2.3E-03	1.2E-02
313	3.6E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.5E-07	2.3E-03	1.1E-02
314	3.5E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.4E-07	2.2E-03	1.1E-02
315	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.1E-03	1.1E-02
316	4.7E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.2E-07	3.0E-03	1.5E-02
317	4.6E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.1E-07	2.9E-03	1.4E-02
318	4.5E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.0E-07	2.8E-03	1.4E-02
319	4.4E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	3.0E-07	2.7E-03	1.4E-02
320	4.2E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	2.9E-07	2.7E-03	1.3E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.8E-07	2.6E-03	1.3E-02
322	4.0E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.7E-07	2.5E-03	1.3E-02
323	3.8E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.6E-07	2.4E-03	1.2E-02
324	3.7E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.5E-07	2.3E-03	1.2E-02
325	5.0E+00	3.1E-03	1.0E-03	1.6E-05	1.6E-01	1.3E-01	3.4E-07	3.2E-03	1.6E-02
326	4.9E+00	3.1E-03	1.0E-03	1.6E-05	1.6E-01	1.3E-01	3.3E-07	3.1E-03	1.5E-02
327	4.7E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.2E-07	3.0E-03	1.5E-02
328	4.5E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.1E-07	2.9E-03	1.4E-02
329	4.4E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	3.0E-07	2.7E-03	1.4E-02
330	4.2E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	2.8E-07	2.6E-03	1.3E-02
331	5.2E+00	3.1E-03	1.0E-03	1.7E-05	1.6E-01	1.3E-01	3.5E-07	3.3E-03	1.6E-02
332	5.0E+00	3.1E-03	1.0E-03	1.6E-05	1.6E-01	1.3E-01	3.4E-07	3.1E-03	1.6E-02
333	4.8E+00	3.1E-03	1.0E-03	1.6E-05	1.6E-01	1.3E-01	3.3E-07	3.0E-03	1.5E-02
334	4.6E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.1E-07	2.9E-03	1.4E-02
335	1.7E+00	3.1E-03	1.0E-03	5.7E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.5E-03
336	1.8E+00	3.1E-03	1.0E-03	5.8E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.6E-03
337	1.8E+00	3.1E-03	1.0E-03	6.0E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.7E-03
338	1.9E+00	3.1E-03	1.0E-03	6.1E-06	1.6E-01	1.3E-01	1.3E-07	1.2E-03	5.9E-03
339	1.9E+00	3.1E-03	1.0E-03	6.2E-06	1.6E-01	1.3E-01	1.3E-07	1.2E-03	5.9E-03
340	1.9E+00	3.1E-03	1.0E-03	6.4E-06	1.6E-01	1.3E-01	1.3E-07	1.2E-03	6.1E-03
341	2.0E+00	3.1E-03	1.0E-03	6.5E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.3E-03
342	2.0E+00	3.1E-03	1.0E-03	6.7E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.4E-03
343	2.0E+00	3.1E-03	1.0E-03	6.7E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.4E-03
344	2.1E+00	3.1E-03	1.0E-03	6.9E-06	1.6E-01	1.3E-01	1.4E-07	1.3E-03	6.6E-03
345	2.2E+00	3.1E-03	1.0E-03	7.1E-06	1.6E-01	1.3E-01	1.5E-07	1.4E-03	6.8E-03
346	2.2E+00	3.1E-03	1.0E-03	7.4E-06	1.6E-01	1.3E-01	1.5E-07	1.4E-03	7.1E-03
347	2.2E+00	3.1E-03	1.0E-03	7.3E-06	1.6E-01	1.3E-01	1.5E-07	1.4E-03	7.0E-03
348	2.3E+00	3.1E-03	1.0E-03	7.6E-06	1.6E-01	1.3E-01	1.6E-07	1.5E-03	7.3E-03
349	2.4E+00	3.1E-03	1.0E-03	7.9E-06	1.6E-01	1.3E-01	1.6E-07	1.5E-03	7.5E-03
350	2.5E+00	3.1E-03	1.0E-03	8.1E-06	1.6E-01	1.3E-01	1.7E-07	1.6E-03	7.8E-03
351	2.4E+00	3.1E-03	1.0E-03	8.0E-06	1.6E-01	1.3E-01	1.6E-07	1.5E-03	7.6E-03
352	2.5E+00	3.1E-03	1.0E-03	8.3E-06	1.6E-01	1.3E-01	1.7E-07	1.6E-03	8.0E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	3.1E-03	1.0E-03	8.7E-06	1.6E-01	1.3E-01	1.8E-07	1.7E-03	8.3E-03
354	2.7E+00	3.1E-03	1.0E-03	9.0E-06	1.6E-01	1.3E-01	1.9E-07	1.7E-03	8.6E-03
355	2.6E+00	3.1E-03	1.0E-03	8.7E-06	1.6E-01	1.3E-01	1.8E-07	1.7E-03	8.3E-03
356	2.8E+00	3.1E-03	1.0E-03	9.1E-06	1.6E-01	1.3E-01	1.9E-07	1.7E-03	8.7E-03
357	2.9E+00	3.1E-03	1.0E-03	9.6E-06	1.6E-01	1.3E-01	2.0E-07	1.8E-03	9.1E-03
358	3.0E+00	3.1E-03	1.0E-03	1.0E-05	1.6E-01	1.3E-01	2.1E-07	1.9E-03	9.6E-03
359	2.9E+00	3.1E-03	1.0E-03	9.5E-06	1.6E-01	1.3E-01	2.0E-07	1.8E-03	9.1E-03
360	3.1E+00	3.1E-03	1.0E-03	1.0E-05	1.6E-01	1.3E-01	2.1E-07	1.9E-03	9.6E-03
361	3.2E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.2E-07	2.0E-03	1.0E-02
362	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.1E-03	1.1E-02
363	3.2E+00	3.1E-03	1.0E-03	1.0E-05	1.6E-01	1.3E-01	2.2E-07	2.0E-03	1.0E-02
364	3.4E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.3E-07	2.1E-03	1.1E-02
365	3.6E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.4E-07	2.3E-03	1.1E-02
366	3.8E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.6E-07	2.4E-03	1.2E-02
367	3.5E+00	3.1E-03	1.0E-03	1.1E-05	1.6E-01	1.3E-01	2.4E-07	2.2E-03	1.1E-02
368	3.7E+00	3.1E-03	1.0E-03	1.2E-05	1.6E-01	1.3E-01	2.5E-07	2.4E-03	1.2E-02
369	4.0E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.7E-07	2.5E-03	1.3E-02
370	4.3E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	2.9E-07	2.7E-03	1.3E-02
371	3.8E+00	3.1E-03	1.0E-03	1.3E-05	1.6E-01	1.3E-01	2.6E-07	2.4E-03	1.2E-02
372	4.1E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	2.8E-07	2.6E-03	1.3E-02
373	4.5E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.0E-07	2.8E-03	1.4E-02
374	4.8E+00	3.1E-03	1.0E-03	1.6E-05	1.6E-01	1.3E-01	3.3E-07	3.0E-03	1.5E-02
375	4.2E+00	3.1E-03	1.0E-03	1.4E-05	1.6E-01	1.3E-01	2.8E-07	2.6E-03	1.3E-02
376	4.6E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.1E-07	2.9E-03	1.4E-02
377	5.0E+00	3.1E-03	1.0E-03	1.6E-05	1.6E-01	1.3E-01	3.4E-07	3.1E-03	1.6E-02
378	5.5E+00	3.1E-03	1.0E-03	1.8E-05	1.6E-01	1.3E-01	3.7E-07	3.4E-03	1.7E-02
379	4.5E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.1E-07	2.9E-03	1.4E-02
380	5.0E+00	3.1E-03	1.0E-03	1.7E-05	1.6E-01	1.3E-01	3.4E-07	3.2E-03	1.6E-02
381	5.6E+00	3.1E-03	1.0E-03	1.8E-05	1.6E-01	1.3E-01	3.8E-07	3.5E-03	1.7E-02
382	6.2E+00	3.1E-03	1.0E-03	2.0E-05	1.6E-01	1.3E-01	4.2E-07	3.9E-03	1.9E-02
383	4.9E+00	3.1E-03	1.0E-03	1.6E-05	1.6E-01	1.3E-01	3.3E-07	3.1E-03	1.5E-02
384	5.5E+00	3.1E-03	1.0E-03	1.8E-05	1.6E-01	1.3E-01	3.7E-07	3.4E-03	1.7E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	3.1E-03	1.0E-03	2.0E-05	1.6E-01	1.3E-01	4.2E-07	3.9E-03	1.9E-02
386	6.9E+00	3.1E-03	1.0E-03	2.3E-05	1.6E-01	1.3E-01	4.7E-07	4.4E-03	2.2E-02
387	5.2E+00	3.1E-03	1.0E-03	1.7E-05	1.6E-01	1.3E-01	3.6E-07	3.3E-03	1.6E-02
388	5.9E+00	3.1E-03	1.0E-03	1.9E-05	1.6E-01	1.3E-01	4.0E-07	3.7E-03	1.9E-02
389	6.7E+00	3.1E-03	1.0E-03	2.2E-05	1.6E-01	1.3E-01	4.6E-07	4.2E-03	2.1E-02
390	7.7E+00	3.1E-03	1.0E-03	2.5E-05	1.6E-01	1.3E-01	5.2E-07	4.8E-03	2.4E-02
391	5.6E+00	3.1E-03	1.0E-03	1.8E-05	1.6E-01	1.3E-01	3.8E-07	3.5E-03	1.7E-02
392	6.3E+00	3.1E-03	1.0E-03	2.1E-05	1.6E-01	1.3E-01	4.3E-07	4.0E-03	2.0E-02
393	7.2E+00	3.1E-03	1.0E-03	2.4E-05	1.6E-01	1.3E-01	4.9E-07	4.6E-03	2.3E-02
394	8.4E+00	3.1E-03	1.0E-03	2.8E-05	1.6E-01	1.3E-01	5.7E-07	5.3E-03	2.6E-02
395	5.8E+00	3.1E-03	1.0E-03	1.9E-05	1.6E-01	1.3E-01	4.0E-07	3.7E-03	1.8E-02
396	6.7E+00	3.1E-03	1.0E-03	2.2E-05	1.6E-01	1.3E-01	4.5E-07	4.2E-03	2.1E-02
397	7.7E+00	3.1E-03	1.0E-03	2.5E-05	1.6E-01	1.3E-01	5.2E-07	4.8E-03	2.4E-02
398	9.1E+00	3.1E-03	1.0E-03	3.0E-05	1.6E-01	1.3E-01	6.1E-07	5.7E-03	2.8E-02
399	6.0E+00	3.1E-03	1.0E-03	2.0E-05	1.6E-01	1.3E-01	4.1E-07	3.8E-03	1.9E-02
400	7.0E+00	3.1E-03	1.0E-03	2.3E-05	1.6E-01	1.3E-01	4.7E-07	4.4E-03	2.2E-02
401	8.1E+00	3.1E-03	1.0E-03	2.7E-05	1.6E-01	1.3E-01	5.5E-07	5.1E-03	2.6E-02
402	9.6E+00	3.1E-03	1.0E-03	3.2E-05	1.6E-01	1.3E-01	6.5E-07	6.0E-03	3.0E-02
403	6.2E+00	3.1E-03	1.0E-03	2.0E-05	1.6E-01	1.3E-01	4.2E-07	3.9E-03	2.0E-02
404	7.2E+00	3.1E-03	1.0E-03	2.4E-05	1.6E-01	1.3E-01	4.9E-07	4.5E-03	2.3E-02
405	8.4E+00	3.1E-03	1.0E-03	2.8E-05	1.6E-01	1.3E-01	5.7E-07	5.3E-03	2.7E-02
406	1.0E+01	3.1E-03	1.0E-03	3.3E-05	1.6E-01	1.3E-01	6.8E-07	6.3E-03	3.2E-02
407	6.3E+00	3.1E-03	1.0E-03	2.1E-05	1.6E-01	1.3E-01	4.3E-07	4.0E-03	2.0E-02
408	7.4E+00	3.1E-03	1.0E-03	2.4E-05	1.6E-01	1.3E-01	5.0E-07	4.6E-03	2.3E-02
409	8.7E+00	3.1E-03	1.0E-03	2.8E-05	1.6E-01	1.3E-01	5.9E-07	5.5E-03	2.7E-02
410	1.0E+01	3.1E-03	1.0E-03	3.4E-05	1.6E-01	1.3E-01	7.1E-07	6.5E-03	3.3E-02
411	6.4E+00	3.1E-03	1.0E-03	2.1E-05	1.6E-01	1.3E-01	4.3E-07	4.0E-03	2.0E-02
412	7.5E+00	3.1E-03	1.0E-03	2.5E-05	1.6E-01	1.3E-01	5.1E-07	4.7E-03	2.3E-02
413	8.8E+00	3.1E-03	1.0E-03	2.9E-05	1.6E-01	1.3E-01	6.0E-07	5.6E-03	2.8E-02
414	1.1E+01	3.1E-03	1.0E-03	3.5E-05	1.6E-01	1.3E-01	7.2E-07	6.7E-03	3.3E-02
415	6.4E+00	3.1E-03	1.0E-03	2.1E-05	1.6E-01	1.3E-01	4.3E-07	4.0E-03	2.0E-02
416	7.5E+00	3.1E-03	1.0E-03	2.5E-05	1.6E-01	1.3E-01	5.1E-07	4.7E-03	2.4E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	3.1E-03	1.0E-03	2.9E-05	1.6E-01	1.3E-01	6.0E-07	5.6E-03	2.8E-02
418	1.1E+01	3.1E-03	1.0E-03	3.5E-05	1.6E-01	1.3E-01	7.3E-07	6.7E-03	3.4E-02
419	6.4E+00	3.1E-03	1.0E-03	2.1E-05	1.6E-01	1.3E-01	4.3E-07	4.0E-03	2.0E-02
420	7.5E+00	3.1E-03	1.0E-03	2.5E-05	1.6E-01	1.3E-01	5.1E-07	4.7E-03	2.3E-02
421	8.9E+00	3.1E-03	1.0E-03	2.9E-05	1.6E-01	1.3E-01	6.0E-07	5.6E-03	2.8E-02
422	1.1E+01	3.1E-03	1.0E-03	3.5E-05	1.6E-01	1.3E-01	7.3E-07	6.7E-03	3.4E-02
423	6.3E+00	3.1E-03	1.0E-03	2.1E-05	1.6E-01	1.3E-01	4.2E-07	3.9E-03	2.0E-02
424	7.4E+00	3.1E-03	1.0E-03	2.4E-05	1.6E-01	1.3E-01	5.0E-07	4.6E-03	2.3E-02
425	8.8E+00	3.1E-03	1.0E-03	2.9E-05	1.6E-01	1.3E-01	5.9E-07	5.5E-03	2.8E-02
426	1.1E+01	3.1E-03	1.0E-03	3.5E-05	1.6E-01	1.3E-01	7.2E-07	6.7E-03	3.3E-02
427	6.1E+00	3.1E-03	1.0E-03	2.0E-05	1.6E-01	1.3E-01	4.1E-07	3.8E-03	1.9E-02
428	7.2E+00	3.1E-03	1.0E-03	2.4E-05	1.6E-01	1.3E-01	4.9E-07	4.5E-03	2.3E-02
429	8.6E+00	3.1E-03	1.0E-03	2.8E-05	1.6E-01	1.3E-01	5.8E-07	5.4E-03	2.7E-02
430	1.0E+01	3.1E-03	1.0E-03	3.4E-05	1.6E-01	1.3E-01	7.0E-07	6.5E-03	3.3E-02
431	5.9E+00	3.1E-03	1.0E-03	1.9E-05	1.6E-01	1.3E-01	4.0E-07	3.7E-03	1.9E-02
432	6.9E+00	3.1E-03	1.0E-03	2.3E-05	1.6E-01	1.3E-01	4.7E-07	4.4E-03	2.2E-02
433	8.3E+00	3.1E-03	1.0E-03	2.7E-05	1.6E-01	1.3E-01	5.6E-07	5.2E-03	2.6E-02
434	1.0E+01	3.1E-03	1.0E-03	3.3E-05	1.6E-01	1.3E-01	6.8E-07	6.3E-03	3.2E-02
435	5.6E+00	3.1E-03	1.0E-03	1.9E-05	1.6E-01	1.3E-01	3.8E-07	3.5E-03	1.8E-02
436	6.6E+00	3.1E-03	1.0E-03	2.2E-05	1.6E-01	1.3E-01	4.5E-07	4.2E-03	2.1E-02
437	7.9E+00	3.1E-03	1.0E-03	2.6E-05	1.6E-01	1.3E-01	5.3E-07	5.0E-03	2.5E-02
438	9.6E+00	3.1E-03	1.0E-03	3.1E-05	1.6E-01	1.3E-01	6.5E-07	6.0E-03	3.0E-02
439	5.4E+00	3.1E-03	1.0E-03	1.8E-05	1.6E-01	1.3E-01	3.6E-07	3.4E-03	1.7E-02
440	6.3E+00	3.1E-03	1.0E-03	2.1E-05	1.6E-01	1.3E-01	4.3E-07	3.9E-03	2.0E-02
441	7.4E+00	3.1E-03	1.0E-03	2.4E-05	1.6E-01	1.3E-01	5.0E-07	4.7E-03	2.3E-02
442	9.0E+00	3.1E-03	1.0E-03	3.0E-05	1.6E-01	1.3E-01	6.1E-07	5.7E-03	2.8E-02
443	5.0E+00	3.1E-03	1.0E-03	1.7E-05	1.6E-01	1.3E-01	3.4E-07	3.2E-03	1.6E-02
444	5.9E+00	3.1E-03	1.0E-03	1.9E-05	1.6E-01	1.3E-01	4.0E-07	3.7E-03	1.8E-02
445	6.9E+00	3.1E-03	1.0E-03	2.3E-05	1.6E-01	1.3E-01	4.7E-07	4.3E-03	2.2E-02
446	8.3E+00	3.1E-03	1.0E-03	2.7E-05	1.6E-01	1.3E-01	5.6E-07	5.2E-03	2.6E-02
447	4.7E+00	3.1E-03	1.0E-03	1.5E-05	1.6E-01	1.3E-01	3.2E-07	3.0E-03	1.5E-02
448	5.4E+00	3.1E-03	1.0E-03	1.8E-05	1.6E-01	1.3E-01	3.7E-07	3.4E-03	1.7E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	3.1E-03	1.0E-03	2.1E-05	1.6E-01	1.3E-01	4.3E-07	4.0E-03	2.0E-02
450	7.6E+00	3.1E-03	1.0E-03	2.5E-05	1.6E-01	1.3E-01	5.1E-07	4.7E-03	2.4E-02
451	4.4E-01	3.1E-03	1.0E-03	1.4E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
452	4.4E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
453	4.4E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
454	4.5E-01	3.1E-03	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
455	5.4E-01	3.1E-03	1.0E-03	1.8E-06	1.6E-01	1.3E-01	3.6E-08	3.4E-04	1.7E-03
456	5.4E-01	3.1E-03	1.0E-03	1.8E-06	1.6E-01	1.3E-01	3.7E-08	3.4E-04	1.7E-03
457	5.5E-01	3.1E-03	1.0E-03	1.8E-06	1.6E-01	1.3E-01	3.7E-08	3.4E-04	1.7E-03
458	5.4E-01	3.1E-03	1.0E-03	1.8E-06	1.6E-01	1.3E-01	3.7E-08	3.4E-04	1.7E-03
459	6.8E-01	3.1E-03	1.0E-03	2.2E-06	1.6E-01	1.3E-01	4.6E-08	4.3E-04	2.1E-03
460	6.8E-01	3.1E-03	1.0E-03	2.2E-06	1.6E-01	1.3E-01	4.6E-08	4.3E-04	2.2E-03
461	6.8E-01	3.1E-03	1.0E-03	2.2E-06	1.6E-01	1.3E-01	4.6E-08	4.3E-04	2.1E-03
462	7.8E-01	3.1E-03	1.0E-03	2.6E-06	1.6E-01	1.3E-01	5.3E-08	4.9E-04	2.5E-03
463	9.7E-01	3.1E-03	1.0E-03	3.2E-06	1.6E-01	1.3E-01	6.6E-08	6.1E-04	3.0E-03
464	7.9E-01	3.1E-03	1.0E-03	2.6E-06	1.6E-01	1.3E-01	5.4E-08	5.0E-04	2.5E-03
465	1.0E+00	3.1E-03	1.0E-03	3.3E-06	1.6E-01	1.3E-01	6.8E-08	6.3E-04	3.2E-03
466	1.3E+00	3.1E-03	1.0E-03	4.3E-06	1.6E-01	1.3E-01	8.9E-08	8.2E-04	4.1E-03
467	1.8E+00	3.1E-03	1.0E-03	5.8E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.6E-03
468	7.7E-01	3.1E-03	1.0E-03	2.5E-06	1.6E-01	1.3E-01	5.2E-08	4.8E-04	2.4E-03
469	9.8E-01	3.1E-03	1.0E-03	3.2E-06	1.6E-01	1.3E-01	6.7E-08	6.2E-04	3.1E-03
470	1.3E+00	3.1E-03	1.0E-03	4.3E-06	1.6E-01	1.3E-01	8.9E-08	8.2E-04	4.1E-03
471	1.8E+00	3.1E-03	1.0E-03	6.0E-06	1.6E-01	1.3E-01	1.2E-07	1.2E-03	5.8E-03
472	9.2E-01	3.1E-03	1.0E-03	3.0E-06	1.6E-01	1.3E-01	6.2E-08	5.8E-04	2.9E-03
473	1.2E+00	3.1E-03	1.0E-03	4.0E-06	1.6E-01	1.3E-01	8.3E-08	7.7E-04	3.9E-03
474	1.7E+00	3.1E-03	1.0E-03	5.7E-06	1.6E-01	1.3E-01	1.2E-07	1.1E-03	5.5E-03
475	8.3E-01	3.1E-03	1.0E-03	2.7E-06	1.6E-01	1.3E-01	5.7E-08	5.2E-04	2.6E-03
476	1.1E+00	3.1E-03	1.0E-03	3.6E-06	1.6E-01	1.3E-01	7.5E-08	6.9E-04	3.5E-03
477	1.5E+00	3.1E-03	1.0E-03	5.0E-06	1.6E-01	1.3E-01	1.0E-07	9.7E-04	4.8E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
1	2.8E+00	8.8E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.3E-12	2.7E+00	1.6E-07	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.5E-12
2	2.9E+00	8.8E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	2.9E+00	1.6E-07	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11
3	3.1E+00	8.8E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.8E-12	3.1E+00	1.6E-07	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11
4	3.2E+00	8.8E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.1E-12	3.3E+00	1.6E-07	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11
5	3.3E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	3.5E+00	1.6E-07	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11
6	3.5E+00	8.8E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.6E-12	3.7E+00	1.6E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
7	3.6E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	6.9E-12	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
8	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	4.1E+00	1.6E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
9	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	4.3E+00	1.6E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
10	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.6E-12	4.6E+00	1.6E-07	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11
11	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.6E-12	4.8E+00	1.6E-07	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11
12	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.6E-12	5.0E+00	1.6E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
13	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
14	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.3E-12	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
15	2.9E+00	8.8E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	4.1E+00	1.6E-07	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11
16	2.8E+00	8.8E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.2E-12	3.8E+00	1.6E-07	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11
17	3.1E+00	8.8E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.9E-12	2.9E+00	1.6E-07	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11
18	3.3E+00	8.8E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	3.1E+00	1.6E-07	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11
19	3.4E+00	8.8E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.5E-12	3.4E+00	1.6E-07	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11
20	3.6E+00	8.8E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	3.6E+00	1.6E-07	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11
21	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
22	4.0E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	4.1E+00	1.6E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
23	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	6.0E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
24	4.5E+00	8.8E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	6.1E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
25	3.5E+00	8.8E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.6E-12	5.0E+00	1.6E-07	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11
26	3.3E+00	8.8E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
27	3.1E+00	8.8E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.8E-12	4.3E+00	1.6E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
28	3.4E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	3.1E+00	1.6E-07	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11
29	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	3.7E+00	1.6E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
30	4.1E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.7E-12	4.0E+00	1.6E-07	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11
31	4.3E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.2E-12	4.3E+00	1.6E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
32	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
33	4.8E+00	8.8E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.2E-12	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
34	5.0E+00	8.8E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.6E-12	5.4E+00	1.6E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
35	5.3E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	1.0E-11	5.8E+00	1.6E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
36	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	6.2E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11
37	5.5E+00	8.8E-08	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.0E-11	7.1E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
38	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	7.4E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
39	5.3E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	1.0E-11	7.5E+00	1.6E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
40	4.0E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	6.0E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
41	3.7E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.0E-12	5.5E+00	1.6E-07	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11
42	3.4E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	5.0E+00	1.6E-07	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11
43	3.7E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.1E-12	3.3E+00	1.6E-07	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11
44	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.7E-12	3.6E+00	1.6E-07	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11
45	4.3E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.2E-12	4.0E+00	1.6E-07	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11
46	5.0E+00	8.8E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.4E-12	4.8E+00	1.6E-07	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11
47	5.3E+00	8.8E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	5.3E+00	1.6E-07	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11
48	5.6E+00	8.8E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	5.8E+00	1.6E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
49	5.9E+00	8.8E-08	1.0E-03	5.4E-10	1.6E-01	1.3E-01	1.1E-11	6.3E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
50	6.2E+00	8.8E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	6.9E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
51	6.5E+00	8.8E-08	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11	7.5E+00	1.6E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
52	6.6E+00	8.8E-08	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11	8.8E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
53	6.5E+00	8.8E-08	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11	9.2E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11
54	6.3E+00	8.8E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	9.4E+00	1.6E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
55	6.0E+00	8.8E-08	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11	9.3E+00	1.6E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11
56	5.7E+00	8.8E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	9.0E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
57	4.5E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.6E-12	7.2E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
58	4.2E+00	8.8E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.9E-12	6.5E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
59	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	5.9E+00	1.6E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
60	4.1E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.7E-12	3.4E+00	1.6E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11
61	4.5E+00	8.8E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	3.7E+00	1.6E-07	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11
62	4.9E+00	8.8E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.2E-12	4.2E+00	1.6E-07	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.5E-11
63	5.3E+00	8.8E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
64	5.7E+00	8.8E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	5.3E+00	1.6E-07	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
65	7.0E+00	8.8E-08	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11	7.3E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
66	7.5E+00	8.8E-08	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11	8.2E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11
67	7.9E+00	8.8E-08	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11	9.0E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
68	8.1E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11
69	7.9E+00	8.8E-08	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11	1.2E+01	1.6E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
70	7.6E+00	8.8E-08	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.5E-11	1.2E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
71	7.2E+00	8.8E-08	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11	1.2E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
72	6.8E+00	8.8E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	1.2E+01	1.6E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
73	4.4E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.4E-12	3.4E+00	1.6E-07	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11
74	4.9E+00	8.8E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.3E-12	3.8E+00	1.6E-07	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11
75	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	4.3E+00	1.6E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
76	6.0E+00	8.8E-08	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11	4.9E+00	1.6E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
77	6.7E+00	8.8E-08	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11	5.7E+00	1.6E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
78	7.3E+00	8.8E-08	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11	6.5E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
79	8.0E+00	8.8E-08	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11	7.4E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
80	9.9E+00	8.8E-08	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11
81	1.0E+01	8.8E-08	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
82	1.0E+01	8.8E-08	1.0E-03	9.2E-10	1.6E-01	1.3E-01	1.9E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
83	9.5E+00	8.8E-08	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
84	8.9E+00	8.8E-08	1.0E-03	8.2E-10	1.6E-01	1.3E-01	1.7E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
85	8.2E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.6E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
86	4.5E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.6E-12	3.4E+00	1.6E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11
87	5.2E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
88	6.0E+00	8.8E-08	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11	4.4E+00	1.6E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11
89	6.8E+00	8.8E-08	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11	5.1E+00	1.6E-07	1.0E-03	8.6E-10	1.6E-01	1.3E-01	1.8E-11
90	7.7E+00	8.8E-08	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11	5.9E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
91	8.7E+00	8.8E-08	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.7E-11	6.9E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
92	9.7E+00	8.8E-08	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11	8.1E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11
93	1.1E+01	8.8E-08	1.0E-03	9.9E-10	1.6E-01	1.3E-01	2.0E-11	9.6E+00	1.6E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
94	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
95	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11	2.6E+01	1.6E-07	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.1E-11
96	1.0E+01	8.8E-08	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11	2.4E+01	1.6E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
97	4.8E+00	8.8E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.2E-12	3.4E+00	1.6E-07	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11
98	5.5E+00	8.8E-08	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.1E-11	3.8E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
99	6.4E+00	8.8E-08	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11	4.4E+00	1.6E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
100	1.0E+01	8.8E-08	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11	7.3E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
101	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	8.7E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
102	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	1.1E+01	1.6E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11
103	1.6E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
104	4.8E+00	8.8E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.2E-12	3.3E+00	1.6E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.1E-11
105	5.7E+00	8.8E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	3.8E+00	1.6E-07	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11
106	6.7E+00	8.8E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	4.4E+00	1.6E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
107	1.8E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
108	2.1E+01	8.8E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
109	4.7E+00	8.8E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.0E-12	3.2E+00	1.6E-07	1.0E-03	5.4E-10	1.6E-01	1.3E-01	1.1E-11
110	5.6E+00	8.8E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	3.7E+00	1.6E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
111	6.8E+00	8.8E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	4.3E+00	1.6E-07	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11
112	2.3E+01	8.8E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
113	3.0E+01	8.8E-08	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
114	4.5E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	3.1E+00	1.6E-07	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.1E-11
115	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	3.5E+00	1.6E-07	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11
116	6.6E+00	8.8E-08	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11	4.1E+00	1.6E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
117	8.1E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	4.8E+00	1.6E-07	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.7E-11
118	2.7E+01	8.8E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
119	4.2E+01	8.8E-08	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.0E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
120	4.3E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.2E-12	2.9E+00	1.6E-07	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11
121	5.1E+00	8.8E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.7E-12	3.3E+00	1.6E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11
122	6.2E+00	8.8E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
123	7.6E+00	8.8E-08	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.4E-11	4.5E+00	1.6E-07	1.0E-03	7.6E-10	1.6E-01	1.3E-01	1.6E-11
124	2.7E+01	8.8E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11	1.0E+01	1.6E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.6E-11
125	4.8E+01	8.8E-08	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.1E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
126	4.1E+00	8.8E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	2.8E+00	1.6E-07	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.7E-12
127	4.8E+00	8.8E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.1E-12	3.2E+00	1.6E-07	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11
128	5.7E+00	8.8E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	3.7E+00	1.6E-07	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
129	7.1E+00	8.8E-08	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11	4.3E+00	1.6E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
130	8.9E+00	8.8E-08	1.0E-03	8.2E-10	1.6E-01	1.3E-01	1.7E-11	5.0E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.7E-11
131	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	6.1E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
132	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	7.5E+00	1.6E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
133	2.4E+01	8.8E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11	9.6E+00	1.6E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
134	4.0E+01	8.8E-08	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.7E-11	1.3E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
135	8.8E+01	8.8E-08	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.3E-11
136	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	2.7E+00	1.6E-07	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.2E-12
137	4.5E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.6E-12	3.0E+00	1.6E-07	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.0E-11
138	5.3E+00	8.8E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	3.4E+00	1.6E-07	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11
139	6.5E+00	8.8E-08	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11	4.0E+00	1.6E-07	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11
140	8.1E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
141	1.0E+01	8.8E-08	1.0E-03	9.6E-10	1.6E-01	1.3E-01	2.0E-11	5.6E+00	1.6E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
142	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	6.9E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
143	2.0E+01	8.8E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11	8.6E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11
144	3.0E+01	8.8E-08	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
145	5.2E+01	8.8E-08	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.8E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
146	3.6E+00	8.8E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.9E-12	2.5E+00	1.6E-07	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.8E-12
147	4.2E+00	8.8E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	2.9E+00	1.6E-07	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12
148	5.0E+00	8.8E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.5E-12	3.2E+00	1.6E-07	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11
149	6.0E+00	8.8E-08	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11	3.8E+00	1.6E-07	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11
150	7.3E+00	8.8E-08	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11	4.4E+00	1.6E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
151	9.2E+00	8.8E-08	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11	5.2E+00	1.6E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
152	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	6.2E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11
153	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	7.6E+00	1.6E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
154	2.2E+01	8.8E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11	9.5E+00	1.6E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
155	3.2E+01	8.8E-08	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.1E-11	1.2E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
156	3.4E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	2.4E+00	1.6E-07	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.4E-12
157	4.0E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	2.7E+00	1.6E-07	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.4E-12
158	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.8E-12	3.1E+00	1.6E-07	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.1E-11
159	5.5E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	3.5E+00	1.6E-07	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11
160	6.6E+00	8.8E-08	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11	4.0E+00	1.6E-07	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
161	8.1E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
162	1.0E+01	8.8E-08	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11	5.6E+00	1.6E-07	1.0E-03	9.4E-10	1.6E-01	1.3E-01	1.9E-11
163	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	6.7E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
164	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	8.1E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11
165	2.1E+01	8.8E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11	1.0E+01	1.6E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11
166	3.2E+00	8.8E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.1E-12	2.3E+00	1.6E-07	1.0E-03	3.8E-10	1.6E-01	1.3E-01	8.0E-12
167	3.7E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.0E-12	2.6E+00	1.6E-07	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.9E-12
168	4.2E+00	8.8E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.1E-12	2.9E+00	1.6E-07	1.0E-03	4.8E-10	1.6E-01	1.3E-01	1.0E-11
169	5.0E+00	8.8E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.5E-12	3.3E+00	1.6E-07	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11
170	5.9E+00	8.8E-08	1.0E-03	5.4E-10	1.6E-01	1.3E-01	1.1E-11	3.7E+00	1.6E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
171	7.0E+00	8.8E-08	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11	4.3E+00	1.6E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
172	8.5E+00	8.8E-08	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11	5.0E+00	1.6E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
173	1.0E+01	8.8E-08	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11	5.8E+00	1.6E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
174	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	6.9E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
175	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	8.3E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
176	3.0E+00	8.8E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.7E-12	2.2E+00	1.6E-07	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12
177	3.4E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	2.4E+00	1.6E-07	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12
178	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	2.7E+00	1.6E-07	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.3E-12
179	4.5E+00	8.8E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	3.0E+00	1.6E-07	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.0E-11
180	5.2E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	3.4E+00	1.6E-07	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11
181	6.1E+00	8.8E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
182	7.2E+00	8.8E-08	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11	4.4E+00	1.6E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
183	8.4E+00	8.8E-08	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
184	9.8E+00	8.8E-08	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11	5.9E+00	1.6E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
185	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11	6.8E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11
186	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	6.0E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
187	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	5.2E+00	1.6E-07	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11
188	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	4.6E+00	1.6E-07	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11
189	2.8E+00	8.8E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.3E-12	2.0E+00	1.6E-07	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.1E-12
190	3.1E+00	8.8E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.0E-12	2.3E+00	1.6E-07	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12
191	3.6E+00	8.8E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	2.5E+00	1.6E-07	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12
192	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.7E-12	2.8E+00	1.6E-07	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.6E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
193	4.6E+00	8.8E-08	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.8E-12	3.1E+00	1.6E-07	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11
194	5.3E+00	8.8E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	3.5E+00	1.6E-07	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11
195	6.1E+00	8.8E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	3.9E+00	1.6E-07	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11
196	6.9E+00	8.8E-08	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11	4.4E+00	1.6E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
197	8.6E+00	8.8E-08	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.6E-11	5.7E+00	1.6E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
198	7.1E+00	8.8E-08	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11	6.7E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
199	6.2E+00	8.8E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	6.2E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
200	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	5.6E+00	1.6E-07	1.0E-03	9.4E-10	1.6E-01	1.3E-01	1.9E-11
201	4.7E+00	8.8E-08	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.9E-12	5.0E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.7E-11
202	4.1E+00	8.8E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	4.5E+00	1.6E-07	1.0E-03	7.6E-10	1.6E-01	1.3E-01	1.6E-11
203	3.6E+00	8.8E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	4.0E+00	1.6E-07	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11
204	2.6E+00	8.8E-08	1.0E-03	2.4E-10	1.6E-01	1.3E-01	5.0E-12	1.9E+00	1.6E-07	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.7E-12
205	2.9E+00	8.8E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.5E-12	2.1E+00	1.6E-07	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12
206	3.2E+00	8.8E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	2.3E+00	1.6E-07	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.1E-12
207	3.6E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	6.9E-12	2.6E+00	1.6E-07	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.9E-12
208	4.1E+00	8.8E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	2.8E+00	1.6E-07	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12
209	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.8E-12	3.1E+00	1.6E-07	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11
210	5.2E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	3.5E+00	1.6E-07	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11
211	6.3E+00	8.8E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	4.3E+00	1.6E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
212	6.7E+00	8.8E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
213	6.6E+00	8.8E-08	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11	5.5E+00	1.6E-07	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11
214	6.2E+00	8.8E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	5.5E+00	1.6E-07	1.0E-03	9.2E-10	1.6E-01	1.3E-01	1.9E-11
215	5.8E+00	8.8E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	5.4E+00	1.6E-07	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11
216	5.2E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.8E-12	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
217	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.8E-12	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
218	4.1E+00	8.8E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	4.3E+00	1.6E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
219	3.6E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	6.9E-12	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
220	3.2E+00	8.8E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.1E-12	3.4E+00	1.6E-07	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11
221	2.4E+00	8.8E-08	1.0E-03	2.2E-10	1.6E-01	1.3E-01	4.6E-12	1.8E+00	1.6E-07	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.3E-12
222	2.7E+00	8.8E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.1E-12	2.0E+00	1.6E-07	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.9E-12
223	3.0E+00	8.8E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	2.2E+00	1.6E-07	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12
224	3.3E+00	8.8E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	2.4E+00	1.6E-07	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.2E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
225	3.6E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	6.9E-12	2.6E+00	1.6E-07	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.0E-12
226	4.5E+00	8.8E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	3.1E+00	1.6E-07	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11
227	4.9E+00	8.8E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.3E-12	3.4E+00	1.6E-07	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11
228	5.2E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.8E-12	3.7E+00	1.6E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
229	5.5E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	4.0E+00	1.6E-07	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11
230	5.3E+00	8.8E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	4.5E+00	1.6E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.6E-11
231	5.0E+00	8.8E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.6E-12	4.4E+00	1.6E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11
232	4.8E+00	8.8E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.0E-12	4.4E+00	1.6E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
233	4.3E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	4.2E+00	1.6E-07	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.4E-11
234	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	3.9E+00	1.6E-07	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11
235	3.6E+00	8.8E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	3.7E+00	1.6E-07	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11
236	3.2E+00	8.8E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.1E-12	3.3E+00	1.6E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11
237	2.9E+00	8.8E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.5E-12	3.1E+00	1.6E-07	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.1E-11
238	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
239	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
240	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
241	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
242	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
243	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.6E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
244	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
245	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
246	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
247	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.6E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
248	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
249	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
250	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
251	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
252	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
253	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11
254	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
255	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
256	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
257	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
258	1.2E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
259	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11	2.0E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
260	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.2E-11
261	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
262	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
263	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
264	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.0E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
265	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
266	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.2E+01	1.6E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.5E-11
267	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.2E+01	1.6E-07	1.0E-03	3.8E-09	1.6E-01	1.3E-01	7.8E-11
268	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.3E+01	1.6E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.0E-11
269	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	2.4E+01	1.6E-07	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.2E-11
270	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	2.4E+01	1.6E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.4E-11
271	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
272	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.2E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.5E-11
273	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.2E+01	1.6E-07	1.0E-03	3.8E-09	1.6E-01	1.3E-01	7.8E-11
274	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.3E+01	1.6E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11
275	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	2.4E+01	1.6E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.4E-11
276	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	2.5E+01	1.6E-07	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.6E-11
277	1.4E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	2.6E+01	1.6E-07	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.9E-11
278	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.6E+01	1.6E-07	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.1E-11
279	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.7E+01	1.6E-07	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.4E-11
280	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.8E+01	1.6E-07	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.6E-11
281	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	2.8E+01	1.6E-07	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.8E-11
282	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	2.4E+01	1.6E-07	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.4E-11
283	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	2.5E+01	1.6E-07	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.7E-11
284	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	2.6E+01	1.6E-07	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.0E-11
285	1.5E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	2.7E+01	1.6E-07	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.4E-11
286	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.8E+01	1.6E-07	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.7E-11
287	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.9E+01	1.6E-07	1.0E-03	4.8E-09	1.6E-01	1.3E-01	1.0E-10
288	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.0E+01	1.6E-07	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
289	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.0E+01	1.6E-07	1.0E-03	5.1E-09	1.6E-01	1.3E-01	1.1E-10
290	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	3.1E+01	1.6E-07	1.0E-03	5.2E-09	1.6E-01	1.3E-01	1.1E-10
291	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.2E+01	1.6E-07	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10
292	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.2E+01	1.6E-07	1.0E-03	5.4E-09	1.6E-01	1.3E-01	1.1E-10
293	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	2.9E+01	1.6E-07	1.0E-03	4.9E-09	1.6E-01	1.3E-01	1.0E-10
294	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.0E+01	1.6E-07	1.0E-03	5.1E-09	1.6E-01	1.3E-01	1.1E-10
295	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.2E+01	1.6E-07	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10
296	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	3.3E+01	1.6E-07	1.0E-03	5.5E-09	1.6E-01	1.3E-01	1.1E-10
297	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	3.4E+01	1.6E-07	1.0E-03	5.7E-09	1.6E-01	1.3E-01	1.2E-10
298	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.5E+01	1.6E-07	1.0E-03	5.8E-09	1.6E-01	1.3E-01	1.2E-10
299	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.5E+01	1.6E-07	1.0E-03	6.0E-09	1.6E-01	1.3E-01	1.2E-10
300	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.6E+01	1.6E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
301	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.6E+01	1.6E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
302	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.6E+01	1.6E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
303	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	3.6E+01	1.6E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
304	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	3.5E+01	1.6E-07	1.0E-03	5.8E-09	1.6E-01	1.3E-01	1.2E-10
305	1.6E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	3.6E+01	1.6E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
306	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.8E+01	1.6E-07	1.0E-03	6.3E-09	1.6E-01	1.3E-01	1.3E-10
307	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.9E+01	1.6E-07	1.0E-03	6.5E-09	1.6E-01	1.3E-01	1.4E-10
308	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	4.0E+01	1.6E-07	1.0E-03	6.7E-09	1.6E-01	1.3E-01	1.4E-10
309	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	4.1E+01	1.6E-07	1.0E-03	6.9E-09	1.6E-01	1.3E-01	1.4E-10
310	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	4.1E+01	1.6E-07	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10
311	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	4.2E+01	1.6E-07	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10
312	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	4.2E+01	1.6E-07	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10
313	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	4.1E+01	1.6E-07	1.0E-03	6.9E-09	1.6E-01	1.3E-01	1.4E-10
314	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	4.0E+01	1.6E-07	1.0E-03	6.7E-09	1.6E-01	1.3E-01	1.4E-10
315	1.2E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	3.9E+01	1.6E-07	1.0E-03	6.5E-09	1.6E-01	1.3E-01	1.4E-10
316	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.4E+01	1.6E-07	1.0E-03	7.4E-09	1.6E-01	1.3E-01	1.5E-10
317	1.6E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	4.6E+01	1.6E-07	1.0E-03	7.7E-09	1.6E-01	1.3E-01	1.6E-10
318	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.7E+01	1.6E-07	1.0E-03	7.9E-09	1.6E-01	1.3E-01	1.6E-10
319	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.8E+01	1.6E-07	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10
320	1.5E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	4.8E+01	1.6E-07	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
321	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	4.8E+01	1.6E-07	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10
322	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	4.8E+01	1.6E-07	1.0E-03	8.0E-09	1.6E-01	1.3E-01	1.7E-10
323	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	4.7E+01	1.6E-07	1.0E-03	7.8E-09	1.6E-01	1.3E-01	1.6E-10
324	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	4.5E+01	1.6E-07	1.0E-03	7.5E-09	1.6E-01	1.3E-01	1.6E-10
325	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	5.5E+01	1.6E-07	1.0E-03	9.2E-09	1.6E-01	1.3E-01	1.9E-10
326	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	5.6E+01	1.6E-07	1.0E-03	9.4E-09	1.6E-01	1.3E-01	2.0E-10
327	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	5.7E+01	1.6E-07	1.0E-03	9.6E-09	1.6E-01	1.3E-01	2.0E-10
328	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	5.7E+01	1.6E-07	1.0E-03	9.7E-09	1.6E-01	1.3E-01	2.0E-10
329	1.5E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	5.7E+01	1.6E-07	1.0E-03	9.5E-09	1.6E-01	1.3E-01	2.0E-10
330	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	5.5E+01	1.6E-07	1.0E-03	9.2E-09	1.6E-01	1.3E-01	1.9E-10
331	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	6.9E+01	1.6E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.4E-10
332	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	7.0E+01	1.6E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.4E-10
333	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	6.9E+01	1.6E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.4E-10
334	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	6.6E+01	1.6E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10
335	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	1.2E+01	1.6E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
336	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	1.2E+01	1.6E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
337	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.3E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
338	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
339	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.2E+01	1.6E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
340	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11	1.3E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
341	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
342	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.3E+01	1.6E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
343	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.3E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
344	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
345	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	1.4E+01	1.6E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
346	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
347	1.4E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
348	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	1.3E+01	1.6E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
349	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
350	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
351	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
352	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	1.4E+01	1.6E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
353	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	1.5E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
354	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
355	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	1.4E+01	1.6E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
356	1.6E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
357	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
358	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
359	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
360	1.7E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
361	1.7E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11	1.5E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
362	1.7E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
363	1.7E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	1.5E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.1E-11
364	1.8E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11	1.5E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
365	1.8E+01	8.8E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
366	1.8E+01	8.8E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11
367	1.8E+01	8.8E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
368	1.9E+01	8.8E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
369	1.9E+01	8.8E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	1.6E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
370	2.0E+01	8.8E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
371	2.0E+01	8.8E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11	1.5E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
372	2.0E+01	8.8E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
373	2.1E+01	8.8E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
374	2.1E+01	8.8E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.0E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
375	2.1E+01	8.8E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
376	2.2E+01	8.8E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11	1.6E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
377	2.2E+01	8.8E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
378	2.3E+01	8.8E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11
379	2.3E+01	8.8E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
380	2.3E+01	8.8E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
381	2.4E+01	8.8E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
382	2.5E+01	8.8E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.5E-11
383	2.4E+01	8.8E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
384	2.5E+01	8.8E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
385	2.6E+01	8.8E-08	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11
386	2.7E+01	8.8E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.7E-11
387	2.6E+01	8.8E-08	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
388	2.7E+01	8.8E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11	1.8E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.1E-11
389	2.8E+01	8.8E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
390	2.9E+01	8.8E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
391	2.8E+01	8.8E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11
392	3.0E+01	8.8E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
393	3.1E+01	8.8E-08	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.5E-11
394	3.2E+01	8.8E-08	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.1E-11	2.0E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	6.9E-11
395	3.1E+01	8.8E-08	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
396	3.2E+01	8.8E-08	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.1E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
397	3.4E+01	8.8E-08	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
398	3.5E+01	8.8E-08	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.7E-11	2.0E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.1E-11
399	3.3E+01	8.8E-08	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
400	3.5E+01	8.8E-08	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.7E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11
401	3.7E+01	8.8E-08	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11	1.9E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.7E-11
402	3.8E+01	8.8E-08	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.2E-11
403	3.6E+01	8.8E-08	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
404	3.8E+01	8.8E-08	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
405	4.0E+01	8.8E-08	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.7E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
406	4.3E+01	8.8E-08	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.2E-11
407	3.9E+01	8.8E-08	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.5E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
408	4.2E+01	8.8E-08	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.0E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
409	4.5E+01	8.8E-08	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.5E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
410	4.7E+01	8.8E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	9.0E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
411	4.3E+01	8.8E-08	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
412	4.6E+01	8.8E-08	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.7E-11	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
413	4.9E+01	8.8E-08	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.4E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
414	5.3E+01	8.8E-08	1.0E-03	4.8E-09	1.6E-01	1.3E-01	1.0E-10	2.1E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
415	4.6E+01	8.8E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.8E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
416	5.0E+01	8.8E-08	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.6E-11	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
417	5.4E+01	8.8E-08	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
418	5.9E+01	8.8E-08	1.0E-03	5.4E-09	1.6E-01	1.3E-01	1.1E-10	2.1E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
419	5.0E+01	8.8E-08	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.5E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
420	5.5E+01	8.8E-08	1.0E-03	5.1E-09	1.6E-01	1.3E-01	1.0E-10	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
421	6.0E+01	8.8E-08	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.1E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
422	6.6E+01	8.8E-08	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10	2.1E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
423	5.4E+01	8.8E-08	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
424	6.0E+01	8.8E-08	1.0E-03	5.5E-09	1.6E-01	1.3E-01	1.1E-10	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
425	6.7E+01	8.8E-08	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
426	7.4E+01	8.8E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	2.1E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
427	5.8E+01	8.8E-08	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
428	6.5E+01	8.8E-08	1.0E-03	6.0E-09	1.6E-01	1.3E-01	1.2E-10	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
429	7.3E+01	8.8E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
430	8.3E+01	8.8E-08	1.0E-03	7.7E-09	1.6E-01	1.3E-01	1.6E-10	2.1E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
431	6.1E+01	8.8E-08	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.2E-10	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
432	7.0E+01	8.8E-08	1.0E-03	6.4E-09	1.6E-01	1.3E-01	1.3E-10	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.3E-11
433	8.0E+01	8.8E-08	1.0E-03	7.4E-09	1.6E-01	1.3E-01	1.5E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
434	9.3E+01	8.8E-08	1.0E-03	8.6E-09	1.6E-01	1.3E-01	1.8E-10	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
435	6.3E+01	8.8E-08	1.0E-03	5.8E-09	1.6E-01	1.3E-01	1.2E-10	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11
436	7.3E+01	8.8E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
437	8.6E+01	8.8E-08	1.0E-03	7.9E-09	1.6E-01	1.3E-01	1.6E-10	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.7E-11
438	1.0E+02	8.8E-08	1.0E-03	9.4E-09	1.6E-01	1.3E-01	1.9E-10	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.2E-11
439	6.4E+01	8.8E-08	1.0E-03	5.9E-09	1.6E-01	1.3E-01	1.2E-10	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
440	7.6E+01	8.8E-08	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.1E-11
441	9.0E+01	8.8E-08	1.0E-03	8.3E-09	1.6E-01	1.3E-01	1.7E-10	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
442	1.1E+02	8.8E-08	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10	2.1E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.1E-11
443	6.4E+01	8.8E-08	1.0E-03	5.9E-09	1.6E-01	1.3E-01	1.2E-10	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
444	7.6E+01	8.8E-08	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
445	9.2E+01	8.8E-08	1.0E-03	8.4E-09	1.6E-01	1.3E-01	1.7E-10	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.5E-11
446	1.1E+02	8.8E-08	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.2E-10	2.0E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
447	6.2E+01	8.8E-08	1.0E-03	5.7E-09	1.6E-01	1.3E-01	1.2E-10	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.5E-11
448	7.4E+01	8.8E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	9.0E+01	8.8E-08	1.0E-03	8.3E-09	1.6E-01	1.3E-01	1.7E-10	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11
450	1.1E+02	8.8E-08	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
451	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
452	3.6E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	6.9E-12	5.0E+00	1.6E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
453	3.5E+00	8.8E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.7E-12	4.8E+00	1.6E-07	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11
454	3.3E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	4.6E+00	1.6E-07	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11
455	4.3E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	6.0E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
456	4.2E+00	8.8E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	5.9E+00	1.6E-07	1.0E-03	9.9E-10	1.6E-01	1.3E-01	2.0E-11
457	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.6E-12	5.7E+00	1.6E-07	1.0E-03	9.6E-10	1.6E-01	1.3E-01	2.0E-11
458	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	5.4E+00	1.6E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
459	5.1E+00	8.8E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.7E-12	7.4E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
460	4.8E+00	8.8E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.2E-12	7.2E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
461	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	6.9E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
462	7.6E+00	8.8E-08	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.4E-11	5.2E+00	1.6E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
463	8.8E+00	8.8E-08	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11	6.1E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
464	8.1E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	5.2E+00	1.6E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
465	9.8E+00	8.8E-08	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11	6.1E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
466	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	7.4E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
467	1.5E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	9.0E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
468	8.3E+00	8.8E-08	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11	5.0E+00	1.6E-07	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11
469	1.0E+01	8.8E-08	1.0E-03	9.6E-10	1.6E-01	1.3E-01	2.0E-11	6.0E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
470	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	7.2E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
471	1.7E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	9.0E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
472	1.0E+01	8.8E-08	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11	5.7E+00	1.6E-07	1.0E-03	9.6E-10	1.6E-01	1.3E-01	2.0E-11
473	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	7.0E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
474	1.9E+01	8.8E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	8.7E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
475	9.7E+00	8.8E-08	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11	5.4E+00	1.6E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
476	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	6.5E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
477	1.8E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11	8.1E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
1	2.9E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.9E-12	1.6E+00	5.3E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
2	3.1E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	1.8E+00	5.3E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
3	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
4	3.6E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	2.1E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11
5	3.8E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.9E-12	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
6	4.1E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.4E-12	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
7	4.4E+00	9.5E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.0E-12	2.6E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
8	4.7E+00	9.5E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.6E-12	2.8E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11
9	5.0E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	3.0E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11
10	5.3E+00	9.5E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	3.2E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11
11	5.7E+00	9.5E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
12	6.0E+00	9.5E-08	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11	3.7E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
13	6.2E+00	9.5E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
14	6.3E+00	9.5E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
15	5.0E+00	9.5E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	5.0E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
16	4.6E+00	9.5E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.4E-12	5.0E+00	5.3E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
17	3.0E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	1.7E+00	5.3E-07	1.0E-03	9.2E-10	1.6E-01	1.3E-01	1.9E-11
18	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	1.8E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
19	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
20	3.9E+00	9.5E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	2.1E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
21	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
22	4.6E+00	9.5E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.4E-12	2.5E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
23	7.5E+00	9.5E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
24	7.7E+00	9.5E-08	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11	4.8E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
25	6.3E+00	9.5E-08	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11	5.8E+00	5.3E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
26	5.8E+00	9.5E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	5.9E+00	5.3E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.7E-11
27	5.4E+00	9.5E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	5.9E+00	5.3E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.7E-11
28	3.1E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	1.7E+00	5.3E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
29	3.9E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.9E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
30	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
31	4.7E+00	9.5E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.6E-12	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
32	5.2E+00	9.5E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	2.6E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
33	5.7E+00	9.5E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
34	6.2E+00	9.5E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	3.2E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.6E-11
35	6.9E+00	9.5E-08	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
36	7.5E+00	9.5E-08	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11	3.9E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
37	8.9E+00	9.5E-08	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
38	9.4E+00	9.5E-08	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11	5.2E+00	5.3E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
39	9.8E+00	9.5E-08	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11	5.6E+00	5.3E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
40	7.7E+00	9.5E-08	1.0E-03	7.6E-10	1.6E-01	1.3E-01	1.6E-11	7.0E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.0E-11
41	7.0E+00	9.5E-08	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.4E-11	7.1E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11
42	6.3E+00	9.5E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	7.1E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11
43	3.2E+00	9.5E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.6E-12	1.6E+00	5.3E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
44	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	1.8E+00	5.3E-07	1.0E-03	9.9E-10	1.6E-01	1.3E-01	2.1E-11
45	4.1E+00	9.5E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
46	5.1E+00	9.5E-08	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.0E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11
47	5.8E+00	9.5E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	2.7E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
48	6.4E+00	9.5E-08	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11	3.0E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11
49	7.2E+00	9.5E-08	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11
50	8.1E+00	9.5E-08	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.7E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
51	9.0E+00	9.5E-08	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.9E-11
52	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	5.4E+00	5.3E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
53	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	6.0E+00	5.3E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
54	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	6.7E+00	5.3E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.6E-11
55	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	7.3E+00	5.3E-07	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.3E-11
56	1.3E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	7.8E+00	5.3E-07	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.9E-11
57	9.6E+00	9.5E-08	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11	8.7E+00	5.3E-07	1.0E-03	4.8E-09	1.6E-01	1.3E-01	9.9E-11
58	8.5E+00	9.5E-08	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11	8.7E+00	5.3E-07	1.0E-03	4.8E-09	1.6E-01	1.3E-01	1.0E-10
59	7.5E+00	9.5E-08	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11	8.7E+00	5.3E-07	1.0E-03	4.8E-09	1.6E-01	1.3E-01	9.9E-11
60	3.2E+00	9.5E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.6E-12	1.6E+00	5.3E-07	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11
61	3.7E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	1.8E+00	5.3E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
62	4.2E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
63	4.8E+00	9.5E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.7E-12	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
64	5.4E+00	9.5E-08	1.0E-03	5.4E-10	1.6E-01	1.3E-01	1.1E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
65	8.2E+00	9.5E-08	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
66	9.5E+00	9.5E-08	1.0E-03	9.4E-10	1.6E-01	1.3E-01	1.9E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
67	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
68	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	6.1E+00	5.3E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
69	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	7.1E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11
70	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11	8.1E+00	5.3E-07	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.2E-11
71	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	9.0E+00	5.3E-07	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10
72	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	9.9E+00	5.3E-07	1.0E-03	5.4E-09	1.6E-01	1.3E-01	1.1E-10
73	3.2E+00	9.5E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.6E-12	1.6E+00	5.3E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
74	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	1.7E+00	5.3E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
75	4.2E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
76	4.8E+00	9.5E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	2.1E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
77	5.7E+00	9.5E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
78	6.6E+00	9.5E-08	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.4E-11	2.7E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
79	7.8E+00	9.5E-08	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11	3.1E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11
80	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	4.8E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
81	1.9E+01	9.5E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11	7.0E+00	5.3E-07	1.0E-03	3.8E-09	1.6E-01	1.3E-01	8.0E-11
82	2.3E+01	9.5E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11	8.4E+00	5.3E-07	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.6E-11
83	2.6E+01	9.5E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11	1.0E+01	5.3E-07	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.1E-10
84	2.7E+01	9.5E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11	1.2E+01	5.3E-07	1.0E-03	6.5E-09	1.6E-01	1.3E-01	1.3E-10
85	2.6E+01	9.5E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11	1.3E+01	5.3E-07	1.0E-03	7.3E-09	1.6E-01	1.3E-01	1.5E-10
86	3.1E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.3E-12	1.5E+00	5.3E-07	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11
87	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	1.7E+00	5.3E-07	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11
88	4.1E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.4E-12	1.9E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
89	4.8E+00	9.5E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.8E-12	2.1E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11
90	5.7E+00	9.5E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
91	6.8E+00	9.5E-08	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11	2.6E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
92	8.2E+00	9.5E-08	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11	3.0E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11
93	9.9E+00	9.5E-08	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
94	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
95	4.8E+01	9.5E-08	1.0E-03	4.8E-09	1.6E-01	1.3E-01	9.9E-11	1.7E+01	5.3E-07	1.0E-03	9.3E-09	1.6E-01	1.3E-01	1.9E-10
96	4.6E+01	9.5E-08	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.4E-11	2.0E+01	5.3E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
97	3.0E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	1.5E+00	5.3E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
98	3.5E+00	9.5E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.1E-12	1.6E+00	5.3E-07	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11
99	4.0E+00	9.5E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.1E-12	1.8E+00	5.3E-07	1.0E-03	9.9E-10	1.6E-01	1.3E-01	2.1E-11
100	6.7E+00	9.5E-08	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11	2.5E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
101	8.2E+00	9.5E-08	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
102	1.0E+01	9.5E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
103	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
104	2.9E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.0E-12	1.5E+00	5.3E-07	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.7E-11
105	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	1.6E+00	5.3E-07	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11
106	3.8E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.9E-12	1.7E+00	5.3E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
107	1.0E+01	9.5E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11	3.2E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11
108	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
109	2.8E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.7E-12	1.4E+00	5.3E-07	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11
110	3.2E+00	9.5E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.5E-12	1.5E+00	5.3E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
111	3.7E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	1.7E+00	5.3E-07	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11
112	9.5E+00	9.5E-08	1.0E-03	9.4E-10	1.6E-01	1.3E-01	1.9E-11	3.0E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11
113	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
114	2.7E+00	9.5E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.5E-12	1.4E+00	5.3E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.6E-11
115	3.0E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	1.5E+00	5.3E-07	1.0E-03	8.2E-10	1.6E-01	1.3E-01	1.7E-11
116	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.1E-12	1.6E+00	5.3E-07	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11
117	4.0E+00	9.5E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	1.8E+00	5.3E-07	1.0E-03	9.9E-10	1.6E-01	1.3E-01	2.0E-11
118	8.7E+00	9.5E-08	1.0E-03	8.6E-10	1.6E-01	1.3E-01	1.8E-11	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
119	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11
120	2.6E+00	9.5E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.2E-12	1.3E+00	5.3E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
121	2.9E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	5.9E-12	1.4E+00	5.3E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
122	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	1.6E+00	5.3E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
123	3.8E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	1.7E+00	5.3E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
124	7.9E+00	9.5E-08	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11	2.7E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
125	1.0E+01	9.5E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11	3.1E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11
126	2.4E+00	9.5E-08	1.0E-03	2.4E-10	1.6E-01	1.3E-01	5.0E-12	1.3E+00	5.3E-07	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.5E-11
127	2.7E+00	9.5E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	1.4E+00	5.3E-07	1.0E-03	7.6E-10	1.6E-01	1.3E-01	1.6E-11
128	3.1E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	1.5E+00	5.3E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
129	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.3E-12	1.7E+00	5.3E-07	1.0E-03	9.2E-10	1.6E-01	1.3E-01	1.9E-11
130	4.2E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	1.8E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
131	4.9E+00	9.5E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	1.0E-11	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
132	5.8E+00	9.5E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
133	7.2E+00	9.5E-08	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11	2.6E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
134	9.0E+00	9.5E-08	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
135	1.2E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
136	2.3E+00	9.5E-08	1.0E-03	2.3E-10	1.6E-01	1.3E-01	4.8E-12	1.2E+00	5.3E-07	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11
137	2.6E+00	9.5E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.4E-12	1.3E+00	5.3E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
138	3.0E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.0E-12	1.5E+00	5.3E-07	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.7E-11
139	3.4E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.9E-12	1.6E+00	5.3E-07	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11
140	3.9E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	8.0E-12	1.8E+00	5.3E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
141	4.5E+00	9.5E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.3E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
142	5.4E+00	9.5E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
143	6.4E+00	9.5E-08	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11
144	7.9E+00	9.5E-08	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11	2.7E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
145	9.8E+00	9.5E-08	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11	3.1E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11
146	2.2E+00	9.5E-08	1.0E-03	2.2E-10	1.6E-01	1.3E-01	4.6E-12	1.2E+00	5.3E-07	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11
147	2.5E+00	9.5E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.1E-12	1.3E+00	5.3E-07	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11
148	2.8E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.7E-12	1.4E+00	5.3E-07	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11
149	3.2E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	1.5E+00	5.3E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
150	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	1.7E+00	5.3E-07	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11
151	4.2E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	1.8E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
152	4.8E+00	9.5E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
153	5.7E+00	9.5E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
154	6.8E+00	9.5E-08	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11	2.6E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
155	8.2E+00	9.5E-08	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
156	2.1E+00	9.5E-08	1.0E-03	2.1E-10	1.6E-01	1.3E-01	4.3E-12	1.2E+00	5.3E-07	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11
157	2.4E+00	9.5E-08	1.0E-03	2.3E-10	1.6E-01	1.3E-01	4.8E-12	1.3E+00	5.3E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
158	2.6E+00	9.5E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.4E-12	1.4E+00	5.3E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11
159	2.9E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.0E-12	1.5E+00	5.3E-07	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11
160	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	1.6E+00	5.3E-07	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
161	3.8E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	1.8E+00	5.3E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
162	4.4E+00	9.5E-08	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.9E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
163	5.0E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	2.1E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
164	5.8E+00	9.5E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
165	6.9E+00	9.5E-08	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11	2.7E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
166	2.0E+00	9.5E-08	1.0E-03	2.0E-10	1.6E-01	1.3E-01	4.1E-12	1.1E+00	5.3E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
167	2.2E+00	9.5E-08	1.0E-03	2.2E-10	1.6E-01	1.3E-01	4.5E-12	1.2E+00	5.3E-07	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11
168	2.5E+00	9.5E-08	1.0E-03	2.4E-10	1.6E-01	1.3E-01	5.0E-12	1.3E+00	5.3E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
169	2.7E+00	9.5E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	1.4E+00	5.3E-07	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11
170	3.1E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.3E-12	1.5E+00	5.3E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.7E-11
171	3.5E+00	9.5E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.1E-12	1.7E+00	5.3E-07	1.0E-03	9.2E-10	1.6E-01	1.3E-01	1.9E-11
172	3.9E+00	9.5E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	1.8E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
173	4.4E+00	9.5E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.1E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
174	5.1E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
175	5.8E+00	9.5E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	2.4E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11
176	1.9E+00	9.5E-08	1.0E-03	1.9E-10	1.6E-01	1.3E-01	3.9E-12	1.1E+00	5.3E-07	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11
177	2.1E+00	9.5E-08	1.0E-03	2.1E-10	1.6E-01	1.3E-01	4.3E-12	1.2E+00	5.3E-07	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11
178	2.3E+00	9.5E-08	1.0E-03	2.3E-10	1.6E-01	1.3E-01	4.7E-12	1.2E+00	5.3E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
179	2.5E+00	9.5E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.2E-12	1.3E+00	5.3E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11
180	2.8E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.8E-12	1.5E+00	5.3E-07	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11
181	3.1E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	1.6E+00	5.3E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
182	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	1.7E+00	5.3E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
183	3.9E+00	9.5E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	1.9E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
184	4.4E+00	9.5E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.0E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
185	4.9E+00	9.5E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	2.3E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
186	5.0E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
187	4.5E+00	9.5E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.3E-12	5.0E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
188	4.1E+00	9.5E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	5.2E+00	5.3E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
189	1.8E+00	9.5E-08	1.0E-03	1.8E-10	1.6E-01	1.3E-01	3.7E-12	1.0E+00	5.3E-07	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11
190	2.0E+00	9.5E-08	1.0E-03	1.9E-10	1.6E-01	1.3E-01	4.0E-12	1.1E+00	5.3E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
191	2.1E+00	9.5E-08	1.0E-03	2.1E-10	1.6E-01	1.3E-01	4.4E-12	1.2E+00	5.3E-07	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11
192	2.4E+00	9.5E-08	1.0E-03	2.3E-10	1.6E-01	1.3E-01	4.8E-12	1.3E+00	5.3E-07	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
193	2.6E+00	9.5E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.3E-12	1.4E+00	5.3E-07	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11
194	2.9E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.9E-12	1.5E+00	5.3E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
195	3.2E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	1.6E+00	5.3E-07	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11
196	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.1E-12	1.8E+00	5.3E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
197	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	2.1E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
198	5.1E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
199	4.8E+00	9.5E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
200	4.6E+00	9.5E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.4E-12	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
201	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
202	3.9E+00	9.5E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
203	3.6E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
204	1.7E+00	9.5E-08	1.0E-03	1.7E-10	1.6E-01	1.3E-01	3.5E-12	1.0E+00	5.3E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11
205	1.8E+00	9.5E-08	1.0E-03	1.8E-10	1.6E-01	1.3E-01	3.8E-12	1.1E+00	5.3E-07	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11
206	2.0E+00	9.5E-08	1.0E-03	2.0E-10	1.6E-01	1.3E-01	4.1E-12	1.1E+00	5.3E-07	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11
207	2.2E+00	9.5E-08	1.0E-03	2.2E-10	1.6E-01	1.3E-01	4.5E-12	1.2E+00	5.3E-07	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11
208	2.4E+00	9.5E-08	1.0E-03	2.4E-10	1.6E-01	1.3E-01	4.9E-12	1.3E+00	5.3E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
209	2.6E+00	9.5E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.3E-12	1.4E+00	5.3E-07	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11
210	2.8E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.8E-12	1.5E+00	5.3E-07	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11
211	3.4E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.9E-12	1.8E+00	5.3E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
212	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
213	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.6E-12	2.6E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
214	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.6E-12	2.8E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11
215	4.2E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.6E-12	3.0E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11
216	4.1E+00	9.5E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	3.2E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11
217	3.9E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.9E-12	3.3E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11
218	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
219	3.4E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.9E-12	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
220	3.1E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.3E-12	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
221	1.6E+00	9.5E-08	1.0E-03	1.6E-10	1.6E-01	1.3E-01	3.3E-12	9.7E-01	5.3E-07	1.0E-03	5.4E-10	1.6E-01	1.3E-01	1.1E-11
222	1.7E+00	9.5E-08	1.0E-03	1.7E-10	1.6E-01	1.3E-01	3.5E-12	1.0E+00	5.3E-07	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11
223	1.9E+00	9.5E-08	1.0E-03	1.8E-10	1.6E-01	1.3E-01	3.8E-12	1.1E+00	5.3E-07	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11
224	2.0E+00	9.5E-08	1.0E-03	2.0E-10	1.6E-01	1.3E-01	4.1E-12	1.2E+00	5.3E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
225	2.2E+00	9.5E-08	1.0E-03	2.2E-10	1.6E-01	1.3E-01	4.5E-12	1.3E+00	5.3E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
226	2.6E+00	9.5E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.3E-12	1.4E+00	5.3E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
227	2.8E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.7E-12	1.5E+00	5.3E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
228	3.0E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.0E-12	1.6E+00	5.3E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
229	3.2E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	1.8E+00	5.3E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
230	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
231	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	2.5E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11
232	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	2.6E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
233	3.4E+00	9.5E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.0E-12	2.8E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11
234	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.7E-12	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
235	3.1E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	3.0E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11
236	2.9E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	5.9E-12	3.1E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11
237	2.7E+00	9.5E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	3.2E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.6E-11
238	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	6.1E+00	5.3E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
239	1.9E+01	9.5E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11	6.4E+00	5.3E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
240	1.9E+01	9.5E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11	6.6E+00	5.3E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.6E-11
241	2.0E+01	9.5E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11	6.9E+00	5.3E-07	1.0E-03	3.8E-09	1.6E-01	1.3E-01	7.9E-11
242	2.1E+01	9.5E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11	7.2E+00	5.3E-07	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.2E-11
243	2.2E+01	9.5E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11	7.5E+00	5.3E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.5E-11
244	1.9E+01	9.5E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11	6.2E+00	5.3E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
245	2.0E+01	9.5E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11	6.4E+00	5.3E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.3E-11
246	2.0E+01	9.5E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11	6.7E+00	5.3E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.7E-11
247	2.1E+01	9.5E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11	7.0E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.0E-11
248	2.2E+01	9.5E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11	7.3E+00	5.3E-07	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.3E-11
249	2.3E+01	9.5E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11	7.6E+00	5.3E-07	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.7E-11
250	2.4E+01	9.5E-08	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11	8.0E+00	5.3E-07	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.1E-11
251	2.5E+01	9.5E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11	8.3E+00	5.3E-07	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.5E-11
252	2.0E+01	9.5E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11	6.5E+00	5.3E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
253	2.1E+01	9.5E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11	6.8E+00	5.3E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.7E-11
254	2.3E+01	9.5E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11	7.1E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11
255	2.4E+01	9.5E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11	7.4E+00	5.3E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.5E-11
256	2.5E+01	9.5E-08	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.1E-11	7.8E+00	5.3E-07	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.9E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
257	2.6E+01	9.5E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11	8.1E+00	5.3E-07	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.3E-11
258	2.7E+01	9.5E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11	8.5E+00	5.3E-07	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.7E-11
259	2.8E+01	9.5E-08	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11	8.9E+00	5.3E-07	1.0E-03	4.9E-09	1.6E-01	1.3E-01	1.0E-10
260	3.0E+01	9.5E-08	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.1E-11	9.4E+00	5.3E-07	1.0E-03	5.2E-09	1.6E-01	1.3E-01	1.1E-10
261	2.4E+01	9.5E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11	7.1E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.2E-11
262	2.5E+01	9.5E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11	7.5E+00	5.3E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.6E-11
263	2.6E+01	9.5E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11	7.9E+00	5.3E-07	1.0E-03	4.3E-09	1.6E-01	1.3E-01	9.0E-11
264	2.7E+01	9.5E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11	8.3E+00	5.3E-07	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.4E-11
265	2.9E+01	9.5E-08	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11	8.7E+00	5.3E-07	1.0E-03	4.8E-09	1.6E-01	1.3E-01	9.9E-11
266	3.1E+01	9.5E-08	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.3E-11	9.2E+00	5.3E-07	1.0E-03	5.1E-09	1.6E-01	1.3E-01	1.0E-10
267	3.2E+01	9.5E-08	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11	9.7E+00	5.3E-07	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10
268	3.4E+01	9.5E-08	1.0E-03	3.4E-09	1.6E-01	1.3E-01	6.9E-11	1.0E+01	5.3E-07	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.2E-10
269	3.5E+01	9.5E-08	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11	1.1E+01	5.3E-07	1.0E-03	5.9E-09	1.6E-01	1.3E-01	1.2E-10
270	3.7E+01	9.5E-08	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.6E-11	1.1E+01	5.3E-07	1.0E-03	6.3E-09	1.6E-01	1.3E-01	1.3E-10
271	2.8E+01	9.5E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11	8.0E+00	5.3E-07	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.1E-11
272	2.9E+01	9.5E-08	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11	8.4E+00	5.3E-07	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.6E-11
273	3.1E+01	9.5E-08	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11	8.8E+00	5.3E-07	1.0E-03	4.9E-09	1.6E-01	1.3E-01	1.0E-10
274	3.3E+01	9.5E-08	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.7E-11	9.4E+00	5.3E-07	1.0E-03	5.2E-09	1.6E-01	1.3E-01	1.1E-10
275	3.5E+01	9.5E-08	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.1E-11	9.9E+00	5.3E-07	1.0E-03	5.5E-09	1.6E-01	1.3E-01	1.1E-10
276	3.7E+01	9.5E-08	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.5E-11	1.0E+01	5.3E-07	1.0E-03	5.8E-09	1.6E-01	1.3E-01	1.2E-10
277	3.9E+01	9.5E-08	1.0E-03	3.8E-09	1.6E-01	1.3E-01	7.9E-11	1.1E+01	5.3E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
278	4.1E+01	9.5E-08	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.4E-11	1.2E+01	5.3E-07	1.0E-03	6.5E-09	1.6E-01	1.3E-01	1.3E-10
279	4.3E+01	9.5E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.8E-11	1.2E+01	5.3E-07	1.0E-03	6.9E-09	1.6E-01	1.3E-01	1.4E-10
280	4.5E+01	9.5E-08	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.3E-11	1.3E+01	5.3E-07	1.0E-03	7.4E-09	1.6E-01	1.3E-01	1.5E-10
281	4.8E+01	9.5E-08	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.8E-11	1.4E+01	5.3E-07	1.0E-03	7.8E-09	1.6E-01	1.3E-01	1.6E-10
282	3.3E+01	9.5E-08	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11	9.0E+00	5.3E-07	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10
283	3.5E+01	9.5E-08	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.2E-11	9.5E+00	5.3E-07	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10
284	3.7E+01	9.5E-08	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.6E-11	1.0E+01	5.3E-07	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.2E-10
285	4.0E+01	9.5E-08	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11	1.1E+01	5.3E-07	1.0E-03	5.9E-09	1.6E-01	1.3E-01	1.2E-10
286	4.2E+01	9.5E-08	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.6E-11	1.1E+01	5.3E-07	1.0E-03	6.3E-09	1.6E-01	1.3E-01	1.3E-10
287	4.5E+01	9.5E-08	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.2E-11	1.2E+01	5.3E-07	1.0E-03	6.7E-09	1.6E-01	1.3E-01	1.4E-10
288	4.8E+01	9.5E-08	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.7E-11	1.3E+01	5.3E-07	1.0E-03	7.2E-09	1.6E-01	1.3E-01	1.5E-10

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
289	5.1E+01	9.5E-08	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10	1.4E+01	5.3E-07	1.0E-03	7.7E-09	1.6E-01	1.3E-01	1.6E-10
290	5.4E+01	9.5E-08	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10	1.5E+01	5.3E-07	1.0E-03	8.3E-09	1.6E-01	1.3E-01	1.7E-10
291	5.7E+01	9.5E-08	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.2E-10	1.6E+01	5.3E-07	1.0E-03	8.9E-09	1.6E-01	1.3E-01	1.8E-10
292	5.9E+01	9.5E-08	1.0E-03	5.9E-09	1.6E-01	1.3E-01	1.2E-10	1.7E+01	5.3E-07	1.0E-03	9.5E-09	1.6E-01	1.3E-01	2.0E-10
293	4.3E+01	9.5E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.8E-11	1.1E+01	5.3E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
294	4.6E+01	9.5E-08	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.4E-11	1.2E+01	5.3E-07	1.0E-03	6.5E-09	1.6E-01	1.3E-01	1.3E-10
295	4.9E+01	9.5E-08	1.0E-03	4.9E-09	1.6E-01	1.3E-01	1.0E-10	1.3E+01	5.3E-07	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10
296	5.3E+01	9.5E-08	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10	1.4E+01	5.3E-07	1.0E-03	7.5E-09	1.6E-01	1.3E-01	1.6E-10
297	5.7E+01	9.5E-08	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.2E-10	1.5E+01	5.3E-07	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10
298	6.1E+01	9.5E-08	1.0E-03	6.0E-09	1.6E-01	1.3E-01	1.2E-10	1.6E+01	5.3E-07	1.0E-03	8.7E-09	1.6E-01	1.3E-01	1.8E-10
299	6.5E+01	9.5E-08	1.0E-03	6.4E-09	1.6E-01	1.3E-01	1.3E-10	1.7E+01	5.3E-07	1.0E-03	9.4E-09	1.6E-01	1.3E-01	2.0E-10
300	6.9E+01	9.5E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	1.8E+01	5.3E-07	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10
301	7.3E+01	9.5E-08	1.0E-03	7.2E-09	1.6E-01	1.3E-01	1.5E-10	2.0E+01	5.3E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10
302	7.6E+01	9.5E-08	1.0E-03	7.6E-09	1.6E-01	1.3E-01	1.6E-10	2.2E+01	5.3E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.5E-10
303	7.9E+01	9.5E-08	1.0E-03	7.8E-09	1.6E-01	1.3E-01	1.6E-10	2.3E+01	5.3E-07	1.0E-03	1.3E-08	1.6E-01	1.3E-01	2.7E-10
304	5.4E+01	9.5E-08	1.0E-03	5.4E-09	1.6E-01	1.3E-01	1.1E-10	1.3E+01	5.3E-07	1.0E-03	7.2E-09	1.6E-01	1.3E-01	1.5E-10
305	5.8E+01	9.5E-08	1.0E-03	5.8E-09	1.6E-01	1.3E-01	1.2E-10	1.4E+01	5.3E-07	1.0E-03	7.8E-09	1.6E-01	1.3E-01	1.6E-10
306	6.3E+01	9.5E-08	1.0E-03	6.3E-09	1.6E-01	1.3E-01	1.3E-10	1.5E+01	5.3E-07	1.0E-03	8.4E-09	1.6E-01	1.3E-01	1.7E-10
307	6.9E+01	9.5E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	1.7E+01	5.3E-07	1.0E-03	9.2E-09	1.6E-01	1.3E-01	1.9E-10
308	7.4E+01	9.5E-08	1.0E-03	7.4E-09	1.6E-01	1.3E-01	1.5E-10	1.8E+01	5.3E-07	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10
309	8.0E+01	9.5E-08	1.0E-03	8.0E-09	1.6E-01	1.3E-01	1.6E-10	2.0E+01	5.3E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10
310	8.7E+01	9.5E-08	1.0E-03	8.6E-09	1.6E-01	1.3E-01	1.8E-10	2.2E+01	5.3E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.5E-10
311	9.2E+01	9.5E-08	1.0E-03	9.2E-09	1.6E-01	1.3E-01	1.9E-10	2.4E+01	5.3E-07	1.0E-03	1.3E-08	1.6E-01	1.3E-01	2.8E-10
312	9.7E+01	9.5E-08	1.0E-03	9.6E-09	1.6E-01	1.3E-01	2.0E-10	2.6E+01	5.3E-07	1.0E-03	1.5E-08	1.6E-01	1.3E-01	3.0E-10
313	1.0E+02	9.5E-08	1.0E-03	9.9E-09	1.6E-01	1.3E-01	2.1E-10	2.9E+01	5.3E-07	1.0E-03	1.6E-08	1.6E-01	1.3E-01	3.3E-10
314	1.0E+02	9.5E-08	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10	3.1E+01	5.3E-07	1.0E-03	1.7E-08	1.6E-01	1.3E-01	3.6E-10
315	9.7E+01	9.5E-08	1.0E-03	9.6E-09	1.6E-01	1.3E-01	2.0E-10	3.3E+01	5.3E-07	1.0E-03	1.8E-08	1.6E-01	1.3E-01	3.8E-10
316	7.8E+01	9.5E-08	1.0E-03	7.7E-09	1.6E-01	1.3E-01	1.6E-10	1.7E+01	5.3E-07	1.0E-03	9.6E-09	1.6E-01	1.3E-01	2.0E-10
317	8.6E+01	9.5E-08	1.0E-03	8.5E-09	1.6E-01	1.3E-01	1.8E-10	1.9E+01	5.3E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.2E-10
318	9.5E+01	9.5E-08	1.0E-03	9.4E-09	1.6E-01	1.3E-01	1.9E-10	2.1E+01	5.3E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.4E-10
319	1.0E+02	9.5E-08	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10	2.4E+01	5.3E-07	1.0E-03	1.3E-08	1.6E-01	1.3E-01	2.7E-10
320	1.1E+02	9.5E-08	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10	2.7E+01	5.3E-07	1.0E-03	1.5E-08	1.6E-01	1.3E-01	3.1E-10

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
321	3.7E+01	9.5E-08	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.6E-11	3.0E+01	5.3E-07	1.0E-03	1.7E-08	1.6E-01	1.3E-01	3.4E-10
322	3.6E+01	9.5E-08	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.5E-11	1.6E+01	5.3E-07	1.0E-03	8.7E-09	1.6E-01	1.3E-01	1.8E-10
323	3.5E+01	9.5E-08	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11	1.7E+01	5.3E-07	1.0E-03	9.5E-09	1.6E-01	1.3E-01	2.0E-10
324	3.4E+01	9.5E-08	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11	1.9E+01	5.3E-07	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10
325	1.1E+02	9.5E-08	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10	2.3E+01	5.3E-07	1.0E-03	1.3E-08	1.6E-01	1.3E-01	2.6E-10
326	4.4E+01	9.5E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	9.0E-11	2.6E+01	5.3E-07	1.0E-03	1.4E-08	1.6E-01	1.3E-01	3.0E-10
327	4.4E+01	9.5E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	9.0E-11	3.0E+01	5.3E-07	1.0E-03	1.7E-08	1.6E-01	1.3E-01	3.4E-10
328	4.3E+01	9.5E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.9E-11	1.5E+01	5.3E-07	1.0E-03	8.5E-09	1.6E-01	1.3E-01	1.8E-10
329	4.2E+01	9.5E-08	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.7E-11	1.7E+01	5.3E-07	1.0E-03	9.2E-09	1.6E-01	1.3E-01	1.9E-10
330	4.1E+01	9.5E-08	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.4E-11	1.8E+01	5.3E-07	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10
331	5.2E+01	9.5E-08	1.0E-03	5.2E-09	1.6E-01	1.3E-01	1.1E-10	1.5E+01	5.3E-07	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10
332	5.2E+01	9.5E-08	1.0E-03	5.1E-09	1.6E-01	1.3E-01	1.1E-10	1.6E+01	5.3E-07	1.0E-03	8.8E-09	1.6E-01	1.3E-01	1.8E-10
333	5.0E+01	9.5E-08	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10	1.8E+01	5.3E-07	1.0E-03	9.7E-09	1.6E-01	1.3E-01	2.0E-10
334	4.8E+01	9.5E-08	1.0E-03	4.8E-09	1.6E-01	1.3E-01	9.9E-11	1.9E+01	5.3E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.2E-10
335	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	4.4E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
336	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
337	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.8E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
338	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
339	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.1E-11
340	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
341	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	4.8E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
342	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
343	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
344	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
345	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.8E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
346	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	5.0E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
347	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
348	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
349	1.6E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
350	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
351	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
352	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
353	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
354	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
355	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
356	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
357	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
358	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
359	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
360	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
361	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
362	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.8E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
363	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
364	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11	4.4E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
365	1.7E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11	4.6E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
366	1.8E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11	4.8E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
367	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
368	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
369	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
370	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.8E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
371	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
372	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
373	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
374	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
375	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
376	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
377	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
378	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
379	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
380	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
381	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.4E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
382	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.6E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
383	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.1E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
384	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
385	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
386	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
387	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
388	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
389	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
390	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
391	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
392	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
393	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
394	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.4E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
395	1.5E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	3.9E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
396	1.6E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.1E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
397	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
398	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
399	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.9E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
400	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
401	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
402	1.8E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
403	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
404	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	3.9E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
405	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
406	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
407	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
408	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	3.9E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
409	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
410	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
411	1.4E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
412	1.5E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
413	1.6E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
414	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
415	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
416	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
417	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	3.9E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
418	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.1E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
419	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
420	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.2E-11
421	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
422	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
423	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.5E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.0E-11
424	1.4E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
425	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
426	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	3.9E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
427	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
428	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
429	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.7E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
430	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	3.9E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
431	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
432	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
433	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
434	1.5E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
435	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
436	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
437	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
438	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.7E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
439	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	3.3E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11
440	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
441	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
442	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
443	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	3.3E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11
444	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
445	1.3E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
446	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
447	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	3.2E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11
448	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	3.3E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
450	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
451	6.3E+00	9.5E-08	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.1E-11
452	6.2E+00	9.5E-08	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11	4.6E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
453	6.0E+00	9.5E-08	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11	4.8E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.5E-11
454	5.8E+00	9.5E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
455	7.8E+00	9.5E-08	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11	5.1E+00	5.3E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
456	7.6E+00	9.5E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.6E-11	5.4E+00	5.3E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
457	7.3E+00	9.5E-08	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11	5.6E+00	5.3E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
458	6.9E+00	9.5E-08	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11	5.8E+00	5.3E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
459	9.8E+00	9.5E-08	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11	6.0E+00	5.3E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
460	9.6E+00	9.5E-08	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11	6.4E+00	5.3E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
461	9.1E+00	9.5E-08	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11	6.7E+00	5.3E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.7E-11
462	4.7E+00	9.5E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.6E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
463	5.6E+00	9.5E-08	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
464	4.5E+00	9.5E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.2E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
465	5.3E+00	9.5E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
466	6.4E+00	9.5E-08	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11
467	7.9E+00	9.5E-08	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11	2.8E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11
468	4.3E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.8E-12	1.9E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
469	5.0E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	2.1E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11
470	6.1E+00	9.5E-08	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
471	7.5E+00	9.5E-08	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11	2.6E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
472	4.8E+00	9.5E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.7E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
473	5.7E+00	9.5E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
474	6.9E+00	9.5E-08	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11	2.5E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
475	4.4E+00	9.5E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.1E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
476	5.3E+00	9.5E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	2.1E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
477	6.4E+00	9.5E-08	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11

5. Risk by Construction Phase

f. Risk From BC - Unmitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	3.8E-03	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	5.5E-04	2.7E-03
2	3.0E-01	3.8E-03	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	5.8E-04	2.9E-03
3	3.1E-01	3.8E-03	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	6.1E-04	3.1E-03
4	3.2E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	6.4E-04	3.2E-03
5	3.3E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	6.8E-04	3.4E-03
6	3.4E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	7.2E-04	3.6E-03
7	3.5E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	7.5E-04	3.8E-03
8	3.6E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	7.9E-04	4.0E-03
9	3.7E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	8.4E-04	4.2E-03
10	3.8E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	8.8E-04	4.4E-03
11	4.0E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	9.3E-04	4.7E-03
12	4.1E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	9.8E-04	4.9E-03
13	4.3E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	1.0E-03	5.1E-03
14	4.3E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	1.0E-03	5.2E-03
15	4.3E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	1.0E-03	5.2E-03
16	4.2E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	1.0E-03	5.1E-03
17	3.2E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	5.9E-04	2.9E-03
18	3.4E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	6.3E-04	3.1E-03
19	3.6E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	6.7E-04	3.4E-03
20	3.7E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	7.1E-04	3.6E-03
21	3.9E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	7.6E-04	3.8E-03
22	4.0E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	8.0E-04	4.0E-03
23	5.2E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	1.2E-03	6.0E-03
24	5.3E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	1.2E-03	6.2E-03
25	5.3E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	1.3E-03	6.3E-03
26	5.2E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	1.2E-03	6.2E-03
27	5.0E-01	3.8E-03	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	1.2E-03	6.0E-03
28	3.5E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	6.2E-04	3.1E-03
29	4.1E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	7.3E-04	3.7E-03
30	4.3E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	7.9E-04	3.9E-03
31	4.6E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	8.5E-04	4.2E-03
32	4.8E-01	3.8E-03	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	9.2E-04	4.6E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	3.8E-03	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	9.8E-04	4.9E-03
34	5.2E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	1.0E-03	5.2E-03
35	5.5E-01	3.8E-03	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	1.1E-03	5.6E-03
36	5.7E-01	3.8E-03	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	1.2E-03	6.0E-03
37	6.3E-01	3.8E-03	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	1.4E-03	6.9E-03
38	6.6E-01	3.8E-03	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	1.5E-03	7.3E-03
39	6.7E-01	3.8E-03	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07	1.5E-03	7.6E-03
40	6.5E-01	3.8E-03	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	1.5E-03	7.6E-03
41	6.2E-01	3.8E-03	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	1.5E-03	7.5E-03
42	5.9E-01	3.8E-03	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07	1.4E-03	7.2E-03
43	3.9E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	6.6E-04	3.3E-03
44	4.3E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	7.2E-04	3.6E-03
45	4.7E-01	3.8E-03	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	8.0E-04	4.0E-03
46	5.5E-01	3.8E-03	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	9.5E-04	4.8E-03
47	5.9E-01	3.8E-03	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	1.0E-03	5.2E-03
48	6.2E-01	3.8E-03	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	1.1E-03	5.6E-03
49	6.5E-01	3.8E-03	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	1.2E-03	6.1E-03
50	6.9E-01	3.8E-03	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.0E-07	1.3E-03	6.6E-03
51	7.3E-01	3.8E-03	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	1.4E-03	7.2E-03
52	8.2E-01	3.8E-03	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07	1.7E-03	8.4E-03
53	8.6E-01	3.8E-03	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.8E-07	1.8E-03	9.0E-03
54	8.8E-01	3.8E-03	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	1.9E-03	9.5E-03
55	8.9E-01	3.8E-03	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	2.0E-03	9.8E-03
56	8.9E-01	3.8E-03	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	2.0E-03	9.9E-03
57	8.1E-01	3.8E-03	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07	1.9E-03	9.4E-03
58	7.6E-01	3.8E-03	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07	1.8E-03	9.0E-03
59	7.0E-01	3.8E-03	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07	1.7E-03	8.6E-03
60	4.2E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07	6.9E-04	3.4E-03
61	4.7E-01	3.8E-03	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	7.7E-04	3.8E-03
62	5.3E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	8.6E-04	4.3E-03
63	5.9E-01	3.8E-03	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	9.6E-04	4.8E-03
64	6.6E-01	3.8E-03	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	1.1E-03	5.3E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	3.8E-03	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07	1.4E-03	7.2E-03
66	9.1E-01	3.8E-03	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07	1.6E-03	7.9E-03
67	9.7E-01	3.8E-03	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07	1.7E-03	8.7E-03
68	1.1E+00	3.8E-03	1.0E-03	4.5E-06	1.6E-01	7.0E-01	4.9E-07	2.1E-03	1.1E-02
69	1.2E+00	3.8E-03	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07	2.3E-03	1.2E-02
70	1.2E+00	3.8E-03	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07	2.5E-03	1.2E-02
71	1.2E+00	3.8E-03	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07	2.6E-03	1.3E-02
72	1.2E+00	3.8E-03	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07	2.6E-03	1.3E-02
73	4.4E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07	7.1E-04	3.5E-03
74	5.0E-01	3.8E-03	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	8.0E-04	4.0E-03
75	5.8E-01	3.8E-03	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	9.0E-04	4.5E-03
76	6.7E-01	3.8E-03	1.0E-03	2.7E-06	1.6E-01	7.0E-01	2.9E-07	1.0E-03	5.2E-03
77	7.7E-01	3.8E-03	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07	1.2E-03	5.9E-03
78	8.8E-01	3.8E-03	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	1.3E-03	6.7E-03
79	1.0E+00	3.8E-03	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07	1.5E-03	7.6E-03
80	1.4E+00	3.8E-03	1.0E-03	5.4E-06	1.6E-01	7.0E-01	6.0E-07	2.2E-03	1.1E-02
81	1.6E+00	3.8E-03	1.0E-03	6.5E-06	1.6E-01	7.0E-01	7.2E-07	2.8E-03	1.4E-02
82	1.7E+00	3.8E-03	1.0E-03	6.8E-06	1.6E-01	7.0E-01	7.5E-07	3.1E-03	1.6E-02
83	1.7E+00	3.8E-03	1.0E-03	6.9E-06	1.6E-01	7.0E-01	7.7E-07	3.4E-03	1.7E-02
84	1.7E+00	3.8E-03	1.0E-03	6.9E-06	1.6E-01	7.0E-01	7.6E-07	3.5E-03	1.8E-02
85	1.7E+00	3.8E-03	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.3E-07	3.6E-03	1.8E-02
86	4.5E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	7.0E-04	3.5E-03
87	5.2E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	8.1E-04	4.1E-03
88	6.2E-01	3.8E-03	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	9.4E-04	4.7E-03
89	7.4E-01	3.8E-03	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	1.1E-03	5.5E-03
90	8.8E-01	3.8E-03	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	1.3E-03	6.4E-03
91	1.1E+00	3.8E-03	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07	1.5E-03	7.6E-03
92	1.3E+00	3.8E-03	1.0E-03	5.1E-06	1.6E-01	7.0E-01	5.6E-07	1.8E-03	8.9E-03
93	1.5E+00	3.8E-03	1.0E-03	6.0E-06	1.6E-01	7.0E-01	6.6E-07	2.1E-03	1.0E-02
94	1.8E+00	3.8E-03	1.0E-03	7.1E-06	1.6E-01	7.0E-01	7.8E-07	2.5E-03	1.2E-02
95	2.6E+00	3.8E-03	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.2E-06	5.4E-03	2.7E-02
96	2.4E+00	3.8E-03	1.0E-03	9.6E-06	1.6E-01	7.0E-01	1.1E-06	5.4E-03	2.7E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	7.2E-04	3.6E-03
98	5.4E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07	8.2E-04	4.1E-03
99	6.4E-01	3.8E-03	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	9.5E-04	4.8E-03
100	1.2E+00	3.8E-03	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.4E-07	1.7E-03	8.3E-03
101	1.5E+00	3.8E-03	1.0E-03	6.2E-06	1.6E-01	7.0E-01	6.8E-07	2.0E-03	1.0E-02
102	2.0E+00	3.8E-03	1.0E-03	8.0E-06	1.6E-01	7.0E-01	8.8E-07	2.5E-03	1.3E-02
103	2.6E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	3.2E-03	1.6E-02
104	4.5E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	7.0E-04	3.5E-03
105	5.3E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	8.1E-04	4.1E-03
106	6.4E-01	3.8E-03	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	9.5E-04	4.8E-03
107	2.5E+00	3.8E-03	1.0E-03	9.9E-06	1.6E-01	7.0E-01	1.1E-06	3.0E-03	1.5E-02
108	3.8E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06	4.2E-03	2.1E-02
109	4.3E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	6.7E-04	3.4E-03
110	5.1E-01	3.8E-03	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	7.8E-04	3.9E-03
111	6.2E-01	3.8E-03	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	9.2E-04	4.6E-03
112	2.8E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	3.2E-03	1.6E-02
113	4.7E+00	3.8E-03	1.0E-03	1.9E-05	1.6E-01	7.0E-01	2.1E-06	5.0E-03	2.5E-02
114	4.0E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	6.4E-04	3.2E-03
115	4.8E-01	3.8E-03	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	7.4E-04	3.7E-03
116	5.8E-01	3.8E-03	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	8.8E-04	4.4E-03
117	7.2E-01	3.8E-03	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	1.1E-03	5.3E-03
118	2.7E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	3.2E-03	1.6E-02
119	4.7E+00	3.8E-03	1.0E-03	1.9E-05	1.6E-01	7.0E-01	2.1E-06	5.2E-03	2.6E-02
120	3.7E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	6.1E-04	3.0E-03
121	4.4E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07	7.0E-04	3.5E-03
122	5.3E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	8.2E-04	4.1E-03
123	6.6E-01	3.8E-03	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	9.8E-04	4.9E-03
124	2.3E+00	3.8E-03	1.0E-03	9.2E-06	1.6E-01	7.0E-01	1.0E-06	2.9E-03	1.4E-02
125	4.0E+00	3.8E-03	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.8E-06	4.7E-03	2.3E-02
126	3.5E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	5.7E-04	2.9E-03
127	4.1E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	6.6E-04	3.3E-03
128	4.9E-01	3.8E-03	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	7.6E-04	3.8E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	3.8E-03	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07	9.1E-04	4.5E-03
130	7.4E-01	3.8E-03	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07	1.1E-03	5.5E-03
131	9.7E-01	3.8E-03	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.3E-07	1.4E-03	6.9E-03
132	1.3E+00	3.8E-03	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.8E-07	1.8E-03	8.9E-03
133	1.9E+00	3.8E-03	1.0E-03	7.6E-06	1.6E-01	7.0E-01	8.4E-07	2.5E-03	1.2E-02
134	3.0E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	3.7E-03	1.9E-02
135	5.4E+00	3.8E-03	1.0E-03	2.1E-05	1.6E-01	7.0E-01	2.4E-06	6.5E-03	3.3E-02
136	3.2E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	5.4E-04	2.7E-03
137	3.8E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	6.2E-04	3.1E-03
138	4.5E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	7.1E-04	3.6E-03
139	5.4E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07	8.4E-04	4.2E-03
140	6.6E-01	3.8E-03	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	1.0E-03	5.0E-03
141	8.4E-01	3.8E-03	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.7E-07	1.2E-03	6.2E-03
142	1.1E+00	3.8E-03	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.9E-07	1.6E-03	7.8E-03
143	1.5E+00	3.8E-03	1.0E-03	6.0E-06	1.6E-01	7.0E-01	6.6E-07	2.1E-03	1.0E-02
144	2.1E+00	3.8E-03	1.0E-03	8.4E-06	1.6E-01	7.0E-01	9.3E-07	2.8E-03	1.4E-02
145	3.1E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.4E-06	4.1E-03	2.0E-02
146	3.0E-01	3.8E-03	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	5.1E-04	2.6E-03
147	3.5E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	5.8E-04	2.9E-03
148	4.1E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	6.6E-04	3.3E-03
149	4.8E-01	3.8E-03	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	7.7E-04	3.9E-03
150	5.9E-01	3.8E-03	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	9.1E-04	4.5E-03
151	7.2E-01	3.8E-03	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	1.1E-03	5.5E-03
152	9.0E-01	3.8E-03	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07	1.3E-03	6.6E-03
153	1.2E+00	3.8E-03	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.1E-07	1.7E-03	8.4E-03
154	1.5E+00	3.8E-03	1.0E-03	5.8E-06	1.6E-01	7.0E-01	6.4E-07	2.1E-03	1.0E-02
155	1.9E+00	3.8E-03	1.0E-03	7.5E-06	1.6E-01	7.0E-01	8.3E-07	2.7E-03	1.4E-02
156	2.8E-01	3.8E-03	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.8E-04	2.4E-03
157	3.2E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	5.4E-04	2.7E-03
158	3.7E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	6.2E-04	3.1E-03
159	4.3E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	7.1E-04	3.5E-03
160	5.2E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	8.2E-04	4.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	3.8E-03	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	9.7E-04	4.8E-03
162	7.4E-01	3.8E-03	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07	1.1E-03	5.7E-03
163	9.0E-01	3.8E-03	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07	1.4E-03	6.8E-03
164	1.1E+00	3.8E-03	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.7E-07	1.6E-03	8.1E-03
165	1.3E+00	3.8E-03	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.8E-07	2.0E-03	1.0E-02
166	2.6E-01	3.8E-03	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	4.6E-04	2.3E-03
167	2.9E-01	3.8E-03	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	5.1E-04	2.5E-03
168	3.4E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	5.7E-04	2.9E-03
169	3.9E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	6.5E-04	3.2E-03
170	4.5E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	7.4E-04	3.7E-03
171	5.3E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	8.6E-04	4.3E-03
172	6.1E-01	3.8E-03	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07	9.8E-04	4.9E-03
173	7.1E-01	3.8E-03	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07	1.1E-03	5.7E-03
174	8.2E-01	3.8E-03	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07	1.3E-03	6.6E-03
175	9.5E-01	3.8E-03	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.5E-03	7.7E-03
176	2.4E-01	3.8E-03	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07	4.3E-04	2.1E-03
177	2.7E-01	3.8E-03	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.8E-04	2.4E-03
178	3.0E-01	3.8E-03	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	5.3E-04	2.6E-03
179	3.5E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	5.9E-04	3.0E-03
180	3.9E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	6.7E-04	3.3E-03
181	4.5E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	7.6E-04	3.8E-03
182	5.1E-01	3.8E-03	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	8.5E-04	4.3E-03
183	5.7E-01	3.8E-03	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	9.6E-04	4.8E-03
184	6.4E-01	3.8E-03	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	1.1E-03	5.4E-03
185	7.2E-01	3.8E-03	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	1.2E-03	6.1E-03
186	5.9E-01	3.8E-03	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	1.2E-03	6.2E-03
187	5.2E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	1.2E-03	5.9E-03
188	4.7E-01	3.8E-03	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.0E-07	1.1E-03	5.6E-03
189	2.2E-01	3.8E-03	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.8E-08	4.0E-04	2.0E-03
190	2.5E-01	3.8E-03	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07	4.4E-04	2.2E-03
191	2.7E-01	3.8E-03	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.9E-04	2.4E-03
192	3.1E-01	3.8E-03	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	5.4E-04	2.7E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	6.0E-04	3.0E-03
194	3.8E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	6.7E-04	3.3E-03
195	4.3E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	7.4E-04	3.7E-03
196	4.7E-01	3.8E-03	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	8.2E-04	4.1E-03
197	5.6E-01	3.8E-03	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07	1.0E-03	5.0E-03
198	6.1E-01	3.8E-03	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07	1.2E-03	5.9E-03
199	5.7E-01	3.8E-03	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	1.1E-03	5.7E-03
200	5.3E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07	1.1E-03	5.5E-03
201	4.9E-01	3.8E-03	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	1.1E-03	5.3E-03
202	4.5E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	1.0E-03	5.0E-03
203	4.1E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	9.6E-04	4.8E-03
204	2.0E-01	3.8E-03	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08	3.8E-04	1.9E-03
205	2.3E-01	3.8E-03	1.0E-03	9.0E-07	1.6E-01	7.0E-01	9.9E-08	4.1E-04	2.1E-03
206	2.5E-01	3.8E-03	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	4.5E-04	2.3E-03
207	2.7E-01	3.8E-03	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	5.0E-04	2.5E-03
208	3.0E-01	3.8E-03	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	5.4E-04	2.7E-03
209	3.3E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	6.0E-04	3.0E-03
210	3.6E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	6.5E-04	3.3E-03
211	4.2E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	7.7E-04	3.9E-03
212	4.5E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	8.3E-04	4.1E-03
213	5.0E-01	3.8E-03	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	9.6E-04	4.8E-03
214	5.0E-01	3.8E-03	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	9.7E-04	4.8E-03
215	4.9E-01	3.8E-03	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	9.7E-04	4.9E-03
216	4.7E-01	3.8E-03	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	9.5E-04	4.8E-03
217	4.4E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	9.3E-04	4.6E-03
218	4.2E-01	3.8E-03	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07	9.0E-04	4.5E-03
219	3.9E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	8.7E-04	4.3E-03
220	3.5E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	8.2E-04	4.1E-03
221	1.9E-01	3.8E-03	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08	3.5E-04	1.8E-03
222	2.1E-01	3.8E-03	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.1E-08	3.8E-04	1.9E-03
223	2.2E-01	3.8E-03	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08	4.2E-04	2.1E-03
224	2.5E-01	3.8E-03	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07	4.5E-04	2.3E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	3.8E-03	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.9E-04	2.5E-03
226	3.1E-01	3.8E-03	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	5.8E-04	2.9E-03
227	3.3E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	6.3E-04	3.1E-03
228	3.5E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	6.6E-04	3.3E-03
229	3.7E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	7.1E-04	3.5E-03
230	4.0E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	8.0E-04	4.0E-03
231	4.0E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	8.1E-04	4.0E-03
232	4.0E-01	3.8E-03	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	8.2E-04	4.1E-03
233	3.9E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	8.0E-04	4.0E-03
234	3.7E-01	3.8E-03	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	7.9E-04	4.0E-03
235	3.5E-01	3.8E-03	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	7.7E-04	3.9E-03
236	3.3E-01	3.8E-03	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	7.4E-04	3.7E-03
237	3.1E-01	3.8E-03	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	7.2E-04	3.6E-03
238	1.8E+00	3.8E-03	1.0E-03	7.1E-06	1.6E-01	7.0E-01	7.9E-07	2.8E-03	1.4E-02
239	1.8E+00	3.8E-03	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.0E-07	2.9E-03	1.5E-02
240	1.9E+00	3.8E-03	1.0E-03	7.4E-06	1.6E-01	7.0E-01	8.2E-07	3.0E-03	1.5E-02
241	1.9E+00	3.8E-03	1.0E-03	7.5E-06	1.6E-01	7.0E-01	8.3E-07	3.1E-03	1.5E-02
242	1.9E+00	3.8E-03	1.0E-03	7.6E-06	1.6E-01	7.0E-01	8.4E-07	3.1E-03	1.6E-02
243	1.9E+00	3.8E-03	1.0E-03	7.7E-06	1.6E-01	7.0E-01	8.5E-07	3.2E-03	1.6E-02
244	2.0E+00	3.8E-03	1.0E-03	7.8E-06	1.6E-01	7.0E-01	8.6E-07	3.0E-03	1.5E-02
245	2.0E+00	3.8E-03	1.0E-03	7.9E-06	1.6E-01	7.0E-01	8.8E-07	3.1E-03	1.6E-02
246	2.0E+00	3.8E-03	1.0E-03	8.1E-06	1.6E-01	7.0E-01	9.0E-07	3.2E-03	1.6E-02
247	2.1E+00	3.8E-03	1.0E-03	8.2E-06	1.6E-01	7.0E-01	9.1E-07	3.3E-03	1.6E-02
248	2.1E+00	3.8E-03	1.0E-03	8.4E-06	1.6E-01	7.0E-01	9.2E-07	3.4E-03	1.7E-02
249	2.1E+00	3.8E-03	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.4E-07	3.4E-03	1.7E-02
250	2.2E+00	3.8E-03	1.0E-03	8.6E-06	1.6E-01	7.0E-01	9.5E-07	3.5E-03	1.8E-02
251	2.2E+00	3.8E-03	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07	3.6E-03	1.8E-02
252	2.2E+00	3.8E-03	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07	3.3E-03	1.6E-02
253	2.2E+00	3.8E-03	1.0E-03	8.9E-06	1.6E-01	7.0E-01	9.8E-07	3.4E-03	1.7E-02
254	2.3E+00	3.8E-03	1.0E-03	9.1E-06	1.6E-01	7.0E-01	1.0E-06	3.5E-03	1.7E-02
255	2.3E+00	3.8E-03	1.0E-03	9.2E-06	1.6E-01	7.0E-01	1.0E-06	3.6E-03	1.8E-02
256	2.3E+00	3.8E-03	1.0E-03	9.4E-06	1.6E-01	7.0E-01	1.0E-06	3.7E-03	1.8E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	3.8E-03	1.0E-03	9.5E-06	1.6E-01	7.0E-01	1.0E-06	3.8E-03	1.9E-02
258	2.4E+00	3.8E-03	1.0E-03	9.6E-06	1.6E-01	7.0E-01	1.1E-06	3.9E-03	1.9E-02
259	2.4E+00	3.8E-03	1.0E-03	9.7E-06	1.6E-01	7.0E-01	1.1E-06	4.0E-03	2.0E-02
260	2.5E+00	3.8E-03	1.0E-03	9.8E-06	1.6E-01	7.0E-01	1.1E-06	4.1E-03	2.0E-02
261	2.5E+00	3.8E-03	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06	3.7E-03	1.9E-02
262	2.6E+00	3.8E-03	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06	3.8E-03	1.9E-02
263	2.6E+00	3.8E-03	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06	4.0E-03	2.0E-02
264	2.6E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	4.1E-03	2.0E-02
265	2.7E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	4.2E-03	2.1E-02
266	2.7E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	4.3E-03	2.1E-02
267	2.7E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	4.4E-03	2.2E-02
268	2.7E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	4.5E-03	2.3E-02
269	2.8E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	4.6E-03	2.3E-02
270	2.8E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	4.7E-03	2.4E-02
271	2.9E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	4.3E-03	2.1E-02
272	3.0E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	4.4E-03	2.2E-02
273	3.0E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	4.5E-03	2.3E-02
274	3.0E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	4.7E-03	2.3E-02
275	3.0E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	4.8E-03	2.4E-02
276	3.1E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	4.9E-03	2.4E-02
277	3.1E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.4E-06	5.0E-03	2.5E-02
278	3.1E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.4E-06	5.1E-03	2.6E-02
279	3.1E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	5.2E-03	2.6E-02
280	3.0E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	5.3E-03	2.7E-02
281	3.0E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	5.5E-03	2.7E-02
282	3.4E+00	3.8E-03	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.5E-06	4.9E-03	2.5E-02
283	3.4E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	5.1E-03	2.5E-02
284	3.4E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	5.2E-03	2.6E-02
285	3.4E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	5.3E-03	2.7E-02
286	3.4E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	5.5E-03	2.7E-02
287	3.4E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	5.6E-03	2.8E-02
288	3.4E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	5.7E-03	2.9E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	3.8E-03	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.5E-06	5.9E-03	2.9E-02
290	3.3E+00	3.8E-03	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.5E-06	6.0E-03	3.0E-02
291	3.3E+00	3.8E-03	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.5E-06	6.1E-03	3.1E-02
292	3.3E+00	3.8E-03	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.4E-06	6.3E-03	3.1E-02
293	3.9E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06	5.8E-03	2.9E-02
294	3.9E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06	6.0E-03	3.0E-02
295	3.9E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06	6.1E-03	3.1E-02
296	3.8E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06	6.3E-03	3.1E-02
297	3.8E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06	6.4E-03	3.2E-02
298	3.7E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.6E-06	6.6E-03	3.3E-02
299	3.7E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.6E-06	6.8E-03	3.4E-02
300	3.6E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.6E-06	6.9E-03	3.5E-02
301	3.5E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.6E-06	7.1E-03	3.6E-02
302	3.5E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	7.3E-03	3.6E-02
303	3.4E+00	3.8E-03	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.5E-06	7.4E-03	3.7E-02
304	4.4E+00	3.8E-03	1.0E-03	1.7E-05	1.6E-01	7.0E-01	1.9E-06	6.7E-03	3.4E-02
305	4.3E+00	3.8E-03	1.0E-03	1.7E-05	1.6E-01	7.0E-01	1.9E-06	6.9E-03	3.5E-02
306	4.2E+00	3.8E-03	1.0E-03	1.7E-05	1.6E-01	7.0E-01	1.9E-06	7.1E-03	3.6E-02
307	4.2E+00	3.8E-03	1.0E-03	1.7E-05	1.6E-01	7.0E-01	1.8E-06	7.3E-03	3.6E-02
308	4.1E+00	3.8E-03	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.8E-06	7.5E-03	3.8E-02
309	4.0E+00	3.8E-03	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.8E-06	7.7E-03	3.9E-02
310	3.9E+00	3.8E-03	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.7E-06	8.0E-03	4.0E-02
311	3.8E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06	8.2E-03	4.1E-02
312	3.7E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.6E-06	8.4E-03	4.2E-02
313	3.6E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.6E-06	8.6E-03	4.3E-02
314	3.5E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	8.7E-03	4.4E-02
315	3.4E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	8.7E-03	4.4E-02
316	4.7E+00	3.8E-03	1.0E-03	1.9E-05	1.6E-01	7.0E-01	2.1E-06	8.1E-03	4.0E-02
317	4.6E+00	3.8E-03	1.0E-03	1.8E-05	1.6E-01	7.0E-01	2.0E-06	8.4E-03	4.2E-02
318	4.5E+00	3.8E-03	1.0E-03	1.8E-05	1.6E-01	7.0E-01	2.0E-06	8.7E-03	4.3E-02
319	4.4E+00	3.8E-03	1.0E-03	1.7E-05	1.6E-01	7.0E-01	1.9E-06	9.0E-03	4.5E-02
320	4.2E+00	3.8E-03	1.0E-03	1.7E-05	1.6E-01	7.0E-01	1.9E-06	9.4E-03	4.7E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	3.8E-03	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.8E-06	8.3E-03	4.1E-02
322	4.0E+00	3.8E-03	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.8E-06	6.8E-03	3.4E-02
323	3.8E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06	6.7E-03	3.4E-02
324	3.7E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.6E-06	6.7E-03	3.3E-02
325	5.0E+00	3.8E-03	1.0E-03	2.0E-05	1.6E-01	7.0E-01	2.2E-06	9.7E-03	4.9E-02
326	4.9E+00	3.8E-03	1.0E-03	1.9E-05	1.6E-01	7.0E-01	2.1E-06	8.8E-03	4.4E-02
327	4.7E+00	3.8E-03	1.0E-03	1.9E-05	1.6E-01	7.0E-01	2.1E-06	9.1E-03	4.5E-02
328	4.5E+00	3.8E-03	1.0E-03	1.8E-05	1.6E-01	7.0E-01	2.0E-06	7.6E-03	3.8E-02
329	4.4E+00	3.8E-03	1.0E-03	1.7E-05	1.6E-01	7.0E-01	1.9E-06	7.5E-03	3.8E-02
330	4.2E+00	3.8E-03	1.0E-03	1.7E-05	1.6E-01	7.0E-01	1.8E-06	7.5E-03	3.7E-02
331	5.2E+00	3.8E-03	1.0E-03	2.1E-05	1.6E-01	7.0E-01	2.3E-06	8.5E-03	4.3E-02
332	5.0E+00	3.8E-03	1.0E-03	2.0E-05	1.6E-01	7.0E-01	2.2E-06	8.5E-03	4.2E-02
333	4.8E+00	3.8E-03	1.0E-03	1.9E-05	1.6E-01	7.0E-01	2.1E-06	8.4E-03	4.2E-02
334	4.6E+00	3.8E-03	1.0E-03	1.8E-05	1.6E-01	7.0E-01	2.0E-06	8.3E-03	4.2E-02
335	1.7E+00	3.8E-03	1.0E-03	6.9E-06	1.6E-01	7.0E-01	7.6E-07	2.5E-03	1.2E-02
336	1.8E+00	3.8E-03	1.0E-03	7.1E-06	1.6E-01	7.0E-01	7.8E-07	2.6E-03	1.3E-02
337	1.8E+00	3.8E-03	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.0E-07	2.6E-03	1.3E-02
338	1.9E+00	3.8E-03	1.0E-03	7.4E-06	1.6E-01	7.0E-01	8.2E-07	2.7E-03	1.4E-02
339	1.9E+00	3.8E-03	1.0E-03	7.5E-06	1.6E-01	7.0E-01	8.3E-07	2.6E-03	1.3E-02
340	1.9E+00	3.8E-03	1.0E-03	7.7E-06	1.6E-01	7.0E-01	8.5E-07	2.7E-03	1.4E-02
341	2.0E+00	3.8E-03	1.0E-03	7.9E-06	1.6E-01	7.0E-01	8.8E-07	2.8E-03	1.4E-02
342	2.0E+00	3.8E-03	1.0E-03	8.1E-06	1.6E-01	7.0E-01	9.0E-07	2.9E-03	1.4E-02
343	2.0E+00	3.8E-03	1.0E-03	8.1E-06	1.6E-01	7.0E-01	9.0E-07	2.8E-03	1.4E-02
344	2.1E+00	3.8E-03	1.0E-03	8.4E-06	1.6E-01	7.0E-01	9.3E-07	2.9E-03	1.4E-02
345	2.2E+00	3.8E-03	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07	3.0E-03	1.5E-02
346	2.2E+00	3.8E-03	1.0E-03	8.9E-06	1.6E-01	7.0E-01	9.9E-07	3.1E-03	1.5E-02
347	2.2E+00	3.8E-03	1.0E-03	8.8E-06	1.6E-01	7.0E-01	9.8E-07	2.9E-03	1.5E-02
348	2.3E+00	3.8E-03	1.0E-03	9.2E-06	1.6E-01	7.0E-01	1.0E-06	3.1E-03	1.5E-02
349	2.4E+00	3.8E-03	1.0E-03	9.5E-06	1.6E-01	7.0E-01	1.1E-06	3.2E-03	1.6E-02
350	2.5E+00	3.8E-03	1.0E-03	9.9E-06	1.6E-01	7.0E-01	1.1E-06	3.3E-03	1.6E-02
351	2.4E+00	3.8E-03	1.0E-03	9.6E-06	1.6E-01	7.0E-01	1.1E-06	3.1E-03	1.6E-02
352	2.5E+00	3.8E-03	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06	3.3E-03	1.6E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	3.8E-03	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.2E-06	3.4E-03	1.7E-02
354	2.7E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	3.5E-03	1.8E-02
355	2.6E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	3.3E-03	1.7E-02
356	2.8E+00	3.8E-03	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06	3.5E-03	1.7E-02
357	2.9E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	3.6E-03	1.8E-02
358	3.0E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	3.8E-03	1.9E-02
359	2.9E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	3.5E-03	1.8E-02
360	3.1E+00	3.8E-03	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06	3.7E-03	1.9E-02
361	3.2E+00	3.8E-03	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.4E-06	3.9E-03	1.9E-02
362	3.4E+00	3.8E-03	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.5E-06	4.1E-03	2.0E-02
363	3.2E+00	3.8E-03	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.4E-06	3.8E-03	1.9E-02
364	3.4E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	4.0E-03	2.0E-02
365	3.6E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.6E-06	4.2E-03	2.1E-02
366	3.8E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06	4.4E-03	2.2E-02
367	3.5E+00	3.8E-03	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.5E-06	4.0E-03	2.0E-02
368	3.7E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.6E-06	4.3E-03	2.1E-02
369	4.0E+00	3.8E-03	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.8E-06	4.6E-03	2.3E-02
370	4.3E+00	3.8E-03	1.0E-03	1.7E-05	1.6E-01	7.0E-01	1.9E-06	4.8E-03	2.4E-02
371	3.8E+00	3.8E-03	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06	4.3E-03	2.2E-02
372	4.1E+00	3.8E-03	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.8E-06	4.6E-03	2.3E-02
373	4.5E+00	3.8E-03	1.0E-03	1.8E-05	1.6E-01	7.0E-01	2.0E-06	5.0E-03	2.5E-02
374	4.8E+00	3.8E-03	1.0E-03	1.9E-05	1.6E-01	7.0E-01	2.1E-06	5.3E-03	2.7E-02
375	4.2E+00	3.8E-03	1.0E-03	1.7E-05	1.6E-01	7.0E-01	1.8E-06	4.6E-03	2.3E-02
376	4.6E+00	3.8E-03	1.0E-03	1.8E-05	1.6E-01	7.0E-01	2.0E-06	5.0E-03	2.5E-02
377	5.0E+00	3.8E-03	1.0E-03	2.0E-05	1.6E-01	7.0E-01	2.2E-06	5.4E-03	2.7E-02
378	5.5E+00	3.8E-03	1.0E-03	2.2E-05	1.6E-01	7.0E-01	2.4E-06	5.8E-03	2.9E-02
379	4.5E+00	3.8E-03	1.0E-03	1.8E-05	1.6E-01	7.0E-01	2.0E-06	4.9E-03	2.5E-02
380	5.0E+00	3.8E-03	1.0E-03	2.0E-05	1.6E-01	7.0E-01	2.2E-06	5.4E-03	2.7E-02
381	5.6E+00	3.8E-03	1.0E-03	2.2E-05	1.6E-01	7.0E-01	2.4E-06	5.8E-03	2.9E-02
382	6.2E+00	3.8E-03	1.0E-03	2.5E-05	1.6E-01	7.0E-01	2.7E-06	6.4E-03	3.2E-02
383	4.9E+00	3.8E-03	1.0E-03	2.0E-05	1.6E-01	7.0E-01	2.2E-06	5.2E-03	2.6E-02
384	5.5E+00	3.8E-03	1.0E-03	2.2E-05	1.6E-01	7.0E-01	2.4E-06	5.7E-03	2.9E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	3.8E-03	1.0E-03	2.4E-05	1.6E-01	7.0E-01	2.7E-06	6.3E-03	3.2E-02
386	6.9E+00	3.8E-03	1.0E-03	2.8E-05	1.6E-01	7.0E-01	3.1E-06	7.0E-03	3.5E-02
387	5.2E+00	3.8E-03	1.0E-03	2.1E-05	1.6E-01	7.0E-01	2.3E-06	5.5E-03	2.8E-02
388	5.9E+00	3.8E-03	1.0E-03	2.4E-05	1.6E-01	7.0E-01	2.6E-06	6.1E-03	3.1E-02
389	6.7E+00	3.8E-03	1.0E-03	2.7E-05	1.6E-01	7.0E-01	3.0E-06	6.8E-03	3.4E-02
390	7.7E+00	3.8E-03	1.0E-03	3.1E-05	1.6E-01	7.0E-01	3.4E-06	7.6E-03	3.8E-02
391	5.6E+00	3.8E-03	1.0E-03	2.2E-05	1.6E-01	7.0E-01	2.4E-06	5.8E-03	2.9E-02
392	6.3E+00	3.8E-03	1.0E-03	2.5E-05	1.6E-01	7.0E-01	2.8E-06	6.5E-03	3.2E-02
393	7.2E+00	3.8E-03	1.0E-03	2.9E-05	1.6E-01	7.0E-01	3.2E-06	7.2E-03	3.6E-02
394	8.4E+00	3.8E-03	1.0E-03	3.3E-05	1.6E-01	7.0E-01	3.7E-06	8.2E-03	4.1E-02
395	5.8E+00	3.8E-03	1.0E-03	2.3E-05	1.6E-01	7.0E-01	2.6E-06	6.0E-03	3.0E-02
396	6.7E+00	3.8E-03	1.0E-03	2.7E-05	1.6E-01	7.0E-01	2.9E-06	6.8E-03	3.4E-02
397	7.7E+00	3.8E-03	1.0E-03	3.1E-05	1.6E-01	7.0E-01	3.4E-06	7.6E-03	3.8E-02
398	9.1E+00	3.8E-03	1.0E-03	3.6E-05	1.6E-01	7.0E-01	4.0E-06	8.8E-03	4.4E-02
399	6.0E+00	3.8E-03	1.0E-03	2.4E-05	1.6E-01	7.0E-01	2.7E-06	6.2E-03	3.1E-02
400	7.0E+00	3.8E-03	1.0E-03	2.8E-05	1.6E-01	7.0E-01	3.1E-06	7.0E-03	3.5E-02
401	8.1E+00	3.8E-03	1.0E-03	3.2E-05	1.6E-01	7.0E-01	3.6E-06	8.0E-03	4.0E-02
402	9.6E+00	3.8E-03	1.0E-03	3.8E-05	1.6E-01	7.0E-01	4.2E-06	9.2E-03	4.6E-02
403	6.2E+00	3.8E-03	1.0E-03	2.5E-05	1.6E-01	7.0E-01	2.7E-06	6.4E-03	3.2E-02
404	7.2E+00	3.8E-03	1.0E-03	2.9E-05	1.6E-01	7.0E-01	3.2E-06	7.3E-03	3.6E-02
405	8.4E+00	3.8E-03	1.0E-03	3.4E-05	1.6E-01	7.0E-01	3.7E-06	8.3E-03	4.1E-02
406	1.0E+01	3.8E-03	1.0E-03	4.0E-05	1.6E-01	7.0E-01	4.4E-06	9.6E-03	4.8E-02
407	6.3E+00	3.8E-03	1.0E-03	2.5E-05	1.6E-01	7.0E-01	2.8E-06	6.5E-03	3.3E-02
408	7.4E+00	3.8E-03	1.0E-03	2.9E-05	1.6E-01	7.0E-01	3.2E-06	7.4E-03	3.7E-02
409	8.7E+00	3.8E-03	1.0E-03	3.5E-05	1.6E-01	7.0E-01	3.8E-06	8.5E-03	4.3E-02
410	1.0E+01	3.8E-03	1.0E-03	4.1E-05	1.6E-01	7.0E-01	4.6E-06	1.0E-02	5.0E-02
411	6.4E+00	3.8E-03	1.0E-03	2.5E-05	1.6E-01	7.0E-01	2.8E-06	6.6E-03	3.3E-02
412	7.5E+00	3.8E-03	1.0E-03	3.0E-05	1.6E-01	7.0E-01	3.3E-06	7.6E-03	3.8E-02
413	8.8E+00	3.8E-03	1.0E-03	3.5E-05	1.6E-01	7.0E-01	3.9E-06	8.7E-03	4.4E-02
414	1.1E+01	3.8E-03	1.0E-03	4.2E-05	1.6E-01	7.0E-01	4.7E-06	1.0E-02	5.1E-02
415	6.4E+00	3.8E-03	1.0E-03	2.5E-05	1.6E-01	7.0E-01	2.8E-06	6.7E-03	3.3E-02
416	7.5E+00	3.8E-03	1.0E-03	3.0E-05	1.6E-01	7.0E-01	3.3E-06	7.7E-03	3.8E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	3.8E-03	1.0E-03	3.5E-05	1.6E-01	7.0E-01	3.9E-06	8.8E-03	4.4E-02
418	1.1E+01	3.8E-03	1.0E-03	4.3E-05	1.6E-01	7.0E-01	4.7E-06	1.0E-02	5.2E-02
419	6.4E+00	3.8E-03	1.0E-03	2.5E-05	1.6E-01	7.0E-01	2.8E-06	6.7E-03	3.3E-02
420	7.5E+00	3.8E-03	1.0E-03	3.0E-05	1.6E-01	7.0E-01	3.3E-06	7.7E-03	3.8E-02
421	8.9E+00	3.8E-03	1.0E-03	3.5E-05	1.6E-01	7.0E-01	3.9E-06	8.9E-03	4.5E-02
422	1.1E+01	3.8E-03	1.0E-03	4.3E-05	1.6E-01	7.0E-01	4.7E-06	1.0E-02	5.2E-02
423	6.3E+00	3.8E-03	1.0E-03	2.5E-05	1.6E-01	7.0E-01	2.8E-06	6.7E-03	3.3E-02
424	7.4E+00	3.8E-03	1.0E-03	2.9E-05	1.6E-01	7.0E-01	3.2E-06	7.7E-03	3.8E-02
425	8.8E+00	3.8E-03	1.0E-03	3.5E-05	1.6E-01	7.0E-01	3.9E-06	8.9E-03	4.5E-02
426	1.1E+01	3.8E-03	1.0E-03	4.2E-05	1.6E-01	7.0E-01	4.7E-06	1.1E-02	5.3E-02
427	6.1E+00	3.8E-03	1.0E-03	2.4E-05	1.6E-01	7.0E-01	2.7E-06	6.6E-03	3.3E-02
428	7.2E+00	3.8E-03	1.0E-03	2.9E-05	1.6E-01	7.0E-01	3.2E-06	7.6E-03	3.8E-02
429	8.6E+00	3.8E-03	1.0E-03	3.4E-05	1.6E-01	7.0E-01	3.8E-06	8.8E-03	4.4E-02
430	1.0E+01	3.8E-03	1.0E-03	4.1E-05	1.6E-01	7.0E-01	4.6E-06	1.0E-02	5.2E-02
431	5.9E+00	3.8E-03	1.0E-03	2.3E-05	1.6E-01	7.0E-01	2.6E-06	6.5E-03	3.2E-02
432	6.9E+00	3.8E-03	1.0E-03	2.8E-05	1.6E-01	7.0E-01	3.1E-06	7.5E-03	3.7E-02
433	8.3E+00	3.8E-03	1.0E-03	3.3E-05	1.6E-01	7.0E-01	3.6E-06	8.7E-03	4.4E-02
434	1.0E+01	3.8E-03	1.0E-03	4.0E-05	1.6E-01	7.0E-01	4.4E-06	1.0E-02	5.2E-02
435	5.6E+00	3.8E-03	1.0E-03	2.2E-05	1.6E-01	7.0E-01	2.5E-06	6.3E-03	3.2E-02
436	6.6E+00	3.8E-03	1.0E-03	2.6E-05	1.6E-01	7.0E-01	2.9E-06	7.3E-03	3.6E-02
437	7.9E+00	3.8E-03	1.0E-03	3.1E-05	1.6E-01	7.0E-01	3.5E-06	8.5E-03	4.2E-02
438	9.6E+00	3.8E-03	1.0E-03	3.8E-05	1.6E-01	7.0E-01	4.2E-06	1.0E-02	5.1E-02
439	5.4E+00	3.8E-03	1.0E-03	2.1E-05	1.6E-01	7.0E-01	2.4E-06	6.1E-03	3.0E-02
440	6.3E+00	3.8E-03	1.0E-03	2.5E-05	1.6E-01	7.0E-01	2.8E-06	7.0E-03	3.5E-02
441	7.4E+00	3.8E-03	1.0E-03	3.0E-05	1.6E-01	7.0E-01	3.3E-06	8.2E-03	4.1E-02
442	9.0E+00	3.8E-03	1.0E-03	3.6E-05	1.6E-01	7.0E-01	4.0E-06	9.8E-03	4.9E-02
443	5.0E+00	3.8E-03	1.0E-03	2.0E-05	1.6E-01	7.0E-01	2.2E-06	5.8E-03	2.9E-02
444	5.9E+00	3.8E-03	1.0E-03	2.3E-05	1.6E-01	7.0E-01	2.6E-06	6.7E-03	3.3E-02
445	6.9E+00	3.8E-03	1.0E-03	2.7E-05	1.6E-01	7.0E-01	3.0E-06	7.8E-03	3.9E-02
446	8.3E+00	3.8E-03	1.0E-03	3.3E-05	1.6E-01	7.0E-01	3.7E-06	9.3E-03	4.6E-02
447	4.7E+00	3.8E-03	1.0E-03	1.9E-05	1.6E-01	7.0E-01	2.1E-06	5.5E-03	2.8E-02
448	5.4E+00	3.8E-03	1.0E-03	2.2E-05	1.6E-01	7.0E-01	2.4E-06	6.3E-03	3.2E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	3.8E-03	1.0E-03	2.5E-05	1.6E-01	7.0E-01	2.8E-06	7.3E-03	3.7E-02
450	7.6E+00	3.8E-03	1.0E-03	3.0E-05	1.6E-01	7.0E-01	3.3E-06	8.7E-03	4.3E-02
451	4.4E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07	1.1E-03	5.4E-03
452	4.4E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07	1.1E-03	5.4E-03
453	4.4E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	1.1E-03	5.5E-03
454	4.5E-01	3.8E-03	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	1.1E-03	5.5E-03
455	5.4E-01	3.8E-03	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07	1.3E-03	6.4E-03
456	5.4E-01	3.8E-03	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	1.3E-03	6.5E-03
457	5.5E-01	3.8E-03	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	1.3E-03	6.5E-03
458	5.4E-01	3.8E-03	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	1.3E-03	6.5E-03
459	6.8E-01	3.8E-03	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07	1.6E-03	7.8E-03
460	6.8E-01	3.8E-03	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07	1.6E-03	7.9E-03
461	6.8E-01	3.8E-03	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07	1.6E-03	7.9E-03
462	7.8E-01	3.8E-03	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.5E-07	1.1E-03	5.7E-03
463	9.7E-01	3.8E-03	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.3E-07	1.4E-03	6.8E-03
464	7.9E-01	3.8E-03	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07	1.1E-03	5.7E-03
465	1.0E+00	3.8E-03	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07	1.4E-03	7.0E-03
466	1.3E+00	3.8E-03	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.7E-07	1.7E-03	8.7E-03
467	1.8E+00	3.8E-03	1.0E-03	7.0E-06	1.6E-01	7.0E-01	7.8E-07	2.2E-03	1.1E-02
468	7.7E-01	3.8E-03	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07	1.1E-03	5.6E-03
469	9.8E-01	3.8E-03	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07	1.4E-03	6.8E-03
470	1.3E+00	3.8E-03	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.7E-07	1.7E-03	8.7E-03
471	1.8E+00	3.8E-03	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.1E-07	2.3E-03	1.2E-02
472	9.2E-01	3.8E-03	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07	1.3E-03	6.5E-03
473	1.2E+00	3.8E-03	1.0E-03	4.9E-06	1.6E-01	7.0E-01	5.4E-07	1.7E-03	8.3E-03
474	1.7E+00	3.8E-03	1.0E-03	6.9E-06	1.6E-01	7.0E-01	7.6E-07	2.2E-03	1.1E-02
475	8.3E-01	3.8E-03	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07	1.2E-03	6.0E-03
476	1.1E+00	3.8E-03	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.8E-07	1.5E-03	7.6E-03
477	1.5E+00	3.8E-03	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.8E-07	2.0E-03	1.0E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
1	2.8E+00	7.9E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	2.7E+00	1.4E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.6E-08
2	2.9E+00	7.9E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	2.9E+00	1.4E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08
3	3.1E+00	7.9E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	3.1E+00	1.4E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08
4	3.2E+00	7.9E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	3.3E+00	1.4E-04	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.5E-08
5	3.3E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	3.5E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08
6	3.5E+00	7.9E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08
7	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08
8	3.8E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	4.1E+00	1.4E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08
9	3.9E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	4.3E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
10	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	4.6E+00	1.4E-04	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08
11	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.7E-08	4.8E+00	1.4E-04	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.0E-08
12	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	5.0E+00	1.4E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08
13	3.9E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	5.1E+00	1.4E-04	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.5E-08
14	3.9E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	5.1E+00	1.4E-04	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.5E-08
15	2.9E+00	7.9E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	4.1E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08
16	2.8E+00	7.9E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	3.8E+00	1.4E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.4E-08
17	3.1E+00	7.9E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.8E-08	2.9E+00	1.4E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08
18	3.3E+00	7.9E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	3.1E+00	1.4E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.3E-08
19	3.4E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08
20	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	3.6E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.0E-08
21	3.8E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	3.9E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
22	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	4.1E+00	1.4E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08
23	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	6.0E+00	1.4E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07
24	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	6.1E+00	1.4E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
25	3.5E+00	7.9E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
26	3.3E+00	7.9E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.8E-08
27	3.1E+00	7.9E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	4.3E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
28	3.4E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	3.1E+00	1.4E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08
29	3.8E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08
30	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.7E-08	4.0E+00	1.4E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08
31	4.3E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	3.9E-08	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
32	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
33	4.8E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	5.1E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.5E-08
34	5.0E+00	7.9E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	5.4E+00	1.4E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08
35	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.8E-08	5.8E+00	1.4E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.8E-08
36	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	6.2E+00	1.4E-04	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07
37	5.5E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	7.1E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
38	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	4.9E-08	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
39	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.8E-08	7.5E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
40	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	6.0E+00	1.4E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	1.0E-07
41	3.7E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	5.5E+00	1.4E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08
42	3.4E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
43	3.7E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	3.3E+00	1.4E-04	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08
44	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.7E-08	3.6E+00	1.4E-04	1.0E-03	5.4E-07	1.6E-01	7.0E-01	6.0E-08
45	4.3E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	4.0E+00	1.4E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08
46	5.0E+00	7.9E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	4.8E+00	1.4E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08
47	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	5.3E+00	1.4E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.8E-08
48	5.6E+00	7.9E-05	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08	5.8E+00	1.4E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08
49	5.9E+00	7.9E-05	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08	6.3E+00	1.4E-04	1.0E-03	9.5E-07	1.6E-01	7.0E-01	1.0E-07
50	6.2E+00	7.9E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.7E-08	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07
51	6.5E+00	7.9E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	5.9E-08	7.5E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
52	6.6E+00	7.9E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	8.8E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
53	6.5E+00	7.9E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	5.9E-08	9.2E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
54	6.3E+00	7.9E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	9.4E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
55	6.0E+00	7.9E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	9.3E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
56	5.7E+00	7.9E-05	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	9.0E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
57	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	7.2E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
58	4.2E+00	7.9E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.8E-08	6.5E+00	1.4E-04	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07
59	3.8E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	5.9E+00	1.4E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.8E-08
60	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.7E-08	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08
61	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	3.7E+00	1.4E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08
62	4.9E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.5E-08	4.2E+00	1.4E-04	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08
63	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.8E-08
64	5.7E+00	7.9E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	5.3E+00	1.4E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.8E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
65	7.0E+00	7.9E-05	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.5E-08	7.3E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
66	7.5E+00	7.9E-05	1.0E-03	6.3E-07	1.6E-01	7.0E-01	6.9E-08	8.2E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07
67	7.9E+00	7.9E-05	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08	9.0E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
68	8.1E+00	7.9E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
69	7.9E+00	7.9E-05	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08	1.2E+01	1.4E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
70	7.6E+00	7.9E-05	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08	1.2E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
71	7.2E+00	7.9E-05	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08	1.2E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.0E-07
72	6.8E+00	7.9E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	1.2E+01	1.4E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
73	4.4E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.7E-08
74	4.9E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.5E-08	3.8E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
75	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	4.9E-08	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
76	6.0E+00	7.9E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	4.9E+00	1.4E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08
77	6.7E+00	7.9E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	5.7E+00	1.4E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08
78	7.3E+00	7.9E-05	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.7E-08	6.5E+00	1.4E-04	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07
79	8.0E+00	7.9E-05	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
80	9.9E+00	7.9E-05	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07
81	1.0E+01	7.9E-05	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	1.4E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
82	1.0E+01	7.9E-05	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
83	9.5E+00	7.9E-05	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
84	8.9E+00	7.9E-05	1.0E-03	7.4E-07	1.6E-01	7.0E-01	8.2E-08	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
85	8.2E+00	7.9E-05	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.5E-08	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
86	4.5E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08
87	5.2E+00	7.9E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	3.9E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
88	6.0E+00	7.9E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	4.4E+00	1.4E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
89	6.8E+00	7.9E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	5.1E+00	1.4E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08
90	7.7E+00	7.9E-05	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08	5.9E+00	1.4E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	9.9E-08
91	8.7E+00	7.9E-05	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07
92	9.7E+00	7.9E-05	1.0E-03	8.1E-07	1.6E-01	7.0E-01	8.9E-08	8.1E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07
93	1.1E+01	7.9E-05	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08	9.6E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
94	1.2E+01	7.9E-05	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
95	1.1E+01	7.9E-05	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07	2.6E+01	1.4E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07
96	1.0E+01	7.9E-05	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.2E-08	2.4E+01	1.4E-04	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
97	4.8E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08
98	5.5E+00	7.9E-05	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08	3.8E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
99	6.4E+00	7.9E-05	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08	4.4E+00	1.4E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
100	1.0E+01	7.9E-05	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	7.3E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
101	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	8.7E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
102	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	1.1E+01	1.4E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
103	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
104	4.8E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	3.3E+00	1.4E-04	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08
105	5.7E+00	7.9E-05	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	3.8E+00	1.4E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08
106	6.7E+00	7.9E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	4.4E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
107	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
108	2.1E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	1.4E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
109	4.7E+00	7.9E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	3.2E+00	1.4E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08
110	5.6E+00	7.9E-05	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08
111	6.8E+00	7.9E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	4.3E+00	1.4E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08
112	2.3E+01	7.9E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
113	3.0E+01	7.9E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
114	4.5E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08
115	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	3.5E+00	1.4E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08
116	6.6E+00	7.9E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	6.0E-08	4.1E+00	1.4E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.8E-08
117	8.1E+00	7.9E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	4.8E+00	1.4E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08
118	2.7E+01	7.9E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
119	4.2E+01	7.9E-05	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
120	4.3E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	2.9E+00	1.4E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08
121	5.1E+00	7.9E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08	3.3E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08
122	6.2E+00	7.9E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08
123	7.6E+00	7.9E-05	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08	4.5E+00	1.4E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.6E-08
124	2.7E+01	7.9E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	1.0E+01	1.4E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
125	4.8E+01	7.9E-05	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
126	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.7E-08	2.8E+00	1.4E-04	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08
127	4.8E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	3.2E+00	1.4E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08
128	5.7E+00	7.9E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
129	7.1E+00	7.9E-05	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08	4.3E+00	1.4E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08
130	8.9E+00	7.9E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
131	1.2E+01	7.9E-05	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07	6.1E+00	1.4E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
132	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	7.5E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07
133	2.4E+01	7.9E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	9.6E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
134	4.0E+01	7.9E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07	1.3E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
135	8.8E+01	7.9E-05	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.1E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
136	3.8E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	2.7E+00	1.4E-04	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08
137	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	3.0E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08
138	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08
139	6.5E+00	7.9E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	5.9E-08	4.0E+00	1.4E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.7E-08
140	8.1E+00	7.9E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08
141	1.0E+01	7.9E-05	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08	5.6E+00	1.4E-04	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08
142	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
143	2.0E+01	7.9E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	8.6E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
144	3.0E+01	7.9E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
145	5.2E+01	7.9E-05	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.7E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
146	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	2.5E+00	1.4E-04	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08
147	4.2E+00	7.9E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	2.9E+00	1.4E-04	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08
148	5.0E+00	7.9E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.6E-08	3.2E+00	1.4E-04	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08
149	6.0E+00	7.9E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	3.8E+00	1.4E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08
150	7.3E+00	7.9E-05	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.7E-08	4.4E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
151	9.2E+00	7.9E-05	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.5E-08	5.2E+00	1.4E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08
152	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	6.2E+00	1.4E-04	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07
153	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	7.6E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
154	2.2E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	9.5E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
155	3.2E+01	7.9E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	1.2E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
156	3.4E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	2.4E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08
157	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	2.7E+00	1.4E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08
158	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08
159	5.5E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	3.5E+00	1.4E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08
160	6.6E+00	7.9E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	4.0E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
161	8.1E+00	7.9E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08
162	1.0E+01	7.9E-05	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08	5.6E+00	1.4E-04	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08
163	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	6.7E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
164	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	8.1E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07
165	2.1E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	1.0E+01	1.4E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
166	3.2E+00	7.9E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	2.9E-08	2.3E+00	1.4E-04	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.8E-08
167	3.7E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.4E-08	2.6E+00	1.4E-04	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08
168	4.2E+00	7.9E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	2.9E+00	1.4E-04	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08
169	5.0E+00	7.9E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.6E-08	3.3E+00	1.4E-04	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08
170	5.9E+00	7.9E-05	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08	3.7E+00	1.4E-04	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08
171	7.0E+00	7.9E-05	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.5E-08	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
172	8.5E+00	7.9E-05	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08	5.0E+00	1.4E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08
173	1.0E+01	7.9E-05	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08	5.8E+00	1.4E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08
174	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
175	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	8.3E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07
176	3.0E+00	7.9E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	2.2E+00	1.4E-04	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08
177	3.4E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	2.4E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08
178	3.9E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	2.7E+00	1.4E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08
179	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	3.0E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.0E-08
180	5.2E+00	7.9E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08
181	6.1E+00	7.9E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	3.9E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.5E-08
182	7.2E+00	7.9E-05	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.6E-08	4.4E+00	1.4E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
183	8.4E+00	7.9E-05	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.7E-08	5.1E+00	1.4E-04	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.5E-08
184	9.8E+00	7.9E-05	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08	5.9E+00	1.4E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.8E-08
185	1.1E+01	7.9E-05	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07	6.8E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
186	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	4.9E-08	6.0E+00	1.4E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07
187	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	5.2E+00	1.4E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08
188	3.9E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	4.6E+00	1.4E-04	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.7E-08
189	2.8E+00	7.9E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	2.0E+00	1.4E-04	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08
190	3.1E+00	7.9E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	2.3E+00	1.4E-04	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08
191	3.6E+00	7.9E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.3E-08	2.5E+00	1.4E-04	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08
192	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.7E-08	2.8E+00	1.4E-04	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
193	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	3.1E+00	1.4E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08
194	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.8E-08	3.5E+00	1.4E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.8E-08
195	6.1E+00	7.9E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.6E-08	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.6E-08
196	6.9E+00	7.9E-05	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.4E-08	4.4E+00	1.4E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
197	8.6E+00	7.9E-05	1.0E-03	7.2E-07	1.6E-01	7.0E-01	7.9E-08	5.7E+00	1.4E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08
198	7.1E+00	7.9E-05	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08	6.7E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
199	6.2E+00	7.9E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	6.2E+00	1.4E-04	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07
200	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	4.9E-08	5.6E+00	1.4E-04	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08
201	4.7E+00	7.9E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
202	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	4.5E+00	1.4E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.5E-08
203	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	4.0E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.7E-08
204	2.6E+00	7.9E-05	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	1.9E+00	1.4E-04	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08
205	2.9E+00	7.9E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	2.1E+00	1.4E-04	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08
206	3.2E+00	7.9E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	2.3E+00	1.4E-04	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08
207	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	2.6E+00	1.4E-04	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08
208	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	2.8E+00	1.4E-04	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.7E-08
209	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	3.1E+00	1.4E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08
210	5.2E+00	7.9E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	3.5E+00	1.4E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08
211	6.3E+00	7.9E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
212	6.7E+00	7.9E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08
213	6.6E+00	7.9E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	5.5E+00	1.4E-04	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08
214	6.2E+00	7.9E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.7E-08	5.5E+00	1.4E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08
215	5.8E+00	7.9E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	5.4E+00	1.4E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08
216	5.2E+00	7.9E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.7E-08	5.1E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.5E-08
217	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.8E-08
218	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
219	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08
220	3.2E+00	7.9E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08
221	2.4E+00	7.9E-05	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	1.8E+00	1.4E-04	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08
222	2.7E+00	7.9E-05	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	2.0E+00	1.4E-04	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08
223	3.0E+00	7.9E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	2.2E+00	1.4E-04	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08
224	3.3E+00	7.9E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	2.4E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
225	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	2.6E+00	1.4E-04	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08
226	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	3.1E+00	1.4E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08
227	4.9E+00	7.9E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08
228	5.2E+00	7.9E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.7E-08	3.7E+00	1.4E-04	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08
229	5.5E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	4.0E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.7E-08
230	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	4.5E+00	1.4E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.5E-08
231	5.0E+00	7.9E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	4.4E+00	1.4E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
232	4.8E+00	7.9E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.4E-08	4.4E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
233	4.3E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	4.2E+00	1.4E-04	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08
234	3.9E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.6E-08
235	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08
236	3.2E+00	7.9E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	3.3E+00	1.4E-04	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08
237	2.9E+00	7.9E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.6E-08	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08
238	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.4E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
239	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.5E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
240	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
241	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
242	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
243	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
244	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
245	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.6E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
246	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
247	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
248	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
249	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
250	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
251	1.2E+01	7.9E-05	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
252	1.3E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
253	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
254	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
255	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
256	1.3E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
257	1.3E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
258	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
259	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	2.0E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
260	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	2.1E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.5E-07
261	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
262	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
263	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
264	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.0E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
265	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
266	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.2E+01	1.4E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07
267	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.2E+01	1.4E-04	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.7E-07
268	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.3E+01	1.4E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07
269	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.4E+01	1.4E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	3.9E-07
270	1.3E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	2.4E+01	1.4E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07
271	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
272	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.2E+01	1.4E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07
273	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.2E+01	1.4E-04	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.8E-07
274	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.3E+01	1.4E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07
275	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	2.4E+01	1.4E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07
276	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	2.5E+01	1.4E-04	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07
277	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.6E+01	1.4E-04	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07
278	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.6E+01	1.4E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07
279	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.7E+01	1.4E-04	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07
280	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.8E+01	1.4E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.6E-07
281	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.8E+01	1.4E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07
282	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	2.4E+01	1.4E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07
283	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	2.5E+01	1.4E-04	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07
284	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.6E+01	1.4E-04	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07
285	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.7E+01	1.4E-04	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07
286	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.8E+01	1.4E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07
287	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.9E+01	1.4E-04	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07
288	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.0E+01	1.4E-04	1.0E-03	4.5E-06	1.6E-01	7.0E-01	4.9E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
289	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.0E+01	1.4E-04	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.1E-07
290	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.1E+01	1.4E-04	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07
291	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.2E+01	1.4E-04	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07
292	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.2E+01	1.4E-04	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.4E-07
293	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	2.9E+01	1.4E-04	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.9E-07
294	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.0E+01	1.4E-04	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.1E-07
295	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	3.2E+01	1.4E-04	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07
296	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	3.3E+01	1.4E-04	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.5E-07
297	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.4E+01	1.4E-04	1.0E-03	5.1E-06	1.6E-01	7.0E-01	5.6E-07
298	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.5E+01	1.4E-04	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.8E-07
299	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.5E+01	1.4E-04	1.0E-03	5.4E-06	1.6E-01	7.0E-01	5.9E-07
300	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+01	1.4E-04	1.0E-03	5.4E-06	1.6E-01	7.0E-01	6.0E-07
301	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.6E+01	1.4E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
302	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.6E+01	1.4E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
303	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.6E+01	1.4E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
304	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	3.5E+01	1.4E-04	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.8E-07
305	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.6E+01	1.4E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
306	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+01	1.4E-04	1.0E-03	5.7E-06	1.6E-01	7.0E-01	6.3E-07
307	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.9E+01	1.4E-04	1.0E-03	5.9E-06	1.6E-01	7.0E-01	6.5E-07
308	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.0E+01	1.4E-04	1.0E-03	6.0E-06	1.6E-01	7.0E-01	6.7E-07
309	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.1E+01	1.4E-04	1.0E-03	6.2E-06	1.6E-01	7.0E-01	6.8E-07
310	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.1E+01	1.4E-04	1.0E-03	6.3E-06	1.6E-01	7.0E-01	6.9E-07
311	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	4.2E+01	1.4E-04	1.0E-03	6.3E-06	1.6E-01	7.0E-01	7.0E-07
312	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.2E+01	1.4E-04	1.0E-03	6.3E-06	1.6E-01	7.0E-01	7.0E-07
313	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.1E+01	1.4E-04	1.0E-03	6.2E-06	1.6E-01	7.0E-01	6.9E-07
314	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.0E+01	1.4E-04	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.7E-07
315	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.9E+01	1.4E-04	1.0E-03	5.9E-06	1.6E-01	7.0E-01	6.5E-07
316	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.4E+01	1.4E-04	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.3E-07
317	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.6E+01	1.4E-04	1.0E-03	6.9E-06	1.6E-01	7.0E-01	7.6E-07
318	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.7E+01	1.4E-04	1.0E-03	7.1E-06	1.6E-01	7.0E-01	7.9E-07
319	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.8E+01	1.4E-04	1.0E-03	7.2E-06	1.6E-01	7.0E-01	8.0E-07
320	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.8E+01	1.4E-04	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.1E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
321	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.8E+01	1.4E-04	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.1E-07
322	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	4.8E+01	1.4E-04	1.0E-03	7.2E-06	1.6E-01	7.0E-01	8.0E-07
323	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.7E+01	1.4E-04	1.0E-03	7.0E-06	1.6E-01	7.0E-01	7.8E-07
324	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.5E+01	1.4E-04	1.0E-03	6.8E-06	1.6E-01	7.0E-01	7.5E-07
325	1.6E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	5.5E+01	1.4E-04	1.0E-03	8.2E-06	1.6E-01	7.0E-01	9.1E-07
326	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	5.6E+01	1.4E-04	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.4E-07
327	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	5.7E+01	1.4E-04	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07
328	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	5.7E+01	1.4E-04	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07
329	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	5.7E+01	1.4E-04	1.0E-03	8.6E-06	1.6E-01	7.0E-01	9.5E-07
330	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	5.5E+01	1.4E-04	1.0E-03	8.3E-06	1.6E-01	7.0E-01	9.2E-07
331	1.6E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	6.9E+01	1.4E-04	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.2E-06
332	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	7.0E+01	1.4E-04	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06
333	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	6.9E+01	1.4E-04	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.2E-06
334	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	6.6E+01	1.4E-04	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06
335	1.2E+01	7.9E-05	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07	1.2E+01	1.4E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
336	1.2E+01	7.9E-05	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07	1.2E+01	1.4E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
337	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	1.3E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
338	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
339	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.2E+01	1.4E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
340	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.3E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
341	1.3E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
342	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
343	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.3E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
344	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
345	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.4E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
346	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
347	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
348	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
349	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
350	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.5E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
351	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
352	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
353	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	1.5E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
354	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
355	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
356	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.4E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
357	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
358	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
359	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
360	1.7E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	1.5E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
361	1.7E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
362	1.7E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
363	1.7E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	1.5E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
364	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
365	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
366	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
367	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
368	1.9E+01	7.9E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
369	1.9E+01	7.9E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
370	2.0E+01	7.9E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
371	2.0E+01	7.9E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
372	2.0E+01	7.9E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
373	2.1E+01	7.9E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
374	2.1E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
375	2.1E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
376	2.2E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
377	2.2E+01	7.9E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
378	2.3E+01	7.9E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
379	2.3E+01	7.9E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
380	2.3E+01	7.9E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.2E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
381	2.4E+01	7.9E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
382	2.5E+01	7.9E-05	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
383	2.4E+01	7.9E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
384	2.5E+01	7.9E-05	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
385	2.6E+01	7.9E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
386	2.7E+01	7.9E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
387	2.6E+01	7.9E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
388	2.7E+01	7.9E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	1.8E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
389	2.8E+01	7.9E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
390	2.9E+01	7.9E-05	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
391	2.8E+01	7.9E-05	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
392	3.0E+01	7.9E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
393	3.1E+01	7.9E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.2E-07
394	3.2E+01	7.9E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
395	3.1E+01	7.9E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
396	3.2E+01	7.9E-05	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
397	3.4E+01	7.9E-05	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
398	3.5E+01	7.9E-05	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	2.0E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
399	3.3E+01	7.9E-05	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
400	3.5E+01	7.9E-05	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.0E-07
401	3.7E+01	7.9E-05	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
402	3.8E+01	7.9E-05	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07	2.1E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.5E-07
403	3.6E+01	7.9E-05	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
404	3.8E+01	7.9E-05	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
405	4.0E+01	7.9E-05	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.7E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
406	4.3E+01	7.9E-05	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
407	3.9E+01	7.9E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
408	4.2E+01	7.9E-05	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
409	4.5E+01	7.9E-05	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
410	4.7E+01	7.9E-05	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
411	4.3E+01	7.9E-05	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
412	4.6E+01	7.9E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
413	4.9E+01	7.9E-05	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
414	5.3E+01	7.9E-05	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.8E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
415	4.6E+01	7.9E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
416	5.0E+01	7.9E-05	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.6E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
417	5.4E+01	7.9E-05	1.0E-03	4.5E-06	1.6E-01	7.0E-01	5.0E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
418	5.9E+01	7.9E-05	1.0E-03	4.9E-06	1.6E-01	7.0E-01	5.4E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
419	5.0E+01	7.9E-05	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.6E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
420	5.5E+01	7.9E-05	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.1E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
421	6.0E+01	7.9E-05	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.5E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
422	6.6E+01	7.9E-05	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
423	5.4E+01	7.9E-05	1.0E-03	4.5E-06	1.6E-01	7.0E-01	4.9E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
424	6.0E+01	7.9E-05	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.5E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
425	6.7E+01	7.9E-05	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
426	7.4E+01	7.9E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.8E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
427	5.8E+01	7.9E-05	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
428	6.5E+01	7.9E-05	1.0E-03	5.4E-06	1.6E-01	7.0E-01	6.0E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
429	7.3E+01	7.9E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.7E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
430	8.3E+01	7.9E-05	1.0E-03	6.9E-06	1.6E-01	7.0E-01	7.6E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
431	6.1E+01	7.9E-05	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.6E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
432	7.0E+01	7.9E-05	1.0E-03	5.8E-06	1.6E-01	7.0E-01	6.4E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
433	8.0E+01	7.9E-05	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.4E-07	2.0E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.3E-07
434	9.3E+01	7.9E-05	1.0E-03	7.7E-06	1.6E-01	7.0E-01	8.5E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
435	6.3E+01	7.9E-05	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.8E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
436	7.3E+01	7.9E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.7E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
437	8.6E+01	7.9E-05	1.0E-03	7.1E-06	1.6E-01	7.0E-01	7.9E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
438	1.0E+02	7.9E-05	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.4E-07	2.1E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.5E-07
439	6.4E+01	7.9E-05	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.9E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
440	7.6E+01	7.9E-05	1.0E-03	6.3E-06	1.6E-01	7.0E-01	6.9E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	2.9E-07
441	9.0E+01	7.9E-05	1.0E-03	7.5E-06	1.6E-01	7.0E-01	8.3E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
442	1.1E+02	7.9E-05	1.0E-03	9.1E-06	1.6E-01	7.0E-01	1.0E-06	2.1E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
443	6.4E+01	7.9E-05	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.9E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
444	7.6E+01	7.9E-05	1.0E-03	6.3E-06	1.6E-01	7.0E-01	7.0E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
445	9.2E+01	7.9E-05	1.0E-03	7.6E-06	1.6E-01	7.0E-01	8.4E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
446	1.1E+02	7.9E-05	1.0E-03	9.4E-06	1.6E-01	7.0E-01	1.0E-06	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.4E-07
447	6.2E+01	7.9E-05	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.7E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
448	7.4E+01	7.9E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.8E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
449	9.0E+01	7.9E-05	1.0E-03	7.5E-06	1.6E-01	7.0E-01	8.3E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.0E-07
450	1.1E+02	7.9E-05	1.0E-03	9.3E-06	1.6E-01	7.0E-01	1.0E-06	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
451	3.8E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	5.1E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
452	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	5.0E+00	1.4E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08
453	3.5E+00	7.9E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	4.8E+00	1.4E-04	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.0E-08
454	3.3E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	4.6E+00	1.4E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.7E-08
455	4.3E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	6.0E+00	1.4E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07
456	4.2E+00	7.9E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.8E-08	5.9E+00	1.4E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08
457	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.7E-08	5.7E+00	1.4E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08
458	3.8E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	5.4E+00	1.4E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.1E-08
459	5.1E+00	7.9E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
460	4.8E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	7.2E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
461	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07
462	7.6E+00	7.9E-05	1.0E-03	6.3E-07	1.6E-01	7.0E-01	6.9E-08	5.2E+00	1.4E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08
463	8.8E+00	7.9E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08	6.1E+00	1.4E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
464	8.1E+00	7.9E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.5E-08	5.2E+00	1.4E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08
465	9.8E+00	7.9E-05	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08	6.1E+00	1.4E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
466	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
467	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	9.0E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
468	8.3E+00	7.9E-05	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
469	1.0E+01	7.9E-05	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08	6.0E+00	1.4E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	1.0E-07
470	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	7.2E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
471	1.7E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	9.0E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
472	1.0E+01	7.9E-05	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08	5.7E+00	1.4E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08
473	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	7.0E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
474	1.9E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	8.7E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
475	9.7E+00	7.9E-05	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.9E-08	5.4E+00	1.4E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08
476	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	6.5E+00	1.4E-04	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07
477	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	8.1E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
1	2.9E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.8E-08	1.6E+00	4.8E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.1E-08
2	3.1E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.8E+00	4.8E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.8E-08
3	3.3E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	1.9E+00	4.8E-04	1.0E-03	9.5E-07	1.6E-01	7.0E-01	1.1E-07
4	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	2.1E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
5	3.8E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
6	4.1E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
7	4.4E+00	8.5E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
8	4.7E+00	8.5E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	2.8E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
9	5.0E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
10	5.3E+00	8.5E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
11	5.7E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
12	6.0E+00	8.5E-05	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08	3.7E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
13	6.2E+00	8.5E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
14	6.3E+00	8.5E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
15	5.0E+00	8.5E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	5.0E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
16	4.6E+00	8.5E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	5.0E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
17	3.0E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	1.7E+00	4.8E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.1E-08
18	3.3E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.3E-08	1.8E+00	4.8E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	9.9E-08
19	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	2.0E+00	4.8E-04	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07
20	3.9E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	2.1E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
21	4.2E+00	8.5E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	2.3E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07
22	4.6E+00	8.5E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	2.5E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
23	7.5E+00	8.5E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	4.5E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
24	7.7E+00	8.5E-05	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
25	6.3E+00	8.5E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	5.8E+00	4.8E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
26	5.8E+00	8.5E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	5.9E+00	4.8E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
27	5.4E+00	8.5E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	5.9E+00	4.8E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
28	3.1E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.7E+00	4.8E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.1E-08
29	3.9E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	2.0E+00	4.8E-04	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07
30	4.2E+00	8.5E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
31	4.7E+00	8.5E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
32	5.2E+00	8.5E-05	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
33	5.7E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	2.9E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
34	6.2E+00	8.5E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
35	6.9E+00	8.5E-05	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08	3.5E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07
36	7.5E+00	8.5E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
37	8.9E+00	8.5E-05	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.8E-08	4.7E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
38	9.4E+00	8.5E-05	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08	5.2E+00	4.8E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
39	9.8E+00	8.5E-05	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08	5.6E+00	4.8E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
40	7.7E+00	8.5E-05	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08	7.0E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07
41	7.0E+00	8.5E-05	1.0E-03	6.3E-07	1.6E-01	7.0E-01	6.9E-08	7.1E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07
42	6.3E+00	8.5E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	7.1E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07
43	3.2E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	1.6E+00	4.8E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08
44	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	1.8E+00	4.8E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08
45	4.1E+00	8.5E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	2.0E+00	4.8E-04	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07
46	5.1E+00	8.5E-05	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.0E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
47	5.8E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	2.7E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
48	6.4E+00	8.5E-05	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
49	7.2E+00	8.5E-05	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07
50	8.1E+00	8.5E-05	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
51	9.0E+00	8.5E-05	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.9E-08	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
52	1.1E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	5.4E+00	4.8E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
53	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	6.0E+00	4.8E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
54	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	6.7E+00	4.8E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07
55	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	7.3E+00	4.8E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07
56	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	7.8E+00	4.8E-04	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07
57	9.6E+00	8.5E-05	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08	8.7E+00	4.8E-04	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07
58	8.5E+00	8.5E-05	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08	8.7E+00	4.8E-04	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07
59	7.5E+00	8.5E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	8.7E+00	4.8E-04	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07
60	3.2E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	1.6E+00	4.8E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.9E-08
61	3.7E+00	8.5E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	1.8E+00	4.8E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08
62	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	2.0E+00	4.8E-04	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07
63	4.8E+00	8.5E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
64	5.4E+00	8.5E-05	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
65	8.2E+00	8.5E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
66	9.5E+00	8.5E-05	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
67	1.1E+01	8.5E-05	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
68	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	6.1E+00	4.8E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
69	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	7.1E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07
70	1.7E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	8.1E+00	4.8E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07
71	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	9.0E+00	4.8E-04	1.0E-03	4.5E-06	1.6E-01	7.0E-01	5.0E-07
72	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	9.9E+00	4.8E-04	1.0E-03	4.9E-06	1.6E-01	7.0E-01	5.4E-07
73	3.2E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	1.6E+00	4.8E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.7E-08
74	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	1.7E+00	4.8E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08
75	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	1.9E+00	4.8E-04	1.0E-03	9.5E-07	1.6E-01	7.0E-01	1.0E-07
76	4.8E+00	8.5E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	2.1E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
77	5.7E+00	8.5E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.6E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
78	6.6E+00	8.5E-05	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08	2.7E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
79	7.8E+00	8.5E-05	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.7E-08	3.1E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
80	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
81	1.9E+01	8.5E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	7.0E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07
82	2.3E+01	8.5E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	8.4E+00	4.8E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.6E-07
83	2.6E+01	8.5E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	1.0E+01	4.8E-04	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.5E-07
84	2.7E+01	8.5E-05	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07	1.2E+01	4.8E-04	1.0E-03	5.9E-06	1.6E-01	7.0E-01	6.5E-07
85	2.6E+01	8.5E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	1.3E+01	4.8E-04	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.3E-07
86	3.1E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	1.5E+00	4.8E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08
87	3.5E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	1.7E+00	4.8E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08
88	4.1E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	1.9E+00	4.8E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
89	4.8E+00	8.5E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.7E-08	2.1E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
90	5.7E+00	8.5E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.6E-08	2.3E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
91	6.8E+00	8.5E-05	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.7E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
92	8.2E+00	8.5E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
93	9.9E+00	8.5E-05	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.8E-08	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
94	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
95	4.8E+01	8.5E-05	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07	1.7E+01	4.8E-04	1.0E-03	8.4E-06	1.6E-01	7.0E-01	9.3E-07
96	4.6E+01	8.5E-05	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07	2.0E+01	4.8E-04	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
97	3.0E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	1.5E+00	4.8E-04	1.0E-03	7.4E-07	1.6E-01	7.0E-01	8.2E-08
98	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	1.6E+00	4.8E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08
99	4.0E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	1.8E+00	4.8E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08
100	6.7E+00	8.5E-05	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08	2.5E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
101	8.2E+00	8.5E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08	2.9E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
102	1.0E+01	8.5E-05	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
103	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
104	2.9E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.5E+00	4.8E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08
105	3.3E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	1.6E+00	4.8E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08
106	3.8E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	1.7E+00	4.8E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08
107	1.0E+01	8.5E-05	1.0E-03	9.0E-07	1.6E-01	7.0E-01	9.9E-08	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
108	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
109	2.8E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	1.4E+00	4.8E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.7E-08
110	3.2E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.2E-08	1.5E+00	4.8E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.5E-08
111	3.7E+00	8.5E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	1.7E+00	4.8E-04	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08
112	9.5E+00	8.5E-05	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
113	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
114	2.7E+00	8.5E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.6E-08	1.4E+00	4.8E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.5E-08
115	3.0E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	1.5E+00	4.8E-04	1.0E-03	7.4E-07	1.6E-01	7.0E-01	8.2E-08
116	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	1.6E+00	4.8E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08
117	4.0E+00	8.5E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	1.8E+00	4.8E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08
118	8.7E+00	8.5E-05	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08	2.9E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
119	1.1E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07
120	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	1.3E+00	4.8E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
121	2.9E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.4E+00	4.8E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08
122	3.3E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.3E-08	1.6E+00	4.8E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08
123	3.8E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	1.7E+00	4.8E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08
124	7.9E+00	8.5E-05	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08	2.7E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
125	1.0E+01	8.5E-05	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07	3.1E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07
126	2.4E+00	8.5E-05	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	1.3E+00	4.8E-04	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08
127	2.7E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.7E-08	1.4E+00	4.8E-04	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08
128	3.1E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.5E+00	4.8E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
129	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	1.7E+00	4.8E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.1E-08
130	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	1.8E+00	4.8E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07
131	4.9E+00	8.5E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.8E-08	2.0E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
132	5.8E+00	8.5E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	2.3E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07
133	7.2E+00	8.5E-05	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
134	9.0E+00	8.5E-05	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.8E-08	2.9E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07
135	1.2E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
136	2.3E+00	8.5E-05	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.2E+00	4.8E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08
137	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	1.3E+00	4.8E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
138	3.0E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.5E+00	4.8E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08
139	3.4E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	1.6E+00	4.8E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.8E-08
140	3.9E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.8E-08	1.8E+00	4.8E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.7E-08
141	4.5E+00	8.5E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	1.9E+00	4.8E-04	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07
142	5.4E+00	8.5E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
143	6.4E+00	8.5E-05	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
144	7.9E+00	8.5E-05	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08	2.7E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
145	9.8E+00	8.5E-05	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.7E-08	3.1E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07
146	2.2E+00	8.5E-05	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	1.2E+00	4.8E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.6E-08
147	2.5E+00	8.5E-05	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	1.3E+00	4.8E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08
148	2.8E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.7E-08	1.4E+00	4.8E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.7E-08
149	3.2E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.5E+00	4.8E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
150	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	1.7E+00	4.8E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08
151	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	1.8E+00	4.8E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
152	4.8E+00	8.5E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	2.0E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
153	5.7E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	2.3E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07
154	6.8E+00	8.5E-05	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.7E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
155	8.2E+00	8.5E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.0E-08	2.9E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
156	2.1E+00	8.5E-05	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.1E-08	1.2E+00	4.8E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
157	2.4E+00	8.5E-05	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.3E+00	4.8E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08
158	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	1.4E+00	4.8E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
159	2.9E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.5E+00	4.8E-04	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08
160	3.3E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	1.6E+00	4.8E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.8E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
161	3.8E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	1.8E+00	4.8E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08
162	4.4E+00	8.5E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	1.9E+00	4.8E-04	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07
163	5.0E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	2.1E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
164	5.8E+00	8.5E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
165	6.9E+00	8.5E-05	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08	2.7E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
166	2.0E+00	8.5E-05	1.0E-03	1.8E-07	1.6E-01	7.0E-01	2.0E-08	1.1E+00	4.8E-04	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08
167	2.2E+00	8.5E-05	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	1.2E+00	4.8E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08
168	2.5E+00	8.5E-05	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	1.3E+00	4.8E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
169	2.7E+00	8.5E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	1.4E+00	4.8E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08
170	3.1E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	1.5E+00	4.8E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
171	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	1.7E+00	4.8E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08
172	3.9E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	1.8E+00	4.8E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07
173	4.4E+00	8.5E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	2.0E+00	4.8E-04	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07
174	5.1E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
175	5.8E+00	8.5E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.7E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
176	1.9E+00	8.5E-05	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	1.1E+00	4.8E-04	1.0E-03	5.4E-07	1.6E-01	7.0E-01	6.0E-08
177	2.1E+00	8.5E-05	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.1E-08	1.2E+00	4.8E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
178	2.3E+00	8.5E-05	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.3E-08	1.2E+00	4.8E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08
179	2.5E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	1.3E+00	4.8E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
180	2.8E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	1.5E+00	4.8E-04	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.0E-08
181	3.1E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.6E+00	4.8E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08
182	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	1.7E+00	4.8E-04	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.5E-08
183	3.9E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	1.9E+00	4.8E-04	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07
184	4.4E+00	8.5E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	2.0E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
185	4.9E+00	8.5E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	2.3E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
186	5.0E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	4.7E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
187	4.5E+00	8.5E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.5E-08	5.0E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
188	4.1E+00	8.5E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	5.2E+00	4.8E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
189	1.8E+00	8.5E-05	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.8E-08	1.0E+00	4.8E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08
190	2.0E+00	8.5E-05	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	1.1E+00	4.8E-04	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08
191	2.1E+00	8.5E-05	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.1E-08	1.2E+00	4.8E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08
192	2.4E+00	8.5E-05	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.3E+00	4.8E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
193	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	1.4E+00	4.8E-04	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08
194	2.9E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	1.5E+00	4.8E-04	1.0E-03	7.4E-07	1.6E-01	7.0E-01	8.2E-08
195	3.2E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.6E+00	4.8E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	8.9E-08
196	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	1.8E+00	4.8E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08
197	4.2E+00	8.5E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	2.1E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
198	5.1E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
199	4.8E+00	8.5E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
200	4.6E+00	8.5E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
201	4.2E+00	8.5E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
202	3.9E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.8E-08	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
203	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	4.3E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
204	1.7E+00	8.5E-05	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	1.0E+00	4.8E-04	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08
205	1.8E+00	8.5E-05	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.8E-08	1.1E+00	4.8E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08
206	2.0E+00	8.5E-05	1.0E-03	1.8E-07	1.6E-01	7.0E-01	2.0E-08	1.1E+00	4.8E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08
207	2.2E+00	8.5E-05	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.2E-08	1.2E+00	4.8E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08
208	2.4E+00	8.5E-05	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.3E+00	4.8E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
209	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	1.4E+00	4.8E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08
210	2.8E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	1.5E+00	4.8E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
211	3.4E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	1.8E+00	4.8E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08
212	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	1.9E+00	4.8E-04	1.0E-03	9.5E-07	1.6E-01	7.0E-01	1.1E-07
213	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
214	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	2.8E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
215	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07
216	4.1E+00	8.5E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07
217	3.9E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	3.3E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07
218	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
219	3.4E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
220	3.1E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
221	1.6E+00	8.5E-05	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.6E-08	9.7E-01	4.8E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08
222	1.7E+00	8.5E-05	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	1.0E+00	4.8E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08
223	1.9E+00	8.5E-05	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.8E-08	1.1E+00	4.8E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08
224	2.0E+00	8.5E-05	1.0E-03	1.8E-07	1.6E-01	7.0E-01	2.0E-08	1.2E+00	4.8E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.5E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
225	2.2E+00	8.5E-05	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	1.3E+00	4.8E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08
226	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	1.4E+00	4.8E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	7.9E-08
227	2.8E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.7E-08	1.5E+00	4.8E-04	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.5E-08
228	3.0E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.6E+00	4.8E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08
229	3.2E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.8E+00	4.8E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08
230	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	2.3E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07
231	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	2.5E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07
232	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
233	3.4E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.4E-08	2.8E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
234	3.3E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	2.9E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
235	3.1E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
236	2.9E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	3.1E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
237	2.7E+00	8.5E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07
238	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	6.1E+00	4.8E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.4E-07
239	1.9E+01	8.5E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07	6.4E+00	4.8E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
240	1.9E+01	8.5E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	6.6E+00	4.8E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07
241	2.0E+01	8.5E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	6.9E+00	4.8E-04	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.8E-07
242	2.1E+01	8.5E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	7.2E+00	4.8E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	3.9E-07
243	2.2E+01	8.5E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	7.5E+00	4.8E-04	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07
244	1.9E+01	8.5E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07	6.2E+00	4.8E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
245	2.0E+01	8.5E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	6.4E+00	4.8E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
246	2.0E+01	8.5E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	6.7E+00	4.8E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07
247	2.1E+01	8.5E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	7.0E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07
248	2.2E+01	8.5E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	7.3E+00	4.8E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07
249	2.3E+01	8.5E-05	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	7.6E+00	4.8E-04	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07
250	2.4E+01	8.5E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	8.0E+00	4.8E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07
251	2.5E+01	8.5E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	8.3E+00	4.8E-04	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.6E-07
252	2.0E+01	8.5E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	6.5E+00	4.8E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
253	2.1E+01	8.5E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	6.8E+00	4.8E-04	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.7E-07
254	2.3E+01	8.5E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	7.1E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07
255	2.4E+01	8.5E-05	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	7.4E+00	4.8E-04	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07
256	2.5E+01	8.5E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	7.8E+00	4.8E-04	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
257	2.6E+01	8.5E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	8.1E+00	4.8E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.5E-07
258	2.7E+01	8.5E-05	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07	8.5E+00	4.8E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07
259	2.8E+01	8.5E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	8.9E+00	4.8E-04	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.9E-07
260	3.0E+01	8.5E-05	1.0E-03	2.7E-06	1.6E-01	7.0E-01	2.9E-07	9.4E+00	4.8E-04	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07
261	2.4E+01	8.5E-05	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	7.1E+00	4.8E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	3.9E-07
262	2.5E+01	8.5E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	7.5E+00	4.8E-04	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07
263	2.6E+01	8.5E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	7.9E+00	4.8E-04	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07
264	2.7E+01	8.5E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	8.3E+00	4.8E-04	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07
265	2.9E+01	8.5E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	8.7E+00	4.8E-04	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07
266	3.1E+01	8.5E-05	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07	9.2E+00	4.8E-04	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.0E-07
267	3.2E+01	8.5E-05	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	9.7E+00	4.8E-04	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07
268	3.4E+01	8.5E-05	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07	1.0E+01	4.8E-04	1.0E-03	5.1E-06	1.6E-01	7.0E-01	5.6E-07
269	3.5E+01	8.5E-05	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07	1.1E+01	4.8E-04	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.9E-07
270	3.7E+01	8.5E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07	1.1E+01	4.8E-04	1.0E-03	5.6E-06	1.6E-01	7.0E-01	6.2E-07
271	2.8E+01	8.5E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	8.0E+00	4.8E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07
272	2.9E+01	8.5E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	8.4E+00	4.8E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.6E-07
273	3.1E+01	8.5E-05	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.0E-07	8.8E+00	4.8E-04	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.9E-07
274	3.3E+01	8.5E-05	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	9.4E+00	4.8E-04	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07
275	3.5E+01	8.5E-05	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07	9.9E+00	4.8E-04	1.0E-03	4.9E-06	1.6E-01	7.0E-01	5.5E-07
276	3.7E+01	8.5E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07	1.0E+01	4.8E-04	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.8E-07
277	3.9E+01	8.5E-05	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.8E-07	1.1E+01	4.8E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
278	4.1E+01	8.5E-05	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07	1.2E+01	4.8E-04	1.0E-03	5.9E-06	1.6E-01	7.0E-01	6.5E-07
279	4.3E+01	8.5E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.2E+01	4.8E-04	1.0E-03	6.2E-06	1.6E-01	7.0E-01	6.9E-07
280	4.5E+01	8.5E-05	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07	1.3E+01	4.8E-04	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.3E-07
281	4.8E+01	8.5E-05	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07	1.4E+01	4.8E-04	1.0E-03	7.0E-06	1.6E-01	7.0E-01	7.8E-07
282	3.3E+01	8.5E-05	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.3E-07	9.0E+00	4.8E-04	1.0E-03	4.5E-06	1.6E-01	7.0E-01	5.0E-07
283	3.5E+01	8.5E-05	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.5E-07	9.5E+00	4.8E-04	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07
284	3.7E+01	8.5E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07	1.0E+01	4.8E-04	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.6E-07
285	4.0E+01	8.5E-05	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	1.1E+01	4.8E-04	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.9E-07
286	4.2E+01	8.5E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.1E+01	4.8E-04	1.0E-03	5.7E-06	1.6E-01	7.0E-01	6.3E-07
287	4.5E+01	8.5E-05	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07	1.2E+01	4.8E-04	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.7E-07
288	4.8E+01	8.5E-05	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07	1.3E+01	4.8E-04	1.0E-03	6.5E-06	1.6E-01	7.0E-01	7.2E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
289	5.1E+01	8.5E-05	1.0E-03	4.5E-06	1.6E-01	7.0E-01	5.0E-07	1.4E+01	4.8E-04	1.0E-03	7.0E-06	1.6E-01	7.0E-01	7.7E-07
290	5.4E+01	8.5E-05	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07	1.5E+01	4.8E-04	1.0E-03	7.4E-06	1.6E-01	7.0E-01	8.2E-07
291	5.7E+01	8.5E-05	1.0E-03	5.1E-06	1.6E-01	7.0E-01	5.6E-07	1.6E+01	4.8E-04	1.0E-03	8.0E-06	1.6E-01	7.0E-01	8.8E-07
292	5.9E+01	8.5E-05	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.9E-07	1.7E+01	4.8E-04	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.5E-07
293	4.3E+01	8.5E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.1E+01	4.8E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
294	4.6E+01	8.5E-05	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07	1.2E+01	4.8E-04	1.0E-03	5.9E-06	1.6E-01	7.0E-01	6.5E-07
295	4.9E+01	8.5E-05	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.9E-07	1.3E+01	4.8E-04	1.0E-03	6.3E-06	1.6E-01	7.0E-01	6.9E-07
296	5.3E+01	8.5E-05	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07	1.4E+01	4.8E-04	1.0E-03	6.8E-06	1.6E-01	7.0E-01	7.5E-07
297	5.7E+01	8.5E-05	1.0E-03	5.1E-06	1.6E-01	7.0E-01	5.6E-07	1.5E+01	4.8E-04	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.1E-07
298	6.1E+01	8.5E-05	1.0E-03	5.4E-06	1.6E-01	7.0E-01	6.0E-07	1.6E+01	4.8E-04	1.0E-03	7.9E-06	1.6E-01	7.0E-01	8.7E-07
299	6.5E+01	8.5E-05	1.0E-03	5.8E-06	1.6E-01	7.0E-01	6.4E-07	1.7E+01	4.8E-04	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.4E-07
300	6.9E+01	8.5E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.8E-07	1.8E+01	4.8E-04	1.0E-03	9.2E-06	1.6E-01	7.0E-01	1.0E-06
301	7.3E+01	8.5E-05	1.0E-03	6.5E-06	1.6E-01	7.0E-01	7.2E-07	2.0E+01	4.8E-04	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06
302	7.6E+01	8.5E-05	1.0E-03	6.8E-06	1.6E-01	7.0E-01	7.5E-07	2.2E+01	4.8E-04	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06
303	7.9E+01	8.5E-05	1.0E-03	7.1E-06	1.6E-01	7.0E-01	7.8E-07	2.3E+01	4.8E-04	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06
304	5.4E+01	8.5E-05	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07	1.3E+01	4.8E-04	1.0E-03	6.5E-06	1.6E-01	7.0E-01	7.1E-07
305	5.8E+01	8.5E-05	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.8E-07	1.4E+01	4.8E-04	1.0E-03	7.0E-06	1.6E-01	7.0E-01	7.7E-07
306	6.3E+01	8.5E-05	1.0E-03	5.7E-06	1.6E-01	7.0E-01	6.3E-07	1.5E+01	4.8E-04	1.0E-03	7.6E-06	1.6E-01	7.0E-01	8.4E-07
307	6.9E+01	8.5E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.8E-07	1.7E+01	4.8E-04	1.0E-03	8.3E-06	1.6E-01	7.0E-01	9.2E-07
308	7.4E+01	8.5E-05	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.3E-07	1.8E+01	4.8E-04	1.0E-03	9.0E-06	1.6E-01	7.0E-01	1.0E-06
309	8.0E+01	8.5E-05	1.0E-03	7.2E-06	1.6E-01	7.0E-01	7.9E-07	2.0E+01	4.8E-04	1.0E-03	9.9E-06	1.6E-01	7.0E-01	1.1E-06
310	8.7E+01	8.5E-05	1.0E-03	7.7E-06	1.6E-01	7.0E-01	8.5E-07	2.2E+01	4.8E-04	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06
311	9.2E+01	8.5E-05	1.0E-03	8.2E-06	1.6E-01	7.0E-01	9.1E-07	2.4E+01	4.8E-04	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06
312	9.7E+01	8.5E-05	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07	2.6E+01	4.8E-04	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.5E-06
313	1.0E+02	8.5E-05	1.0E-03	8.9E-06	1.6E-01	7.0E-01	9.9E-07	2.9E+01	4.8E-04	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.6E-06
314	1.0E+02	8.5E-05	1.0E-03	9.0E-06	1.6E-01	7.0E-01	9.9E-07	3.1E+01	4.8E-04	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.7E-06
315	9.7E+01	8.5E-05	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07	3.3E+01	4.8E-04	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.8E-06
316	7.8E+01	8.5E-05	1.0E-03	6.9E-06	1.6E-01	7.0E-01	7.7E-07	1.7E+01	4.8E-04	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07
317	8.6E+01	8.5E-05	1.0E-03	7.7E-06	1.6E-01	7.0E-01	8.5E-07	1.9E+01	4.8E-04	1.0E-03	9.6E-06	1.6E-01	7.0E-01	1.1E-06
318	9.5E+01	8.5E-05	1.0E-03	8.4E-06	1.6E-01	7.0E-01	9.3E-07	2.1E+01	4.8E-04	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06
319	1.0E+02	8.5E-05	1.0E-03	9.3E-06	1.6E-01	7.0E-01	1.0E-06	2.4E+01	4.8E-04	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06
320	1.1E+02	8.5E-05	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06	2.7E+01	4.8E-04	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.5E-06

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
321	3.7E+01	8.5E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07	3.0E+01	4.8E-04	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06
322	3.6E+01	8.5E-05	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07	1.6E+01	4.8E-04	1.0E-03	7.9E-06	1.6E-01	7.0E-01	8.7E-07
323	3.5E+01	8.5E-05	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07	1.7E+01	4.8E-04	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.4E-07
324	3.4E+01	8.5E-05	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07	1.9E+01	4.8E-04	1.0E-03	9.2E-06	1.6E-01	7.0E-01	1.0E-06
325	1.1E+02	8.5E-05	1.0E-03	9.9E-06	1.6E-01	7.0E-01	1.1E-06	2.3E+01	4.8E-04	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.3E-06
326	4.4E+01	8.5E-05	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07	2.6E+01	4.8E-04	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.4E-06
327	4.4E+01	8.5E-05	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07	3.0E+01	4.8E-04	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06
328	4.3E+01	8.5E-05	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07	1.5E+01	4.8E-04	1.0E-03	7.6E-06	1.6E-01	7.0E-01	8.4E-07
329	4.2E+01	8.5E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.7E+01	4.8E-04	1.0E-03	8.3E-06	1.6E-01	7.0E-01	9.2E-07
330	4.1E+01	8.5E-05	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.0E-07	1.8E+01	4.8E-04	1.0E-03	9.1E-06	1.6E-01	7.0E-01	1.0E-06
331	5.2E+01	8.5E-05	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.1E-07	1.5E+01	4.8E-04	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.0E-07
332	5.2E+01	8.5E-05	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.1E-07	1.6E+01	4.8E-04	1.0E-03	7.9E-06	1.6E-01	7.0E-01	8.8E-07
333	5.0E+01	8.5E-05	1.0E-03	4.5E-06	1.6E-01	7.0E-01	5.0E-07	1.8E+01	4.8E-04	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.7E-07
334	4.8E+01	8.5E-05	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07	1.9E+01	4.8E-04	1.0E-03	9.7E-06	1.6E-01	7.0E-01	1.1E-06
335	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
336	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
337	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
338	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.9E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
339	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
340	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
341	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
342	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.9E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
343	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
344	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
345	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
346	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	5.0E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
347	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
348	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
349	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.7E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
350	1.6E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.9E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
351	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
352	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.5E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
353	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.7E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
354	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.9E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
355	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.3E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
356	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.5E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
357	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.7E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
358	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.9E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
359	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
360	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.5E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
361	1.6E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.7E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
362	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
363	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
364	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
365	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
366	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
367	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
368	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
369	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
370	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
371	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
372	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
373	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.5E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
374	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.7E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
375	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
376	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
377	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.5E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
378	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.7E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
379	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
380	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
381	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
382	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
383	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
384	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
385	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
386	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
387	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
388	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
389	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.3E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
390	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.5E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
391	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
392	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
393	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
394	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
395	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.2E-07
396	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
397	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
398	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
399	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
400	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
401	1.6E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.1E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
402	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
403	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
404	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	3.9E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
405	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
406	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
407	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	3.7E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
408	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
409	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
410	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
411	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.7E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
412	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
413	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
414	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
415	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
416	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
417	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.2E-07
418	1.6E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
419	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
420	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	3.7E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.0E-07
421	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
422	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
423	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.5E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
424	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.7E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
425	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
426	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	3.9E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
427	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
428	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
429	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.7E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
430	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
431	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
432	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
433	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.7E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
434	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
435	1.2E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
436	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
437	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
438	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.7E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
439	1.1E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.3E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07
440	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
441	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
442	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	3.7E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
443	1.1E+01	8.5E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	3.3E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
444	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
445	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
446	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
447	1.1E+01	8.5E-05	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
448	1.1E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.3E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
450	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
451	6.3E+00	8.5E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
452	6.2E+00	8.5E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
453	6.0E+00	8.5E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	5.9E-08	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
454	5.8E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	4.9E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
455	7.8E+00	8.5E-05	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.7E-08	5.1E+00	4.8E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
456	7.6E+00	8.5E-05	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.5E-08	5.4E+00	4.8E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
457	7.3E+00	8.5E-05	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08	5.6E+00	4.8E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
458	6.9E+00	8.5E-05	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.8E-08	5.8E+00	4.8E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
459	9.8E+00	8.5E-05	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.7E-08	6.0E+00	4.8E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
460	9.6E+00	8.5E-05	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	6.4E+00	4.8E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
461	9.1E+00	8.5E-05	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08	6.7E+00	4.8E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07
462	4.7E+00	8.5E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	2.0E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
463	5.6E+00	8.5E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
464	4.5E+00	8.5E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	1.9E+00	4.8E-04	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07
465	5.3E+00	8.5E-05	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.3E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
466	6.4E+00	8.5E-05	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
467	7.9E+00	8.5E-05	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.8E-08	2.8E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
468	4.3E+00	8.5E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	1.9E+00	4.8E-04	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07
469	5.0E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	2.1E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
470	6.1E+00	8.5E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	6.0E-08	2.3E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
471	7.5E+00	8.5E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
472	4.8E+00	8.5E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08	2.0E+00	4.8E-04	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07
473	5.7E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
474	6.9E+00	8.5E-05	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.8E-08	2.5E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
475	4.4E+00	8.5E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	1.9E+00	4.8E-04	1.0E-03	9.5E-07	1.6E-01	7.0E-01	1.1E-07
476	5.3E+00	8.5E-05	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	2.1E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
477	6.4E+00	8.5E-05	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07

5. Risk by Construction Phase

g. Risk From Arch. Coating - Unmitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	1.2E-03	1.0E-03	3.5E-07	1.6E-01	6.6E-01	3.6E-08	6.6E-05	3.3E-04
2	3.0E-01	1.2E-03	1.0E-03	3.6E-07	1.6E-01	6.6E-01	3.8E-08	6.9E-05	3.5E-04
3	3.1E-01	1.2E-03	1.0E-03	3.8E-07	1.6E-01	6.6E-01	3.9E-08	7.2E-05	3.6E-04
4	3.2E-01	1.2E-03	1.0E-03	3.9E-07	1.6E-01	6.6E-01	4.0E-08	7.4E-05	3.7E-04
5	3.3E-01	1.2E-03	1.0E-03	4.0E-07	1.6E-01	6.6E-01	4.1E-08	7.6E-05	3.8E-04
6	3.4E-01	1.2E-03	1.0E-03	4.1E-07	1.6E-01	6.6E-01	4.2E-08	7.8E-05	3.9E-04
7	3.5E-01	1.2E-03	1.0E-03	4.2E-07	1.6E-01	6.6E-01	4.4E-08	8.1E-05	4.0E-04
8	3.6E-01	1.2E-03	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.5E-08	8.3E-05	4.1E-04
9	3.7E-01	1.2E-03	1.0E-03	4.5E-07	1.6E-01	6.6E-01	4.6E-08	8.6E-05	4.3E-04
10	3.8E-01	1.2E-03	1.0E-03	4.7E-07	1.6E-01	6.6E-01	4.8E-08	8.9E-05	4.5E-04
11	4.0E-01	1.2E-03	1.0E-03	4.9E-07	1.6E-01	6.6E-01	5.0E-08	9.3E-05	4.6E-04
12	4.1E-01	1.2E-03	1.0E-03	5.0E-07	1.6E-01	6.6E-01	5.2E-08	9.6E-05	4.8E-04
13	4.3E-01	1.2E-03	1.0E-03	5.2E-07	1.6E-01	6.6E-01	5.4E-08	9.9E-05	5.0E-04
14	4.3E-01	1.2E-03	1.0E-03	5.3E-07	1.6E-01	6.6E-01	5.5E-08	1.0E-04	5.1E-04
15	4.3E-01	1.2E-03	1.0E-03	5.2E-07	1.6E-01	6.6E-01	5.4E-08	1.0E-04	5.0E-04
16	4.2E-01	1.2E-03	1.0E-03	5.1E-07	1.6E-01	6.6E-01	5.3E-08	9.8E-05	4.9E-04
17	3.2E-01	1.2E-03	1.0E-03	3.9E-07	1.6E-01	6.6E-01	4.0E-08	7.4E-05	3.7E-04
18	3.4E-01	1.2E-03	1.0E-03	4.1E-07	1.6E-01	6.6E-01	4.2E-08	7.9E-05	3.9E-04
19	3.6E-01	1.2E-03	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.5E-08	8.3E-05	4.1E-04
20	3.7E-01	1.2E-03	1.0E-03	4.5E-07	1.6E-01	6.6E-01	4.7E-08	8.7E-05	4.3E-04
21	3.9E-01	1.2E-03	1.0E-03	4.7E-07	1.6E-01	6.6E-01	4.8E-08	9.0E-05	4.5E-04
22	4.0E-01	1.2E-03	1.0E-03	4.9E-07	1.6E-01	6.6E-01	5.0E-08	9.3E-05	4.6E-04
23	5.2E-01	1.2E-03	1.0E-03	6.3E-07	1.6E-01	6.6E-01	6.6E-08	1.2E-04	6.1E-04
24	5.3E-01	1.2E-03	1.0E-03	6.5E-07	1.6E-01	6.6E-01	6.7E-08	1.2E-04	6.2E-04
25	5.3E-01	1.2E-03	1.0E-03	6.4E-07	1.6E-01	6.6E-01	6.6E-08	1.2E-04	6.2E-04
26	5.2E-01	1.2E-03	1.0E-03	6.3E-07	1.6E-01	6.6E-01	6.5E-08	1.2E-04	6.0E-04
27	5.0E-01	1.2E-03	1.0E-03	6.0E-07	1.6E-01	6.6E-01	6.2E-08	1.2E-04	5.8E-04
28	3.5E-01	1.2E-03	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.4E-08	8.2E-05	4.1E-04
29	4.1E-01	1.2E-03	1.0E-03	5.0E-07	1.6E-01	6.6E-01	5.1E-08	9.5E-05	4.8E-04
30	4.3E-01	1.2E-03	1.0E-03	5.3E-07	1.6E-01	6.6E-01	5.5E-08	1.0E-04	5.0E-04
31	4.6E-01	1.2E-03	1.0E-03	5.6E-07	1.6E-01	6.6E-01	5.8E-08	1.1E-04	5.3E-04
32	4.8E-01	1.2E-03	1.0E-03	5.9E-07	1.6E-01	6.6E-01	6.1E-08	1.1E-04	5.6E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	1.2E-03	1.0E-03	6.1E-07	1.6E-01	6.6E-01	6.3E-08	1.2E-04	5.9E-04
34	5.2E-01	1.2E-03	1.0E-03	6.3E-07	1.6E-01	6.6E-01	6.5E-08	1.2E-04	6.1E-04
35	5.5E-01	1.2E-03	1.0E-03	6.6E-07	1.6E-01	6.6E-01	6.9E-08	1.3E-04	6.4E-04
36	5.7E-01	1.2E-03	1.0E-03	7.0E-07	1.6E-01	6.6E-01	7.2E-08	1.3E-04	6.7E-04
37	6.3E-01	1.2E-03	1.0E-03	7.7E-07	1.6E-01	6.6E-01	8.0E-08	1.5E-04	7.4E-04
38	6.6E-01	1.2E-03	1.0E-03	8.0E-07	1.6E-01	6.6E-01	8.3E-08	1.5E-04	7.6E-04
39	6.7E-01	1.2E-03	1.0E-03	8.2E-07	1.6E-01	6.6E-01	8.5E-08	1.6E-04	7.8E-04
40	6.5E-01	1.2E-03	1.0E-03	7.9E-07	1.6E-01	6.6E-01	8.2E-08	1.5E-04	7.6E-04
41	6.2E-01	1.2E-03	1.0E-03	7.6E-07	1.6E-01	6.6E-01	7.8E-08	1.5E-04	7.3E-04
42	5.9E-01	1.2E-03	1.0E-03	7.2E-07	1.6E-01	6.6E-01	7.4E-08	1.4E-04	6.9E-04
43	3.9E-01	1.2E-03	1.0E-03	4.7E-07	1.6E-01	6.6E-01	4.9E-08	9.0E-05	4.5E-04
44	4.3E-01	1.2E-03	1.0E-03	5.2E-07	1.6E-01	6.6E-01	5.4E-08	9.9E-05	5.0E-04
45	4.7E-01	1.2E-03	1.0E-03	5.7E-07	1.6E-01	6.6E-01	5.9E-08	1.1E-04	5.4E-04
46	5.5E-01	1.2E-03	1.0E-03	6.7E-07	1.6E-01	6.6E-01	6.9E-08	1.3E-04	6.4E-04
47	5.9E-01	1.2E-03	1.0E-03	7.2E-07	1.6E-01	6.6E-01	7.4E-08	1.4E-04	6.9E-04
48	6.2E-01	1.2E-03	1.0E-03	7.6E-07	1.6E-01	6.6E-01	7.8E-08	1.5E-04	7.3E-04
49	6.5E-01	1.2E-03	1.0E-03	7.9E-07	1.6E-01	6.6E-01	8.2E-08	1.5E-04	7.6E-04
50	6.9E-01	1.2E-03	1.0E-03	8.4E-07	1.6E-01	6.6E-01	8.7E-08	1.6E-04	8.1E-04
51	7.3E-01	1.2E-03	1.0E-03	8.9E-07	1.6E-01	6.6E-01	9.2E-08	1.7E-04	8.5E-04
52	8.2E-01	1.2E-03	1.0E-03	1.0E-06	1.6E-01	6.6E-01	1.0E-07	1.9E-04	9.6E-04
53	8.6E-01	1.2E-03	1.0E-03	1.0E-06	1.6E-01	6.6E-01	1.1E-07	2.0E-04	1.0E-03
54	8.8E-01	1.2E-03	1.0E-03	1.1E-06	1.6E-01	6.6E-01	1.1E-07	2.0E-04	1.0E-03
55	8.9E-01	1.2E-03	1.0E-03	1.1E-06	1.6E-01	6.6E-01	1.1E-07	2.1E-04	1.0E-03
56	8.9E-01	1.2E-03	1.0E-03	1.1E-06	1.6E-01	6.6E-01	1.1E-07	2.1E-04	1.0E-03
57	8.1E-01	1.2E-03	1.0E-03	9.8E-07	1.6E-01	6.6E-01	1.0E-07	1.9E-04	9.4E-04
58	7.6E-01	1.2E-03	1.0E-03	9.2E-07	1.6E-01	6.6E-01	9.5E-08	1.8E-04	8.8E-04
59	7.0E-01	1.2E-03	1.0E-03	8.6E-07	1.6E-01	6.6E-01	8.9E-08	1.6E-04	8.2E-04
60	4.2E-01	1.2E-03	1.0E-03	5.1E-07	1.6E-01	6.6E-01	5.3E-08	9.8E-05	4.9E-04
61	4.7E-01	1.2E-03	1.0E-03	5.7E-07	1.6E-01	6.6E-01	5.9E-08	1.1E-04	5.5E-04
62	5.3E-01	1.2E-03	1.0E-03	6.4E-07	1.6E-01	6.6E-01	6.6E-08	1.2E-04	6.1E-04
63	5.9E-01	1.2E-03	1.0E-03	7.2E-07	1.6E-01	6.6E-01	7.4E-08	1.4E-04	6.9E-04
64	6.6E-01	1.2E-03	1.0E-03	8.0E-07	1.6E-01	6.6E-01	8.2E-08	1.5E-04	7.6E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	1.2E-03	1.0E-03	1.0E-06	1.6E-01	6.6E-01	1.1E-07	2.0E-04	9.8E-04
66	9.1E-01	1.2E-03	1.0E-03	1.1E-06	1.6E-01	6.6E-01	1.1E-07	2.1E-04	1.1E-03
67	9.7E-01	1.2E-03	1.0E-03	1.2E-06	1.6E-01	6.6E-01	1.2E-07	2.3E-04	1.1E-03
68	1.1E+00	1.2E-03	1.0E-03	1.4E-06	1.6E-01	6.6E-01	1.4E-07	2.6E-04	1.3E-03
69	1.2E+00	1.2E-03	1.0E-03	1.4E-06	1.6E-01	6.6E-01	1.5E-07	2.7E-04	1.4E-03
70	1.2E+00	1.2E-03	1.0E-03	1.5E-06	1.6E-01	6.6E-01	1.5E-07	2.8E-04	1.4E-03
71	1.2E+00	1.2E-03	1.0E-03	1.5E-06	1.6E-01	6.6E-01	1.5E-07	2.8E-04	1.4E-03
72	1.2E+00	1.2E-03	1.0E-03	1.5E-06	1.6E-01	6.6E-01	1.5E-07	2.8E-04	1.4E-03
73	4.4E-01	1.2E-03	1.0E-03	5.4E-07	1.6E-01	6.6E-01	5.6E-08	1.0E-04	5.1E-04
74	5.0E-01	1.2E-03	1.0E-03	6.1E-07	1.6E-01	6.6E-01	6.3E-08	1.2E-04	5.9E-04
75	5.8E-01	1.2E-03	1.0E-03	7.0E-07	1.6E-01	6.6E-01	7.3E-08	1.3E-04	6.7E-04
76	6.7E-01	1.2E-03	1.0E-03	8.1E-07	1.6E-01	6.6E-01	8.4E-08	1.6E-04	7.8E-04
77	7.7E-01	1.2E-03	1.0E-03	9.4E-07	1.6E-01	6.6E-01	9.7E-08	1.8E-04	9.0E-04
78	8.8E-01	1.2E-03	1.0E-03	1.1E-06	1.6E-01	6.6E-01	1.1E-07	2.1E-04	1.0E-03
79	1.0E+00	1.2E-03	1.0E-03	1.2E-06	1.6E-01	6.6E-01	1.3E-07	2.3E-04	1.2E-03
80	1.4E+00	1.2E-03	1.0E-03	1.7E-06	1.6E-01	6.6E-01	1.7E-07	3.2E-04	1.6E-03
81	1.6E+00	1.2E-03	1.0E-03	2.0E-06	1.6E-01	6.6E-01	2.0E-07	3.8E-04	1.9E-03
82	1.7E+00	1.2E-03	1.0E-03	2.1E-06	1.6E-01	6.6E-01	2.2E-07	4.0E-04	2.0E-03
83	1.7E+00	1.2E-03	1.0E-03	2.1E-06	1.6E-01	6.6E-01	2.2E-07	4.0E-04	2.0E-03
84	1.7E+00	1.2E-03	1.0E-03	2.1E-06	1.6E-01	6.6E-01	2.2E-07	4.0E-04	2.0E-03
85	1.7E+00	1.2E-03	1.0E-03	2.0E-06	1.6E-01	6.6E-01	2.1E-07	3.9E-04	1.9E-03
86	4.5E-01	1.2E-03	1.0E-03	5.4E-07	1.6E-01	6.6E-01	5.6E-08	1.0E-04	5.2E-04
87	5.2E-01	1.2E-03	1.0E-03	6.4E-07	1.6E-01	6.6E-01	6.6E-08	1.2E-04	6.1E-04
88	6.2E-01	1.2E-03	1.0E-03	7.6E-07	1.6E-01	6.6E-01	7.8E-08	1.4E-04	7.2E-04
89	7.4E-01	1.2E-03	1.0E-03	9.0E-07	1.6E-01	6.6E-01	9.3E-08	1.7E-04	8.6E-04
90	8.8E-01	1.2E-03	1.0E-03	1.1E-06	1.6E-01	6.6E-01	1.1E-07	2.1E-04	1.0E-03
91	1.1E+00	1.2E-03	1.0E-03	1.3E-06	1.6E-01	6.6E-01	1.3E-07	2.5E-04	1.2E-03
92	1.3E+00	1.2E-03	1.0E-03	1.5E-06	1.6E-01	6.6E-01	1.6E-07	3.0E-04	1.5E-03
93	1.5E+00	1.2E-03	1.0E-03	1.8E-06	1.6E-01	6.6E-01	1.9E-07	3.5E-04	1.8E-03
94	1.8E+00	1.2E-03	1.0E-03	2.2E-06	1.6E-01	6.6E-01	2.2E-07	4.1E-04	2.1E-03
95	2.6E+00	1.2E-03	1.0E-03	3.2E-06	1.6E-01	6.6E-01	3.3E-07	6.1E-04	3.1E-03
96	2.4E+00	1.2E-03	1.0E-03	2.9E-06	1.6E-01	6.6E-01	3.0E-07	5.6E-04	2.8E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	1.2E-03	1.0E-03	5.6E-07	1.6E-01	6.6E-01	5.7E-08	1.1E-04	5.3E-04
98	5.4E-01	1.2E-03	1.0E-03	6.5E-07	1.6E-01	6.6E-01	6.7E-08	1.2E-04	6.2E-04
99	6.4E-01	1.2E-03	1.0E-03	7.8E-07	1.6E-01	6.6E-01	8.0E-08	1.5E-04	7.4E-04
100	1.2E+00	1.2E-03	1.0E-03	1.5E-06	1.6E-01	6.6E-01	1.5E-07	2.8E-04	1.4E-03
101	1.5E+00	1.2E-03	1.0E-03	1.9E-06	1.6E-01	6.6E-01	1.9E-07	3.6E-04	1.8E-03
102	2.0E+00	1.2E-03	1.0E-03	2.4E-06	1.6E-01	6.6E-01	2.5E-07	4.7E-04	2.3E-03
103	2.6E+00	1.2E-03	1.0E-03	3.2E-06	1.6E-01	6.6E-01	3.3E-07	6.2E-04	3.1E-03
104	4.5E-01	1.2E-03	1.0E-03	5.4E-07	1.6E-01	6.6E-01	5.6E-08	1.0E-04	5.2E-04
105	5.3E-01	1.2E-03	1.0E-03	6.4E-07	1.6E-01	6.6E-01	6.7E-08	1.2E-04	6.2E-04
106	6.4E-01	1.2E-03	1.0E-03	7.8E-07	1.6E-01	6.6E-01	8.1E-08	1.5E-04	7.5E-04
107	2.5E+00	1.2E-03	1.0E-03	3.0E-06	1.6E-01	6.6E-01	3.1E-07	5.8E-04	2.9E-03
108	3.8E+00	1.2E-03	1.0E-03	4.6E-06	1.6E-01	6.6E-01	4.8E-07	8.9E-04	4.4E-03
109	4.3E-01	1.2E-03	1.0E-03	5.2E-07	1.6E-01	6.6E-01	5.4E-08	9.9E-05	5.0E-04
110	5.1E-01	1.2E-03	1.0E-03	6.2E-07	1.6E-01	6.6E-01	6.4E-08	1.2E-04	5.9E-04
111	6.2E-01	1.2E-03	1.0E-03	7.5E-07	1.6E-01	6.6E-01	7.7E-08	1.4E-04	7.2E-04
112	2.8E+00	1.2E-03	1.0E-03	3.4E-06	1.6E-01	6.6E-01	3.5E-07	6.4E-04	3.2E-03
113	4.7E+00	1.2E-03	1.0E-03	5.7E-06	1.6E-01	6.6E-01	5.9E-07	1.1E-03	5.4E-03
114	4.0E-01	1.2E-03	1.0E-03	4.9E-07	1.6E-01	6.6E-01	5.0E-08	9.4E-05	4.7E-04
115	4.8E-01	1.2E-03	1.0E-03	5.8E-07	1.6E-01	6.6E-01	6.0E-08	1.1E-04	5.5E-04
116	5.8E-01	1.2E-03	1.0E-03	7.0E-07	1.6E-01	6.6E-01	7.3E-08	1.3E-04	6.7E-04
117	7.2E-01	1.2E-03	1.0E-03	8.7E-07	1.6E-01	6.6E-01	9.0E-08	1.7E-04	8.3E-04
118	2.7E+00	1.2E-03	1.0E-03	3.3E-06	1.6E-01	6.6E-01	3.4E-07	6.2E-04	3.1E-03
119	4.7E+00	1.2E-03	1.0E-03	5.8E-06	1.6E-01	6.6E-01	6.0E-07	1.1E-03	5.5E-03
120	3.7E-01	1.2E-03	1.0E-03	4.6E-07	1.6E-01	6.6E-01	4.7E-08	8.7E-05	4.4E-04
121	4.4E-01	1.2E-03	1.0E-03	5.4E-07	1.6E-01	6.6E-01	5.6E-08	1.0E-04	5.1E-04
122	5.3E-01	1.2E-03	1.0E-03	6.5E-07	1.6E-01	6.6E-01	6.7E-08	1.2E-04	6.2E-04
123	6.6E-01	1.2E-03	1.0E-03	8.0E-07	1.6E-01	6.6E-01	8.2E-08	1.5E-04	7.6E-04
124	2.3E+00	1.2E-03	1.0E-03	2.8E-06	1.6E-01	6.6E-01	2.9E-07	5.4E-04	2.7E-03
125	4.0E+00	1.2E-03	1.0E-03	4.9E-06	1.6E-01	6.6E-01	5.0E-07	9.3E-04	4.7E-03
126	3.5E-01	1.2E-03	1.0E-03	4.2E-07	1.6E-01	6.6E-01	4.4E-08	8.1E-05	4.1E-04
127	4.1E-01	1.2E-03	1.0E-03	5.0E-07	1.6E-01	6.6E-01	5.1E-08	9.5E-05	4.8E-04
128	4.9E-01	1.2E-03	1.0E-03	5.9E-07	1.6E-01	6.6E-01	6.1E-08	1.1E-04	5.7E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	1.2E-03	1.0E-03	7.2E-07	1.6E-01	6.6E-01	7.5E-08	1.4E-04	6.9E-04
130	7.4E-01	1.2E-03	1.0E-03	9.1E-07	1.6E-01	6.6E-01	9.4E-08	1.7E-04	8.7E-04
131	9.7E-01	1.2E-03	1.0E-03	1.2E-06	1.6E-01	6.6E-01	1.2E-07	2.2E-04	1.1E-03
132	1.3E+00	1.2E-03	1.0E-03	1.6E-06	1.6E-01	6.6E-01	1.6E-07	3.1E-04	1.5E-03
133	1.9E+00	1.2E-03	1.0E-03	2.3E-06	1.6E-01	6.6E-01	2.4E-07	4.4E-04	2.2E-03
134	3.0E+00	1.2E-03	1.0E-03	3.6E-06	1.6E-01	6.6E-01	3.8E-07	7.0E-04	3.5E-03
135	5.4E+00	1.2E-03	1.0E-03	6.5E-06	1.6E-01	6.6E-01	6.7E-07	1.2E-03	6.2E-03
136	3.2E-01	1.2E-03	1.0E-03	3.9E-07	1.6E-01	6.6E-01	4.1E-08	7.5E-05	3.8E-04
137	3.8E-01	1.2E-03	1.0E-03	4.6E-07	1.6E-01	6.6E-01	4.7E-08	8.8E-05	4.4E-04
138	4.5E-01	1.2E-03	1.0E-03	5.4E-07	1.6E-01	6.6E-01	5.6E-08	1.0E-04	5.2E-04
139	5.4E-01	1.2E-03	1.0E-03	6.5E-07	1.6E-01	6.6E-01	6.7E-08	1.2E-04	6.2E-04
140	6.6E-01	1.2E-03	1.0E-03	8.1E-07	1.6E-01	6.6E-01	8.3E-08	1.5E-04	7.7E-04
141	8.4E-01	1.2E-03	1.0E-03	1.0E-06	1.6E-01	6.6E-01	1.1E-07	2.0E-04	9.8E-04
142	1.1E+00	1.2E-03	1.0E-03	1.3E-06	1.6E-01	6.6E-01	1.4E-07	2.6E-04	1.3E-03
143	1.5E+00	1.2E-03	1.0E-03	1.8E-06	1.6E-01	6.6E-01	1.9E-07	3.5E-04	1.8E-03
144	2.1E+00	1.2E-03	1.0E-03	2.6E-06	1.6E-01	6.6E-01	2.7E-07	4.9E-04	2.5E-03
145	3.1E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.9E-07	7.1E-04	3.6E-03
146	3.0E-01	1.2E-03	1.0E-03	3.7E-07	1.6E-01	6.6E-01	3.8E-08	7.0E-05	3.5E-04
147	3.5E-01	1.2E-03	1.0E-03	4.2E-07	1.6E-01	6.6E-01	4.4E-08	8.1E-05	4.0E-04
148	4.1E-01	1.2E-03	1.0E-03	4.9E-07	1.6E-01	6.6E-01	5.1E-08	9.4E-05	4.7E-04
149	4.8E-01	1.2E-03	1.0E-03	5.9E-07	1.6E-01	6.6E-01	6.1E-08	1.1E-04	5.6E-04
150	5.9E-01	1.2E-03	1.0E-03	7.1E-07	1.6E-01	6.6E-01	7.4E-08	1.4E-04	6.8E-04
151	7.2E-01	1.2E-03	1.0E-03	8.8E-07	1.6E-01	6.6E-01	9.1E-08	1.7E-04	8.4E-04
152	9.0E-01	1.2E-03	1.0E-03	1.1E-06	1.6E-01	6.6E-01	1.1E-07	2.1E-04	1.0E-03
153	1.2E+00	1.2E-03	1.0E-03	1.4E-06	1.6E-01	6.6E-01	1.5E-07	2.7E-04	1.4E-03
154	1.5E+00	1.2E-03	1.0E-03	1.8E-06	1.6E-01	6.6E-01	1.8E-07	3.4E-04	1.7E-03
155	1.9E+00	1.2E-03	1.0E-03	2.3E-06	1.6E-01	6.6E-01	2.4E-07	4.4E-04	2.2E-03
156	2.8E-01	1.2E-03	1.0E-03	3.4E-07	1.6E-01	6.6E-01	3.5E-08	6.5E-05	3.3E-04
157	3.2E-01	1.2E-03	1.0E-03	3.9E-07	1.6E-01	6.6E-01	4.0E-08	7.5E-05	3.7E-04
158	3.7E-01	1.2E-03	1.0E-03	4.5E-07	1.6E-01	6.6E-01	4.7E-08	8.6E-05	4.3E-04
159	4.3E-01	1.2E-03	1.0E-03	5.3E-07	1.6E-01	6.6E-01	5.5E-08	1.0E-04	5.1E-04
160	5.2E-01	1.2E-03	1.0E-03	6.3E-07	1.6E-01	6.6E-01	6.5E-08	1.2E-04	6.0E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	1.2E-03	1.0E-03	7.5E-07	1.6E-01	6.6E-01	7.8E-08	1.4E-04	7.2E-04
162	7.4E-01	1.2E-03	1.0E-03	9.1E-07	1.6E-01	6.6E-01	9.4E-08	1.7E-04	8.7E-04
163	9.0E-01	1.2E-03	1.0E-03	1.1E-06	1.6E-01	6.6E-01	1.1E-07	2.1E-04	1.0E-03
164	1.1E+00	1.2E-03	1.0E-03	1.3E-06	1.6E-01	6.6E-01	1.3E-07	2.5E-04	1.2E-03
165	1.3E+00	1.2E-03	1.0E-03	1.6E-06	1.6E-01	6.6E-01	1.6E-07	3.0E-04	1.5E-03
166	2.6E-01	1.2E-03	1.0E-03	3.2E-07	1.6E-01	6.6E-01	3.3E-08	6.0E-05	3.0E-04
167	2.9E-01	1.2E-03	1.0E-03	3.6E-07	1.6E-01	6.6E-01	3.7E-08	6.8E-05	3.4E-04
168	3.4E-01	1.2E-03	1.0E-03	4.1E-07	1.6E-01	6.6E-01	4.2E-08	7.8E-05	3.9E-04
169	3.9E-01	1.2E-03	1.0E-03	4.7E-07	1.6E-01	6.6E-01	4.9E-08	9.0E-05	4.5E-04
170	4.5E-01	1.2E-03	1.0E-03	5.5E-07	1.6E-01	6.6E-01	5.7E-08	1.1E-04	5.3E-04
171	5.3E-01	1.2E-03	1.0E-03	6.4E-07	1.6E-01	6.6E-01	6.6E-08	1.2E-04	6.1E-04
172	6.1E-01	1.2E-03	1.0E-03	7.4E-07	1.6E-01	6.6E-01	7.7E-08	1.4E-04	7.1E-04
173	7.1E-01	1.2E-03	1.0E-03	8.6E-07	1.6E-01	6.6E-01	8.9E-08	1.6E-04	8.2E-04
174	8.2E-01	1.2E-03	1.0E-03	9.9E-07	1.6E-01	6.6E-01	1.0E-07	1.9E-04	9.5E-04
175	9.5E-01	1.2E-03	1.0E-03	1.2E-06	1.6E-01	6.6E-01	1.2E-07	2.2E-04	1.1E-03
176	2.4E-01	1.2E-03	1.0E-03	2.9E-07	1.6E-01	6.6E-01	3.0E-08	5.6E-05	2.8E-04
177	2.7E-01	1.2E-03	1.0E-03	3.3E-07	1.6E-01	6.6E-01	3.4E-08	6.3E-05	3.1E-04
178	3.0E-01	1.2E-03	1.0E-03	3.7E-07	1.6E-01	6.6E-01	3.8E-08	7.1E-05	3.5E-04
179	3.5E-01	1.2E-03	1.0E-03	4.2E-07	1.6E-01	6.6E-01	4.3E-08	8.1E-05	4.0E-04
180	3.9E-01	1.2E-03	1.0E-03	4.8E-07	1.6E-01	6.6E-01	5.0E-08	9.2E-05	4.6E-04
181	4.5E-01	1.2E-03	1.0E-03	5.5E-07	1.6E-01	6.6E-01	5.7E-08	1.1E-04	5.3E-04
182	5.1E-01	1.2E-03	1.0E-03	6.2E-07	1.6E-01	6.6E-01	6.4E-08	1.2E-04	5.9E-04
183	5.7E-01	1.2E-03	1.0E-03	7.0E-07	1.6E-01	6.6E-01	7.2E-08	1.3E-04	6.7E-04
184	6.4E-01	1.2E-03	1.0E-03	7.8E-07	1.6E-01	6.6E-01	8.0E-08	1.5E-04	7.4E-04
185	7.2E-01	1.2E-03	1.0E-03	8.8E-07	1.6E-01	6.6E-01	9.1E-08	1.7E-04	8.4E-04
186	5.9E-01	1.2E-03	1.0E-03	7.1E-07	1.6E-01	6.6E-01	7.4E-08	1.4E-04	6.8E-04
187	5.2E-01	1.2E-03	1.0E-03	6.4E-07	1.6E-01	6.6E-01	6.6E-08	1.2E-04	6.1E-04
188	4.7E-01	1.2E-03	1.0E-03	5.7E-07	1.6E-01	6.6E-01	5.8E-08	1.1E-04	5.4E-04
189	2.2E-01	1.2E-03	1.0E-03	2.7E-07	1.6E-01	6.6E-01	2.8E-08	5.2E-05	2.6E-04
190	2.5E-01	1.2E-03	1.0E-03	3.0E-07	1.6E-01	6.6E-01	3.1E-08	5.7E-05	2.9E-04
191	2.7E-01	1.2E-03	1.0E-03	3.3E-07	1.6E-01	6.6E-01	3.5E-08	6.4E-05	3.2E-04
192	3.1E-01	1.2E-03	1.0E-03	3.7E-07	1.6E-01	6.6E-01	3.9E-08	7.2E-05	3.6E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	1.2E-03	1.0E-03	4.2E-07	1.6E-01	6.6E-01	4.3E-08	8.0E-05	4.0E-04
194	3.8E-01	1.2E-03	1.0E-03	4.7E-07	1.6E-01	6.6E-01	4.8E-08	8.9E-05	4.5E-04
195	4.3E-01	1.2E-03	1.0E-03	5.2E-07	1.6E-01	6.6E-01	5.4E-08	9.9E-05	5.0E-04
196	4.7E-01	1.2E-03	1.0E-03	5.7E-07	1.6E-01	6.6E-01	5.9E-08	1.1E-04	5.5E-04
197	5.6E-01	1.2E-03	1.0E-03	6.9E-07	1.6E-01	6.6E-01	7.1E-08	1.3E-04	6.6E-04
198	6.1E-01	1.2E-03	1.0E-03	7.4E-07	1.6E-01	6.6E-01	7.6E-08	1.4E-04	7.1E-04
199	5.7E-01	1.2E-03	1.0E-03	7.0E-07	1.6E-01	6.6E-01	7.2E-08	1.3E-04	6.7E-04
200	5.3E-01	1.2E-03	1.0E-03	6.5E-07	1.6E-01	6.6E-01	6.7E-08	1.2E-04	6.2E-04
201	4.9E-01	1.2E-03	1.0E-03	6.0E-07	1.6E-01	6.6E-01	6.2E-08	1.1E-04	5.7E-04
202	4.5E-01	1.2E-03	1.0E-03	5.5E-07	1.6E-01	6.6E-01	5.7E-08	1.0E-04	5.2E-04
203	4.1E-01	1.2E-03	1.0E-03	5.0E-07	1.6E-01	6.6E-01	5.1E-08	9.5E-05	4.8E-04
204	2.0E-01	1.2E-03	1.0E-03	2.5E-07	1.6E-01	6.6E-01	2.6E-08	4.8E-05	2.4E-04
205	2.3E-01	1.2E-03	1.0E-03	2.7E-07	1.6E-01	6.6E-01	2.8E-08	5.2E-05	2.6E-04
206	2.5E-01	1.2E-03	1.0E-03	3.0E-07	1.6E-01	6.6E-01	3.1E-08	5.8E-05	2.9E-04
207	2.7E-01	1.2E-03	1.0E-03	3.3E-07	1.6E-01	6.6E-01	3.5E-08	6.4E-05	3.2E-04
208	3.0E-01	1.2E-03	1.0E-03	3.7E-07	1.6E-01	6.6E-01	3.8E-08	7.0E-05	3.5E-04
209	3.3E-01	1.2E-03	1.0E-03	4.0E-07	1.6E-01	6.6E-01	4.2E-08	7.7E-05	3.9E-04
210	3.6E-01	1.2E-03	1.0E-03	4.4E-07	1.6E-01	6.6E-01	4.6E-08	8.4E-05	4.2E-04
211	4.2E-01	1.2E-03	1.0E-03	5.2E-07	1.6E-01	6.6E-01	5.3E-08	9.9E-05	4.9E-04
212	4.5E-01	1.2E-03	1.0E-03	5.5E-07	1.6E-01	6.6E-01	5.7E-08	1.0E-04	5.2E-04
213	5.0E-01	1.2E-03	1.0E-03	6.1E-07	1.6E-01	6.6E-01	6.3E-08	1.2E-04	5.8E-04
214	5.0E-01	1.2E-03	1.0E-03	6.0E-07	1.6E-01	6.6E-01	6.2E-08	1.2E-04	5.8E-04
215	4.9E-01	1.2E-03	1.0E-03	5.9E-07	1.6E-01	6.6E-01	6.1E-08	1.1E-04	5.7E-04
216	4.7E-01	1.2E-03	1.0E-03	5.7E-07	1.6E-01	6.6E-01	5.9E-08	1.1E-04	5.4E-04
217	4.4E-01	1.2E-03	1.0E-03	5.4E-07	1.6E-01	6.6E-01	5.6E-08	1.0E-04	5.2E-04
218	4.2E-01	1.2E-03	1.0E-03	5.1E-07	1.6E-01	6.6E-01	5.2E-08	9.7E-05	4.8E-04
219	3.9E-01	1.2E-03	1.0E-03	4.7E-07	1.6E-01	6.6E-01	4.9E-08	9.0E-05	4.5E-04
220	3.5E-01	1.2E-03	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.5E-08	8.2E-05	4.1E-04
221	1.9E-01	1.2E-03	1.0E-03	2.3E-07	1.6E-01	6.6E-01	2.4E-08	4.4E-05	2.2E-04
222	2.1E-01	1.2E-03	1.0E-03	2.5E-07	1.6E-01	6.6E-01	2.6E-08	4.8E-05	2.4E-04
223	2.2E-01	1.2E-03	1.0E-03	2.7E-07	1.6E-01	6.6E-01	2.8E-08	5.2E-05	2.6E-04
224	2.5E-01	1.2E-03	1.0E-03	3.0E-07	1.6E-01	6.6E-01	3.1E-08	5.7E-05	2.9E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	1.2E-03	1.0E-03	3.2E-07	1.6E-01	6.6E-01	3.4E-08	6.2E-05	3.1E-04
226	3.1E-01	1.2E-03	1.0E-03	3.8E-07	1.6E-01	6.6E-01	3.9E-08	7.3E-05	3.6E-04
227	3.3E-01	1.2E-03	1.0E-03	4.1E-07	1.6E-01	6.6E-01	4.2E-08	7.8E-05	3.9E-04
228	3.5E-01	1.2E-03	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.4E-08	8.2E-05	4.1E-04
229	3.7E-01	1.2E-03	1.0E-03	4.5E-07	1.6E-01	6.6E-01	4.7E-08	8.6E-05	4.3E-04
230	4.0E-01	1.2E-03	1.0E-03	4.9E-07	1.6E-01	6.6E-01	5.1E-08	9.4E-05	4.7E-04
231	4.0E-01	1.2E-03	1.0E-03	4.9E-07	1.6E-01	6.6E-01	5.1E-08	9.4E-05	4.7E-04
232	4.0E-01	1.2E-03	1.0E-03	4.8E-07	1.6E-01	6.6E-01	5.0E-08	9.3E-05	4.6E-04
233	3.9E-01	1.2E-03	1.0E-03	4.7E-07	1.6E-01	6.6E-01	4.9E-08	9.0E-05	4.5E-04
234	3.7E-01	1.2E-03	1.0E-03	4.5E-07	1.6E-01	6.6E-01	4.7E-08	8.6E-05	4.3E-04
235	3.5E-01	1.2E-03	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.4E-08	8.2E-05	4.1E-04
236	3.3E-01	1.2E-03	1.0E-03	4.0E-07	1.6E-01	6.6E-01	4.2E-08	7.7E-05	3.9E-04
237	3.1E-01	1.2E-03	1.0E-03	3.8E-07	1.6E-01	6.6E-01	3.9E-08	7.2E-05	3.6E-04
238	1.8E+00	1.2E-03	1.0E-03	2.2E-06	1.6E-01	6.6E-01	2.3E-07	4.2E-04	2.1E-03
239	1.8E+00	1.2E-03	1.0E-03	2.2E-06	1.6E-01	6.6E-01	2.3E-07	4.3E-04	2.1E-03
240	1.9E+00	1.2E-03	1.0E-03	2.3E-06	1.6E-01	6.6E-01	2.3E-07	4.3E-04	2.2E-03
241	1.9E+00	1.2E-03	1.0E-03	2.3E-06	1.6E-01	6.6E-01	2.4E-07	4.4E-04	2.2E-03
242	1.9E+00	1.2E-03	1.0E-03	2.3E-06	1.6E-01	6.6E-01	2.4E-07	4.5E-04	2.2E-03
243	1.9E+00	1.2E-03	1.0E-03	2.4E-06	1.6E-01	6.6E-01	2.4E-07	4.5E-04	2.3E-03
244	2.0E+00	1.2E-03	1.0E-03	2.4E-06	1.6E-01	6.6E-01	2.5E-07	4.6E-04	2.3E-03
245	2.0E+00	1.2E-03	1.0E-03	2.4E-06	1.6E-01	6.6E-01	2.5E-07	4.7E-04	2.3E-03
246	2.0E+00	1.2E-03	1.0E-03	2.5E-06	1.6E-01	6.6E-01	2.6E-07	4.7E-04	2.4E-03
247	2.1E+00	1.2E-03	1.0E-03	2.5E-06	1.6E-01	6.6E-01	2.6E-07	4.8E-04	2.4E-03
248	2.1E+00	1.2E-03	1.0E-03	2.6E-06	1.6E-01	6.6E-01	2.6E-07	4.9E-04	2.4E-03
249	2.1E+00	1.2E-03	1.0E-03	2.6E-06	1.6E-01	6.6E-01	2.7E-07	5.0E-04	2.5E-03
250	2.2E+00	1.2E-03	1.0E-03	2.6E-06	1.6E-01	6.6E-01	2.7E-07	5.0E-04	2.5E-03
251	2.2E+00	1.2E-03	1.0E-03	2.7E-06	1.6E-01	6.6E-01	2.7E-07	5.1E-04	2.5E-03
252	2.2E+00	1.2E-03	1.0E-03	2.7E-06	1.6E-01	6.6E-01	2.7E-07	5.1E-04	2.5E-03
253	2.2E+00	1.2E-03	1.0E-03	2.7E-06	1.6E-01	6.6E-01	2.8E-07	5.2E-04	2.6E-03
254	2.3E+00	1.2E-03	1.0E-03	2.8E-06	1.6E-01	6.6E-01	2.9E-07	5.3E-04	2.7E-03
255	2.3E+00	1.2E-03	1.0E-03	2.8E-06	1.6E-01	6.6E-01	2.9E-07	5.4E-04	2.7E-03
256	2.3E+00	1.2E-03	1.0E-03	2.9E-06	1.6E-01	6.6E-01	3.0E-07	5.5E-04	2.7E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	1.2E-03	1.0E-03	2.9E-06	1.6E-01	6.6E-01	3.0E-07	5.5E-04	2.8E-03
258	2.4E+00	1.2E-03	1.0E-03	2.9E-06	1.6E-01	6.6E-01	3.0E-07	5.6E-04	2.8E-03
259	2.4E+00	1.2E-03	1.0E-03	3.0E-06	1.6E-01	6.6E-01	3.1E-07	5.7E-04	2.8E-03
260	2.5E+00	1.2E-03	1.0E-03	3.0E-06	1.6E-01	6.6E-01	3.1E-07	5.7E-04	2.9E-03
261	2.5E+00	1.2E-03	1.0E-03	3.1E-06	1.6E-01	6.6E-01	3.2E-07	5.9E-04	2.9E-03
262	2.6E+00	1.2E-03	1.0E-03	3.1E-06	1.6E-01	6.6E-01	3.2E-07	6.0E-04	3.0E-03
263	2.6E+00	1.2E-03	1.0E-03	3.2E-06	1.6E-01	6.6E-01	3.3E-07	6.1E-04	3.0E-03
264	2.6E+00	1.2E-03	1.0E-03	3.2E-06	1.6E-01	6.6E-01	3.3E-07	6.2E-04	3.1E-03
265	2.7E+00	1.2E-03	1.0E-03	3.3E-06	1.6E-01	6.6E-01	3.4E-07	6.2E-04	3.1E-03
266	2.7E+00	1.2E-03	1.0E-03	3.3E-06	1.6E-01	6.6E-01	3.4E-07	6.3E-04	3.2E-03
267	2.7E+00	1.2E-03	1.0E-03	3.3E-06	1.6E-01	6.6E-01	3.4E-07	6.4E-04	3.2E-03
268	2.7E+00	1.2E-03	1.0E-03	3.3E-06	1.6E-01	6.6E-01	3.5E-07	6.4E-04	3.2E-03
269	2.8E+00	1.2E-03	1.0E-03	3.4E-06	1.6E-01	6.6E-01	3.5E-07	6.4E-04	3.2E-03
270	2.8E+00	1.2E-03	1.0E-03	3.4E-06	1.6E-01	6.6E-01	3.5E-07	6.4E-04	3.2E-03
271	2.9E+00	1.2E-03	1.0E-03	3.5E-06	1.6E-01	6.6E-01	3.7E-07	6.8E-04	3.4E-03
272	3.0E+00	1.2E-03	1.0E-03	3.6E-06	1.6E-01	6.6E-01	3.7E-07	6.9E-04	3.4E-03
273	3.0E+00	1.2E-03	1.0E-03	3.6E-06	1.6E-01	6.6E-01	3.8E-07	7.0E-04	3.5E-03
274	3.0E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.8E-07	7.1E-04	3.5E-03
275	3.0E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.8E-07	7.1E-04	3.5E-03
276	3.1E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.9E-07	7.1E-04	3.6E-03
277	3.1E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.9E-07	7.1E-04	3.6E-03
278	3.1E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.9E-07	7.1E-04	3.6E-03
279	3.1E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.8E-07	7.1E-04	3.6E-03
280	3.0E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.8E-07	7.0E-04	3.5E-03
281	3.0E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.8E-07	7.0E-04	3.5E-03
282	3.4E+00	1.2E-03	1.0E-03	4.1E-06	1.6E-01	6.6E-01	4.2E-07	7.8E-04	3.9E-03
283	3.4E+00	1.2E-03	1.0E-03	4.1E-06	1.6E-01	6.6E-01	4.3E-07	7.9E-04	4.0E-03
284	3.4E+00	1.2E-03	1.0E-03	4.2E-06	1.6E-01	6.6E-01	4.3E-07	8.0E-04	4.0E-03
285	3.4E+00	1.2E-03	1.0E-03	4.2E-06	1.6E-01	6.6E-01	4.3E-07	8.0E-04	4.0E-03
286	3.4E+00	1.2E-03	1.0E-03	4.2E-06	1.6E-01	6.6E-01	4.3E-07	8.0E-04	4.0E-03
287	3.4E+00	1.2E-03	1.0E-03	4.2E-06	1.6E-01	6.6E-01	4.3E-07	8.0E-04	4.0E-03
288	3.4E+00	1.2E-03	1.0E-03	4.2E-06	1.6E-01	6.6E-01	4.3E-07	8.0E-04	4.0E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	1.2E-03	1.0E-03	4.1E-06	1.6E-01	6.6E-01	4.2E-07	7.8E-04	3.9E-03
290	3.3E+00	1.2E-03	1.0E-03	4.1E-06	1.6E-01	6.6E-01	4.2E-07	7.8E-04	3.9E-03
291	3.3E+00	1.2E-03	1.0E-03	4.0E-06	1.6E-01	6.6E-01	4.1E-07	7.7E-04	3.8E-03
292	3.3E+00	1.2E-03	1.0E-03	4.0E-06	1.6E-01	6.6E-01	4.1E-07	7.6E-04	3.8E-03
293	3.9E+00	1.2E-03	1.0E-03	4.7E-06	1.6E-01	6.6E-01	4.9E-07	9.0E-04	4.5E-03
294	3.9E+00	1.2E-03	1.0E-03	4.7E-06	1.6E-01	6.6E-01	4.9E-07	9.0E-04	4.5E-03
295	3.9E+00	1.2E-03	1.0E-03	4.7E-06	1.6E-01	6.6E-01	4.9E-07	9.0E-04	4.5E-03
296	3.8E+00	1.2E-03	1.0E-03	4.6E-06	1.6E-01	6.6E-01	4.8E-07	8.9E-04	4.4E-03
297	3.8E+00	1.2E-03	1.0E-03	4.6E-06	1.6E-01	6.6E-01	4.7E-07	8.7E-04	4.4E-03
298	3.7E+00	1.2E-03	1.0E-03	4.5E-06	1.6E-01	6.6E-01	4.7E-07	8.7E-04	4.3E-03
299	3.7E+00	1.2E-03	1.0E-03	4.5E-06	1.6E-01	6.6E-01	4.6E-07	8.5E-04	4.3E-03
300	3.6E+00	1.2E-03	1.0E-03	4.4E-06	1.6E-01	6.6E-01	4.5E-07	8.4E-04	4.2E-03
301	3.5E+00	1.2E-03	1.0E-03	4.3E-06	1.6E-01	6.6E-01	4.5E-07	8.2E-04	4.1E-03
302	3.5E+00	1.2E-03	1.0E-03	4.2E-06	1.6E-01	6.6E-01	4.4E-07	8.1E-04	4.0E-03
303	3.4E+00	1.2E-03	1.0E-03	4.1E-06	1.6E-01	6.6E-01	4.3E-07	7.9E-04	3.9E-03
304	4.4E+00	1.2E-03	1.0E-03	5.3E-06	1.6E-01	6.6E-01	5.5E-07	1.0E-03	5.1E-03
305	4.3E+00	1.2E-03	1.0E-03	5.3E-06	1.6E-01	6.6E-01	5.4E-07	1.0E-03	5.0E-03
306	4.2E+00	1.2E-03	1.0E-03	5.2E-06	1.6E-01	6.6E-01	5.3E-07	9.9E-04	4.9E-03
307	4.2E+00	1.2E-03	1.0E-03	5.1E-06	1.6E-01	6.6E-01	5.2E-07	9.7E-04	4.9E-03
308	4.1E+00	1.2E-03	1.0E-03	5.0E-06	1.6E-01	6.6E-01	5.1E-07	9.5E-04	4.8E-03
309	4.0E+00	1.2E-03	1.0E-03	4.9E-06	1.6E-01	6.6E-01	5.0E-07	9.3E-04	4.7E-03
310	3.9E+00	1.2E-03	1.0E-03	4.8E-06	1.6E-01	6.6E-01	4.9E-07	9.1E-04	4.6E-03
311	3.8E+00	1.2E-03	1.0E-03	4.7E-06	1.6E-01	6.6E-01	4.8E-07	8.9E-04	4.5E-03
312	3.7E+00	1.2E-03	1.0E-03	4.5E-06	1.6E-01	6.6E-01	4.7E-07	8.7E-04	4.3E-03
313	3.6E+00	1.2E-03	1.0E-03	4.4E-06	1.6E-01	6.6E-01	4.6E-07	8.4E-04	4.2E-03
314	3.5E+00	1.2E-03	1.0E-03	4.3E-06	1.6E-01	6.6E-01	4.4E-07	8.2E-04	4.1E-03
315	3.4E+00	1.2E-03	1.0E-03	4.1E-06	1.6E-01	6.6E-01	4.3E-07	7.9E-04	4.0E-03
316	4.7E+00	1.2E-03	1.0E-03	5.7E-06	1.6E-01	6.6E-01	5.9E-07	1.1E-03	5.5E-03
317	4.6E+00	1.2E-03	1.0E-03	5.6E-06	1.6E-01	6.6E-01	5.8E-07	1.1E-03	5.3E-03
318	4.5E+00	1.2E-03	1.0E-03	5.4E-06	1.6E-01	6.6E-01	5.6E-07	1.0E-03	5.2E-03
319	4.4E+00	1.2E-03	1.0E-03	5.3E-06	1.6E-01	6.6E-01	5.5E-07	1.0E-03	5.1E-03
320	4.2E+00	1.2E-03	1.0E-03	5.2E-06	1.6E-01	6.6E-01	5.3E-07	9.9E-04	4.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	1.2E-03	1.0E-03	5.0E-06	1.6E-01	6.6E-01	5.2E-07	9.6E-04	4.8E-03
322	4.0E+00	1.2E-03	1.0E-03	4.8E-06	1.6E-01	6.6E-01	5.0E-07	9.3E-04	4.6E-03
323	3.8E+00	1.2E-03	1.0E-03	4.7E-06	1.6E-01	6.6E-01	4.8E-07	8.9E-04	4.5E-03
324	3.7E+00	1.2E-03	1.0E-03	4.5E-06	1.6E-01	6.6E-01	4.7E-07	8.6E-04	4.3E-03
325	5.0E+00	1.2E-03	1.0E-03	6.1E-06	1.6E-01	6.6E-01	6.3E-07	1.2E-03	5.8E-03
326	4.9E+00	1.2E-03	1.0E-03	5.9E-06	1.6E-01	6.6E-01	6.1E-07	1.1E-03	5.7E-03
327	4.7E+00	1.2E-03	1.0E-03	5.7E-06	1.6E-01	6.6E-01	5.9E-07	1.1E-03	5.5E-03
328	4.5E+00	1.2E-03	1.0E-03	5.5E-06	1.6E-01	6.6E-01	5.7E-07	1.1E-03	5.3E-03
329	4.4E+00	1.2E-03	1.0E-03	5.3E-06	1.6E-01	6.6E-01	5.5E-07	1.0E-03	5.1E-03
330	4.2E+00	1.2E-03	1.0E-03	5.1E-06	1.6E-01	6.6E-01	5.3E-07	9.8E-04	4.9E-03
331	5.2E+00	1.2E-03	1.0E-03	6.3E-06	1.6E-01	6.6E-01	6.6E-07	1.2E-03	6.1E-03
332	5.0E+00	1.2E-03	1.0E-03	6.1E-06	1.6E-01	6.6E-01	6.3E-07	1.2E-03	5.8E-03
333	4.8E+00	1.2E-03	1.0E-03	5.8E-06	1.6E-01	6.6E-01	6.0E-07	1.1E-03	5.6E-03
334	4.6E+00	1.2E-03	1.0E-03	5.6E-06	1.6E-01	6.6E-01	5.8E-07	1.1E-03	5.3E-03
335	1.7E+00	1.2E-03	1.0E-03	2.1E-06	1.6E-01	6.6E-01	2.2E-07	4.0E-04	2.0E-03
336	1.8E+00	1.2E-03	1.0E-03	2.2E-06	1.6E-01	6.6E-01	2.2E-07	4.1E-04	2.1E-03
337	1.8E+00	1.2E-03	1.0E-03	2.2E-06	1.6E-01	6.6E-01	2.3E-07	4.3E-04	2.1E-03
338	1.9E+00	1.2E-03	1.0E-03	2.3E-06	1.6E-01	6.6E-01	2.4E-07	4.4E-04	2.2E-03
339	1.9E+00	1.2E-03	1.0E-03	2.3E-06	1.6E-01	6.6E-01	2.4E-07	4.4E-04	2.2E-03
340	1.9E+00	1.2E-03	1.0E-03	2.4E-06	1.6E-01	6.6E-01	2.4E-07	4.5E-04	2.3E-03
341	2.0E+00	1.2E-03	1.0E-03	2.4E-06	1.6E-01	6.6E-01	2.5E-07	4.6E-04	2.3E-03
342	2.0E+00	1.2E-03	1.0E-03	2.5E-06	1.6E-01	6.6E-01	2.6E-07	4.8E-04	2.4E-03
343	2.0E+00	1.2E-03	1.0E-03	2.5E-06	1.6E-01	6.6E-01	2.6E-07	4.8E-04	2.4E-03
344	2.1E+00	1.2E-03	1.0E-03	2.6E-06	1.6E-01	6.6E-01	2.7E-07	4.9E-04	2.5E-03
345	2.2E+00	1.2E-03	1.0E-03	2.6E-06	1.6E-01	6.6E-01	2.7E-07	5.1E-04	2.5E-03
346	2.2E+00	1.2E-03	1.0E-03	2.7E-06	1.6E-01	6.6E-01	2.8E-07	5.2E-04	2.6E-03
347	2.2E+00	1.2E-03	1.0E-03	2.7E-06	1.6E-01	6.6E-01	2.8E-07	5.2E-04	2.6E-03
348	2.3E+00	1.2E-03	1.0E-03	2.8E-06	1.6E-01	6.6E-01	2.9E-07	5.4E-04	2.7E-03
349	2.4E+00	1.2E-03	1.0E-03	2.9E-06	1.6E-01	6.6E-01	3.0E-07	5.6E-04	2.8E-03
350	2.5E+00	1.2E-03	1.0E-03	3.0E-06	1.6E-01	6.6E-01	3.1E-07	5.8E-04	2.9E-03
351	2.4E+00	1.2E-03	1.0E-03	2.9E-06	1.6E-01	6.6E-01	3.0E-07	5.6E-04	2.8E-03
352	2.5E+00	1.2E-03	1.0E-03	3.1E-06	1.6E-01	6.6E-01	3.2E-07	5.9E-04	2.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	1.2E-03	1.0E-03	3.2E-06	1.6E-01	6.6E-01	3.3E-07	6.1E-04	3.1E-03
354	2.7E+00	1.2E-03	1.0E-03	3.3E-06	1.6E-01	6.6E-01	3.4E-07	6.4E-04	3.2E-03
355	2.6E+00	1.2E-03	1.0E-03	3.2E-06	1.6E-01	6.6E-01	3.3E-07	6.2E-04	3.1E-03
356	2.8E+00	1.2E-03	1.0E-03	3.4E-06	1.6E-01	6.6E-01	3.5E-07	6.5E-04	3.2E-03
357	2.9E+00	1.2E-03	1.0E-03	3.5E-06	1.6E-01	6.6E-01	3.7E-07	6.8E-04	3.4E-03
358	3.0E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.8E-07	7.1E-04	3.5E-03
359	2.9E+00	1.2E-03	1.0E-03	3.5E-06	1.6E-01	6.6E-01	3.7E-07	6.8E-04	3.4E-03
360	3.1E+00	1.2E-03	1.0E-03	3.7E-06	1.6E-01	6.6E-01	3.9E-07	7.1E-04	3.6E-03
361	3.2E+00	1.2E-03	1.0E-03	3.9E-06	1.6E-01	6.6E-01	4.1E-07	7.5E-04	3.8E-03
362	3.4E+00	1.2E-03	1.0E-03	4.1E-06	1.6E-01	6.6E-01	4.3E-07	7.9E-04	3.9E-03
363	3.2E+00	1.2E-03	1.0E-03	3.9E-06	1.6E-01	6.6E-01	4.0E-07	7.4E-04	3.7E-03
364	3.4E+00	1.2E-03	1.0E-03	4.1E-06	1.6E-01	6.6E-01	4.3E-07	7.9E-04	4.0E-03
365	3.6E+00	1.2E-03	1.0E-03	4.4E-06	1.6E-01	6.6E-01	4.5E-07	8.4E-04	4.2E-03
366	3.8E+00	1.2E-03	1.0E-03	4.6E-06	1.6E-01	6.6E-01	4.8E-07	8.9E-04	4.4E-03
367	3.5E+00	1.2E-03	1.0E-03	4.3E-06	1.6E-01	6.6E-01	4.4E-07	8.2E-04	4.1E-03
368	3.7E+00	1.2E-03	1.0E-03	4.6E-06	1.6E-01	6.6E-01	4.7E-07	8.7E-04	4.4E-03
369	4.0E+00	1.2E-03	1.0E-03	4.9E-06	1.6E-01	6.6E-01	5.0E-07	9.3E-04	4.7E-03
370	4.3E+00	1.2E-03	1.0E-03	5.2E-06	1.6E-01	6.6E-01	5.4E-07	1.0E-03	5.0E-03
371	3.8E+00	1.2E-03	1.0E-03	4.7E-06	1.6E-01	6.6E-01	4.8E-07	8.9E-04	4.5E-03
372	4.1E+00	1.2E-03	1.0E-03	5.0E-06	1.6E-01	6.6E-01	5.2E-07	9.7E-04	4.8E-03
373	4.5E+00	1.2E-03	1.0E-03	5.5E-06	1.6E-01	6.6E-01	5.6E-07	1.0E-03	5.2E-03
374	4.8E+00	1.2E-03	1.0E-03	5.9E-06	1.6E-01	6.6E-01	6.1E-07	1.1E-03	5.6E-03
375	4.2E+00	1.2E-03	1.0E-03	5.1E-06	1.6E-01	6.6E-01	5.3E-07	9.7E-04	4.9E-03
376	4.6E+00	1.2E-03	1.0E-03	5.6E-06	1.6E-01	6.6E-01	5.7E-07	1.1E-03	5.3E-03
377	5.0E+00	1.2E-03	1.0E-03	6.1E-06	1.6E-01	6.6E-01	6.3E-07	1.2E-03	5.8E-03
378	5.5E+00	1.2E-03	1.0E-03	6.7E-06	1.6E-01	6.6E-01	6.9E-07	1.3E-03	6.4E-03
379	4.5E+00	1.2E-03	1.0E-03	5.5E-06	1.6E-01	6.6E-01	5.7E-07	1.1E-03	5.3E-03
380	5.0E+00	1.2E-03	1.0E-03	6.1E-06	1.6E-01	6.6E-01	6.3E-07	1.2E-03	5.9E-03
381	5.6E+00	1.2E-03	1.0E-03	6.8E-06	1.6E-01	6.6E-01	7.0E-07	1.3E-03	6.5E-03
382	6.2E+00	1.2E-03	1.0E-03	7.5E-06	1.6E-01	6.6E-01	7.8E-07	1.4E-03	7.2E-03
383	4.9E+00	1.2E-03	1.0E-03	6.0E-06	1.6E-01	6.6E-01	6.2E-07	1.1E-03	5.7E-03
384	5.5E+00	1.2E-03	1.0E-03	6.7E-06	1.6E-01	6.6E-01	6.9E-07	1.3E-03	6.4E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	1.2E-03	1.0E-03	7.5E-06	1.6E-01	6.6E-01	7.7E-07	1.4E-03	7.2E-03
386	6.9E+00	1.2E-03	1.0E-03	8.4E-06	1.6E-01	6.6E-01	8.7E-07	1.6E-03	8.1E-03
387	5.2E+00	1.2E-03	1.0E-03	6.4E-06	1.6E-01	6.6E-01	6.6E-07	1.2E-03	6.1E-03
388	5.9E+00	1.2E-03	1.0E-03	7.2E-06	1.6E-01	6.6E-01	7.4E-07	1.4E-03	6.9E-03
389	6.7E+00	1.2E-03	1.0E-03	8.2E-06	1.6E-01	6.6E-01	8.4E-07	1.6E-03	7.8E-03
390	7.7E+00	1.2E-03	1.0E-03	9.4E-06	1.6E-01	6.6E-01	9.7E-07	1.8E-03	9.0E-03
391	5.6E+00	1.2E-03	1.0E-03	6.8E-06	1.6E-01	6.6E-01	7.0E-07	1.3E-03	6.5E-03
392	6.3E+00	1.2E-03	1.0E-03	7.7E-06	1.6E-01	6.6E-01	7.9E-07	1.5E-03	7.4E-03
393	7.2E+00	1.2E-03	1.0E-03	8.8E-06	1.6E-01	6.6E-01	9.1E-07	1.7E-03	8.4E-03
394	8.4E+00	1.2E-03	1.0E-03	1.0E-05	1.6E-01	6.6E-01	1.1E-06	2.0E-03	9.8E-03
395	5.8E+00	1.2E-03	1.0E-03	7.1E-06	1.6E-01	6.6E-01	7.3E-07	1.4E-03	6.8E-03
396	6.7E+00	1.2E-03	1.0E-03	8.1E-06	1.6E-01	6.6E-01	8.4E-07	1.6E-03	7.8E-03
397	7.7E+00	1.2E-03	1.0E-03	9.4E-06	1.6E-01	6.6E-01	9.7E-07	1.8E-03	9.0E-03
398	9.1E+00	1.2E-03	1.0E-03	1.1E-05	1.6E-01	6.6E-01	1.1E-06	2.1E-03	1.1E-02
399	6.0E+00	1.2E-03	1.0E-03	7.4E-06	1.6E-01	6.6E-01	7.6E-07	1.4E-03	7.0E-03
400	7.0E+00	1.2E-03	1.0E-03	8.5E-06	1.6E-01	6.6E-01	8.8E-07	1.6E-03	8.1E-03
401	8.1E+00	1.2E-03	1.0E-03	9.9E-06	1.6E-01	6.6E-01	1.0E-06	1.9E-03	9.5E-03
402	9.6E+00	1.2E-03	1.0E-03	1.2E-05	1.6E-01	6.6E-01	1.2E-06	2.2E-03	1.1E-02
403	6.2E+00	1.2E-03	1.0E-03	7.6E-06	1.6E-01	6.6E-01	7.8E-07	1.4E-03	7.2E-03
404	7.2E+00	1.2E-03	1.0E-03	8.8E-06	1.6E-01	6.6E-01	9.1E-07	1.7E-03	8.4E-03
405	8.4E+00	1.2E-03	1.0E-03	1.0E-05	1.6E-01	6.6E-01	1.1E-06	2.0E-03	9.8E-03
406	1.0E+01	1.2E-03	1.0E-03	1.2E-05	1.6E-01	6.6E-01	1.3E-06	2.3E-03	1.2E-02
407	6.3E+00	1.2E-03	1.0E-03	7.7E-06	1.6E-01	6.6E-01	8.0E-07	1.5E-03	7.4E-03
408	7.4E+00	1.2E-03	1.0E-03	9.0E-06	1.6E-01	6.6E-01	9.3E-07	1.7E-03	8.6E-03
409	8.7E+00	1.2E-03	1.0E-03	1.1E-05	1.6E-01	6.6E-01	1.1E-06	2.0E-03	1.0E-02
410	1.0E+01	1.2E-03	1.0E-03	1.3E-05	1.6E-01	6.6E-01	1.3E-06	2.4E-03	1.2E-02
411	6.4E+00	1.2E-03	1.0E-03	7.8E-06	1.6E-01	6.6E-01	8.0E-07	1.5E-03	7.4E-03
412	7.5E+00	1.2E-03	1.0E-03	9.1E-06	1.6E-01	6.6E-01	9.4E-07	1.7E-03	8.7E-03
413	8.8E+00	1.2E-03	1.0E-03	1.1E-05	1.6E-01	6.6E-01	1.1E-06	2.1E-03	1.0E-02
414	1.1E+01	1.2E-03	1.0E-03	1.3E-05	1.6E-01	6.6E-01	1.3E-06	2.5E-03	1.2E-02
415	6.4E+00	1.2E-03	1.0E-03	7.8E-06	1.6E-01	6.6E-01	8.1E-07	1.5E-03	7.5E-03
416	7.5E+00	1.2E-03	1.0E-03	9.1E-06	1.6E-01	6.6E-01	9.4E-07	1.7E-03	8.7E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	1.2E-03	1.0E-03	1.1E-05	1.6E-01	6.6E-01	1.1E-06	2.1E-03	1.0E-02
418	1.1E+01	1.2E-03	1.0E-03	1.3E-05	1.6E-01	6.6E-01	1.4E-06	2.5E-03	1.3E-02
419	6.4E+00	1.2E-03	1.0E-03	7.7E-06	1.6E-01	6.6E-01	8.0E-07	1.5E-03	7.4E-03
420	7.5E+00	1.2E-03	1.0E-03	9.1E-06	1.6E-01	6.6E-01	9.4E-07	1.7E-03	8.7E-03
421	8.9E+00	1.2E-03	1.0E-03	1.1E-05	1.6E-01	6.6E-01	1.1E-06	2.1E-03	1.0E-02
422	1.1E+01	1.2E-03	1.0E-03	1.3E-05	1.6E-01	6.6E-01	1.3E-06	2.5E-03	1.2E-02
423	6.3E+00	1.2E-03	1.0E-03	7.6E-06	1.6E-01	6.6E-01	7.9E-07	1.5E-03	7.3E-03
424	7.4E+00	1.2E-03	1.0E-03	9.0E-06	1.6E-01	6.6E-01	9.3E-07	1.7E-03	8.6E-03
425	8.8E+00	1.2E-03	1.0E-03	1.1E-05	1.6E-01	6.6E-01	1.1E-06	2.0E-03	1.0E-02
426	1.1E+01	1.2E-03	1.0E-03	1.3E-05	1.6E-01	6.6E-01	1.3E-06	2.5E-03	1.2E-02
427	6.1E+00	1.2E-03	1.0E-03	7.4E-06	1.6E-01	6.6E-01	7.7E-07	1.4E-03	7.1E-03
428	7.2E+00	1.2E-03	1.0E-03	8.7E-06	1.6E-01	6.6E-01	9.0E-07	1.7E-03	8.4E-03
429	8.6E+00	1.2E-03	1.0E-03	1.0E-05	1.6E-01	6.6E-01	1.1E-06	2.0E-03	1.0E-02
430	1.0E+01	1.2E-03	1.0E-03	1.3E-05	1.6E-01	6.6E-01	1.3E-06	2.4E-03	1.2E-02
431	5.9E+00	1.2E-03	1.0E-03	7.2E-06	1.6E-01	6.6E-01	7.4E-07	1.4E-03	6.9E-03
432	6.9E+00	1.2E-03	1.0E-03	8.4E-06	1.6E-01	6.6E-01	8.7E-07	1.6E-03	8.1E-03
433	8.3E+00	1.2E-03	1.0E-03	1.0E-05	1.6E-01	6.6E-01	1.0E-06	1.9E-03	9.6E-03
434	1.0E+01	1.2E-03	1.0E-03	1.2E-05	1.6E-01	6.6E-01	1.3E-06	2.3E-03	1.2E-02
435	5.6E+00	1.2E-03	1.0E-03	6.9E-06	1.6E-01	6.6E-01	7.1E-07	1.3E-03	6.6E-03
436	6.6E+00	1.2E-03	1.0E-03	8.1E-06	1.6E-01	6.6E-01	8.3E-07	1.5E-03	7.7E-03
437	7.9E+00	1.2E-03	1.0E-03	9.6E-06	1.6E-01	6.6E-01	9.9E-07	1.8E-03	9.2E-03
438	9.6E+00	1.2E-03	1.0E-03	1.2E-05	1.6E-01	6.6E-01	1.2E-06	2.2E-03	1.1E-02
439	5.4E+00	1.2E-03	1.0E-03	6.5E-06	1.6E-01	6.6E-01	6.7E-07	1.2E-03	6.2E-03
440	6.3E+00	1.2E-03	1.0E-03	7.6E-06	1.6E-01	6.6E-01	7.9E-07	1.5E-03	7.3E-03
441	7.4E+00	1.2E-03	1.0E-03	9.0E-06	1.6E-01	6.6E-01	9.3E-07	1.7E-03	8.6E-03
442	9.0E+00	1.2E-03	1.0E-03	1.1E-05	1.6E-01	6.6E-01	1.1E-06	2.1E-03	1.0E-02
443	5.0E+00	1.2E-03	1.0E-03	6.1E-06	1.6E-01	6.6E-01	6.3E-07	1.2E-03	5.9E-03
444	5.9E+00	1.2E-03	1.0E-03	7.1E-06	1.6E-01	6.6E-01	7.4E-07	1.4E-03	6.8E-03
445	6.9E+00	1.2E-03	1.0E-03	8.4E-06	1.6E-01	6.6E-01	8.7E-07	1.6E-03	8.0E-03
446	8.3E+00	1.2E-03	1.0E-03	1.0E-05	1.6E-01	6.6E-01	1.0E-06	1.9E-03	9.7E-03
447	4.7E+00	1.2E-03	1.0E-03	5.7E-06	1.6E-01	6.6E-01	5.9E-07	1.1E-03	5.5E-03
448	5.4E+00	1.2E-03	1.0E-03	6.6E-06	1.6E-01	6.6E-01	6.8E-07	1.3E-03	6.3E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	1.2E-03	1.0E-03	7.7E-06	1.6E-01	6.6E-01	8.0E-07	1.5E-03	7.4E-03
450	7.6E+00	1.2E-03	1.0E-03	9.2E-06	1.6E-01	6.6E-01	9.5E-07	1.8E-03	8.8E-03
451	4.4E-01	1.2E-03	1.0E-03	5.4E-07	1.6E-01	6.6E-01	5.5E-08	1.0E-04	5.1E-04
452	4.4E-01	1.2E-03	1.0E-03	5.4E-07	1.6E-01	6.6E-01	5.6E-08	1.0E-04	5.2E-04
453	4.4E-01	1.2E-03	1.0E-03	5.4E-07	1.6E-01	6.6E-01	5.6E-08	1.0E-04	5.2E-04
454	4.5E-01	1.2E-03	1.0E-03	5.4E-07	1.6E-01	6.6E-01	5.6E-08	1.0E-04	5.2E-04
455	5.4E-01	1.2E-03	1.0E-03	6.5E-07	1.6E-01	6.6E-01	6.8E-08	1.3E-04	6.3E-04
456	5.4E-01	1.2E-03	1.0E-03	6.6E-07	1.6E-01	6.6E-01	6.8E-08	1.3E-04	6.3E-04
457	5.5E-01	1.2E-03	1.0E-03	6.6E-07	1.6E-01	6.6E-01	6.9E-08	1.3E-04	6.4E-04
458	5.4E-01	1.2E-03	1.0E-03	6.6E-07	1.6E-01	6.6E-01	6.8E-08	1.3E-04	6.3E-04
459	6.8E-01	1.2E-03	1.0E-03	8.3E-07	1.6E-01	6.6E-01	8.6E-08	1.6E-04	7.9E-04
460	6.8E-01	1.2E-03	1.0E-03	8.3E-07	1.6E-01	6.6E-01	8.6E-08	1.6E-04	8.0E-04
461	6.8E-01	1.2E-03	1.0E-03	8.3E-07	1.6E-01	6.6E-01	8.6E-08	1.6E-04	7.9E-04
462	7.8E-01	1.2E-03	1.0E-03	9.5E-07	1.6E-01	6.6E-01	9.9E-08	1.8E-04	9.1E-04
463	9.7E-01	1.2E-03	1.0E-03	1.2E-06	1.6E-01	6.6E-01	1.2E-07	2.3E-04	1.1E-03
464	7.9E-01	1.2E-03	1.0E-03	9.6E-07	1.6E-01	6.6E-01	1.0E-07	1.8E-04	9.2E-04
465	1.0E+00	1.2E-03	1.0E-03	1.2E-06	1.6E-01	6.6E-01	1.3E-07	2.3E-04	1.2E-03
466	1.3E+00	1.2E-03	1.0E-03	1.6E-06	1.6E-01	6.6E-01	1.6E-07	3.0E-04	1.5E-03
467	1.8E+00	1.2E-03	1.0E-03	2.2E-06	1.6E-01	6.6E-01	2.2E-07	4.1E-04	2.1E-03
468	7.7E-01	1.2E-03	1.0E-03	9.3E-07	1.6E-01	6.6E-01	9.7E-08	1.8E-04	8.9E-04
469	9.8E-01	1.2E-03	1.0E-03	1.2E-06	1.6E-01	6.6E-01	1.2E-07	2.3E-04	1.1E-03
470	1.3E+00	1.2E-03	1.0E-03	1.6E-06	1.6E-01	6.6E-01	1.6E-07	3.0E-04	1.5E-03
471	1.8E+00	1.2E-03	1.0E-03	2.2E-06	1.6E-01	6.6E-01	2.3E-07	4.3E-04	2.1E-03
472	9.2E-01	1.2E-03	1.0E-03	1.1E-06	1.6E-01	6.6E-01	1.2E-07	2.1E-04	1.1E-03
473	1.2E+00	1.2E-03	1.0E-03	1.5E-06	1.6E-01	6.6E-01	1.5E-07	2.9E-04	1.4E-03
474	1.7E+00	1.2E-03	1.0E-03	2.1E-06	1.6E-01	6.6E-01	2.2E-07	4.0E-04	2.0E-03
475	8.3E-01	1.2E-03	1.0E-03	1.0E-06	1.6E-01	6.6E-01	1.0E-07	1.9E-04	9.7E-04
476	1.1E+00	1.2E-03	1.0E-03	1.3E-06	1.6E-01	6.6E-01	1.4E-07	2.6E-04	1.3E-03
477	1.5E+00	1.2E-03	1.0E-03	1.9E-06	1.6E-01	6.6E-01	1.9E-07	3.6E-04	1.8E-03

5. Risk by Construction Phase

h. Risk From Paving - Unmitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	7.6E-03	1.0E-03	2.3E-06	1.6E-01	6.3E-02	2.2E-08	4.3E-04	2.2E-03
2	3.0E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	6.3E-02	2.3E-08	4.5E-04	2.3E-03
3	3.1E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.4E-08	4.7E-04	2.3E-03
4	3.2E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.5E-08	4.8E-04	2.4E-03
5	3.3E-01	7.6E-03	1.0E-03	2.6E-06	1.6E-01	6.3E-02	2.6E-08	5.0E-04	2.5E-03
6	3.4E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.6E-08	5.1E-04	2.6E-03
7	3.5E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.7E-08	5.2E-04	2.6E-03
8	3.6E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	6.3E-02	2.8E-08	5.4E-04	2.7E-03
9	3.7E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
10	3.8E-01	7.6E-03	1.0E-03	3.0E-06	1.6E-01	6.3E-02	3.0E-08	5.8E-04	2.9E-03
11	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.1E-08	6.1E-04	3.0E-03
12	4.1E-01	7.6E-03	1.0E-03	3.3E-06	1.6E-01	6.3E-02	3.2E-08	6.3E-04	3.1E-03
13	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.3E-08	6.5E-04	3.2E-03
14	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.4E-08	6.6E-04	3.3E-03
15	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.4E-08	6.5E-04	3.3E-03
16	4.2E-01	7.6E-03	1.0E-03	3.3E-06	1.6E-01	6.3E-02	3.3E-08	6.4E-04	3.2E-03
17	3.2E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.5E-08	4.8E-04	2.4E-03
18	3.4E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.6E-08	5.1E-04	2.6E-03
19	3.6E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	6.3E-02	2.8E-08	5.4E-04	2.7E-03
20	3.7E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
21	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	6.3E-02	3.0E-08	5.8E-04	2.9E-03
22	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.1E-08	6.0E-04	3.0E-03
23	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	6.3E-02	4.1E-08	7.9E-04	3.9E-03
24	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.2E-08	8.1E-04	4.0E-03
25	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.1E-08	8.0E-04	4.0E-03
26	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	6.3E-02	4.0E-08	7.8E-04	3.9E-03
27	5.0E-01	7.6E-03	1.0E-03	3.9E-06	1.6E-01	6.3E-02	3.9E-08	7.5E-04	3.8E-03
28	3.5E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	6.3E-02	2.8E-08	5.3E-04	2.7E-03
29	4.1E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.2E-08	6.2E-04	3.1E-03
30	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.4E-08	6.6E-04	3.3E-03
31	4.6E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	6.3E-02	3.6E-08	7.0E-04	3.5E-03
32	4.8E-01	7.6E-03	1.0E-03	3.8E-06	1.6E-01	6.3E-02	3.8E-08	7.3E-04	3.7E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	7.6E-03	1.0E-03	4.0E-06	1.6E-01	6.3E-02	4.0E-08	7.6E-04	3.8E-03
34	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	6.3E-02	4.1E-08	7.9E-04	3.9E-03
35	5.5E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	6.3E-02	4.3E-08	8.3E-04	4.1E-03
36	5.7E-01	7.6E-03	1.0E-03	4.5E-06	1.6E-01	6.3E-02	4.5E-08	8.7E-04	4.3E-03
37	6.3E-01	7.6E-03	1.0E-03	5.0E-06	1.6E-01	6.3E-02	5.0E-08	9.6E-04	4.8E-03
38	6.6E-01	7.6E-03	1.0E-03	5.2E-06	1.6E-01	6.3E-02	5.1E-08	9.9E-04	5.0E-03
39	6.7E-01	7.6E-03	1.0E-03	5.3E-06	1.6E-01	6.3E-02	5.3E-08	1.0E-03	5.1E-03
40	6.5E-01	7.6E-03	1.0E-03	5.1E-06	1.6E-01	6.3E-02	5.1E-08	9.8E-04	4.9E-03
41	6.2E-01	7.6E-03	1.0E-03	4.9E-06	1.6E-01	6.3E-02	4.9E-08	9.5E-04	4.7E-03
42	5.9E-01	7.6E-03	1.0E-03	4.7E-06	1.6E-01	6.3E-02	4.6E-08	9.0E-04	4.5E-03
43	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	6.3E-02	3.0E-08	5.9E-04	2.9E-03
44	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.3E-08	6.5E-04	3.2E-03
45	4.7E-01	7.6E-03	1.0E-03	3.7E-06	1.6E-01	6.3E-02	3.7E-08	7.1E-04	3.5E-03
46	5.5E-01	7.6E-03	1.0E-03	4.4E-06	1.6E-01	6.3E-02	4.3E-08	8.3E-04	4.2E-03
47	5.9E-01	7.6E-03	1.0E-03	4.7E-06	1.6E-01	6.3E-02	4.6E-08	8.9E-04	4.5E-03
48	6.2E-01	7.6E-03	1.0E-03	4.9E-06	1.6E-01	6.3E-02	4.9E-08	9.4E-04	4.7E-03
49	6.5E-01	7.6E-03	1.0E-03	5.2E-06	1.6E-01	6.3E-02	5.1E-08	9.9E-04	4.9E-03
50	6.9E-01	7.6E-03	1.0E-03	5.5E-06	1.6E-01	6.3E-02	5.4E-08	1.0E-03	5.2E-03
51	7.3E-01	7.6E-03	1.0E-03	5.8E-06	1.6E-01	6.3E-02	5.7E-08	1.1E-03	5.5E-03
52	8.2E-01	7.6E-03	1.0E-03	6.5E-06	1.6E-01	6.3E-02	6.5E-08	1.2E-03	6.2E-03
53	8.6E-01	7.6E-03	1.0E-03	6.8E-06	1.6E-01	6.3E-02	6.7E-08	1.3E-03	6.5E-03
54	8.8E-01	7.6E-03	1.0E-03	7.0E-06	1.6E-01	6.3E-02	6.9E-08	1.3E-03	6.7E-03
55	8.9E-01	7.6E-03	1.0E-03	7.0E-06	1.6E-01	6.3E-02	7.0E-08	1.3E-03	6.7E-03
56	8.9E-01	7.6E-03	1.0E-03	7.0E-06	1.6E-01	6.3E-02	7.0E-08	1.3E-03	6.7E-03
57	8.1E-01	7.6E-03	1.0E-03	6.4E-06	1.6E-01	6.3E-02	6.3E-08	1.2E-03	6.1E-03
58	7.6E-01	7.6E-03	1.0E-03	6.0E-06	1.6E-01	6.3E-02	5.9E-08	1.1E-03	5.7E-03
59	7.0E-01	7.6E-03	1.0E-03	5.6E-06	1.6E-01	6.3E-02	5.5E-08	1.1E-03	5.3E-03
60	4.2E-01	7.6E-03	1.0E-03	3.3E-06	1.6E-01	6.3E-02	3.3E-08	6.3E-04	3.2E-03
61	4.7E-01	7.6E-03	1.0E-03	3.7E-06	1.6E-01	6.3E-02	3.7E-08	7.1E-04	3.6E-03
62	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.1E-08	8.0E-04	4.0E-03
63	5.9E-01	7.6E-03	1.0E-03	4.7E-06	1.6E-01	6.3E-02	4.6E-08	8.9E-04	4.5E-03
64	6.6E-01	7.6E-03	1.0E-03	5.2E-06	1.6E-01	6.3E-02	5.1E-08	9.9E-04	5.0E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	7.6E-03	1.0E-03	6.7E-06	1.6E-01	6.3E-02	6.6E-08	1.3E-03	6.4E-03
66	9.1E-01	7.6E-03	1.0E-03	7.2E-06	1.6E-01	6.3E-02	7.1E-08	1.4E-03	6.9E-03
67	9.7E-01	7.6E-03	1.0E-03	7.7E-06	1.6E-01	6.3E-02	7.6E-08	1.5E-03	7.4E-03
68	1.1E+00	7.6E-03	1.0E-03	8.9E-06	1.6E-01	6.3E-02	8.8E-08	1.7E-03	8.5E-03
69	1.2E+00	7.6E-03	1.0E-03	9.3E-06	1.6E-01	6.3E-02	9.2E-08	1.8E-03	8.9E-03
70	1.2E+00	7.6E-03	1.0E-03	9.5E-06	1.6E-01	6.3E-02	9.4E-08	1.8E-03	9.1E-03
71	1.2E+00	7.6E-03	1.0E-03	9.6E-06	1.6E-01	6.3E-02	9.5E-08	1.8E-03	9.2E-03
72	1.2E+00	7.6E-03	1.0E-03	9.5E-06	1.6E-01	6.3E-02	9.4E-08	1.8E-03	9.1E-03
73	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.7E-04	3.4E-03
74	5.0E-01	7.6E-03	1.0E-03	4.0E-06	1.6E-01	6.3E-02	3.9E-08	7.6E-04	3.8E-03
75	5.8E-01	7.6E-03	1.0E-03	4.6E-06	1.6E-01	6.3E-02	4.5E-08	8.8E-04	4.4E-03
76	6.7E-01	7.6E-03	1.0E-03	5.3E-06	1.6E-01	6.3E-02	5.2E-08	1.0E-03	5.1E-03
77	7.7E-01	7.6E-03	1.0E-03	6.1E-06	1.6E-01	6.3E-02	6.1E-08	1.2E-03	5.9E-03
78	8.8E-01	7.6E-03	1.0E-03	7.0E-06	1.6E-01	6.3E-02	6.9E-08	1.3E-03	6.7E-03
79	1.0E+00	7.6E-03	1.0E-03	7.9E-06	1.6E-01	6.3E-02	7.9E-08	1.5E-03	7.6E-03
80	1.4E+00	7.6E-03	1.0E-03	1.1E-05	1.6E-01	6.3E-02	1.1E-07	2.1E-03	1.0E-02
81	1.6E+00	7.6E-03	1.0E-03	1.3E-05	1.6E-01	6.3E-02	1.3E-07	2.5E-03	1.2E-02
82	1.7E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.3E-07	2.6E-03	1.3E-02
83	1.7E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.4E-07	2.6E-03	1.3E-02
84	1.7E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.4E-07	2.6E-03	1.3E-02
85	1.7E+00	7.6E-03	1.0E-03	1.3E-05	1.6E-01	6.3E-02	1.3E-07	2.5E-03	1.3E-02
86	4.5E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.8E-04	3.4E-03
87	5.2E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.1E-08	8.0E-04	4.0E-03
88	6.2E-01	7.6E-03	1.0E-03	4.9E-06	1.6E-01	6.3E-02	4.9E-08	9.4E-04	4.7E-03
89	7.4E-01	7.6E-03	1.0E-03	5.8E-06	1.6E-01	6.3E-02	5.8E-08	1.1E-03	5.6E-03
90	8.8E-01	7.6E-03	1.0E-03	7.0E-06	1.6E-01	6.3E-02	6.9E-08	1.3E-03	6.7E-03
91	1.1E+00	7.6E-03	1.0E-03	8.4E-06	1.6E-01	6.3E-02	8.3E-08	1.6E-03	8.0E-03
92	1.3E+00	7.6E-03	1.0E-03	1.0E-05	1.6E-01	6.3E-02	1.0E-07	1.9E-03	9.6E-03
93	1.5E+00	7.6E-03	1.0E-03	1.2E-05	1.6E-01	6.3E-02	1.2E-07	2.3E-03	1.1E-02
94	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.4E-07	2.7E-03	1.3E-02
95	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	6.3E-02	2.1E-07	4.0E-03	2.0E-02
96	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	6.3E-02	1.9E-07	3.6E-03	1.8E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	6.3E-02	3.6E-08	6.9E-04	3.5E-03
98	5.4E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.2E-08	8.1E-04	4.1E-03
99	6.4E-01	7.6E-03	1.0E-03	5.0E-06	1.6E-01	6.3E-02	5.0E-08	9.7E-04	4.8E-03
100	1.2E+00	7.6E-03	1.0E-03	9.6E-06	1.6E-01	6.3E-02	9.5E-08	1.8E-03	9.2E-03
101	1.5E+00	7.6E-03	1.0E-03	1.2E-05	1.6E-01	6.3E-02	1.2E-07	2.3E-03	1.2E-02
102	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	6.3E-02	1.6E-07	3.0E-03	1.5E-02
103	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	6.3E-02	2.1E-07	4.0E-03	2.0E-02
104	4.5E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.8E-04	3.4E-03
105	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.2E-08	8.0E-04	4.0E-03
106	6.4E-01	7.6E-03	1.0E-03	5.1E-06	1.6E-01	6.3E-02	5.0E-08	9.7E-04	4.9E-03
107	2.5E+00	7.6E-03	1.0E-03	2.0E-05	1.6E-01	6.3E-02	2.0E-07	3.8E-03	1.9E-02
108	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	6.3E-02	3.0E-07	5.8E-03	2.9E-02
109	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.3E-08	6.5E-04	3.2E-03
110	5.1E-01	7.6E-03	1.0E-03	4.0E-06	1.6E-01	6.3E-02	4.0E-08	7.7E-04	3.8E-03
111	6.2E-01	7.6E-03	1.0E-03	4.9E-06	1.6E-01	6.3E-02	4.8E-08	9.3E-04	4.7E-03
112	2.8E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	6.3E-02	2.2E-07	4.2E-03	2.1E-02
113	4.7E+00	7.6E-03	1.0E-03	3.7E-05	1.6E-01	6.3E-02	3.7E-07	7.1E-03	3.5E-02
114	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.1E-08	6.1E-04	3.0E-03
115	4.8E-01	7.6E-03	1.0E-03	3.8E-06	1.6E-01	6.3E-02	3.7E-08	7.2E-04	3.6E-03
116	5.8E-01	7.6E-03	1.0E-03	4.6E-06	1.6E-01	6.3E-02	4.5E-08	8.8E-04	4.4E-03
117	7.2E-01	7.6E-03	1.0E-03	5.7E-06	1.6E-01	6.3E-02	5.6E-08	1.1E-03	5.4E-03
118	2.7E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	6.3E-02	2.1E-07	4.1E-03	2.0E-02
119	4.7E+00	7.6E-03	1.0E-03	3.8E-05	1.6E-01	6.3E-02	3.7E-07	7.2E-03	3.6E-02
120	3.7E-01	7.6E-03	1.0E-03	3.0E-06	1.6E-01	6.3E-02	2.9E-08	5.7E-04	2.8E-03
121	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.7E-04	3.3E-03
122	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.2E-08	8.1E-04	4.0E-03
123	6.6E-01	7.6E-03	1.0E-03	5.2E-06	1.6E-01	6.3E-02	5.1E-08	9.9E-04	5.0E-03
124	2.3E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	6.3E-02	1.8E-07	3.5E-03	1.8E-02
125	4.0E+00	7.6E-03	1.0E-03	3.2E-05	1.6E-01	6.3E-02	3.1E-07	6.1E-03	3.0E-02
126	3.5E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	6.3E-02	2.7E-08	5.3E-04	2.6E-03
127	4.1E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.2E-08	6.2E-04	3.1E-03
128	4.9E-01	7.6E-03	1.0E-03	3.9E-06	1.6E-01	6.3E-02	3.8E-08	7.4E-04	3.7E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	7.6E-03	1.0E-03	4.7E-06	1.6E-01	6.3E-02	4.7E-08	9.0E-04	4.5E-03
130	7.4E-01	7.6E-03	1.0E-03	5.9E-06	1.6E-01	6.3E-02	5.8E-08	1.1E-03	5.6E-03
131	9.7E-01	7.6E-03	1.0E-03	7.6E-06	1.6E-01	6.3E-02	7.6E-08	1.5E-03	7.3E-03
132	1.3E+00	7.6E-03	1.0E-03	1.0E-05	1.6E-01	6.3E-02	1.0E-07	2.0E-03	9.9E-03
133	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.5E-07	2.9E-03	1.4E-02
134	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.3E-07	4.5E-03	2.3E-02
135	5.4E+00	7.6E-03	1.0E-03	4.3E-05	1.6E-01	6.3E-02	4.2E-07	8.1E-03	4.1E-02
136	3.2E-01	7.6E-03	1.0E-03	2.6E-06	1.6E-01	6.3E-02	2.5E-08	4.9E-04	2.5E-03
137	3.8E-01	7.6E-03	1.0E-03	3.0E-06	1.6E-01	6.3E-02	3.0E-08	5.7E-04	2.9E-03
138	4.5E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.7E-04	3.4E-03
139	5.4E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.2E-08	8.1E-04	4.1E-03
140	6.6E-01	7.6E-03	1.0E-03	5.2E-06	1.6E-01	6.3E-02	5.2E-08	1.0E-03	5.0E-03
141	8.4E-01	7.6E-03	1.0E-03	6.7E-06	1.6E-01	6.3E-02	6.6E-08	1.3E-03	6.4E-03
142	1.1E+00	7.6E-03	1.0E-03	8.7E-06	1.6E-01	6.3E-02	8.7E-08	1.7E-03	8.4E-03
143	1.5E+00	7.6E-03	1.0E-03	1.2E-05	1.6E-01	6.3E-02	1.2E-07	2.3E-03	1.1E-02
144	2.1E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	6.3E-02	1.7E-07	3.2E-03	1.6E-02
145	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
146	3.0E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	6.3E-02	2.4E-08	4.6E-04	2.3E-03
147	3.5E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.7E-08	5.3E-04	2.6E-03
148	4.1E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.2E-08	6.1E-04	3.1E-03
149	4.8E-01	7.6E-03	1.0E-03	3.8E-06	1.6E-01	6.3E-02	3.8E-08	7.3E-04	3.7E-03
150	5.9E-01	7.6E-03	1.0E-03	4.6E-06	1.6E-01	6.3E-02	4.6E-08	8.9E-04	4.4E-03
151	7.2E-01	7.6E-03	1.0E-03	5.7E-06	1.6E-01	6.3E-02	5.7E-08	1.1E-03	5.5E-03
152	9.0E-01	7.6E-03	1.0E-03	7.1E-06	1.6E-01	6.3E-02	7.0E-08	1.4E-03	6.8E-03
153	1.2E+00	7.6E-03	1.0E-03	9.2E-06	1.6E-01	6.3E-02	9.1E-08	1.8E-03	8.8E-03
154	1.5E+00	7.6E-03	1.0E-03	1.2E-05	1.6E-01	6.3E-02	1.1E-07	2.2E-03	1.1E-02
155	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.5E-07	2.9E-03	1.4E-02
156	2.8E-01	7.6E-03	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.2E-08	4.2E-04	2.1E-03
157	3.2E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.5E-08	4.9E-04	2.4E-03
158	3.7E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
159	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.4E-08	6.6E-04	3.3E-03
160	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	6.3E-02	4.0E-08	7.8E-04	3.9E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	7.6E-03	1.0E-03	4.9E-06	1.6E-01	6.3E-02	4.9E-08	9.4E-04	4.7E-03
162	7.4E-01	7.6E-03	1.0E-03	5.9E-06	1.6E-01	6.3E-02	5.8E-08	1.1E-03	5.6E-03
163	9.0E-01	7.6E-03	1.0E-03	7.1E-06	1.6E-01	6.3E-02	7.0E-08	1.4E-03	6.8E-03
164	1.1E+00	7.6E-03	1.0E-03	8.5E-06	1.6E-01	6.3E-02	8.4E-08	1.6E-03	8.1E-03
165	1.3E+00	7.6E-03	1.0E-03	1.0E-05	1.6E-01	6.3E-02	1.0E-07	2.0E-03	9.9E-03
166	2.6E-01	7.6E-03	1.0E-03	2.1E-06	1.6E-01	6.3E-02	2.0E-08	3.9E-04	2.0E-03
167	2.9E-01	7.6E-03	1.0E-03	2.3E-06	1.6E-01	6.3E-02	2.3E-08	4.5E-04	2.2E-03
168	3.4E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.6E-08	5.1E-04	2.5E-03
169	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	6.3E-02	3.0E-08	5.9E-04	2.9E-03
170	4.5E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	6.3E-02	3.5E-08	6.8E-04	3.4E-03
171	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.1E-08	8.0E-04	4.0E-03
172	6.1E-01	7.6E-03	1.0E-03	4.8E-06	1.6E-01	6.3E-02	4.8E-08	9.2E-04	4.6E-03
173	7.1E-01	7.6E-03	1.0E-03	5.6E-06	1.6E-01	6.3E-02	5.5E-08	1.1E-03	5.4E-03
174	8.2E-01	7.6E-03	1.0E-03	6.5E-06	1.6E-01	6.3E-02	6.4E-08	1.2E-03	6.2E-03
175	9.5E-01	7.6E-03	1.0E-03	7.5E-06	1.6E-01	6.3E-02	7.4E-08	1.4E-03	7.2E-03
176	2.4E-01	7.6E-03	1.0E-03	1.9E-06	1.6E-01	6.3E-02	1.9E-08	3.6E-04	1.8E-03
177	2.7E-01	7.6E-03	1.0E-03	2.1E-06	1.6E-01	6.3E-02	2.1E-08	4.1E-04	2.0E-03
178	3.0E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	6.3E-02	2.4E-08	4.6E-04	2.3E-03
179	3.5E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.7E-08	5.2E-04	2.6E-03
180	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	6.3E-02	3.1E-08	6.0E-04	3.0E-03
181	4.5E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	6.3E-02	3.5E-08	6.8E-04	3.4E-03
182	5.1E-01	7.6E-03	1.0E-03	4.0E-06	1.6E-01	6.3E-02	4.0E-08	7.7E-04	3.8E-03
183	5.7E-01	7.6E-03	1.0E-03	4.5E-06	1.6E-01	6.3E-02	4.5E-08	8.7E-04	4.3E-03
184	6.4E-01	7.6E-03	1.0E-03	5.1E-06	1.6E-01	6.3E-02	5.0E-08	9.7E-04	4.8E-03
185	7.2E-01	7.6E-03	1.0E-03	5.7E-06	1.6E-01	6.3E-02	5.7E-08	1.1E-03	5.5E-03
186	5.9E-01	7.6E-03	1.0E-03	4.6E-06	1.6E-01	6.3E-02	4.6E-08	8.9E-04	4.4E-03
187	5.2E-01	7.6E-03	1.0E-03	4.1E-06	1.6E-01	6.3E-02	4.1E-08	7.9E-04	4.0E-03
188	4.7E-01	7.6E-03	1.0E-03	3.7E-06	1.6E-01	6.3E-02	3.6E-08	7.0E-04	3.5E-03
189	2.2E-01	7.6E-03	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.7E-08	3.4E-04	1.7E-03
190	2.5E-01	7.6E-03	1.0E-03	2.0E-06	1.6E-01	6.3E-02	1.9E-08	3.7E-04	1.9E-03
191	2.7E-01	7.6E-03	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.2E-08	4.2E-04	2.1E-03
192	3.1E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	6.3E-02	2.4E-08	4.7E-04	2.3E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	7.6E-03	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.7E-08	5.2E-04	2.6E-03
194	3.8E-01	7.6E-03	1.0E-03	3.0E-06	1.6E-01	6.3E-02	3.0E-08	5.8E-04	2.9E-03
195	4.3E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.3E-08	6.5E-04	3.2E-03
196	4.7E-01	7.6E-03	1.0E-03	3.7E-06	1.6E-01	6.3E-02	3.7E-08	7.1E-04	3.6E-03
197	5.6E-01	7.6E-03	1.0E-03	4.5E-06	1.6E-01	6.3E-02	4.4E-08	8.6E-04	4.3E-03
198	6.1E-01	7.6E-03	1.0E-03	4.8E-06	1.6E-01	6.3E-02	4.7E-08	9.2E-04	4.6E-03
199	5.7E-01	7.6E-03	1.0E-03	4.5E-06	1.6E-01	6.3E-02	4.5E-08	8.7E-04	4.3E-03
200	5.3E-01	7.6E-03	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.2E-08	8.1E-04	4.1E-03
201	4.9E-01	7.6E-03	1.0E-03	3.9E-06	1.6E-01	6.3E-02	3.9E-08	7.5E-04	3.7E-03
202	4.5E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	6.3E-02	3.5E-08	6.8E-04	3.4E-03
203	4.1E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.2E-08	6.2E-04	3.1E-03
204	2.0E-01	7.6E-03	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.1E-04	1.6E-03
205	2.3E-01	7.6E-03	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.4E-04	1.7E-03
206	2.5E-01	7.6E-03	1.0E-03	2.0E-06	1.6E-01	6.3E-02	1.9E-08	3.8E-04	1.9E-03
207	2.7E-01	7.6E-03	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.2E-08	4.2E-04	2.1E-03
208	3.0E-01	7.6E-03	1.0E-03	2.4E-06	1.6E-01	6.3E-02	2.4E-08	4.6E-04	2.3E-03
209	3.3E-01	7.6E-03	1.0E-03	2.6E-06	1.6E-01	6.3E-02	2.6E-08	5.0E-04	2.5E-03
210	3.6E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.8E-08	5.5E-04	2.7E-03
211	4.2E-01	7.6E-03	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.3E-08	6.4E-04	3.2E-03
212	4.5E-01	7.6E-03	1.0E-03	3.6E-06	1.6E-01	6.3E-02	3.5E-08	6.8E-04	3.4E-03
213	5.0E-01	7.6E-03	1.0E-03	4.0E-06	1.6E-01	6.3E-02	3.9E-08	7.6E-04	3.8E-03
214	5.0E-01	7.6E-03	1.0E-03	3.9E-06	1.6E-01	6.3E-02	3.9E-08	7.5E-04	3.8E-03
215	4.9E-01	7.6E-03	1.0E-03	3.9E-06	1.6E-01	6.3E-02	3.8E-08	7.4E-04	3.7E-03
216	4.7E-01	7.6E-03	1.0E-03	3.7E-06	1.6E-01	6.3E-02	3.7E-08	7.1E-04	3.5E-03
217	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.7E-04	3.4E-03
218	4.2E-01	7.6E-03	1.0E-03	3.3E-06	1.6E-01	6.3E-02	3.3E-08	6.3E-04	3.2E-03
219	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	6.3E-02	3.0E-08	5.9E-04	2.9E-03
220	3.5E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	6.3E-02	2.8E-08	5.4E-04	2.7E-03
221	1.9E-01	7.6E-03	1.0E-03	1.5E-06	1.6E-01	6.3E-02	1.5E-08	2.9E-04	1.4E-03
222	2.1E-01	7.6E-03	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.1E-04	1.6E-03
223	2.2E-01	7.6E-03	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.4E-04	1.7E-03
224	2.5E-01	7.6E-03	1.0E-03	1.9E-06	1.6E-01	6.3E-02	1.9E-08	3.7E-04	1.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	7.6E-03	1.0E-03	2.1E-06	1.6E-01	6.3E-02	2.1E-08	4.0E-04	2.0E-03
226	3.1E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.5E-08	4.7E-04	2.4E-03
227	3.3E-01	7.6E-03	1.0E-03	2.6E-06	1.6E-01	6.3E-02	2.6E-08	5.1E-04	2.5E-03
228	3.5E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	6.3E-02	2.8E-08	5.3E-04	2.7E-03
229	3.7E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
230	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.2E-08	6.1E-04	3.1E-03
231	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.2E-08	6.1E-04	3.0E-03
232	4.0E-01	7.6E-03	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.1E-08	6.0E-04	3.0E-03
233	3.9E-01	7.6E-03	1.0E-03	3.1E-06	1.6E-01	6.3E-02	3.0E-08	5.9E-04	2.9E-03
234	3.7E-01	7.6E-03	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
235	3.5E-01	7.6E-03	1.0E-03	2.8E-06	1.6E-01	6.3E-02	2.8E-08	5.3E-04	2.7E-03
236	3.3E-01	7.6E-03	1.0E-03	2.6E-06	1.6E-01	6.3E-02	2.6E-08	5.0E-04	2.5E-03
237	3.1E-01	7.6E-03	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.4E-08	4.7E-04	2.4E-03
238	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.4E-07	2.7E-03	1.4E-02
239	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.4E-07	2.8E-03	1.4E-02
240	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.5E-07	2.8E-03	1.4E-02
241	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.5E-07	2.9E-03	1.4E-02
242	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.5E-07	2.9E-03	1.4E-02
243	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.5E-07	2.9E-03	1.5E-02
244	2.0E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.5E-07	3.0E-03	1.5E-02
245	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	6.3E-02	1.6E-07	3.0E-03	1.5E-02
246	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	6.3E-02	1.6E-07	3.1E-03	1.5E-02
247	2.1E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	6.3E-02	1.6E-07	3.1E-03	1.6E-02
248	2.1E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	6.3E-02	1.6E-07	3.2E-03	1.6E-02
249	2.1E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	6.3E-02	1.7E-07	3.2E-03	1.6E-02
250	2.2E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	6.3E-02	1.7E-07	3.3E-03	1.6E-02
251	2.2E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	6.3E-02	1.7E-07	3.3E-03	1.7E-02
252	2.2E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	6.3E-02	1.7E-07	3.3E-03	1.7E-02
253	2.2E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	6.3E-02	1.8E-07	3.4E-03	1.7E-02
254	2.3E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	6.3E-02	1.8E-07	3.5E-03	1.7E-02
255	2.3E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	6.3E-02	1.8E-07	3.5E-03	1.8E-02
256	2.3E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	6.3E-02	1.8E-07	3.6E-03	1.8E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	6.3E-02	1.9E-07	3.6E-03	1.8E-02
258	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	6.3E-02	1.9E-07	3.7E-03	1.8E-02
259	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	6.3E-02	1.9E-07	3.7E-03	1.8E-02
260	2.5E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	6.3E-02	1.9E-07	3.7E-03	1.9E-02
261	2.5E+00	7.6E-03	1.0E-03	2.0E-05	1.6E-01	6.3E-02	2.0E-07	3.8E-03	1.9E-02
262	2.6E+00	7.6E-03	1.0E-03	2.0E-05	1.6E-01	6.3E-02	2.0E-07	3.9E-03	1.9E-02
263	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	6.3E-02	2.0E-07	4.0E-03	2.0E-02
264	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	6.3E-02	2.1E-07	4.0E-03	2.0E-02
265	2.7E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	6.3E-02	2.1E-07	4.1E-03	2.0E-02
266	2.7E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	6.3E-02	2.1E-07	4.1E-03	2.1E-02
267	2.7E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	6.3E-02	2.1E-07	4.1E-03	2.1E-02
268	2.7E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	6.3E-02	2.2E-07	4.2E-03	2.1E-02
269	2.8E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	6.3E-02	2.2E-07	4.2E-03	2.1E-02
270	2.8E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	6.3E-02	2.2E-07	4.2E-03	2.1E-02
271	2.9E+00	7.6E-03	1.0E-03	2.3E-05	1.6E-01	6.3E-02	2.3E-07	4.4E-03	2.2E-02
272	3.0E+00	7.6E-03	1.0E-03	2.3E-05	1.6E-01	6.3E-02	2.3E-07	4.5E-03	2.2E-02
273	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.3E-07	4.5E-03	2.3E-02
274	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
275	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
276	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
277	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
278	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
279	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
280	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
281	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
282	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.6E-07	5.1E-03	2.6E-02
283	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.2E-03	2.6E-02
284	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.2E-03	2.6E-02
285	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.2E-03	2.6E-02
286	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.2E-03	2.6E-02
287	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.2E-03	2.6E-02
288	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.2E-03	2.6E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.6E-07	5.1E-03	2.5E-02
290	3.3E+00	7.6E-03	1.0E-03	2.6E-05	1.6E-01	6.3E-02	2.6E-07	5.0E-03	2.5E-02
291	3.3E+00	7.6E-03	1.0E-03	2.6E-05	1.6E-01	6.3E-02	2.6E-07	5.0E-03	2.5E-02
292	3.3E+00	7.6E-03	1.0E-03	2.6E-05	1.6E-01	6.3E-02	2.6E-07	4.9E-03	2.5E-02
293	3.9E+00	7.6E-03	1.0E-03	3.1E-05	1.6E-01	6.3E-02	3.0E-07	5.9E-03	2.9E-02
294	3.9E+00	7.6E-03	1.0E-03	3.1E-05	1.6E-01	6.3E-02	3.0E-07	5.9E-03	2.9E-02
295	3.9E+00	7.6E-03	1.0E-03	3.1E-05	1.6E-01	6.3E-02	3.0E-07	5.8E-03	2.9E-02
296	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	6.3E-02	3.0E-07	5.8E-03	2.9E-02
297	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	6.3E-02	2.9E-07	5.7E-03	2.8E-02
298	3.7E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	6.3E-02	2.9E-07	5.6E-03	2.8E-02
299	3.7E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	6.3E-02	2.9E-07	5.6E-03	2.8E-02
300	3.6E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	6.3E-02	2.8E-07	5.5E-03	2.7E-02
301	3.5E+00	7.6E-03	1.0E-03	2.8E-05	1.6E-01	6.3E-02	2.8E-07	5.4E-03	2.7E-02
302	3.5E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.3E-03	2.6E-02
303	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.1E-03	2.6E-02
304	4.4E+00	7.6E-03	1.0E-03	3.5E-05	1.6E-01	6.3E-02	3.4E-07	6.6E-03	3.3E-02
305	4.3E+00	7.6E-03	1.0E-03	3.4E-05	1.6E-01	6.3E-02	3.4E-07	6.5E-03	3.3E-02
306	4.2E+00	7.6E-03	1.0E-03	3.4E-05	1.6E-01	6.3E-02	3.3E-07	6.4E-03	3.2E-02
307	4.2E+00	7.6E-03	1.0E-03	3.3E-05	1.6E-01	6.3E-02	3.3E-07	6.3E-03	3.2E-02
308	4.1E+00	7.6E-03	1.0E-03	3.2E-05	1.6E-01	6.3E-02	3.2E-07	6.2E-03	3.1E-02
309	4.0E+00	7.6E-03	1.0E-03	3.2E-05	1.6E-01	6.3E-02	3.1E-07	6.1E-03	3.0E-02
310	3.9E+00	7.6E-03	1.0E-03	3.1E-05	1.6E-01	6.3E-02	3.1E-07	5.9E-03	3.0E-02
311	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	6.3E-02	3.0E-07	5.8E-03	2.9E-02
312	3.7E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	6.3E-02	2.9E-07	5.6E-03	2.8E-02
313	3.6E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	6.3E-02	2.8E-07	5.5E-03	2.7E-02
314	3.5E+00	7.6E-03	1.0E-03	2.8E-05	1.6E-01	6.3E-02	2.8E-07	5.3E-03	2.7E-02
315	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.2E-03	2.6E-02
316	4.7E+00	7.6E-03	1.0E-03	3.7E-05	1.6E-01	6.3E-02	3.7E-07	7.1E-03	3.6E-02
317	4.6E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	6.3E-02	3.6E-07	7.0E-03	3.5E-02
318	4.5E+00	7.6E-03	1.0E-03	3.5E-05	1.6E-01	6.3E-02	3.5E-07	6.8E-03	3.4E-02
319	4.4E+00	7.6E-03	1.0E-03	3.5E-05	1.6E-01	6.3E-02	3.4E-07	6.6E-03	3.3E-02
320	4.2E+00	7.6E-03	1.0E-03	3.4E-05	1.6E-01	6.3E-02	3.3E-07	6.4E-03	3.2E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	7.6E-03	1.0E-03	3.3E-05	1.6E-01	6.3E-02	3.2E-07	6.2E-03	3.1E-02
322	4.0E+00	7.6E-03	1.0E-03	3.1E-05	1.6E-01	6.3E-02	3.1E-07	6.0E-03	3.0E-02
323	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	6.3E-02	3.0E-07	5.8E-03	2.9E-02
324	3.7E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	6.3E-02	2.9E-07	5.6E-03	2.8E-02
325	5.0E+00	7.6E-03	1.0E-03	4.0E-05	1.6E-01	6.3E-02	3.9E-07	7.6E-03	3.8E-02
326	4.9E+00	7.6E-03	1.0E-03	3.8E-05	1.6E-01	6.3E-02	3.8E-07	7.4E-03	3.7E-02
327	4.7E+00	7.6E-03	1.0E-03	3.7E-05	1.6E-01	6.3E-02	3.7E-07	7.1E-03	3.6E-02
328	4.5E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	6.3E-02	3.6E-07	6.9E-03	3.4E-02
329	4.4E+00	7.6E-03	1.0E-03	3.5E-05	1.6E-01	6.3E-02	3.4E-07	6.6E-03	3.3E-02
330	4.2E+00	7.6E-03	1.0E-03	3.3E-05	1.6E-01	6.3E-02	3.3E-07	6.4E-03	3.2E-02
331	5.2E+00	7.6E-03	1.0E-03	4.1E-05	1.6E-01	6.3E-02	4.1E-07	7.9E-03	3.9E-02
332	5.0E+00	7.6E-03	1.0E-03	4.0E-05	1.6E-01	6.3E-02	3.9E-07	7.6E-03	3.8E-02
333	4.8E+00	7.6E-03	1.0E-03	3.8E-05	1.6E-01	6.3E-02	3.8E-07	7.3E-03	3.6E-02
334	4.6E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	6.3E-02	3.6E-07	7.0E-03	3.5E-02
335	1.7E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.4E-07	2.6E-03	1.3E-02
336	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.4E-07	2.7E-03	1.3E-02
337	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.4E-07	2.8E-03	1.4E-02
338	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.5E-07	2.8E-03	1.4E-02
339	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.5E-07	2.8E-03	1.4E-02
340	1.9E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.5E-07	2.9E-03	1.5E-02
341	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	6.3E-02	1.6E-07	3.0E-03	1.5E-02
342	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	6.3E-02	1.6E-07	3.1E-03	1.5E-02
343	2.0E+00	7.6E-03	1.0E-03	1.6E-05	1.6E-01	6.3E-02	1.6E-07	3.1E-03	1.5E-02
344	2.1E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	6.3E-02	1.7E-07	3.2E-03	1.6E-02
345	2.2E+00	7.6E-03	1.0E-03	1.7E-05	1.6E-01	6.3E-02	1.7E-07	3.3E-03	1.6E-02
346	2.2E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	6.3E-02	1.8E-07	3.4E-03	1.7E-02
347	2.2E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	6.3E-02	1.7E-07	3.4E-03	1.7E-02
348	2.3E+00	7.6E-03	1.0E-03	1.8E-05	1.6E-01	6.3E-02	1.8E-07	3.5E-03	1.7E-02
349	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	6.3E-02	1.9E-07	3.6E-03	1.8E-02
350	2.5E+00	7.6E-03	1.0E-03	2.0E-05	1.6E-01	6.3E-02	1.9E-07	3.8E-03	1.9E-02
351	2.4E+00	7.6E-03	1.0E-03	1.9E-05	1.6E-01	6.3E-02	1.9E-07	3.7E-03	1.8E-02
352	2.5E+00	7.6E-03	1.0E-03	2.0E-05	1.6E-01	6.3E-02	2.0E-07	3.8E-03	1.9E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	6.3E-02	2.1E-07	4.0E-03	2.0E-02
354	2.7E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	6.3E-02	2.1E-07	4.2E-03	2.1E-02
355	2.6E+00	7.6E-03	1.0E-03	2.1E-05	1.6E-01	6.3E-02	2.1E-07	4.0E-03	2.0E-02
356	2.8E+00	7.6E-03	1.0E-03	2.2E-05	1.6E-01	6.3E-02	2.2E-07	4.2E-03	2.1E-02
357	2.9E+00	7.6E-03	1.0E-03	2.3E-05	1.6E-01	6.3E-02	2.3E-07	4.4E-03	2.2E-02
358	3.0E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
359	2.9E+00	7.6E-03	1.0E-03	2.3E-05	1.6E-01	6.3E-02	2.3E-07	4.4E-03	2.2E-02
360	3.1E+00	7.6E-03	1.0E-03	2.4E-05	1.6E-01	6.3E-02	2.4E-07	4.6E-03	2.3E-02
361	3.2E+00	7.6E-03	1.0E-03	2.6E-05	1.6E-01	6.3E-02	2.5E-07	4.9E-03	2.4E-02
362	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.1E-03	2.6E-02
363	3.2E+00	7.6E-03	1.0E-03	2.5E-05	1.6E-01	6.3E-02	2.5E-07	4.8E-03	2.4E-02
364	3.4E+00	7.6E-03	1.0E-03	2.7E-05	1.6E-01	6.3E-02	2.7E-07	5.1E-03	2.6E-02
365	3.6E+00	7.6E-03	1.0E-03	2.9E-05	1.6E-01	6.3E-02	2.8E-07	5.5E-03	2.7E-02
366	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	6.3E-02	3.0E-07	5.8E-03	2.9E-02
367	3.5E+00	7.6E-03	1.0E-03	2.8E-05	1.6E-01	6.3E-02	2.7E-07	5.3E-03	2.7E-02
368	3.7E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	6.3E-02	2.9E-07	5.7E-03	2.8E-02
369	4.0E+00	7.6E-03	1.0E-03	3.2E-05	1.6E-01	6.3E-02	3.1E-07	6.1E-03	3.0E-02
370	4.3E+00	7.6E-03	1.0E-03	3.4E-05	1.6E-01	6.3E-02	3.4E-07	6.5E-03	3.2E-02
371	3.8E+00	7.6E-03	1.0E-03	3.0E-05	1.6E-01	6.3E-02	3.0E-07	5.8E-03	2.9E-02
372	4.1E+00	7.6E-03	1.0E-03	3.3E-05	1.6E-01	6.3E-02	3.3E-07	6.3E-03	3.1E-02
373	4.5E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	6.3E-02	3.5E-07	6.8E-03	3.4E-02
374	4.8E+00	7.6E-03	1.0E-03	3.8E-05	1.6E-01	6.3E-02	3.8E-07	7.3E-03	3.7E-02
375	4.2E+00	7.6E-03	1.0E-03	3.3E-05	1.6E-01	6.3E-02	3.3E-07	6.3E-03	3.2E-02
376	4.6E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	6.3E-02	3.6E-07	6.9E-03	3.5E-02
377	5.0E+00	7.6E-03	1.0E-03	4.0E-05	1.6E-01	6.3E-02	3.9E-07	7.6E-03	3.8E-02
378	5.5E+00	7.6E-03	1.0E-03	4.3E-05	1.6E-01	6.3E-02	4.3E-07	8.3E-03	4.1E-02
379	4.5E+00	7.6E-03	1.0E-03	3.6E-05	1.6E-01	6.3E-02	3.6E-07	6.9E-03	3.4E-02
380	5.0E+00	7.6E-03	1.0E-03	4.0E-05	1.6E-01	6.3E-02	3.9E-07	7.6E-03	3.8E-02
381	5.6E+00	7.6E-03	1.0E-03	4.4E-05	1.6E-01	6.3E-02	4.4E-07	8.4E-03	4.2E-02
382	6.2E+00	7.6E-03	1.0E-03	4.9E-05	1.6E-01	6.3E-02	4.9E-07	9.4E-03	4.7E-02
383	4.9E+00	7.6E-03	1.0E-03	3.9E-05	1.6E-01	6.3E-02	3.8E-07	7.4E-03	3.7E-02
384	5.5E+00	7.6E-03	1.0E-03	4.3E-05	1.6E-01	6.3E-02	4.3E-07	8.3E-03	4.1E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	7.6E-03	1.0E-03	4.9E-05	1.6E-01	6.3E-02	4.8E-07	9.3E-03	4.7E-02
386	6.9E+00	7.6E-03	1.0E-03	5.5E-05	1.6E-01	6.3E-02	5.4E-07	1.1E-02	5.3E-02
387	5.2E+00	7.6E-03	1.0E-03	4.2E-05	1.6E-01	6.3E-02	4.1E-07	8.0E-03	4.0E-02
388	5.9E+00	7.6E-03	1.0E-03	4.7E-05	1.6E-01	6.3E-02	4.6E-07	9.0E-03	4.5E-02
389	6.7E+00	7.6E-03	1.0E-03	5.3E-05	1.6E-01	6.3E-02	5.3E-07	1.0E-02	5.1E-02
390	7.7E+00	7.6E-03	1.0E-03	6.1E-05	1.6E-01	6.3E-02	6.0E-07	1.2E-02	5.8E-02
391	5.6E+00	7.6E-03	1.0E-03	4.4E-05	1.6E-01	6.3E-02	4.4E-07	8.4E-03	4.2E-02
392	6.3E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	6.3E-02	5.0E-07	9.6E-03	4.8E-02
393	7.2E+00	7.6E-03	1.0E-03	5.7E-05	1.6E-01	6.3E-02	5.7E-07	1.1E-02	5.5E-02
394	8.4E+00	7.6E-03	1.0E-03	6.7E-05	1.6E-01	6.3E-02	6.6E-07	1.3E-02	6.4E-02
395	5.8E+00	7.6E-03	1.0E-03	4.6E-05	1.6E-01	6.3E-02	4.6E-07	8.8E-03	4.4E-02
396	6.7E+00	7.6E-03	1.0E-03	5.3E-05	1.6E-01	6.3E-02	5.2E-07	1.0E-02	5.1E-02
397	7.7E+00	7.6E-03	1.0E-03	6.1E-05	1.6E-01	6.3E-02	6.1E-07	1.2E-02	5.8E-02
398	9.1E+00	7.6E-03	1.0E-03	7.2E-05	1.6E-01	6.3E-02	7.1E-07	1.4E-02	6.9E-02
399	6.0E+00	7.6E-03	1.0E-03	4.8E-05	1.6E-01	6.3E-02	4.7E-07	9.2E-03	4.6E-02
400	7.0E+00	7.6E-03	1.0E-03	5.5E-05	1.6E-01	6.3E-02	5.5E-07	1.1E-02	5.3E-02
401	8.1E+00	7.6E-03	1.0E-03	6.4E-05	1.6E-01	6.3E-02	6.4E-07	1.2E-02	6.2E-02
402	9.6E+00	7.6E-03	1.0E-03	7.6E-05	1.6E-01	6.3E-02	7.5E-07	1.5E-02	7.3E-02
403	6.2E+00	7.6E-03	1.0E-03	4.9E-05	1.6E-01	6.3E-02	4.9E-07	9.4E-03	4.7E-02
404	7.2E+00	7.6E-03	1.0E-03	5.7E-05	1.6E-01	6.3E-02	5.6E-07	1.1E-02	5.5E-02
405	8.4E+00	7.6E-03	1.0E-03	6.7E-05	1.6E-01	6.3E-02	6.6E-07	1.3E-02	6.4E-02
406	1.0E+01	7.6E-03	1.0E-03	8.0E-05	1.6E-01	6.3E-02	7.9E-07	1.5E-02	7.6E-02
407	6.3E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	6.3E-02	5.0E-07	9.6E-03	4.8E-02
408	7.4E+00	7.6E-03	1.0E-03	5.8E-05	1.6E-01	6.3E-02	5.8E-07	1.1E-02	5.6E-02
409	8.7E+00	7.6E-03	1.0E-03	6.9E-05	1.6E-01	6.3E-02	6.8E-07	1.3E-02	6.6E-02
410	1.0E+01	7.6E-03	1.0E-03	8.2E-05	1.6E-01	6.3E-02	8.2E-07	1.6E-02	7.9E-02
411	6.4E+00	7.6E-03	1.0E-03	5.1E-05	1.6E-01	6.3E-02	5.0E-07	9.7E-03	4.8E-02
412	7.5E+00	7.6E-03	1.0E-03	5.9E-05	1.6E-01	6.3E-02	5.9E-07	1.1E-02	5.7E-02
413	8.8E+00	7.6E-03	1.0E-03	7.0E-05	1.6E-01	6.3E-02	6.9E-07	1.3E-02	6.7E-02
414	1.1E+01	7.6E-03	1.0E-03	8.4E-05	1.6E-01	6.3E-02	8.3E-07	1.6E-02	8.1E-02
415	6.4E+00	7.6E-03	1.0E-03	5.1E-05	1.6E-01	6.3E-02	5.0E-07	9.7E-03	4.9E-02
416	7.5E+00	7.6E-03	1.0E-03	5.9E-05	1.6E-01	6.3E-02	5.9E-07	1.1E-02	5.7E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	7.6E-03	1.0E-03	7.1E-05	1.6E-01	6.3E-02	7.0E-07	1.3E-02	6.7E-02
418	1.1E+01	7.6E-03	1.0E-03	8.5E-05	1.6E-01	6.3E-02	8.4E-07	1.6E-02	8.1E-02
419	6.4E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	6.3E-02	5.0E-07	9.6E-03	4.8E-02
420	7.5E+00	7.6E-03	1.0E-03	5.9E-05	1.6E-01	6.3E-02	5.9E-07	1.1E-02	5.7E-02
421	8.9E+00	7.6E-03	1.0E-03	7.0E-05	1.6E-01	6.3E-02	7.0E-07	1.3E-02	6.7E-02
422	1.1E+01	7.6E-03	1.0E-03	8.5E-05	1.6E-01	6.3E-02	8.4E-07	1.6E-02	8.1E-02
423	6.3E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	6.3E-02	4.9E-07	9.5E-03	4.7E-02
424	7.4E+00	7.6E-03	1.0E-03	5.8E-05	1.6E-01	6.3E-02	5.8E-07	1.1E-02	5.6E-02
425	8.8E+00	7.6E-03	1.0E-03	6.9E-05	1.6E-01	6.3E-02	6.9E-07	1.3E-02	6.6E-02
426	1.1E+01	7.6E-03	1.0E-03	8.4E-05	1.6E-01	6.3E-02	8.3E-07	1.6E-02	8.0E-02
427	6.1E+00	7.6E-03	1.0E-03	4.8E-05	1.6E-01	6.3E-02	4.8E-07	9.2E-03	4.6E-02
428	7.2E+00	7.6E-03	1.0E-03	5.7E-05	1.6E-01	6.3E-02	5.6E-07	1.1E-02	5.4E-02
429	8.6E+00	7.6E-03	1.0E-03	6.8E-05	1.6E-01	6.3E-02	6.7E-07	1.3E-02	6.5E-02
430	1.0E+01	7.6E-03	1.0E-03	8.2E-05	1.6E-01	6.3E-02	8.1E-07	1.6E-02	7.9E-02
431	5.9E+00	7.6E-03	1.0E-03	4.7E-05	1.6E-01	6.3E-02	4.6E-07	8.9E-03	4.5E-02
432	6.9E+00	7.6E-03	1.0E-03	5.5E-05	1.6E-01	6.3E-02	5.4E-07	1.1E-02	5.3E-02
433	8.3E+00	7.6E-03	1.0E-03	6.5E-05	1.6E-01	6.3E-02	6.5E-07	1.3E-02	6.3E-02
434	1.0E+01	7.6E-03	1.0E-03	8.0E-05	1.6E-01	6.3E-02	7.9E-07	1.5E-02	7.6E-02
435	5.6E+00	7.6E-03	1.0E-03	4.5E-05	1.6E-01	6.3E-02	4.4E-07	8.5E-03	4.3E-02
436	6.6E+00	7.6E-03	1.0E-03	5.2E-05	1.6E-01	6.3E-02	5.2E-07	1.0E-02	5.0E-02
437	7.9E+00	7.6E-03	1.0E-03	6.2E-05	1.6E-01	6.3E-02	6.2E-07	1.2E-02	6.0E-02
438	9.6E+00	7.6E-03	1.0E-03	7.6E-05	1.6E-01	6.3E-02	7.5E-07	1.5E-02	7.3E-02
439	5.4E+00	7.6E-03	1.0E-03	4.2E-05	1.6E-01	6.3E-02	4.2E-07	8.1E-03	4.1E-02
440	6.3E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	6.3E-02	4.9E-07	9.5E-03	4.7E-02
441	7.4E+00	7.6E-03	1.0E-03	5.9E-05	1.6E-01	6.3E-02	5.8E-07	1.1E-02	5.6E-02
442	9.0E+00	7.6E-03	1.0E-03	7.1E-05	1.6E-01	6.3E-02	7.0E-07	1.4E-02	6.8E-02
443	5.0E+00	7.6E-03	1.0E-03	4.0E-05	1.6E-01	6.3E-02	3.9E-07	7.6E-03	3.8E-02
444	5.9E+00	7.6E-03	1.0E-03	4.6E-05	1.6E-01	6.3E-02	4.6E-07	8.9E-03	4.4E-02
445	6.9E+00	7.6E-03	1.0E-03	5.5E-05	1.6E-01	6.3E-02	5.4E-07	1.0E-02	5.2E-02
446	8.3E+00	7.6E-03	1.0E-03	6.6E-05	1.6E-01	6.3E-02	6.5E-07	1.3E-02	6.3E-02
447	4.7E+00	7.6E-03	1.0E-03	3.7E-05	1.6E-01	6.3E-02	3.7E-07	7.1E-03	3.6E-02
448	5.4E+00	7.6E-03	1.0E-03	4.3E-05	1.6E-01	6.3E-02	4.3E-07	8.2E-03	4.1E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Paving - Unmitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	7.6E-03	1.0E-03	5.0E-05	1.6E-01	6.3E-02	5.0E-07	9.6E-03	4.8E-02
450	7.6E+00	7.6E-03	1.0E-03	6.0E-05	1.6E-01	6.3E-02	5.9E-07	1.1E-02	5.7E-02
451	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.7E-04	3.3E-03
452	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.7E-04	3.4E-03
453	4.4E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.7E-04	3.4E-03
454	4.5E-01	7.6E-03	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.8E-04	3.4E-03
455	5.4E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	6.3E-02	4.2E-08	8.2E-04	4.1E-03
456	5.4E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	6.3E-02	4.2E-08	8.2E-04	4.1E-03
457	5.5E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	6.3E-02	4.3E-08	8.3E-04	4.1E-03
458	5.4E-01	7.6E-03	1.0E-03	4.3E-06	1.6E-01	6.3E-02	4.3E-08	8.2E-04	4.1E-03
459	6.8E-01	7.6E-03	1.0E-03	5.4E-06	1.6E-01	6.3E-02	5.3E-08	1.0E-03	5.2E-03
460	6.8E-01	7.6E-03	1.0E-03	5.4E-06	1.6E-01	6.3E-02	5.4E-08	1.0E-03	5.2E-03
461	6.8E-01	7.6E-03	1.0E-03	5.4E-06	1.6E-01	6.3E-02	5.4E-08	1.0E-03	5.2E-03
462	7.8E-01	7.6E-03	1.0E-03	6.2E-06	1.6E-01	6.3E-02	6.1E-08	1.2E-03	5.9E-03
463	9.7E-01	7.6E-03	1.0E-03	7.7E-06	1.6E-01	6.3E-02	7.6E-08	1.5E-03	7.3E-03
464	7.9E-01	7.6E-03	1.0E-03	6.3E-06	1.6E-01	6.3E-02	6.2E-08	1.2E-03	6.0E-03
465	1.0E+00	7.6E-03	1.0E-03	7.9E-06	1.6E-01	6.3E-02	7.9E-08	1.5E-03	7.6E-03
466	1.3E+00	7.6E-03	1.0E-03	1.0E-05	1.6E-01	6.3E-02	1.0E-07	2.0E-03	9.9E-03
467	1.8E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.4E-07	2.7E-03	1.3E-02
468	7.7E-01	7.6E-03	1.0E-03	6.1E-06	1.6E-01	6.3E-02	6.0E-08	1.2E-03	5.8E-03
469	9.8E-01	7.6E-03	1.0E-03	7.8E-06	1.6E-01	6.3E-02	7.7E-08	1.5E-03	7.4E-03
470	1.3E+00	7.6E-03	1.0E-03	1.0E-05	1.6E-01	6.3E-02	1.0E-07	2.0E-03	9.9E-03
471	1.8E+00	7.6E-03	1.0E-03	1.5E-05	1.6E-01	6.3E-02	1.4E-07	2.8E-03	1.4E-02
472	9.2E-01	7.6E-03	1.0E-03	7.3E-06	1.6E-01	6.3E-02	7.2E-08	1.4E-03	7.0E-03
473	1.2E+00	7.6E-03	1.0E-03	9.7E-06	1.6E-01	6.3E-02	9.6E-08	1.9E-03	9.3E-03
474	1.7E+00	7.6E-03	1.0E-03	1.4E-05	1.6E-01	6.3E-02	1.4E-07	2.6E-03	1.3E-02
475	8.3E-01	7.6E-03	1.0E-03	6.6E-06	1.6E-01	6.3E-02	6.5E-08	1.3E-03	6.3E-03
476	1.1E+00	7.6E-03	1.0E-03	8.7E-06	1.6E-01	6.3E-02	8.6E-08	1.7E-03	8.3E-03
477	1.5E+00	7.6E-03	1.0E-03	1.2E-05	1.6E-01	6.3E-02	1.2E-07	2.3E-03	1.2E-02

Mt. Etna Community Plan Amendment and Rezone Project
Mitigated Residential Health Risk Assessment

1. Assumptions
2. Risk by Phase Summary
3. Cancer Risk Summary
4. Non-Cancer Risk Summary
5. Risk by Construction Phase
    a. Risk From Demolition - Mitigated Residential
    b. Risk From Site Prep - Mitigated Residential
    c. Risk From Grading - Mitigated Residential
    d. Risk From Trenching - Mitigated Residential
    e. Risk From Foundation - Mitigated Residential
    f. Risk From BC - Mitigated Residential
    g. Risk From Arch. Coating - Mitigated Residential
    h. Risk From Paving - Mitigated Residential

Mitigated Residential Health Risk Assessment

1. Assumptions

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential - Construction Health Risk Assumptions

	3rd	0-2	2-16	>16	Units
DBR	361	1090	631	261	L/kg
A	1	1	1	1	no units
EF	0.958904	0.958904	0.958904	0.958904	years
Constant 1	0.000001	0.000001	0.000001	0.000001	no units
CPF	1.1	1.1	1.1	1.1	mg/kg-day-1
ASF	10	10	3	1	no units
Demolition	0.00	**0.04**	0.00	0.00	years
Site Prep	0.00	**0.08**	0.00	0.00	years
Grading	0.00	**0.08**	0.00	0.00	years
Trenching	0.00	**0.08**	0.00	0.00	years
Foundation	0.00	**0.13**	0.00	0.00	years
BC	0.00	**0.70**	0.00	0.00	years
Arch. Coating	0.00	**0.66**	0.00	0.00	years
Paving	0.00	**0.06**	0.00	0.00	years
AT	70	70	70	70	years
FAH	1	1	1	0.73	day
Constant 2	1,000,000	1,000,000	1,000,000	1,000,000	no units
Dose Constant	0.000346	0.001045	0.000605	0.00025	no units
Risk Constants	0.157143	0.157143	0.047143	0.011471	no units

Dose = (Cair X DBR X A X EF X Constant 1)

Cancer Risk = Dose X CPF x ASF x (ED/AT) X FAH

Risk per Million = Cancer Risk X Constant 2

Non-Cancer Hazard Quotent = Average Annual Concentration x Chronic Inhalation REL

Onsite	lbs/day	g/day	g/sec	days
	Birth to 2 years			
Demolition	0.0616	27.94129	0.0006468	15
Site Prep	0.0692	31.388592	0.0007266	30
Grading	0.044	19.958064	0.000462	30
Trenching	0.0367	16.64684	0.0003853	29
Foundation	0.0138	6.2595747	0.0001449	48
BC	0.0214	9.7068767	0.0002247	257
Arch. Coating	0.00528	2.3949677	5.544E-05	240
Paving	0.042	19.05088	0.000441	23

Offsite	lbs/day/mile	Meters	Miles	lbs/day	g/day	g/sec
Haul1A						
Demolition H	0.0001409	135.1	0.0839471	1.183E-05	0.0053655	1.242E-07
Site Preparation H	0.0001429	135.1	0.0839471	1.199E-05	0.0054397	1.259E-07
Grading H	0.0001429	135.1	0.0839471	1.199E-05	0.0054397	1.259E-07
Foundation H	0.0001	135.1	0.0839471	8.395E-06	0.0038078	8.814E-08
BC V	0.09	135.1	0.0839471	0.0075552	3.4269982	7.933E-05
Haul1B						
Demolition H	0.0001409	246.3	0.1530434	2.157E-05	0.0097818	2.264E-07
Site Preparation H	0.0001429	246.3	0.1530434	2.186E-05	0.009917	2.296E-07
Grading H	0.0001429	246.3	0.1530434	2.186E-05	0.009917	2.296E-07
Foundation H	0.0001	246.3	0.1530434	1.53E-05	0.0069419	1.607E-07
BC V	0.09	246.3	0.1530434	0.0137739	6.2477399	0.0001446
Haul2A						
Demolition H	0.0001409	145.3	0.0902851	1.272E-05	0.0057706	1.336E-07
Site Preparation H	0.0001429	145.3	0.0902851	1.29E-05	0.0058504	1.354E-07
Grading H	0.0001429	145.3	0.0902851	1.29E-05	0.0058504	1.354E-07
Foundation H	0.0001	145.3	0.0902851	9.029E-06	0.0040953	9.48E-08
BC V	0.09	145.3	0.0902851	0.0081257	3.6857353	8.532E-05
HaulC						
Demolition H	0.0001409	810.6	0.5036825	7.097E-05	0.032193	7.452E-07
Site Preparation H	0.0001429	810.6	0.5036825	7.195E-05	0.0326381	7.555E-07
Grading H	0.0001429	810.6	0.5036825	7.195E-05	0.0326381	7.555E-07
Foundation H	0.0001	810.6	0.5036825	5.037E-05	0.0228467	5.289E-07
BC V	0.09	810.6	0.5036825	0.0453314	20.561989	0.000476

Mt. Etna Community Plan Amendment and Rezone Project
Mitigated Residential - Construction Health Risk Assumptions

Source Name	**Description**
Sline1	Onsite Construction
Haul1A	Haul Route Mt. Etna site to Genesee Ave
	135.1 m
Haul 1B	Genesee Ave from Mt. Etna to Balboa
	246.3 m
Haul 2A	Genesee Ave from Site to Balboa
	145.3 m
Haul C	Balboa from Genesee towards the 805
	810.6 m

Receptor Designations	
Residential	#1 - 450
School	#451 - 477

Construction hours per day 12

Phase	**Start**	**End**	**Days**
Demolition	2021/03/01	2021/03/21	15
Site Preparation	2021/03/22	2021/04/30	30
Grading	2021/05/01	2021/06/11	30
Drainage/Utilities/Trenching	2021/06/12	2021/07/22	29
Foundations/Concrete Pour	2021/07/23	2021/09/28	48
Building Construction	2021/09/29	2022/09/22	257
Architectural Coating	2021/11/24	2022/10/25	240
Paving	2022/09/23	2022/10/25	23

	lbs/day	**lbs/mile V**	**lbs/mile H**		
Demolition	0.0616		0.000140909		
Site Preparation	0.0692		0.000142857		
Grading	0.044		0.000142857		
Drainage/Utilities/Trenching	0.0367				
Foundations/Concrete Pour	0.0138		0.0001		
Building Construction	0.0214	0.09			0.4731
Architectural Coating	0.00528				0.109
Paving	0.042				

	2021	Days	2022	Days	Average
Building Construction	0.0214	68	0.0214	189	0.0214
Arch. Coating	5.28E-03	28	5.28E-03	212	0.00528

Vendor Trips	#	Miles/trip	Total miles	Days	lbs/day
Demolition	0	7.3	0		
Site Preparation	0	7.3	0		
Grading	0	7.3	0		
Drainage/Utilities/Trenching	0	7.3	0		
Foundations/Concrete Pour	0	7.3	0		
BC - 2021	79	7.3	576.7	68	0.09
BC - 2022	79	7.3	576.7	189	0.09
Architectural Coating	0	7.3	0		
Paving	0	7.3	0		

Haul Trips	#	#/day	Miles/trip	Total miles	lbs/day
Demolition	1639	110	20	2200	0.31
Site Preparation	200	7	20	140	2.00E-02
Grading	200	7	20	140	2.00E-02
Drainage/Utilities/Trenching	0	0	20	0	
Foundations/Concrete Pour	200	5	20	100	1.00E-02
BC - 2021	0	0	20	0	
Architectural Coating	0	0	20	0	
Paving	0	0	20	0	

Mitigated Residential Health Risk Assessment

2. Risk by Phase Summary

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential Risk by Phase

	Cancer Risk	Non-Cancer Risk	Receptor
Site Demolition and Preparation			
Demolition	0.05	0.001	418
Site Preparation	0.11	0.002	418
Grading	0.07	0.001	418
Trenching	0.05	0.001	418
Max Phase	0.27	0.005	418
Community Plan Amendment and Rezone			
Foundation	0.03	0.0003	418
BC	2.88	0.006	327
AC	0.06	0.0001	418
Paving	0.05	0.001	418
Max Phase	2.94	0.007	327

Mitigated Residential Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
1	0.0073564	0.17309736	0.001290756	0.002825264	0.001807325	0.001433058	0.000925477	0.169164919	0.001706259	0.001300699
2	0.00769768	0.18502533	0.001350685	0.002956362	0.001891452	0.001499185	0.000968999	0.180910623	0.001784992	0.001360718
3	0.00799653	0.19740216	0.001403187	0.003071175	0.001965258	0.001556914	0.001007402	0.193127912	0.001853726	0.001413115
4	0.00823697	0.20988722	0.001445458	0.003163562	0.00202482	0.001603127	0.001038679	0.205484735	0.001908749	0.00145506
5	0.00847056	0.22357908	0.001486545	0.003253331	0.002082798	0.001647881	0.001069301	0.219052064	0.001962036	0.001495681
6	0.00870287	0.23837885	0.001527423	0.003342619	0.002140545	0.001692284	0.001099934	0.233728029	0.002014904	0.001535983
7	0.00894843	0.25421533	0.001570633	0.003436999	0.002201599	0.001739201	0.001132344	0.24943365	0.002070766	0.001578567
8	0.00920845	0.27038363	0.00161638	0.00353693	0.002266204	0.001788934	0.00116657	0.265463374	0.00212998	0.001623706
9	0.009562	0.2883908	0.001678533	0.003672781	0.002353761	0.001856921	0.001212509	0.283281953	0.002210928	0.001685414
10	0.00990898	0.3049077	0.001739519	0.003806101	0.00243961	0.001923752	0.00125742	0.299613712	0.002290499	0.001746072
11	0.01034289	0.32333246	0.001815754	0.003972805	0.002546805	0.002007529	0.001313247	0.317806851	0.002390248	0.001822111
12	0.01070993	0.33960394	0.00188025	0.004113823	0.002637529	0.002078332	0.001360574	0.33388244	0.002474549	0.001886375
13	0.01103517	0.35546243	0.001937417	0.004238788	0.002718023	0.002140938	0.001402726	0.349567414	0.002549091	0.001943199
14	0.01125619	0.36848314	0.001976294	0.004323728	0.002772887	0.002183279	0.001431711	0.362470293	0.002599504	0.001981629
15	0.01117626	0.38440195	0.001962489	0.004293156	0.002754532	0.002166082	0.001424338	0.378432569	0.002579027	0.00196602
16	0.0109091	0.37978715	0.001915634	0.004190562	0.002689015	0.002113884	0.00139098	0.373960647	0.002516879	0.001918644
17	0.00821676	0.18121055	0.001441565	0.003155603	0.002017825	0.001601769	0.001031886	0.176817701	0.001907133	0.001453828
18	0.00870592	0.19489005	0.001527419	0.003343482	0.002138158	0.00169686	0.001093752	0.190235809	0.002020353	0.001540136
19	0.00917053	0.20959086	0.001608986	0.003521944	0.002252574	0.001787024	0.00115277	0.204688412	0.002127705	0.001621972
20	0.00959733	0.22533986	0.001683942	0.003685898	0.002357841	0.001869644	0.001207324	0.220209498	0.002226076	0.001696961
21	0.00995361	0.24154277	0.001746553	0.003822787	0.002445937	0.001938335	0.001253326	0.236222277	0.002307863	0.001759308
22	0.01029815	0.25939182	0.001807126	0.003955177	0.002531285	0.002004562	0.001298139	0.253887552	0.002386715	0.001819418
23	0.01348786	0.41125342	0.002367743	0.005180744	0.003320465	0.002618909	0.001711	0.404047211	0.003118183	0.002377024
24	0.01380162	0.42988767	0.002422934	0.005301323	0.003398358	0.002679002	0.001752168	0.422514205	0.003189731	0.002431566
25	0.01370588	0.4552024	0.002406476	0.005264749	0.003376822	0.002657831	0.001744279	0.447881247	0.003164525	0.002412351
26	0.01336822	0.45218523	0.002347292	0.005135106	0.003294222	0.002591604	0.001702543	0.445044779	0.003085672	0.00235224
27	0.01288374	0.44472667	0.002262334	0.004949066	0.003175478	0.002496865	0.001642186	0.437845359	0.002972871	0.002266251
28	0.00906167	0.18739401	0.001589643	0.003479999	0.002224417	0.001767613	0.001136116	0.182548941	0.002104594	0.001604354
29	0.01052758	0.22177169	0.00184685	0.004042987	0.002584554	0.002053189	0.001320518	0.216143001	0.002444612	0.001863554
30	0.01117923	0.24008369	0.001961225	0.004293277	0.002744865	0.00217986	0.001402948	0.234106779	0.002595432	0.001978526
31	0.01184469	0.26120957	0.002078055	0.00454889	0.00290875	0.002308995	0.001487491	0.254877163	0.002749186	0.002095734
32	0.01250482	0.28513791	0.002193985	0.004802474	0.003071535	0.002436823	0.001571804	0.278452969	0.002901383	0.002211755
33	0.01301773	0.30875792	0.002284124	0.004999544	0.003198381	0.002535686	0.001638073	0.301799264	0.003019093	0.002301487
34	0.01344044	0.33218656	0.002358459	0.005161981	0.003303201	0.002616797	0.001693284	0.325002504	0.003115668	0.002375107
35	0.01409882	0.36170144	0.002474151	0.005414933	0.003465962	0.00274377	0.001778225	0.354166014	0.003266847	0.002490352

36	0.01476937	0.39050174	0.002591968	0.005672556	0.003631642	0.002873207	0.001864548	0.382608398	0.00342096	0.002607834
37	0.01639896	0.45516547	0.00287822	0.006298592	0.004033894	0.003188251	0.002073526	0.446402102	0.003796064	0.00289378
38	0.01697305	0.48352318	0.002979135	0.006519181	0.004176008	0.00329873	0.002147989	0.474453526	0.003927605	0.002994055
39	0.01739798	0.50954257	0.003053891	0.00668249	0.004281557	0.003380043	0.002203862	0.500246429	0.00402442	0.003067858
40	0.01681399	0.5462309	0.002952048	0.006458562	0.004141713	0.003261669	0.002137994	0.537249008	0.003883479	0.002960417
41	0.01617863	0.54264947	0.002840707	0.006214628	0.003986436	0.003136858	0.002059775	0.534007685	0.003734874	0.002847134
42	0.01532973	0.52952733	0.002691845	0.005888653	0.003778372	0.002970863	0.001954012	0.521339613	0.003537234	0.002696471
43	0.00998678	0.19418347	0.001751777	0.003835184	0.002450619	0.001949197	0.001250242	0.188843267	0.002320795	0.001769167
44	0.01097321	0.2126264	0.001924797	0.004213994	0.002692622	0.002141793	0.001373622	0.206758697	0.002550108	0.001943975
45	0.01204199	0.23357221	0.002112274	0.004624435	0.002954899	0.002350381	0.001507447	0.227133004	0.002798461	0.002133297
46	0.01416538	0.28124031	0.002484817	0.005439919	0.00347641	0.002764237	0.001774236	0.273665931	0.003291216	0.002508929
47	0.0151956	0.30930566	0.002665626	0.005835606	0.003729789	0.002964577	0.001904419	0.301180725	0.00352975	0.002690766
48	0.01605053	0.33817563	0.00281574	0.006164007	0.003940459	0.003130321	0.002013293	0.329594043	0.003727091	0.002841201
49	0.01683071	0.36937974	0.00295279	0.006463731	0.00413306	0.00328113	0.002113381	0.360381627	0.00390665	0.002978081
50	0.017855	0.40832752	0.003132695	0.006857219	0.004385776	0.003479308	0.00224448	0.398782476	0.004142609	0.003157955
51	0.01885187	0.44707326	0.003307796	0.007240182	0.004631789	0.003672105	0.002372197	0.43699596	0.004372162	0.003332945
52	0.02126432	0.5366167	0.00373149	0.008166926	0.005226841	0.004139064	0.002680637	0.525251147	0.004928142	0.003756775
53	0.02211323	0.57781559	0.003880701	0.008493103	0.005436929	0.004302494	0.002790634	0.565997115	0.005122729	0.003905111
54	0.0227156	0.61649493	0.003986698	0.008724622	0.005586686	0.004417599	0.00287011	0.604355456	0.005259778	0.004009585
55	0.02299122	0.64701426	0.004035354	0.008830642	0.005656129	0.004469093	0.002908406	0.634728443	0.005321088	0.004056322
56	0.02301839	0.66814724	0.004040374	0.008841221	0.00566428	0.004472512	0.002914913	0.655847741	0.00532516	0.004059426
57	0.0209023	0.6703203	0.003669727	0.008028893	0.005148139	0.004055538	0.00265653	0.659154111	0.004828693	0.003680964
58	0.01966413	0.6579399	0.003452685	0.007553487	0.004845152	0.003812806	0.002503287	0.647436272	0.004539686	0.003460651
59	0.01829394	0.64056845	0.003212456	0.007027365	0.004509594	0.003544529	0.002333151	0.630797886	0.004220264	0.003217152
60	0.01078554	0.19886114	0.001891754	0.004141854	0.002645843	0.00210609	0.001348603	0.193093374	0.002507599	0.001911569
61	0.01208835	0.21958325	0.002120221	0.004642133	0.002965202	0.00236079	0.001511006	0.213118641	0.002810855	0.002142745
62	0.01353534	0.24291967	0.002373979	0.005197783	0.00331993	0.00264365	0.001691432	0.235681118	0.00314764	0.00239948
63	0.01516385	0.27006652	0.00265958	0.005823142	0.003719219	0.002961912	0.001894623	0.261956976	0.003526576	0.002688347
64	0.01687553	0.30037837	0.002959788	0.006480451	0.004139028	0.003296266	0.00210846	0.291353418	0.003924672	0.002991819
65	0.02167584	0.41109643	0.003802024	0.008324019	0.00531821	0.004231591	0.00271203	0.399505339	0.005038308	0.003840756
66	0.02339725	0.46180786	0.004104188	0.008985205	0.00574186	0.004565994	0.002930131	0.44929699	0.005436463	0.004144274
67	0.02502563	0.51452934	0.004390082	0.009610694	0.006142959	0.004881893	0.003137161	0.501148601	0.005812585	0.004430995
68	0.0288841	0.64290575	0.005067554	0.011092824	0.007093615	0.005630102	0.003628244	0.627463974	0.006703435	0.005110099
69	0.03025743	0.70775947	0.005308921	0.011620488	0.007433359	0.005894658	0.003805921	0.691584906	0.007018426	0.005350221
70	0.031078	0.76712504	0.005453395	0.011935917	0.007637842	0.006050848	0.003915192	0.750513473	0.007204392	0.005491984
71	0.03125812	0.8163389	0.005485555	0.01200541	0.007685332	0.006081824	0.003944631	0.799632892	0.007241273	0.0055201
72	0.03088747	0.84840303	0.005421025	0.011863349	0.007597208	0.006005892	0.003904149	0.831896832	0.007150865	0.00545118
73	0.01138301	0.20166855	0.001996447	0.004371236	0.00279182	0.002223508	0.001422072	0.195580933	0.002647402	0.002018143
74	0.01295343	0.22357589	0.002271807	0.004974257	0.003176558	0.002530808	0.001617372	0.216648177	0.003013286	0.00229706
75	0.01485518	0.24972051	0.002605257	0.005704501	0.003642441	0.002902977	0.001853818	0.241775431	0.003456405	0.002634854
76	0.01716592	0.28132018	0.003010419	0.006591793	0.004208506	0.003355201	0.00214109	0.272138937	0.003994843	0.003045311
77	0.0198658	0.31848935	0.003483815	0.00762851	0.004869916	0.003883559	0.002476777	0.307863774	0.004623928	0.003524869
78	0.02267474	0.35848731	0.003976349	0.008707112	0.005558139	0.004433138	0.002826224	0.346359123	0.005278279	0.004023688

79	0.02576879	0.40602673	0.00451892	0.009895221	0.006316469	0.005038182	0.003211665	0.392243545	0.00599867	0.00457285
80	0.03506571	0.59582602	0.006149801	0.013465544	0.008598455	0.006851908	0.004376904	0.577071889	0.008158168	0.006219058
81	0.0419052	0.78399584	0.007350195	0.016092476	0.010280745	0.008181779	0.005241456	0.761586712	0.009741568	0.0074261
82	0.04416466	0.88829148	0.007747273	0.016960596	0.010839533	0.008617258	0.005533416	0.864676638	0.010260067	0.007821358
83	0.04481688	0.99419513	0.007862831	0.017211724	0.011006291	0.008736034	0.005629119	0.970235364	0.010401487	0.007929164
84	0.04466635	1.08462557	0.00783758	0.017154573	0.010976073	0.008698119	0.005624345	1.060750129	0.010356343	0.00789475
85	0.04303081	1.13915193	0.007551759	0.016527094	0.010580951	0.008371006	0.005432605	1.116154602	0.009966869	0.00759785
86	0.01147739	0.19871909	0.002012942	0.004407445	0.002814634	0.002242366	0.001433166	0.192580815	0.002669854	0.002035258
87	0.0135027	0.22539005	0.002368044	0.005185127	0.003310702	0.002638823	0.001684798	0.218168263	0.003141893	0.002395098
88	0.01597161	0.25616187	0.002800902	0.006133132	0.003915299	0.003122275	0.001991283	0.247619177	0.003717511	0.002833898
89	0.01896143	0.29145596	0.003325062	0.007281139	0.004647315	0.003707909	0.002362135	0.281313597	0.004414791	0.003365442
90	0.02263555	0.33292541	0.003969169	0.008691889	0.005546738	0.004427757	0.00281758	0.320817153	0.005271873	0.004018804
91	0.02719268	0.38286649	0.004768054	0.01044167	0.00666221	0.005320741	0.003382257	0.368319829	0.006335096	0.004829311
92	0.03263235	0.44198565	0.005721649	0.012530319	0.007993673	0.00638671	0.004056216	0.424528325	0.007604283	0.005796826
93	0.03877796	0.51096581	0.006799024	0.014890039	0.009498085	0.007590815	0.00481797	0.490220179	0.009037941	0.006889718
94	0.04562341	0.59480566	0.007999172	0.017518521	0.011174317	0.008931397	0.005667523	0.570397561	0.010634094	0.008106482
95	0.06775172	1.57311215	0.011887468	0.026020243	0.016643762	0.013200249	0.008520368	1.536893957	0.015716768	0.011981059
96	0.06221916	1.69837397	0.010919882	0.023897239	0.015302912	0.012099131	0.007862844	1.665123755	0.01440573	0.010981641
97	0.01175303	0.20125453	0.002061258	0.00451328	0.00288207	0.002296424	0.001467248	0.194968745	0.002734218	0.002084323
98	0.01376913	0.22624172	0.002414726	0.005287415	0.00337577	0.002691221	0.001717501	0.21887728	0.00320428	0.002442657
99	0.01638728	0.25675125	0.002873723	0.00629271	0.004016761	0.003204091	0.002042192	0.247985976	0.003814924	0.002908157
100	0.03123131	0.4043476	0.005475765	0.01199221	0.007649129	0.006114208	0.003879254	0.387639021	0.007279832	0.005549493
101	0.03976467	0.47609102	0.006971433	0.015268577	0.009736316	0.007788339	0.004933346	0.454815557	0.009273122	0.007068999
102	0.05148369	0.56722802	0.009025373	0.019768024	0.012602161	0.010088132	0.006379838	0.539680446	0.012011351	0.00915638
103	0.0678633	0.68754342	0.011896065	0.026056826	0.016607227	0.013303185	0.008400527	0.651229081	0.015839328	0.012074487
104	0.0114818	0.19722077	0.002013696	0.004409128	0.002815603	0.002243372	0.001433479	0.191080065	0.002671052	0.002036171
105	0.01361428	0.22375376	0.002387569	0.00522795	0.003337809	0.002660949	0.001698193	0.216472148	0.003168237	0.00241518
106	0.01646294	0.25693393	0.002886978	0.006321756	0.004035233	0.003218976	0.002051469	0.24812815	0.003832647	0.002921667
107	0.06394726	0.62545267	0.011209328	0.024553063	0.015647296	0.012537577	0.007912398	0.591232916	0.014927762	0.011379591
108	0.09743558	0.79932233	0.017077602	0.037410087	0.02383051	0.019117386	0.012032851	0.747175838	0.022761957	0.017351681
109	0.01096313	0.19091167	0.001922763	0.004209971	0.0026886	0.002141793	0.001369116	0.185048469	0.002550108	0.001943975
110	0.01306814	0.21767412	0.002291827	0.00501825	0.00320412	0.00255394	0.001630506	0.210684733	0.003040827	0.002318055
111	0.01584162	0.25058595	0.002778062	0.00608319	0.003883181	0.003097182	0.00197455	0.242112644	0.003687635	0.002811123
112	0.07068949	0.67670131	0.012390993	0.027141693	0.017295999	0.01386081	0.00874442	0.638873022	0.016503259	0.012580609
113	0.11967815	0.91376198	0.020975231	0.04594957	0.029265634	0.023487716	0.014769452	0.849708711	0.027965455	0.021318363
114	0.01033584	0.18381482	0.001812793	0.003969111	0.002535038	0.002018894	0.001291354	0.178287256	0.002403779	0.001832426
115	0.0122575	0.20886314	0.002149719	0.004706992	0.003005701	0.002395085	0.00153007	0.202307511	0.002851688	0.002173872
116	0.01486104	0.24089575	0.002606175	0.005706688	0.003643235	0.002904938	0.001853204	0.232947168	0.00345874	0.002636634
117	0.01843045	0.28173943	0.003231931	0.007077235	0.004517064	0.003604219	0.002295753	0.271881016	0.004291333	0.003271329
118	0.06862685	0.69995146	0.012029968	0.026350029	0.016794415	0.013452435	0.008495748	0.663228732	0.01601703	0.012209952
119	0.12163691	1.01047965	0.021319541	0.046702199	0.029750508	0.023864662	0.015023506	0.945381388	0.028414262	0.021660494
120	0.00963735	0.17570587	0.00169034	0.003700913	0.002364033	0.001882065	0.001204736	0.170552036	0.002240865	0.001708235
121	0.01137471	0.19917704	0.001994961	0.00436803	0.002789614	0.0022221	0.001420681	0.193093765	0.002645726	0.002016865

122	0.01371224	0.22909352	0.002404796	0.005265596	0.003362096	0.002679756	0.001710975	0.221759665	0.003190629	0.00243225
123	0.016847	0.26640617	0.00295437	0.006469257	0.00412962	0.003293751	0.002099851	0.257395104	0.003921678	0.002989537
124	0.05961956	0.66658526	0.010451756	0.022891998	0.014594358	0.011681453	0.007389498	0.634684797	0.013908425	0.01060254
125	0.10283259	1.00797635	0.01802557	0.039483409	0.025162328	0.020161278	0.012724133	0.952948202	0.02400486	0.018299159
126	0.00897399	0.16791871	0.001574044	0.003446202	0.002201623	0.001752125	0.001122461	0.163119795	0.002086153	0.001590297
127	0.01050641	0.18935739	0.001842741	0.00403463	0.002577054	0.002051982	0.001313044	0.183738714	0.002443175	0.001862458
128	0.01253465	0.21629171	0.002198359	0.004813439	0.003073856	0.002448992	0.001565074	0.209587964	0.002915872	0.0022228
129	0.01529897	0.25093718	0.002683012	0.005874878	0.003750809	0.002990274	0.00190826	0.242754484	0.003560345	0.002714088
130	0.01913111	0.29564395	0.003354838	0.00734631	0.004689018	0.003740947	0.002383512	0.285410883	0.004454128	0.003395429
131	0.02482247	0.35792332	0.004352559	0.009531598	0.006082115	0.004856196	0.003088718	0.344644944	0.00578199	0.004407672
132	0.03368681	0.44856888	0.005906439	0.01293516	0.00825142	0.006593789	0.004186125	0.430547136	0.00785084	0.005984778
133	0.04874565	0.59526469	0.008546099	0.018717119	0.011936135	0.009546297	0.006049315	0.569184564	0.01136622	0.00866459
134	0.07667419	0.86215713	0.013441621	0.029440462	0.018769536	0.015022574	0.009504057	0.821131501	0.017886503	0.013635071
135	0.13768929	1.50886298	0.024137586	0.052868049	0.033702954	0.026980702	0.017061174	1.435188725	0.032124349	0.024488732
136	0.00834268	0.16041826	0.001463365	0.003203797	0.002047052	0.001628471	0.001044148	0.155957124	0.001938925	0.001478063
137	0.0097203	0.18059716	0.001704931	0.003732791	0.002384624	0.001897955	0.001215615	0.175399103	0.002259785	0.001722658
138	0.01145659	0.20451968	0.002009371	0.004399502	0.002809978	0.002237739	0.001431498	0.198392779	0.002664346	0.002031059
139	0.01378803	0.23505541	0.002418145	0.005294732	0.003381016	0.002694138	0.00172114	0.22768121	0.003207753	0.002445304
140	0.01704359	0.2757436	0.002988922	0.006544791	0.004178257	0.003331617	0.002125293	0.266627639	0.003966762	0.003023905
141	0.02166477	0.33058136	0.003799088	0.008319199	0.005309711	0.00423677	0.00269854	0.318992884	0.005044475	0.003845457
142	0.02835765	0.40588118	0.004972407	0.010889054	0.006948105	0.005548085	0.003528154	0.390711583	0.006605782	0.005035658
143	0.03864639	0.51959223	0.006776084	0.014839591	0.009466605	0.007564113	0.004803184	0.498917416	0.009006148	0.006865482
144	0.05414115	0.70057218	0.009492526	0.020789134	0.013260145	0.010599342	0.006724835	0.671606956	0.012620019	0.009620375
145	0.07876577	1.02060155	0.01380996	0.030244515	0.019291261	0.015420037	0.009783653	0.978462338	0.018359739	0.013995824
146	0.00774936	0.15334609	0.001359346	0.002975977	0.00190178	0.001512259	0.000970542	0.149202405	0.001800559	0.001372585
147	0.00893085	0.17123498	0.001566528	0.003429664	0.002191335	0.001743325	0.001117687	0.166459311	0.002075675	0.001582309
148	0.01044589	0.19320301	0.001832188	0.004011427	0.002562567	0.002039712	0.001306225	0.187616893	0.002428566	0.001851322
149	0.01246197	0.22143855	0.002185692	0.004785577	0.003056495	0.002434208	0.001556965	0.214773933	0.00289827	0.002209382
150	0.01506485	0.25589375	0.002642062	0.005785035	0.003694043	0.002943709	0.001880383	0.247836641	0.003504902	0.002671824
151	0.0186212	0.30160171	0.003265591	0.007150602	0.004565035	0.003639972	0.002322068	0.291641961	0.004333903	0.00330378
152	0.02307442	0.36148191	0.004046399	0.008860569	0.005655873	0.004511585	0.00287554	0.3491398	0.005371681	0.004094889
153	0.02982246	0.44614813	0.005229495	0.011451664	0.007308399	0.005832907	0.00371331	0.430195742	0.006944902	0.005294173
154	0.03760714	0.55675277	0.006594498	0.014440894	0.009215716	0.007356028	0.004681727	0.536636034	0.008758394	0.006676617
155	0.04857099	0.73217786	0.008517196	0.018651035	0.011903378	0.00949938	0.006048598	0.706196894	0.011310358	0.008622006
156	0.00719496	0.14652258	0.001262148	0.002763101	0.001766023	0.001403691	0.000901734	0.142675505	0.001671293	0.001274045
157	0.00825033	0.16332139	0.001447224	0.003168364	0.002024728	0.001610016	0.001033294	0.158909832	0.001916952	0.001461313
158	0.0095285	0.18268369	0.00167136	0.003659177	0.002337979	0.001859989	0.001192481	0.177588428	0.00221458	0.001688198
159	0.01117123	0.20691346	0.001959415	0.004289974	0.002740527	0.002181318	0.001396971	0.200939468	0.002597169	0.001979849
160	0.01327273	0.23710229	0.002327905	0.005096928	0.003255437	0.002592459	0.001658448	0.230004134	0.00308669	0.002353016
161	0.01595167	0.27481607	0.00279764	0.00612561	0.003911778	0.003116643	0.001991657	0.26628482	0.003710805	0.002828786
162	0.01915811	0.32189325	0.003359891	0.007356858	0.004697494	0.003743864	0.002390768	0.311646801	0.004457601	0.003398076
163	0.02308124	0.38221343	0.004047849	0.008863331	0.005659028	0.004511031	0.002879498	0.369868518	0.005371022	0.004094387
164	0.02749144	0.45281819	0.004821254	0.010556857	0.006740141	0.00537319	0.003429327	0.438114406	0.006397544	0.004876916

165	0.03363654	0.56359958	0.005899056	0.012916675	0.008247438	0.006573372	0.004197319	0.545609482	0.007826531	0.005966248
166	0.00668226	0.13987915	0.001172257	0.002566235	0.001640453	0.00130332	0.00083805	0.136306373	0.001551787	0.001182944
167	0.00756809	0.15445177	0.001327606	0.002906396	0.001857631	0.001476455	0.000948547	0.150405201	0.00175793	0.001340088
168	0.00865852	0.17198279	0.001518833	0.003325124	0.002124944	0.001689619	0.001084504	0.167352992	0.002011731	0.001533564
169	0.00999235	0.19298561	0.001752738	0.003837315	0.002451892	0.001950404	0.001250742	0.187642373	0.002322232	0.001770262
170	0.01162592	0.2183813	0.002039203	0.004464603	0.002852289	0.002269822	0.001454289	0.212164288	0.002702545	0.002060179
171	0.01359307	0.24903079	0.002384167	0.005219989	0.003334455	0.002654462	0.001699411	0.241761577	0.003160513	0.002409293
172	0.01567175	0.28507002	0.002748733	0.006018224	0.003844219	0.003060574	0.00195898	0.2766891	0.003644047	0.002777896
173	0.01819371	0.32781924	0.003191032	0.006986679	0.004462621	0.003553379	0.002273756	0.318089493	0.004230802	0.003225185
174	0.02100867	0.38077688	0.00368478	0.008067683	0.005153245	0.004102958	0.002625891	0.369541835	0.004885153	0.003724004
175	0.02445276	0.44977276	0.004288933	0.009390321	0.005998525	0.004774984	0.003057363	0.436696141	0.005685295	0.004333961
176	0.00619067	0.13304258	0.001086059	0.002377468	0.001520018	0.001207122	0.000776918	0.129732785	0.00143725	0.001095631
177	0.00694919	0.14618197	0.001219092	0.002668749	0.001706033	0.001355316	0.000871634	0.142466504	0.001613696	0.001230137
178	0.00784452	0.16142797	0.001376114	0.003012563	0.001925578	0.001530262	0.000983394	0.157233659	0.001821994	0.001388925
179	0.00891119	0.17948169	0.001563186	0.003422175	0.002187132	0.001738698	0.001116526	0.174716884	0.002070167	0.00157811
180	0.01016933	0.20078671	0.001783837	0.003905311	0.002495635	0.001984548	0.001273556	0.195349016	0.002362886	0.001801253
181	0.01161727	0.2256142	0.002037779	0.004461336	0.002850701	0.002267459	0.001454322	0.219402117	0.002699731	0.002058034
182	0.01308687	0.25418242	0.00229556	0.005025699	0.003211319	0.002554292	0.0016383	0.247184496	0.003041246	0.002318374
183	0.01471284	0.28740678	0.00258079	0.005650125	0.003610426	0.002871497	0.001842097	0.279539475	0.003418925	0.002606283
184	0.01646046	0.32583558	0.002887395	0.006321288	0.004039588	0.003212187	0.002061551	0.317033958	0.003824564	0.002915506
185	0.01858551	0.36993222	0.003260184	0.007137385	0.004561248	0.003626697	0.002328005	0.359994387	0.004318097	0.003291731
186	0.0151755	0.43432938	0.002663651	0.005828774	0.003733888	0.00294919	0.001920807	0.426220347	0.003511428	0.002676799
187	0.01355961	0.42391871	0.002380468	0.005208378	0.003338883	0.002631883	0.001721681	0.416674597	0.00313363	0.0023888
188	0.01206523	0.41564508	0.002118595	0.004634641	0.002973677	0.002338312	0.001537732	0.409200917	0.002784092	0.002122343
189	0.00572334	0.12624395	0.001004115	0.002198019	0.001405507	0.001115702	0.000718758	0.123184136	0.001328401	0.001012654
190	0.00635836	0.13787447	0.001115493	0.002441876	0.001561279	0.001239708	0.000798148	0.134475067	0.001476048	0.001125207
191	0.00709067	0.15120542	0.001243937	0.002723097	0.001740913	0.001382722	0.000889689	0.147414393	0.001646326	0.001255012
192	0.00793501	0.16661069	0.001392029	0.003047338	0.00194803	0.001547611	0.000995239	0.162368127	0.00184265	0.001404671
193	0.00889687	0.18437798	0.001560737	0.003416711	0.00218399	0.00173543	0.001115513	0.179621047	0.002066275	0.001575143
194	0.00987738	0.20436827	0.00173274	0.003793259	0.00242466	0.001926719	0.001238402	0.19908707	0.002294032	0.001748765
195	0.01097183	0.22725443	0.001924736	0.004213567	0.002693339	0.002140184	0.001375658	0.221388069	0.002548193	0.001942514
196	0.01207715	0.25266783	0.002118669	0.004638068	0.002964852	0.00235556	0.001514624	0.24621058	0.002804628	0.002137998
197	0.01456278	0.31119466	0.002554798	0.005592685	0.003575525	0.002839767	0.001827336	0.303408698	0.003381145	0.002577483
198	0.01563844	0.38657871	0.002744154	0.006006154	0.003843401	0.003044734	0.001970208	0.378219794	0.003625187	0.002763519
199	0.01480951	0.38126994	0.002598885	0.0056879	0.003640771	0.002881957	0.001868064	0.37335472	0.003431378	0.002615776
200	0.01382223	0.37528051	0.002425869	0.005308849	0.003399455	0.002688053	0.001746457	0.367893759	0.003200508	0.002439781
201	0.0127445	0.36861168	0.002237001	0.004895074	0.003136024	0.002476398	0.001613689	0.361801816	0.002948503	0.002247675
202	0.01164706	0.36183448	0.00204468	0.004473731	0.002867776	0.002260871	0.001478496	0.355612043	0.002691888	0.002052054
203	0.01058015	0.3553791	0.001857711	0.004064112	0.002607	0.002051328	0.001347084	0.349727757	0.002442397	0.001861865
204	0.00528627	0.11972187	0.000927473	0.002030188	0.001298399	0.001030215	0.00066434	0.11689585	0.001226617	0.000935063
205	0.00580826	0.12986566	0.001019034	0.002230643	0.001426486	0.001132095	0.000729686	0.126760524	0.00134792	0.001027533
206	0.00640472	0.14150681	0.00112366	0.002459701	0.001572854	0.001248508	0.000804364	0.138082723	0.001486525	0.001133194
207	0.00708294	0.15490476	0.001242628	0.002720156	0.001739294	0.001380861	0.000889301	0.151118024	0.001644111	0.001253323

208	0.00780416	0.16964145	0.001369146	0.002997128	0.001916323	0.001521562	0.000979698	0.165469086	0.001811636	0.001381029
209	0.00854761	0.18606648	0.001499579	0.003282647	0.002098897	0.001666487	0.001073067	0.181496656	0.001984189	0.001512569
210	0.00933383	0.20442928	0.001637528	0.003584599	0.002292047	0.001819659	0.001171958	0.19943917	0.002166562	0.001651593
211	0.010951	0.24398759	0.001921295	0.004205689	0.002689461	0.002134552	0.001375633	0.238133069	0.002541487	0.001937402
212	0.01160784	0.26305211	0.00203659	0.00445798	0.002851096	0.002262179	0.001458812	0.256846613	0.002693444	0.002053241
213	0.01289186	0.31536015	0.002262157	0.00495127	0.003168145	0.002510291	0.00162368	0.308469174	0.002988857	0.002278438
214	0.01279255	0.32031153	0.002244821	0.004913178	0.003144269	0.002490277	0.001612283	0.313473944	0.002965028	0.002260272
215	0.01257101	0.32542915	0.002206077	0.004828168	0.003090585	0.002446176	0.00158597	0.318710421	0.002912519	0.002220244
216	0.01208988	0.32410151	0.002121783	0.00464346	0.002973102	0.002351537	0.001526948	0.317640375	0.002799839	0.002134347
217	0.01146744	0.32085614	0.00201271	0.004404489	0.002821001	0.002229241	0.00145036	0.314728208	0.002654228	0.002023346
218	0.01075909	0.31679839	0.001888579	0.004132533	0.002647882	0.002090099	0.001363146	0.311049632	0.002488559	0.001897055
219	0.01000889	0.3122306	0.00175711	0.003844507	0.002464514	0.00194276	0.001270739	0.306883407	0.002313131	0.001763325
220	0.00918182	0.30103477	0.001612095	0.003526926	0.002261915	0.001780889	0.001167935	0.296130029	0.0021204	0.001616404
221	0.00486863	0.11323884	0.000854234	0.001869812	0.001196032	0.00094855	0.000612302	0.110636215	0.001129383	0.000860941
222	0.00530947	0.12239286	0.000931569	0.002039112	0.001304251	0.00103454	0.000667579	0.119554528	0.001231766	0.000938988
223	0.00580243	0.13271175	0.001018048	0.002228426	0.001425269	0.001130687	0.000729402	0.129609844	0.001346243	0.001026255
224	0.00632616	0.14386482	0.001109927	0.002429558	0.001553855	0.001232818	0.000795114	0.140482904	0.001467845	0.001118954
225	0.00687498	0.15626959	0.001206217	0.002640331	0.001688652	0.001339777	0.000864082	0.152594276	0.001595195	0.001216034
226	0.00806172	0.18491918	0.001414451	0.00309611	0.001980264	0.001570893	0.00101349	0.180609519	0.001870371	0.001425804
227	0.00863097	0.20064803	0.001514362	0.003314752	0.002120287	0.001681573	0.001085457	0.196034156	0.002002151	0.001526261
228	0.00907178	0.21357432	0.001591738	0.003484064	0.002228769	0.001767211	0.001141298	0.208724919	0.002104115	0.001603989
229	0.00956899	0.22919799	0.001679026	0.003675047	0.002351205	0.00186371	0.001204441	0.224082959	0.002219011	0.001691576
230	0.01040398	0.2662765	0.00182575	0.003995854	0.002557602	0.002024777	0.001312116	0.260715833	0.002410784	0.001837766
231	0.01037963	0.27157274	0.00182155	0.003986544	0.002552043	0.002019497	0.001309937	0.26602533	0.002404497	0.001832974
232	0.01028907	0.27724282	0.001805757	0.003951819	0.002530356	0.002001143	0.00129972	0.271744137	0.002382644	0.001816315
233	0.00999125	0.27697409	0.001753584	0.003837485	0.002457671	0.001942509	0.001263268	0.271634889	0.002312832	0.001763096
234	0.00960191	0.27590962	0.00168537	0.003688013	0.0023626	0.001865923	0.001215506	0.270778883	0.002221645	0.001693584
235	0.00913631	0.27393202	0.001603787	0.003509262	0.002248858	0.001774402	0.001158285	0.269050542	0.002112677	0.001610516
236	0.00856633	0.26709024	0.001503859	0.003290403	0.002109297	0.001662766	0.001087568	0.262513727	0.001979759	0.001509191
237	0.00805005	0.26483716	0.001413395	0.003092194	0.00198317	0.001561288	0.001024109	0.260537032	0.001858935	0.001417086
238	0.04610277	0.75184872	0.008085083	0.017703651	0.011302582	0.009011452	0.005749801	0.727190368	0.010729411	0.008179144
239	0.04694297	0.7737458	0.008232532	0.01802635	0.011509156	0.009174933	0.005855824	0.748638392	0.010924058	0.008327525
240	0.04773349	0.79587221	0.00837128	0.018329979	0.011703626	0.009328608	0.005955807	0.770342363	0.01110703	0.008467007
241	0.04846844	0.81817646	0.008500296	0.018612274	0.011884549	0.00947132	0.006049023	0.792253949	0.011276949	0.008596538
242	0.04918573	0.84150126	0.008626232	0.018887799	0.012061238	0.009610463	0.006140234	0.815195577	0.011442618	0.008722829
243	0.04986197	0.86549739	0.008744986	0.019147571	0.012227959	0.009741458	0.006226527	0.838830552	0.011598587	0.008841726
244	0.05029122	0.77815216	0.008819096	0.019311736	0.0123264	0.009833985	0.006265841	0.751251861	0.011708753	0.008925707
245	0.05134783	0.80313303	0.009004491	0.019717534	0.012585998	0.010039807	0.006398786	0.775667916	0.011953813	0.009112518
246	0.05228366	0.82753912	0.009168722	0.020076963	0.012816086	0.010221893	0.006516879	0.799573838	0.012170613	0.009277787
247	0.05315045	0.85223849	0.009320861	0.020409885	0.013029347	0.010390352	0.006626574	0.823810041	0.012371187	0.009430687
248	0.05398247	0.87795979	0.009466923	0.02072947	0.013234201	0.010551872	0.006732173	0.849086834	0.012563499	0.009577289
249	0.05475661	0.9044131	0.009602857	0.021026844	0.013424987	0.010701926	0.006830807	0.875126648	0.01274216	0.009713484
250	0.05547707	0.93180879	0.009729398	0.021303613	0.013602742	0.01084132	0.006923018	0.902137643	0.012908128	0.009840003

251	0.05610388	0.95932367	0.009839536	0.021544434	0.013757656	0.010962258	0.007003799	0.929317982	0.013052122	0.009949771
252	0.05609425	0.82910608	0.009836239	0.021539816	0.01374593	0.010972265	0.006982993	0.799100198	0.013064037	0.009958854
253	0.05736822	0.85810892	0.010059757	0.022029083	0.014058849	0.011220529	0.007143119	0.827421984	0.01335963	0.010184187
254	0.05854492	0.88767948	0.010266245	0.022481014	0.014348077	0.011449583	0.007291438	0.856363608	0.013632351	0.010392086
255	0.05954639	0.91652463	0.010442028	0.022865671	0.014594499	0.011644191	0.007418225	0.88467363	0.013864059	0.010568719
256	0.06042791	0.94547178	0.010596801	0.02320428	0.014811661	0.011815164	0.007530361	0.913149887	0.014067627	0.010723901
257	0.06122478	0.97523255	0.010736757	0.023510402	0.015008231	0.011969392	0.007632272	0.942485138	0.014251258	0.010863885
258	0.06195154	1.00630602	0.010864447	0.023789616	0.015187788	0.012109691	0.007725809	0.973170682	0.014418303	0.010991225
259	0.06263934	1.03979419	0.010985342	0.024053891	0.015358012	0.012242094	0.007814946	1.006291892	0.014575949	0.0111114
260	0.06322239	1.0747811	0.011087906	0.024277963	0.015502786	0.01235373	0.007891502	1.040968007	0.014708867	0.011212725
261	0.06463362	0.92206784	0.011333224	0.024818643	0.015836114	0.012645642	0.00804102	0.887492718	0.015056429	0.011477675
262	0.06587574	0.95450886	0.011551206	0.025295707	0.01614151	0.012887318	0.00819777	0.919269879	0.015344178	0.01169703
263	0.06701478	0.98820782	0.011751147	0.02573321	0.016421847	0.013108577	0.008342107	0.952360245	0.015607619	0.011897854
264	0.06791847	1.02090563	0.011909849	0.026080356	0.016644688	0.013283574	0.008457519	0.984575447	0.015815977	0.012056687
265	0.06880963	1.05687269	0.012066398	0.026422716	0.016864708	0.013455804	0.008571893	1.020066743	0.016021042	0.01221301
266	0.06964982	1.09689785	0.012214069	0.026745539	0.017072585	0.013617625	0.008680647	1.059643608	0.016213713	0.012359885
267	0.07018877	1.1336956	0.012308931	0.026952696	0.017206731	0.013720411	0.008752085	1.096154248	0.016336093	0.012453177
268	0.0705868	1.17163561	0.012379124	0.027105765	0.017306578	0.013795337	0.008806467	1.133882659	0.016425304	0.012521184
269	0.07083129	1.21044543	0.012422429	0.027199893	0.017369022	0.013839941	0.008842207	1.172563141	0.016478411	0.012561668
270	0.07094728	1.25133172	0.012443254	0.027244712	0.017400268	0.01385905	0.008862552	1.213388996	0.016501163	0.012579012
271	0.07478867	1.03377497	0.013113457	0.028717841	0.01832185	0.01463552	0.009299403	0.993766144	0.017425661	0.013283766
272	0.07585886	1.07041676	0.013301375	0.029128936	0.018585602	0.014842951	0.009435767	1.029836315	0.017672637	0.013472039
273	0.07686365	1.11024775	0.013477875	0.029514942	0.018833623	0.015037207	0.009564614	1.069130859	0.017903926	0.013648353
274	0.077823	1.15506728	0.013646478	0.029883544	0.019070919	0.015222059	0.009688659	1.113438465	0.018124019	0.013816132
275	0.07837419	1.19678729	0.013743546	0.030095435	0.019208406	0.015326806	0.009762336	1.154865016	0.018248735	0.013911204
276	0.07873437	1.23951578	0.013807165	0.030234003	0.01929936	0.015393837	0.009812811	1.197402383	0.018328545	0.013972044
277	0.07891676	1.28427001	0.013839668	0.030304337	0.019347083	0.015425669	0.009841855	1.242060778	0.018366445	0.014000936
278	0.07892968	1.33192009	0.013842521	0.030309635	0.019353667	0.015423858	0.009850618	1.28970589	0.018364289	0.013999293
279	0.07874659	1.38027266	0.013811048	0.030239692	0.019312478	0.015383378	0.009835522	1.338158499	0.018316092	0.013962551
280	0.07789975	1.43262358	0.013663353	0.029914966	0.019109628	0.015211801	0.009739879	1.39096508	0.018111805	0.013806821
281	0.07735638	1.48422553	0.013568811	0.029706739	0.01898077	0.015100065	0.009681225	1.442860129	0.017978768	0.013705405
282	0.08653452	1.16896431	0.015172641	0.0332279	0.021197413	0.01693657	0.010755815	1.122670822	0.020165387	0.015372289
283	0.08735071	1.21393302	0.015316168	0.033541543	0.02139979	0.017093212	0.01086238	1.167204287	0.020351892	0.015514463
284	0.08797203	1.26206844	0.015425599	0.033780401	0.021554849	0.017211184	0.010945597	1.215008948	0.020492353	0.015621538
285	0.08831507	1.31187696	0.015486304	0.033912439	0.02164213	0.017274192	0.010995044	1.264635819	0.020567374	0.015678728
286	0.08841291	1.36425489	0.015504091	0.03395037	0.021669774	0.017288675	0.011014901	1.316963502	0.020584618	0.015691872
287	0.08825407	1.41918593	0.015476946	0.03388978	0.021634974	0.017252368	0.011003761	1.371981859	0.020541389	0.015658919
288	0.08785816	1.47493241	0.015408284	0.033738188	0.021542391	0.017169295	0.01096376	1.427942653	0.020442479	0.015583519
289	0.08643583	1.53720117	0.015159906	0.033192613	0.021199846	0.016883468	0.010799254	1.49097566	0.020102161	0.015324091
290	0.08570148	1.59923243	0.015032037	0.032911141	0.02102514	0.016733162	0.010718823	1.553402736	0.019923201	0.015187668
291	0.08487909	1.66356017	0.014888774	0.032595887	0.020829119	0.016565307	0.010627974	1.618173537	0.019723345	0.015035315
292	0.08382805	1.72924297	0.014705476	0.032192868	0.020577408	0.016352294	0.010509375	1.684421891	0.019469724	0.014841977
293	0.09971274	1.39057876	0.0174838	0.038288438	0.024428676	0.019511831	0.012400374	1.337237087	0.023231601	0.017709695

294	0.09962667	1.45046382	0.017469463	0.038255817	0.024411986	0.019489403	0.012398877	1.397170702	0.023204897	0.017689339
295	0.0992103	1.51329095	0.017397305	0.038096422	0.024314922	0.019401654	0.012357443	1.460223396	0.023100419	0.017609694
296	0.09794152	1.58237326	0.017175907	0.037609839	0.02401033	0.019145445	0.012212736	1.529988009	0.022795366	0.017377149
297	0.09667003	1.65275411	0.01695405	0.037122222	0.02370517	0.018888583	0.012067892	1.60105267	0.022489535	0.017144011
298	0.09563505	1.72773924	0.016773681	0.036725435	0.023458048	0.018677883	0.01195266	1.676595139	0.022238668	0.016952772
299	0.09434969	1.80676095	0.016549503	0.036232558	0.023150128	0.018417501	0.011807424	1.756308443	0.021928646	0.016716439
300	0.09288249	1.8895099	0.016293517	0.0356699	0.022798108	0.018120963	0.011640519	1.839846514	0.021575575	0.016447289
301	0.09124938	1.9751076	0.016008505	0.03504357	0.022405814	0.017791487	0.011453758	1.926322309	0.021183287	0.016148245
302	0.08945807	2.08567177	0.015696089	0.034356687	0.021976719	0.017428571	0.01125142	2.03785032	0.020751184	0.015818848
303	0.08758763	2.20233486	0.015369888	0.03363947	0.021528757	0.017049513	0.011040327	2.155519869	0.020299862	0.0154748
304	0.11215583	1.61643391	0.019666239	0.043066795	0.027480881	0.021941916	0.013955696	1.556437924	0.026124961	0.019915335
305	0.11099796	1.6939792	0.019464373	0.042622848	0.027203959	0.021706777	0.013825824	1.634606472	0.025844995	0.019701914
306	0.10914185	1.77991724	0.019140304	0.041910917	0.026757282	0.021333351	0.013611852	1.72154203	0.025400378	0.019362978
307	0.10722289	1.87070205	0.018805283	0.041174891	0.026295619	0.020947102	0.013390926	1.813358231	0.024940494	0.019012403
308	0.10528816	1.96820778	0.018467583	0.040432856	0.02583059	0.020557132	0.013169085	1.911904067	0.024476179	0.018658451
309	0.10329084	2.07333862	0.018119014	0.039666849	0.02535084	0.020154138	0.012940741	2.018108843	0.023996358	0.018292678
310	0.10108955	2.21647969	0.017735184	0.038822807	0.02482406	0.019707495	0.012693189	2.162434646	0.023464566	0.017887288
311	0.09883168	2.38956202	0.017341816	0.03795726	0.024285634	0.019246973	0.012443234	2.336733237	0.02291625	0.0174693
312	0.09635606	2.56325759	0.01691031	0.037008123	0.023694122	0.018743507	0.012166748	2.511761704	0.022316802	0.017012335
313	0.09375157	2.72279176	0.016456056	0.036009413	0.023070147	0.018215954	0.011872373	2.672697204	0.021688675	0.016533507
314	0.09108399	2.84870941	0.015990334	0.034986246	0.022428359	0.017679047	0.011565216	2.800048591	0.021049411	0.01604619
315	0.08833662	2.91275896	0.015509871	0.033932015	0.02176265	0.017132083	0.011238981	2.865572062	0.020398173	0.015549744
316	0.12099593	2.02725093	0.021219832	0.046463313	0.029667324	0.023645464	0.0150984	1.962537712	0.028153276	0.021461541
317	0.11824142	2.14905474	0.020738831	0.045406745	0.02900403	0.023091812	0.014779995	2.08582164	0.027494075	0.020959025
318	0.11534731	2.29080981	0.020233626	0.044296731	0.028308113	0.022508843	0.014447532	2.229132413	0.026799968	0.0204299
319	0.11240101	2.51868232	0.019720341	0.043167287	0.027605662	0.021907721	0.014121668	2.458592111	0.026084247	0.019884298
320	0.10939957	2.76802377	0.019197663	0.042016827	0.026891303	0.021293776	0.013792298	2.709551154	0.025353258	0.019327058
321	0.10610145	2.76380762	0.018619883	0.040750687	0.026086304	0.02064458	0.013388438	2.707101059	0.024580298	0.018737822
322	0.10237752	1.95441476	0.017957557	0.039315394	0.025119439	0.019985126	0.012811153	1.899669207	0.023795125	0.018139276
323	0.0989988	1.99657768	0.017366231	0.038018641	0.024298114	0.019315815	0.012404431	1.943643251	0.022998216	0.017531784
324	0.09556676	2.03771354	0.016765552	0.036701408	0.023463704	0.018636096	0.011991034	1.986618752	0.022188913	0.016914844
325	0.1291357	2.55907367	0.022652243	0.049591832	0.031691606	0.025200014	0.01617372	2.490023251	0.030004189	0.022872511
326	0.12520639	2.71703118	0.021965903	0.048084531	0.030744282	0.024411676	0.015717137	2.650091498	0.02906556	0.022156985
327	0.12115263	2.94129591	0.021258581	0.046529921	0.029771367	0.023592764	0.015255332	2.876536342	0.028090529	0.021413709
328	0.1166163	2.12372467	0.020453848	0.044782703	0.0286057	0.022774053	0.014577493	2.061360827	0.027115738	0.020670615
329	0.11243235	2.1753125	0.019721586	0.043176894	0.027588587	0.021945285	0.014073743	2.11519139	0.026128972	0.019918393
330	0.1082193	2.22252011	0.018984173	0.041559884	0.026564059	0.021111186	0.013565776	2.164657142	0.02513586	0.019161332
331	0.13407303	2.32032925	0.02351416	0.051485534	0.032879059	0.026194274	0.016741367	2.248624942	0.031187996	0.02377494
332	0.12882115	2.39517367	0.022595118	0.049469925	0.031603061	0.025153047	0.016110559	2.326284967	0.029948267	0.022829882
333	0.12357601	2.45427173	0.021677061	0.047456789	0.030327572	0.024114585	0.015478202	2.388194364	0.028711831	0.021887333
334	0.11833846	2.50223435	0.020760196	0.045446492	0.029053135	0.023078637	0.014845094	2.438963797	0.027478388	0.020947067
335	0.04458821	0.61650346	0.007818105	0.017121271	0.010923304	0.008725525	0.005544231	0.59265063	0.010388974	0.007919625
336	0.04575834	0.63523516	0.008023309	0.017570606	0.01121015	0.008954277	0.005690114	0.61075646	0.010661336	0.008127249

337	0.04691618	0.6544227	0.008226364	0.018015223	0.011494029	0.009180565	0.005834563	0.629324736	0.010930764	0.008332637
338	0.0480725	0.67419566	0.00842916	0.018459262	0.011777579	0.009406501	0.005978914	0.648479268	0.011199773	0.008537706
339	0.04829304	0.63392486	0.008467294	0.018543641	0.011828489	0.00945362	0.005999807	0.608088704	0.011255874	0.008580472
340	0.04970919	0.65405265	0.008715608	0.019087426	0.012175458	0.009730697	0.006175977	0.627458942	0.011585774	0.008831958
341	0.05111384	0.67471204	0.008961915	0.0196268	0.012519661	0.010005461	0.006350822	0.647366953	0.01191292	0.009081345
342	0.05252035	0.69608094	0.009208556	0.020166895	0.012864368	0.010280527	0.006526001	0.667983511	0.012240425	0.009331006
343	0.05241027	0.65199891	0.009188729	0.020124326	0.012834337	0.010262877	0.006505898	0.623958613	0.012219409	0.009314985
344	0.05414606	0.67375104	0.009493055	0.020790831	0.013259413	0.010602762	0.006721393	0.644782082	0.012624091	0.009623478
345	0.05585011	0.69587744	0.009791826	0.021445153	0.013676771	0.010936361	0.006933064	0.665996821	0.013021288	0.009926266
346	0.05771742	0.72042853	0.010119224	0.022162164	0.014134136	0.011301892	0.007165059	0.689548931	0.013456504	0.010258036
347	0.05695306	0.67051876	0.009984715	0.021868384	0.01394405	0.011155911	0.007064087	0.640046446	0.013282693	0.010125538
348	0.05927747	0.69579641	0.010392192	0.022760876	0.014512993	0.011611404	0.007352076	0.664080348	0.013825022	0.010538961
349	0.06145936	0.72042621	0.010774697	0.023598654	0.015047119	0.012038888	0.007622544	0.687542699	0.014334002	0.010926962
350	0.06363393	0.74578564	0.011155929	0.024433627	0.01557951	0.012464863	0.007892227	0.71173863	0.014841186	0.011313593
351	0.06214538	0.69123505	0.010894506	0.023861804	0.015212397	0.012176672	0.007702017	0.657982955	0.014498054	0.01105202
352	0.06497897	0.71832962	0.011391199	0.024949778	0.015905704	0.012732285	0.008052532	0.683561182	0.01515959	0.011556316
353	0.06765545	0.74470396	0.011860363	0.025977438	0.01656063	0.013257022	0.008383732	0.708503277	0.015784364	0.012032588
354	0.07032744	0.77182451	0.012328747	0.027003374	0.01721451	0.013780804	0.008714493	0.734194024	0.016408001	0.012507993
355	0.06797366	0.71352774	0.011915718	0.026099375	0.016636024	0.013322545	0.008417936	0.677155363	0.015862379	0.012092059
356	0.07125326	0.74110367	0.012490543	0.02735857	0.017438186	0.013965958	0.008823053	0.702976116	0.016628453	0.012676046
357	0.07464149	0.77004363	0.013084415	0.028659478	0.018266952	0.014630642	0.009241656	0.730102779	0.017419854	0.013279339
358	0.07799519	0.79940898	0.013672243	0.029947135	0.019087324	0.015288488	0.009656102	0.757673338	0.018203111	0.013876425
359	0.0745336	0.73784285	0.013065119	0.028617836	0.018238311	0.014612338	0.009223613	0.697958455	0.01739806	0.013262726
360	0.07856578	0.76741407	0.013771798	0.030165953	0.019224237	0.015403794	0.00972104	0.725371548	0.0183404	0.013981082
361	0.08264037	0.79759306	0.014485914	0.031730356	0.020220554	0.016203547	0.010223743	0.753369733	0.019292619	0.014706968
362	0.08686915	0.82938055	0.015227059	0.033353963	0.021254608	0.017033522	0.010745541	0.782893897	0.020280822	0.015460286
363	0.08182537	0.76397846	0.014342735	0.031417247	0.020019284	0.016046101	0.010119035	0.720190205	0.019105157	0.014564064
364	0.08697639	0.79694655	0.015245444	0.033394903	0.021278439	0.017057609	0.010753763	0.750401135	0.020309501	0.015482148
365	0.09224773	0.83058281	0.016169236	0.035418748	0.022566995	0.018092752	0.011403301	0.781215842	0.021541986	0.016421684
366	0.09769635	0.86550981	0.017124098	0.037510659	0.023898899	0.019162694	0.012074708	0.813226396	0.022815903	0.017392805
367	0.08971096	0.79113481	0.015724384	0.034444632	0.021945218	0.017596728	0.011087213	0.743124727	0.020951399	0.015971474
368	0.09604147	0.82666593	0.016833735	0.036875096	0.023492335	0.018840308	0.01186653	0.775267152	0.022432057	0.017100195
369	0.10274494	0.86371808	0.018008435	0.039448746	0.025130558	0.020157205	0.012691674	0.808730933	0.02400001	0.018295462
370	0.10985141	0.90264971	0.019253751	0.042177116	0.026867243	0.021553303	0.013566371	0.843858463	0.025662262	0.019562615
371	0.09822262	0.81998927	0.017215722	0.037712368	0.024024025	0.019270507	0.012132188	0.767422146	0.02294427	0.017490661
372	0.10618725	0.8595496	0.01861137	0.04077018	0.025970135	0.020835567	0.013111898	0.802718838	0.024807696	0.01891117
373	0.11489035	0.90150464	0.020136404	0.044111501	0.028096594	0.022545854	0.014182253	0.84001486	0.026844035	0.020463492
374	0.12416202	0.94504325	0.021761053	0.047671097	0.030361888	0.024367977	0.015322359	0.878590033	0.029013531	0.022117322
375	0.10724673	0.85054457	0.018796846	0.041176838	0.026227984	0.02104506	0.013240071	0.793146056	0.025057127	0.019101313
376	0.11708784	0.89428433	0.020521248	0.044955042	0.028632232	0.022979322	0.014449828	0.831617436	0.027360139	0.020856924
377	0.12801019	0.94069448	0.022435082	0.04914834	0.031300479	0.025126294	0.015792178	0.872180284	0.029916415	0.0228056
378	0.1402268	0.99050201	0.024575671	0.053838511	0.03428475	0.027527867	0.017293274	0.915447547	0.032775827	0.02498536
379	0.11652316	0.88235286	0.020422185	0.044738182	0.028493597	0.022869195	0.014378992	0.819987886	0.027229018	0.020756969

380	0.12874497	0.93182708	0.022563682	0.049430349	0.031479115	0.025271823	0.015880674	0.86291903	0.030089687	0.022937688
381	0.14248314	0.98409974	0.024970833	0.054704649	0.034834806	0.02797285	0.017568167	0.907836684	0.033305643	0.025389245
382	0.15842345	1.04137938	0.027763794	0.060824364	0.03872815	0.031107143	0.019525646	0.956582221	0.037037463	0.028234051
383	0.12567296	0.91472252	0.022025348	0.048250917	0.030728354	0.024668337	0.015502515	0.847458914	0.029371152	0.022389941
384	0.14022638	0.96924354	0.024575335	0.053838199	0.034283117	0.027529727	0.017290019	0.894188431	0.032778042	0.024987049
385	0.15726888	1.0286707	0.027561391	0.060381045	0.038445534	0.030880905	0.019382573	0.944491325	0.036768095	0.028028709
386	0.17763845	1.09474304	0.031130331	0.068201164	0.04342019	0.034886761	0.021882894	0.999657929	0.041537634	0.031664579
387	0.13436638	0.94737424	0.023548572	0.051588455	0.032851782	0.026377568	0.016570285	0.875456417	0.031406233	0.023941305
388	0.15135326	1.00745396	0.026524895	0.058109957	0.037000677	0.029717734	0.018656139	0.926441678	0.035383174	0.026972969
389	0.17172941	1.07395277	0.030094993	0.065932605	0.041976969	0.033724846	0.021157328	0.982031252	0.040154209	0.03060998
390	0.19686046	1.14948418	0.034498114	0.07558067	0.048114042	0.038667635	0.024241208	1.044107423	0.046039301	0.035096247
391	0.14232814	0.98020648	0.024943634	0.05464512	0.034796708	0.027942678	0.01754863	0.904026274	0.033269719	0.025361859
392	0.1616574	1.04597313	0.02833034	0.062065874	0.03951752	0.031743667	0.019921718	0.959444292	0.037795335	0.028811785
393	0.18540654	1.12013708	0.032491376	0.07118343	0.045317328	0.036414408	0.022836441	1.020892993	0.043356514	0.03305113
394	0.21522124	1.20521432	0.037715047	0.082629563	0.052597835	0.042278794	0.026494376	1.090007173	0.050338897	0.038373875
395	0.14913705	1.01229169	0.026136743	0.057259211	0.036460299	0.029280796	0.018385916	0.932466444	0.034862938	0.026576387
396	0.17072701	1.08435679	0.029919531	0.065547868	0.041733146	0.033526467	0.021036344	0.992972515	0.039918011	0.030429923
397	0.19753018	1.16602391	0.034615632	0.075837884	0.048278635	0.038798028	0.02432558	1.060289183	0.046194551	0.035214596
398	0.2317465	1.26086942	0.040610452	0.08897382	0.056633781	0.045528444	0.028523126	1.136814843	0.054208066	0.041323383
399	0.15473688	1.04405715	0.027118053	0.059409148	0.037828869	0.030380808	0.019075333	0.96123436	0.036172658	0.027574801
400	0.17836096	1.12271753	0.031257239	0.068478727	0.043598487	0.035026506	0.021975444	1.027246651	0.04170402	0.031791417
401	0.20776995	1.21164333	0.03640989	0.079769142	0.050780285	0.040810636	0.025584359	1.100426805	0.048590846	0.037041317
402	0.24587495	1.31622335	0.043086006	0.094397966	0.060084916	0.048306057	0.030258798	1.18460489	0.057515208	0.043844453
403	0.15909637	1.07582002	0.027882095	0.061082933	0.038894813	0.03123653	0.019613108	0.990663912	0.037191516	0.028351487
404	0.18444087	1.16126913	0.032322729	0.070813011	0.045084679	0.036220454	0.022724579	1.062543882	0.043125584	0.03287509
405	0.21604727	1.25762836	0.037860389	0.082947036	0.052803148	0.042436693	0.026603266	1.141981008	0.050526898	0.03851719
406	0.25731821	1.37156529	0.045091198	0.098791298	0.062880901	0.050554809	0.03166618	1.233820931	0.060192666	0.045885508
407	0.16211869	1.10742209	0.028411903	0.06224339	0.039634492	0.031828902	0.019987376	1.020648747	0.03789682	0.028889148
408	0.18880379	1.19986203	0.033087456	0.072488159	0.046151951	0.037076226	0.023263801	1.098801902	0.044144502	0.033651822
409	0.22218831	1.30412207	0.038936687	0.085304844	0.054304828	0.043641954	0.027361072	1.185187929	0.051961932	0.039611132
410	0.26606321	1.42789581	0.046623751	0.102148807	0.06501862	0.052272036	0.032743826	1.285470593	0.062237267	0.047444129
411	0.16375755	1.13871049	0.028699367	0.062872751	0.040036604	0.032148824	0.020192457	1.051060776	0.038277731	0.029179521
412	0.19138539	1.23852372	0.03354015	0.073479478	0.046784609	0.03758115	0.023585252	1.136082674	0.044745686	0.034110111
413	0.22615784	1.35162216	0.039632612	0.086829035	0.055276757	0.044419431	0.027853541	1.230564192	0.052887628	0.0403168
414	0.27197748	1.48580871	0.047660464	0.104419636	0.066465789	0.053431587	0.033475626	1.340218623	0.063617877	0.048496583
415	0.16398596	1.16931419	0.028739757	0.062960653	0.040094538	0.032191014	0.020224996	1.081543414	0.038327965	0.029217814
416	0.19225245	1.27758719	0.033692516	0.073812611	0.046998973	0.037748352	0.023697146	1.174683412	0.044944763	0.03426187
417	0.22790975	1.40040925	0.039940097	0.087501921	0.055707713	0.04476002	0.028075082	1.278415094	0.053293147	0.040625931
418	0.27474817	1.54517688	0.048146539	0.105483695	0.067146076	0.053971863	0.033823317	1.398105449	0.064261152	0.048986958
419	0.1628067	1.19858153	0.028533549	0.062508155	0.039808922	0.031956076	0.020085233	1.111443481	0.038048238	0.029004576
420	0.1913685	1.31655229	0.033538156	0.073473546	0.046786106	0.037570691	0.023594949	1.214123496	0.044733232	0.034100617
421	0.22726681	1.44981575	0.039828085	0.087255453	0.055554403	0.044628873	0.028003924	1.328167924	0.053136999	0.040506898
422	0.27460758	1.60753358	0.048122683	0.105430165	0.067116264	0.053938473	0.033815528	1.460540002	0.064221397	0.048956652

423	0.1602253	1.22525474	0.028081697	0.061517373	0.039181016	0.031445218	0.019773654	1.139500196	0.037439989	0.028540901
424	0.18858407	1.35355996	0.033050867	0.072404896	0.046109408	0.037018899	0.023260106	1.252623813	0.044076246	0.03359979
425	0.22437841	1.49988672	0.039322744	0.086146979	0.054853276	0.044055408	0.027658338	1.37978778	0.052454208	0.039986399
426	0.27180048	1.67434769	0.047631791	0.104353021	0.066436179	0.05337949	0.033482406	1.528860142	0.063555849	0.048449298
427	0.15625767	1.24728619	0.027386962	0.059994399	0.038214554	0.030661758	0.019291897	1.163657324	0.036507169	0.027829802
428	0.18399077	1.38683956	0.032246674	0.070641814	0.044991101	0.036111182	0.02270355	1.288364621	0.04299548	0.03277591
429	0.21916617	1.548476	0.038410322	0.084146403	0.05358506	0.043024389	0.02702842	1.431170342	0.051226633	0.039050605
430	0.26602019	1.74389526	0.046620121	0.102134522	0.065030874	0.052234673	0.032786197	1.601506062	0.062192782	0.047410217
431	0.15096609	1.26189908	0.026460221	0.057963124	0.036924533	0.029618217	0.018647157	1.181104593	0.035264685	0.026882644
432	0.17765522	1.41305669	0.031137204	0.068209851	0.0434472	0.034860964	0.021932924	1.317975686	0.041506919	0.031641164
433	0.21164162	1.59178318	0.037092787	0.081258117	0.051752289	0.041538429	0.026115004	1.478508897	0.049457387	0.037701891
434	0.25714173	1.8126067	0.045065738	0.098726666	0.062869598	0.050479732	0.031711083	1.67497498	0.060103276	0.045817364
435	0.14460466	1.26700964	0.025345957	0.055521076	0.035372798	0.028364831	0.017870185	1.189622082	0.033772352	0.025745022
436	0.16981544	1.42850471	0.029764107	0.065200356	0.041535513	0.033315465	0.02097677	1.337622745	0.039666784	0.03023841
437	0.20196447	1.62406626	0.035398047	0.077543395	0.049393521	0.039629511	0.024936753	1.515975674	0.04718455	0.035969283
438	0.24529435	1.87397485	0.0429912	0.09417902	0.059983416	0.048140716	0.030271885	1.742690232	0.057318346	0.043694383
439	0.13724742	1.25876512	0.024057091	0.052696652	0.033577136	0.026916536	0.016969454	1.185317219	0.032047951	0.024430493
440	0.16060513	1.42747868	0.02815073	0.061664611	0.039288248	0.031501539	0.019850572	1.341529043	0.037507047	0.02859202
441	0.19027554	1.63625937	0.033350656	0.073056228	0.046542458	0.037326199	0.023509514	1.534429024	0.04444213	0.033878707
442	0.23035984	1.913179	0.040375617	0.088446103	0.05634242	0.0451957	0.028451917	1.789893829	0.053811887	0.041021372
443	0.12913628	1.23525505	0.022635979	0.049582711	0.031596436	0.025321154	0.015974251	1.166149911	0.030148422	0.022982462
444	0.15027501	1.40505187	0.026340934	0.057698836	0.036766225	0.029469018	0.018584243	1.324633362	0.035087042	0.026747224
445	0.17700466	1.61986194	0.031025803	0.067961569	0.043303363	0.034713927	0.02188456	1.525137825	0.04133185	0.031507708
446	0.21269279	1.91140891	0.037280871	0.081663904	0.052031772	0.041716241	0.026291696	1.797584841	0.049669098	0.03786328
447	0.12068964	1.19851801	0.021155933	0.046339881	0.029532926	0.023660902	0.014936037	1.133934758	0.028171657	0.021475553
448	0.13935478	1.36156045	0.024427508	0.053506373	0.034098706	0.027322196	0.017242592	1.286988228	0.032530947	0.024798686
449	0.16292496	1.5727155	0.028558889	0.062556194	0.039864712	0.031945164	0.020156084	1.4855295	0.038035246	0.028994671
450	0.19364183	1.85995046	0.033943091	0.074350088	0.047379891	0.037968757	0.02395479	1.756326562	0.045207186	0.034461918
451	0.0114303	0.3805425	0.002006941	0.004390651	0.002816235	0.002216468	0.001454815	0.37443691	0.00263902	0.002011753
452	0.01146992	0.3883412	0.002013978	0.004405915	0.002826464	0.002223559	0.001460834	0.382214714	0.002647462	0.002018188
453	0.01153803	0.39371374	0.002025975	0.0044321	0.002843468	0.002236482	0.001469971	0.387551002	0.002662849	0.002029918
454	0.01155557	0.39630937	0.00202908	0.004438854	0.002847936	0.002239701	0.001472507	0.390137345	0.002666681	0.002032839
455	0.01393994	0.44515791	0.002447352	0.005354531	0.003433206	0.002704849	0.001771381	0.437710996	0.003220506	0.002455026
456	0.01404396	0.45583291	0.002465705	0.005394538	0.003459354	0.00272436	0.001785707	0.448330732	0.003243737	0.002472735
457	0.01414425	0.46288946	0.002483361	0.00543309	0.003484333	0.002743469	0.001799033	0.455333864	0.003266488	0.002490079
458	0.01405719	0.46509479	0.002468138	0.005399684	0.00346325	0.00272612	0.001788721	0.4575859	0.003245832	0.002474332
459	0.01765605	0.53033109	0.003099355	0.006781708	0.004346021	0.003428971	0.002238547	0.520897597	0.004082676	0.003112267
460	0.01773729	0.54527129	0.003113769	0.006812998	0.004366916	0.003443604	0.00225073	0.535794912	0.004100099	0.003125549
461	0.01767269	0.55407274	0.003102562	0.006788263	0.004351789	0.003430077	0.00224416	0.544631315	0.004083993	0.003113271
462	0.02014264	0.29830416	0.00353206	0.007734644	0.004936009	0.00393993	0.002507581	0.287529504	0.004691045	0.003576034
463	0.0248548	0.3456104	0.004358069	0.009543921	0.006089116	0.004863689	0.003090814	0.3323142	0.005790911	0.004414473
464	0.02037713	0.29908131	0.003573144	0.007824666	0.004993277	0.003986043	0.002536366	0.288181111	0.004745949	0.003617887
465	0.0257372	0.35115621	0.004512707	0.009882704	0.006304809	0.005036976	0.003199531	0.337387692	0.005997233	0.004571755

466	0.03351376	0.41844077	0.005875754	0.012868516	0.00820703	0.00656246	0.004160427	0.400510463	0.007813539	0.005956344
467	0.04534598	0.50757061	0.007949497	0.017411403	0.011100348	0.008884731	0.005620456	0.483307491	0.010578531	0.008064127
468	0.01973498	0.29353532	0.003460592	0.007578114	0.004836202	0.003860075	0.002457022	0.28297878	0.004595967	0.003503554
469	0.02521632	0.34833893	0.00442143	0.009682724	0.006177519	0.004934643	0.003135425	0.334849243	0.005875392	0.004478874
470	0.03349866	0.42222132	0.005873156	0.012862747	0.008203618	0.006559141	0.004159152	0.404299245	0.007809587	0.005953331
471	0.04707367	0.52727408	0.008252379	0.018074785	0.0115233	0.009223208	0.005834652	0.502086549	0.010981536	0.008371342
472	0.02365107	0.33702991	0.004147108	0.009081765	0.005794806	0.004627394	0.002942355	0.324377985	0.005509568	0.004200002
473	0.03155261	0.41282239	0.005532151	0.012115611	0.00772813	0.006176714	0.003919812	0.395942094	0.007354254	0.005606226
474	0.04452144	0.52327194	0.007805257	0.017094983	0.010900302	0.008720898	0.005522016	0.499451034	0.010383465	0.007915426
475	0.02142713	0.317515	0.0037573	0.00822788	0.005250789	0.00419116	0.002667517	0.306053257	0.00499017	0.00380406
476	0.02828702	0.3879276	0.004959813	0.010861813	0.006929579	0.005535815	0.003516813	0.372795096	0.006591173	0.005024521
477	0.03945957	0.49316574	0.006918201	0.015151575	0.009663107	0.007726688	0.004898619	0.472054366	0.009199717	0.007013042

Mitigated Residential Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.00012813	0.000378494	3.73791E-05	4.19345E-05	2.68536E-05	2.1963E-05	8.62388E-06	0.000341576	3.15981E-06	2.51348E-05
0.000134083	0.000404443	3.91172E-05	4.38829E-05	2.81061E-05	2.29765E-05	9.03123E-06	0.000365812	3.30561E-06	2.62946E-05
0.000139298	0.000431136	4.06409E-05	4.55903E-05	2.9206E-05	2.38612E-05	9.39134E-06	0.000391005	3.4329E-06	2.73071E-05
0.000143499	0.000457762	4.18688E-05	4.69655E-05	3.00949E-05	2.45695E-05	9.68544E-06	0.000416424	3.53479E-06	2.81177E-05
0.000147582	0.000486788	4.30631E-05	4.83024E-05	3.09608E-05	2.52554E-05	9.97387E-06	0.000444278	3.63348E-06	2.89027E-05
0.000151644	0.000518016	4.42518E-05	4.96326E-05	3.18238E-05	2.59359E-05	1.02627E-05	0.000474341	3.73138E-06	2.96814E-05
0.000155938	0.000551379	4.55083E-05	5.10388E-05	3.27362E-05	2.6655E-05	1.05683E-05	0.000506471	3.83483E-06	3.05043E-05
0.000160484	0.000585446	4.68383E-05	5.25273E-05	3.37013E-05	2.74172E-05	1.08908E-05	0.000539234	3.94449E-06	3.13766E-05
0.000166659	0.000623824	4.86435E-05	5.45491E-05	3.50077E-05	2.84592E-05	1.13226E-05	0.000575838	4.0944E-06	3.25691E-05
0.000172718	0.000659073	5.04142E-05	5.65326E-05	3.62879E-05	2.94834E-05	1.17444E-05	0.000609346	4.24175E-06	3.37412E-05
0.000180292	0.000698777	5.26269E-05	5.9012E-05	3.78856E-05	3.07674E-05	1.2268E-05	0.000646872	4.42648E-06	3.52106E-05
0.000186697	0.000733286	5.44984E-05	6.11089E-05	3.92374E-05	3.18525E-05	1.27116E-05	0.000679539	4.58259E-06	3.64524E-05
0.000192371	0.000765976	5.61567E-05	6.29665E-05	4.04362E-05	3.2812E-05	1.31063E-05	0.000710598	4.72064E-06	3.75505E-05
0.000196222	0.000790948	5.72827E-05	6.42274E-05	4.12515E-05	3.34609E-05	1.33764E-05	0.000734465	4.814E-06	3.82931E-05
0.000194726	0.000795177	5.68478E-05	6.3738E-05	4.09431E-05	3.31973E-05	1.32827E-05	0.000739127	4.77608E-06	3.79915E-05
0.000190053	0.000780085	5.54843E-05	6.22086E-05	3.99629E-05	3.23974E-05	1.29671E-05	0.000725381	4.66098E-06	3.7076E-05
0.0001431	0.000398779	4.17417E-05	4.68328E-05	2.99765E-05	2.45487E-05	9.61221E-06	0.000357541	3.5318E-06	2.80939E-05
0.000151627	0.000429113	4.42302E-05	4.96237E-05	3.17666E-05	2.60061E-05	1.01902E-05	0.00038542	3.74147E-06	2.97617E-05
0.000159729	0.000461508	4.65954E-05	5.22756E-05	3.34698E-05	2.73879E-05	1.07424E-05	0.000415482	3.94028E-06	3.13431E-05
0.000167176	0.00049594	4.87701E-05	5.47133E-05	3.5038E-05	2.86541E-05	1.12535E-05	0.000447772	4.12245E-06	3.27922E-05
0.000173397	0.000530986	5.05883E-05	5.67501E-05	3.63519E-05	2.97069E-05	1.16857E-05	0.000481029	4.27391E-06	3.3997E-05
0.000179417	0.000569343	5.23483E-05	5.87212E-05	3.7626E-05	3.07219E-05	1.21074E-05	0.000517657	4.41994E-06	3.51586E-05
0.000235121	0.000895271	6.86286E-05	7.69578E-05	4.93976E-05	4.01374E-05	1.59861E-05	0.000827576	5.77453E-06	4.59338E-05
0.000240593	0.000932035	7.02287E-05	7.87494E-05	5.05567E-05	4.10584E-05	1.63709E-05	0.000862769	5.90703E-06	4.69878E-05
0.000238817	0.000951048	6.9715E-05	7.81689E-05	5.0199E-05	4.07339E-05	1.62708E-05	0.000882301	5.86035E-06	4.66164E-05
0.000232909	0.000936508	6.79922E-05	7.62356E-05	4.89627E-05	3.97189E-05	1.58755E-05	0.000869463	5.71433E-06	4.54549E-05
0.000224447	0.000913151	6.55236E-05	7.3466E-05	4.71901E-05	3.82669E-05	1.53072E-05	0.000848545	5.50543E-06	4.37932E-05
0.000157796	0.000414684	4.60239E-05	5.16415E-05	3.30399E-05	2.70904E-05	1.05793E-05	0.000369205	3.89748E-06	3.10027E-05
0.00018334	0.00049233	5.34762E-05	6.00016E-05	3.83948E-05	3.14672E-05	1.23003E-05	0.000439491	4.52715E-06	3.60115E-05
0.000194701	0.000533318	5.6792E-05	6.37203E-05	4.07804E-05	3.34085E-05	1.30709E-05	0.000477207	4.80646E-06	3.82332E-05
0.000206308	0.000580338	6.01805E-05	6.75195E-05	4.32206E-05	3.53876E-05	1.38624E-05	0.000520886	5.09119E-06	4.04981E-05
0.000217828	0.000633276	6.35446E-05	7.12904E-05	4.56464E-05	3.73467E-05	1.46529E-05	0.00057051	5.37304E-06	4.27401E-05
0.000226788	0.000684883	6.61632E-05	7.42238E-05	4.75393E-05	3.88619E-05	1.52761E-05	0.000619542	5.59103E-06	4.44741E-05
0.000234179	0.00073556	6.83246E-05	7.66437E-05	4.91057E-05	4.0105E-05	1.57967E-05	0.000668096	5.76988E-06	4.58967E-05
0.000245679	0.000800157	7.16851E-05	8.04085E-05	5.15342E-05	4.2051E-05	1.65953E-05	0.000729388	6.04984E-06	4.81238E-05

0.000257389	0.000863257	7.51065E-05	8.42419E-05	5.40055E-05	4.40347E-05	1.74063E-05	0.000789122	6.33524E-06	5.0394E-05
0.000285839	0.001006042	8.34171E-05	9.35552E-05	6.00035E-05	4.88631E-05	1.93683E-05	0.000923724	7.0299E-06	5.59196E-05
0.000295865	0.001066511	8.63477E-05	9.68377E-05	6.21233E-05	5.05563E-05	2.00679E-05	0.000981313	7.27349E-06	5.78573E-05
0.000303282	0.001119022	8.85171E-05	9.92663E-05	6.36962E-05	5.18025E-05	2.05916E-05	0.001031694	7.45278E-06	5.92835E-05
0.000292968	0.00114471	8.55186E-05	9.58927E-05	6.15683E-05	4.99883E-05	1.99425E-05	0.001060368	7.19178E-06	5.72073E-05
0.00028187	0.001124639	8.22833E-05	9.22609E-05	5.925E-05	4.80755E-05	1.92057E-05	0.001043499	6.91658E-06	5.50182E-05
0.000267053	0.00108602	7.79617E-05	8.74118E-05	5.61478E-05	4.55314E-05	1.82126E-05	0.00100915	6.55057E-06	5.21068E-05
0.000173885	0.000431736	5.07119E-05	5.69061E-05	3.63936E-05	2.98734E-05	1.16377E-05	0.000381613	4.29786E-06	3.41875E-05
0.000191065	0.000474196	5.57223E-05	6.25285E-05	3.99892E-05	3.28251E-05	1.27874E-05	0.000419121	4.72252E-06	3.75655E-05
0.000209683	0.000522431	6.11523E-05	6.86214E-05	4.3887E-05	3.60219E-05	1.4035E-05	0.00046199	5.18244E-06	4.1224E-05
0.000246685	0.000631686	7.1947E-05	8.07317E-05	5.1642E-05	4.23647E-05	1.65255E-05	0.000560583	6.09497E-06	4.84827E-05
0.000264649	0.000695459	7.71896E-05	8.66113E-05	5.54134E-05	4.54351E-05	1.77431E-05	0.000619183	6.53671E-06	5.19966E-05
0.000279568	0.000760337	8.15457E-05	9.14948E-05	5.85526E-05	4.79753E-05	1.8764E-05	0.000679767	6.90216E-06	5.49036E-05
0.000293193	0.000829909	8.55259E-05	9.59549E-05	6.14257E-05	5.02866E-05	1.97045E-05	0.000745421	7.23469E-06	5.75486E-05
0.000311078	0.000917203	9.07497E-05	0.000101809	6.51947E-05	5.33238E-05	2.09359E-05	0.000827571	7.67166E-06	6.10246E-05
0.000328486	0.001003995	9.58346E-05	0.000107508	6.88644E-05	5.62787E-05	2.21359E-05	0.000909356	8.09676E-06	6.44061E-05
0.000370609	0.001206078	0.000108138	0.000121297	7.77394E-05	6.34352E-05	2.50334E-05	0.001099322	9.12638E-06	7.25962E-05
0.000385445	0.001296308	0.000112474	0.000126154	8.08765E-05	6.594E-05	2.60691E-05	0.00118529	9.48673E-06	7.54627E-05
0.000395974	0.001376846	0.000115555	0.000129602	8.31129E-05	6.77041E-05	2.68175E-05	0.001262807	9.74053E-06	7.74815E-05
0.000400779	0.001432938	0.000116964	0.000131176	8.41452E-05	6.84933E-05	2.71745E-05	0.001317524	9.85407E-06	7.83847E-05
0.000401224	0.001463223	0.0001171	0.000131323	8.42558E-05	6.85457E-05	2.72277E-05	0.001347689	9.86161E-06	7.84446E-05
0.000364205	0.001408543	0.00010631	0.000119209	7.65302E-05	6.21551E-05	2.478E-05	0.001303689	8.94221E-06	7.11312E-05
0.000342592	0.001363452	0.000100009	0.000112136	7.20119E-05	5.8435E-05	2.33404E-05	0.00126483	8.407E-06	6.68739E-05
0.000318691	0.00131068	9.30393E-05	0.000104315	6.70135E-05	5.43234E-05	2.1746E-05	0.00121895	7.81547E-06	6.21685E-05
0.000187772	0.000443419	5.47577E-05	6.14499E-05	3.92864E-05	3.22779E-05	1.25488E-05	0.000389288	4.6438E-06	3.69393E-05
0.000210455	0.000491777	6.13715E-05	6.8873E-05	4.40291E-05	3.61814E-05	1.40606E-05	0.000431104	5.2054E-06	4.14066E-05
0.000235651	0.000546473	6.87182E-05	7.71184E-05	4.92978E-05	4.05166E-05	1.57406E-05	0.000478536	5.82909E-06	4.63677E-05
0.000264011	0.000610276	7.69879E-05	8.63994E-05	5.52295E-05	4.53942E-05	1.76333E-05	0.000534162	6.53083E-06	5.19498E-05
0.000293825	0.000681562	8.56824E-05	9.61563E-05	6.14678E-05	5.05185E-05	1.96265E-05	0.000596853	7.26806E-06	5.78141E-05
0.000377503	0.000939282	0.000110096	0.000123543	7.90115E-05	6.48533E-05	2.5267E-05	0.000830466	9.3304E-06	7.42191E-05
0.000407539	0.001056525	0.000118863	0.000133374	8.53236E-05	6.99784E-05	2.73115E-05	0.000939062	1.00677E-05	8.00843E-05
0.000435966	0.001178308	0.000127163	0.000142679	9.13039E-05	7.48198E-05	2.9255E-05	0.001052664	1.07643E-05	8.56249E-05
0.000503342	0.001477014	0.000146837	0.000164733	0.000105485	8.62869E-05	3.38698E-05	0.001331983	1.2414E-05	9.87479E-05
0.000527364	0.001624589	0.000153859	0.000172598	0.000110565	9.03415E-05	3.55481E-05	0.001472656	1.29974E-05	0.000103388
0.000541738	0.001752231	0.000158068	0.000177305	0.000113629	9.27352E-05	3.65839E-05	0.001596178	1.33417E-05	0.000106128
0.00054491	0.001845534	0.000159009	0.000178347	0.000114344	9.321E-05	3.68648E-05	0.001688589	1.341E-05	0.000106671
0.000538422	0.001889007	0.000157128	0.000176226	0.000113022	9.20462E-05	3.64784E-05	0.001733947	1.32426E-05	0.000105339
0.000198155	0.000450107	5.77823E-05	6.48473E-05	4.14481E-05	3.40775E-05	1.32284E-05	0.000392977	4.9027E-06	3.89987E-05
0.000225491	0.000501637	6.57514E-05	7.37926E-05	4.71594E-05	3.87871E-05	1.50448E-05	0.000436623	5.58027E-06	4.43885E-05
0.000258594	0.000563627	7.54021E-05	8.46255E-05	5.40758E-05	4.4491E-05	1.72442E-05	0.000489066	6.40088E-06	5.09161E-05
0.00029882	0.000639132	8.71289E-05	9.77889E-05	6.24802E-05	5.14218E-05	1.99168E-05	0.000552969	7.39801E-06	5.88478E-05
0.000345823	0.000728609	0.000100832	0.00011317	7.23015E-05	5.95194E-05	2.30408E-05	0.00062889	8.56301E-06	6.81148E-05
0.000394733	0.000825422	0.000115091	0.000129176	8.25233E-05	6.79422E-05	2.62944E-05	0.000711599	9.77479E-06	7.7754E-05

0.000448618	0.000940579	0.000130803	0.00014681	9.37902E-05	7.72151E-05	2.98859E-05	0.000811218	1.11089E-05	8.83661E-05
0.000610681	0.001397938	0.000178078	0.000199849	0.000127743	0.000105012	4.07765E-05	0.001221876	1.5108E-05	0.000120178
0.000730084	0.001854461	0.00021293	0.000238931	0.000152829	0.000125394	4.88963E-05	0.001644022	1.80403E-05	0.000143503
0.000769652	0.002102859	0.000224497	0.000251886	0.000161201	0.000132068	5.16649E-05	0.001881053	1.90005E-05	0.000151141
0.00078126	0.002342891	0.000227922	0.000255692	0.000163758	0.000133888	5.26113E-05	0.002117793	1.92624E-05	0.000153224
0.000778771	0.002523143	0.00022723	0.000254884	0.000163349	0.000133307	5.25943E-05	0.002298811	1.91788E-05	0.000152559
0.000750254	0.002591094	0.000218939	0.000245557	0.000157464	0.000128294	5.07971E-05	0.002375018	1.84576E-05	0.000146821
0.000199784	0.000442984	5.82552E-05	6.53799E-05	4.17822E-05	3.43665E-05	1.33285E-05	0.000385382	4.94428E-06	3.93295E-05
0.000235032	0.000505525	6.85303E-05	7.69143E-05	4.91444E-05	4.04426E-05	1.56675E-05	0.000437756	5.81844E-06	4.62831E-05
0.000277999	0.000578621	8.1055E-05	9.09746E-05	5.81171E-05	4.7852E-05	1.85162E-05	0.000498458	6.88442E-06	5.47625E-05
0.000330031	0.000663672	9.62215E-05	0.000108001	6.89807E-05	5.68274E-05	2.19632E-05	0.000568499	8.17571E-06	6.50341E-05
0.000393972	0.000765067	0.000114859	0.000128925	8.2329E-05	6.78598E-05	2.61966E-05	0.000651448	9.76293E-06	7.76597E-05
0.000473284	0.000888883	0.000137976	0.000154878	9.88847E-05	8.15456E-05	3.14461E-05	0.000752384	1.17319E-05	9.3322E-05
0.000567962	0.001037311	0.000165572	0.000185859	0.000118648	9.78826E-05	3.77131E-05	0.000873497	1.40823E-05	0.000112018
0.000674943	0.00121201	0.000196755	0.000220867	0.000140984	0.000116337	4.48002E-05	0.001017335	1.67373E-05	0.000133137
0.000794137	0.001425084	0.000231501	0.000259872	0.000165882	0.000136882	5.2711E-05	0.001196029	1.96932E-05	0.00015665
0.001181838	0.003824278	0.000344837	0.000386804	0.00024789	0.000202307	7.98117E-05	0.003483838	2.91057E-05	0.000231523
0.001085472	0.003973822	0.000316804	0.000355281	0.000227955	0.000185431	7.36741E-05	0.00366126	2.66778E-05	0.00021221
0.000204574	0.000448057	5.96509E-05	6.69472E-05	4.27806E-05	3.5195E-05	1.36436E-05	0.000389073	5.06347E-06	4.02776E-05
0.000239656	0.000506515	6.98769E-05	7.84272E-05	5.01059E-05	4.12456E-05	1.59685E-05	0.00043741	5.93398E-06	4.72021E-05
0.000285212	0.000578768	8.31555E-05	9.33347E-05	5.96162E-05	4.91059E-05	1.89848E-05	0.000496521	7.06482E-06	5.61974E-05
0.000543485	0.000941439	0.000158427	0.000177847	0.000113504	9.37063E-05	3.60468E-05	0.000784672	1.34815E-05	0.000107239
0.000691949	0.0011259	0.000201691	0.000226428	0.000144467	0.000119364	4.58353E-05	0.00092629	1.71728E-05	0.000136602
0.000895837	0.001366536	0.000261104	0.000293143	0.00018698	0.000154611	5.9268E-05	0.001108086	2.22437E-05	0.000176939
0.001180819	0.001692496	0.000344145	0.000386393	0.000246396	0.000203884	7.80349E-05	0.0013518	2.93327E-05	0.000233328
0.000199849	0.000438024	5.82733E-05	6.54011E-05	4.17928E-05	3.43819E-05	1.33287E-05	0.000380401	4.9465E-06	3.93471E-05
0.000236954	0.000499565	6.90889E-05	7.7543E-05	4.95403E-05	4.07817E-05	1.57875E-05	0.000431239	5.86723E-06	4.66711E-05
0.000286518	0.000577324	8.35353E-05	9.37617E-05	5.98866E-05	4.9334E-05	1.90684E-05	0.0004947	7.09764E-06	5.64585E-05
0.001112483	0.001515078	0.000324214	0.000364029	0.000232089	0.000192151	7.34551E-05	0.001194078	2.76446E-05	0.0002199
0.001694897	0.002009279	0.000493893	0.000554597	0.000353414	0.000292993	0.000111671	0.00152015	4.21527E-05	0.000335305
0.000190822	0.000422838	5.5642E-05	6.24471E-05	3.99078E-05	3.28251E-05	1.27304E-05	0.00036782	4.72252E-06	3.75655E-05
0.000227448	0.000484427	6.63183E-05	7.44325E-05	4.75559E-05	3.91417E-05	1.51581E-05	0.000418843	5.63128E-06	4.47943E-05
0.000275702	0.000560791	8.0383E-05	9.02225E-05	5.76291E-05	4.74674E-05	1.83528E-05	0.000481286	6.8291E-06	5.43223E-05
0.001229643	0.001621582	0.000358349	0.000402365	0.000256499	0.000212431	8.11484E-05	0.001266763	3.05622E-05	0.000243109
0.002081495	0.002286064	0.000606515	0.000681091	0.000433917	0.000359973	0.000136997	0.00168532	5.1789E-05	0.000411958
0.000179907	0.000405943	5.24607E-05	5.88755E-05	3.76295E-05	3.09415E-05	1.20081E-05	0.000354073	4.45154E-06	3.54099E-05
0.000213343	0.000463244	6.22073E-05	6.9817E-05	4.46121E-05	3.67071E-05	1.42252E-05	0.00040173	5.28101E-06	4.20081E-05
0.000258641	0.000536945	7.54107E-05	8.46397E-05	5.40694E-05	4.4521E-05	1.72258E-05	0.000462364	6.40521E-06	5.09505E-05
0.000320738	0.000631605	9.35096E-05	0.00010496	6.70303E-05	5.52382E-05	2.1334E-05	0.000539108	7.94708E-06	6.32154E-05
0.001193729	0.001640138	0.000347895	0.000390615	0.000249047	0.000206172	7.88312E-05	0.001295699	2.96618E-05	0.000235946
0.002115461	0.002441176	0.000616433	0.00069221	0.000441068	0.00036575	0.000139327	0.00183066	5.26201E-05	0.000418569
0.000167754	0.000386929	4.89185E-05	5.48987E-05	3.50927E-05	2.88445E-05	1.12037E-05	0.000338566	4.14984E-06	3.30101E-05
0.000197985	0.000440339	5.77309E-05	6.47912E-05	4.14068E-05	3.40559E-05	1.32095E-05	0.000383256	4.89959E-06	3.8974E-05

0.000238655	0.000508737	6.95861E-05	7.81E-05	4.98994E-05	4.10699E-05	1.59054E-05	0.000439922	5.9087E-06	4.7001E-05
0.000293191	0.000594572	8.54818E-05	9.59458E-05	6.12838E-05	5.048E-05	1.95156E-05	0.000510024	7.26252E-06	5.777E-05
0.001037086	0.001531708	0.000302263	0.000339362	0.000216431	0.00017903	6.85726E-05	0.001232494	2.57569E-05	0.000204884
0.001788482	0.002337728	0.000521204	0.000585227	0.000373059	0.000308992	0.000118011	0.001821648	4.44544E-05	0.000353614
0.000156213	0.000368808	4.55545E-05	5.11221E-05	3.26835E-05	2.6853E-05	1.04397E-05	0.000323774	3.86333E-06	3.0731E-05
0.000182878	0.000417374	5.3328E-05	5.9848E-05	3.82538E-05	3.14487E-05	1.22102E-05	0.000364649	4.52449E-06	3.59903E-05
0.000218169	0.000478647	6.36152E-05	7.13963E-05	4.56241E-05	3.75332E-05	1.45509E-05	0.000415743	5.39988E-06	4.29536E-05
0.000266263	0.000557805	7.76339E-05	8.71342E-05	5.56659E-05	4.58289E-05	1.77374E-05	0.000481027	6.59337E-06	5.24472E-05
0.000332928	0.00066048	9.70646E-05	0.000108949	6.95809E-05	5.73337E-05	2.21488E-05	0.000564469	8.24856E-06	6.56135E-05
0.000431928	0.00080401	0.000125918	0.000141344	9.02397E-05	7.4426E-05	2.86925E-05	0.000679436	1.07076E-05	8.51742E-05
0.000586105	0.001013384	0.00017085	0.000191794	0.000122404	0.000101056	3.8872E-05	0.000844323	1.45389E-05	0.00011565
0.000847996	0.001351099	0.00024717	0.00027749	0.000177029	0.000146306	5.6149E-05	0.001106466	2.1049E-05	0.000167435
0.001333656	0.001957789	0.000388697	0.000436407	0.000278316	0.000230236	8.81723E-05	0.001573008	3.31238E-05	0.000263485
0.002394571	0.003370755	0.000697877	0.000783561	0.000499627	0.000413506	0.000158197	0.002679845	5.94908E-05	0.000473222
0.000145229	0.000351385	4.23531E-05	4.75278E-05	3.03905E-05	2.49579E-05	9.71247E-06	0.00030952	3.59068E-06	2.85622E-05
0.000169202	0.000396851	4.93419E-05	5.53728E-05	3.53995E-05	2.9088E-05	1.13056E-05	0.000348072	4.18487E-06	3.32888E-05
0.000199414	0.000450996	5.8149E-05	6.52592E-05	4.17102E-05	3.42956E-05	1.33109E-05	0.000393503	4.93408E-06	3.92483E-05
0.000239978	0.000520341	6.99734E-05	7.85332E-05	5.01813E-05	4.12903E-05	1.60006E-05	0.000451146	5.94041E-06	4.72532E-05
0.000296617	0.000612936	8.64826E-05	9.70671E-05	6.20066E-05	5.10603E-05	1.97527E-05	0.000527403	7.34601E-06	5.84342E-05
0.000377006	0.000737893	0.000109914	0.000123373	7.8787E-05	6.49327E-05	2.50731E-05	0.000629168	9.34182E-06	7.43099E-05
0.000493424	0.00090938	0.000143844	0.000161468	0.000103082	8.50299E-05	3.27703E-05	0.000767067	1.22332E-05	9.73094E-05
0.000672373	0.001166445	0.000195998	0.000220024	0.000140423	0.000115928	4.45967E-05	0.000972501	1.66784E-05	0.000132669
0.000941856	0.001567267	0.000274541	0.000308206	0.000196664	0.000162445	6.24173E-05	0.001295574	2.33709E-05	0.000185905
0.0013701	0.002254341	0.000399364	0.000448341	0.000286067	0.000236327	9.07768E-05	0.001859108	3.40002E-05	0.000270456
0.000134906	0.000334894	3.93441E-05	4.41497E-05	2.82354E-05	2.31769E-05	9.02889E-06	0.000296006	3.33444E-06	2.65239E-05
0.000155467	0.000375004	4.53383E-05	5.08781E-05	3.25321E-05	2.67182E-05	1.03962E-05	0.000330187	3.84392E-06	3.05767E-05
0.00018183	0.000424397	5.3024E-05	5.95052E-05	3.80402E-05	3.12606E-05	1.21477E-05	0.000371977	4.49744E-06	3.57751E-05
0.00021691	0.000487976	6.32503E-05	7.09846E-05	4.53681E-05	3.73066E-05	1.44767E-05	0.000425438	5.36728E-06	4.26943E-05
0.000262195	0.000565743	7.6451E-05	8.58037E-05	5.48254E-05	4.51152E-05	1.74797E-05	0.000490142	6.4907E-06	5.16305E-05
0.000324066	0.000668793	9.44855E-05	0.00010605	6.77442E-05	5.57862E-05	2.15799E-05	0.000575344	8.02591E-06	6.38425E-05
0.000401539	0.000802338	0.000117069	0.000131402	8.39238E-05	6.91445E-05	2.67179E-05	0.000686542	9.94776E-06	7.91299E-05
0.00051892	0.000991017	0.000151283	0.000169812	0.000108429	8.93951E-05	3.44914E-05	0.000841359	1.28612E-05	0.000102305
0.000654339	0.001232131	0.000190759	0.000214127	0.000136715	0.000112738	4.34784E-05	0.001043414	1.62196E-05	0.000129019
0.000845058	0.001604123	0.000246362	0.000276538	0.000176571	0.000145587	5.61613E-05	0.001360404	2.09455E-05	0.000166612
0.000125259	0.000318983	3.65322E-05	4.0993E-05	2.62212E-05	2.1513E-05	8.38971E-06	0.000282878	3.09505E-06	2.46197E-05
0.000143626	0.000356419	4.18872E-05	4.70035E-05	3.00604E-05	2.46751E-05	9.6124E-06	0.000315019	3.54999E-06	2.82385E-05
0.000165869	0.000399687	4.83718E-05	5.42822E-05	3.47085E-05	2.85062E-05	1.10914E-05	0.000351871	4.10116E-06	3.26229E-05
0.000194453	0.000453865	5.67051E-05	6.36363E-05	4.06811E-05	3.34309E-05	1.29911E-05	0.000397805	4.80967E-06	3.82588E-05
0.000231019	0.000521346	6.73648E-05	7.5602E-05	4.83201E-05	3.9732E-05	1.54196E-05	0.00045474	5.71621E-06	4.54699E-05
0.000277629	0.000605499	8.09525E-05	9.08548E-05	5.80565E-05	4.77656E-05	1.85138E-05	0.000525449	6.87201E-06	5.46637E-05
0.000333418	0.000709541	9.72162E-05	0.000109111	6.97121E-05	5.73784E-05	2.22199E-05	0.000613401	8.25499E-06	6.56647E-05
0.000401675	0.000841263	0.000117116	0.000131448	8.39754E-05	6.9136E-05	2.67579E-05	0.000725439	9.94654E-06	7.91202E-05
0.000478411	0.000995213	0.000139488	0.000156559	0.000100014	8.23495E-05	3.18643E-05	0.000857259	1.18476E-05	9.42419E-05

0.000585328	0.001229383	0.000170664	0.000191548	0.000122373	0.000100743	3.89949E-05	0.001060602	1.44939E-05	0.000115292
0.000116338	0.000303578	3.39315E-05	3.80736E-05	2.4358E-05	1.99747E-05	7.79802E-06	0.000270047	2.87374E-06	2.28593E-05
0.000131754	0.000335896	3.84265E-05	4.31186E-05	2.75811E-05	2.26281E-05	8.82504E-06	0.00029792	3.25549E-06	2.5896E-05
0.000150731	0.000374804	4.39594E-05	4.93287E-05	3.15479E-05	2.58951E-05	1.00885E-05	0.000331355	3.72551E-06	2.96347E-05
0.000173942	0.000421412	5.07267E-05	5.69245E-05	3.63993E-05	2.98919E-05	1.16331E-05	0.00037127	4.30052E-06	3.42087E-05
0.000202369	0.000477688	5.90143E-05	6.62269E-05	4.23402E-05	3.47873E-05	1.35242E-05	0.000419348	5.00482E-06	3.9811E-05
0.000236599	0.000545386	6.89941E-05	7.74285E-05	4.94941E-05	4.06823E-05	1.58013E-05	0.000477174	5.85292E-06	4.65574E-05
0.000272773	0.000623816	7.95418E-05	8.92666E-05	5.70584E-05	4.69063E-05	1.82132E-05	0.000545174	6.74838E-06	5.36803E-05
0.00031666	0.000717054	9.23381E-05	0.000103629	6.62344E-05	5.44591E-05	2.11378E-05	0.000625758	7.83498E-06	6.23237E-05
0.000365649	0.000830803	0.000106624	0.000119661	7.64829E-05	6.28819E-05	2.44102E-05	0.000725383	9.04677E-06	7.19629E-05
0.000425587	0.000976874	0.000124104	0.000139276	8.9026E-05	7.31814E-05	2.84195E-05	0.000854176	1.05285E-05	8.37498E-05
0.000107783	0.000287886	3.14376E-05	3.5274E-05	2.25708E-05	1.85003E-05	7.2299E-06	0.000256822	2.66163E-06	2.11721E-05
0.000120985	0.000316857	3.52871E-05	3.95944E-05	2.53316E-05	2.07716E-05	8.11042E-06	0.000281987	2.98839E-06	2.37713E-05
0.000136567	0.000350474	3.98306E-05	4.46937E-05	2.85899E-05	2.34528E-05	9.14924E-06	0.000311111	3.37413E-06	2.68397E-05
0.000155131	0.000390234	4.52434E-05	5.07688E-05	3.24715E-05	2.66473E-05	1.03866E-05	0.000345519	3.83372E-06	3.04955E-05
0.000177027	0.000437049	5.16277E-05	5.79342E-05	3.70496E-05	3.04152E-05	1.1846E-05	0.00038602	4.37581E-06	3.48075E-05
0.000202225	0.000491382	5.89751E-05	6.61804E-05	4.23187E-05	3.4751E-05	1.35258E-05	0.000433087	4.99961E-06	3.97696E-05
0.000227804	0.00055303	6.64346E-05	7.45514E-05	4.76711E-05	3.9147E-05	1.52363E-05	0.000487361	5.63205E-06	4.48004E-05
0.000256106	0.000624238	7.46888E-05	8.38136E-05	5.35952E-05	4.40085E-05	1.71312E-05	0.000550411	6.33147E-06	5.0364E-05
0.000286528	0.000706006	8.35623E-05	9.37699E-05	5.99663E-05	4.92299E-05	1.91723E-05	0.000623411	7.08267E-06	5.63394E-05
0.000323517	0.000800112	9.43501E-05	0.000105875	6.77092E-05	5.55827E-05	2.16497E-05	0.000706856	7.99664E-06	6.36097E-05
0.000264257	0.000899117	7.71131E-05	8.64904E-05	5.54544E-05	4.51993E-05	1.78811E-05	0.000823007	6.50278E-06	5.17267E-05
0.000236126	0.000865965	6.89158E-05	7.72856E-05	4.95888E-05	4.03362E-05	1.60278E-05	0.000797973	5.80314E-06	4.61613E-05
0.000210111	0.000837707	6.13355E-05	6.87732E-05	4.41658E-05	3.58369E-05	1.43158E-05	0.000777223	5.15583E-06	4.10123E-05
9.96497E-05	0.000272396	2.90665E-05	3.26126E-05	2.08714E-05	1.70992E-05	6.68936E-06	0.000243678	2.46005E-06	1.95686E-05
0.000110703	0.000297888	3.22897E-05	3.62297E-05	2.31836E-05	1.89997E-05	7.42755E-06	0.000265984	2.73348E-06	2.17436E-05
0.000123449	0.000327082	3.60066E-05	4.04011E-05	2.58499E-05	2.11916E-05	8.27866E-06	0.000291503	3.04882E-06	2.42519E-05
0.000138145	0.000360755	4.0292E-05	4.52104E-05	2.8924E-05	2.37187E-05	9.25997E-06	0.000320939	3.41239E-06	2.7144E-05
0.000154886	0.000399472	4.51739E-05	5.06891E-05	3.24262E-05	2.65972E-05	1.03781E-05	0.000354829	3.82652E-06	3.04382E-05
0.000171955	0.00044262	5.01519E-05	5.6275E-05	3.5999E-05	2.95289E-05	1.15211E-05	0.000393058	4.2483E-06	3.37933E-05
0.000191006	0.000491747	5.57085E-05	6.251E-05	3.99876E-05	3.28004E-05	1.27976E-05	0.000436693	4.71897E-06	3.75373E-05
0.00021025	0.000545893	6.13219E-05	6.8808E-05	4.40191E-05	3.61013E-05	1.40907E-05	0.000485293	5.19386E-06	4.13148E-05
0.000253526	0.000670106	7.3946E-05	8.29711E-05	5.30866E-05	4.35222E-05	1.70005E-05	0.000597036	6.26151E-06	4.98075E-05
0.0002723	0.000818791	7.94401E-05	8.91188E-05	5.70774E-05	4.66636E-05	1.83389E-05	0.000740336	6.71345E-06	5.34024E-05
0.000257873	0.000802666	7.52363E-05	8.43982E-05	5.40697E-05	4.41688E-05	1.73891E-05	0.000728375	6.35454E-06	5.05475E-05
0.000240688	0.000783594	7.02289E-05	7.87751E-05	5.04872E-05	4.11971E-05	1.62579E-05	0.000714263	5.92699E-06	4.71465E-05
0.000221927	0.000762024	6.47619E-05	7.26361E-05	4.65755E-05	3.79533E-05	1.50223E-05	0.000698107	5.4603E-06	4.34342E-05
0.000202821	0.000739824	5.91945E-05	6.63843E-05	4.25919E-05	3.46501E-05	1.37639E-05	0.000681421	4.98508E-06	3.96541E-05
0.000184246	0.000718472	5.37821E-05	6.03065E-05	3.87192E-05	3.14386E-05	1.25406E-05	0.00066543	4.52305E-06	3.59788E-05
9.20432E-05	0.000257607	2.68489E-05	3.01234E-05	1.92819E-05	1.57891E-05	6.18356E-06	0.000231083	2.27156E-06	1.80692E-05
0.00010113	0.000279703	2.94988E-05	3.3097E-05	2.11833E-05	1.73505E-05	6.79132E-06	0.000250559	2.4962E-06	1.98561E-05
0.000111512	0.000305022	3.25267E-05	3.64949E-05	2.33561E-05	1.91346E-05	7.48584E-06	0.000272886	2.75288E-06	2.18979E-05
0.000123318	0.000334103	3.59698E-05	4.03585E-05	2.58269E-05	2.11631E-05	8.2758E-06	0.000298563	3.04471E-06	2.42193E-05

0.000135873	0.000365947	3.96314E-05	4.44673E-05	2.8455E-05	2.33194E-05	9.11661E-06	0.000326788	3.35495E-06	2.66871E-05
0.000148816	0.000401152	4.34068E-05	4.87033E-05	3.11659E-05	2.55406E-05	9.98533E-06	0.000358263	3.6745E-06	2.9229E-05
0.000162505	0.000440288	4.74E-05	5.31833E-05	3.4034E-05	2.78881E-05	1.09056E-05	0.000393454	4.01224E-06	3.19155E-05
0.000190663	0.000524145	5.56145E-05	6.23989E-05	3.99358E-05	3.27141E-05	1.28014E-05	0.000469199	4.70656E-06	3.74385E-05
0.000202104	0.000564088	5.89532E-05	6.61434E-05	4.23372E-05	3.46701E-05	1.35763E-05	0.000505847	4.98796E-06	3.9677E-05
0.000224478	0.000669718	6.54876E-05	7.34673E-05	4.70501E-05	3.84727E-05	1.51139E-05	0.00060504	5.53504E-06	4.40287E-05
0.000222752	0.000677903	6.49866E-05	7.2903E-05	4.66964E-05	3.8166E-05	1.50084E-05	0.000613726	5.49091E-06	4.36777E-05
0.000218901	0.000685645	6.38666E-05	7.16433E-05	4.59008E-05	3.74901E-05	1.47646E-05	0.000622583	5.39367E-06	4.29042E-05
0.000210527	0.00067913	6.1427E-05	6.89032E-05	4.41567E-05	3.60396E-05	1.42155E-05	0.000618485	5.18499E-06	4.12443E-05
0.000199691	0.000667699	5.82698E-05	6.53576E-05	4.18981E-05	3.41653E-05	1.35028E-05	0.000610181	4.91534E-06	3.90993E-05
0.000187358	0.000653818	5.46762E-05	6.13223E-05	3.9327E-05	3.20328E-05	1.26908E-05	0.000599859	4.60854E-06	3.66588E-05
0.000174296	0.000638498	5.087E-05	5.70483E-05	3.66035E-05	2.97747E-05	1.18303E-05	0.000588309	4.28367E-06	3.40746E-05
0.000159892	0.000610248	4.66705E-05	5.23345E-05	3.35932E-05	2.72939E-05	1.08723E-05	0.000564214	3.92675E-06	3.12355E-05
8.47745E-05	0.000242989	2.47297E-05	2.77447E-05	1.77626E-05	1.45375E-05	5.69983E-06	0.000218561	2.09149E-06	1.66369E-05
9.24491E-05	0.000262806	2.69681E-05	3.02564E-05	1.93693E-05	1.58553E-05	6.21409E-06	0.000236165	2.2811E-06	1.81451E-05
0.000101031	0.000285111	2.94711E-05	3.3065E-05	2.11661E-05	1.73289E-05	6.78926E-06	0.000255997	2.49309E-06	1.98314E-05
0.000110149	0.000309133	3.21304E-05	3.60489E-05	2.30752E-05	1.88942E-05	7.40059E-06	0.000277391	2.71829E-06	2.16227E-05
0.000119704	0.000335722	3.49177E-05	3.91761E-05	2.50769E-05	2.05334E-05	8.0424E-06	0.000301227	2.95413E-06	2.34987E-05
0.000140368	0.000396677	4.09458E-05	4.59389E-05	2.94075E-05	2.40755E-05	9.43312E-06	0.000356227	3.46372E-06	2.75523E-05
0.000150282	0.000429828	4.38389E-05	4.91839E-05	3.14877E-05	2.57718E-05	1.01035E-05	0.000386524	3.70776E-06	2.94936E-05
0.00015796	0.00045685	4.60795E-05	5.16968E-05	3.30994E-05	2.70843E-05	1.06238E-05	0.000411334	3.89659E-06	3.09956E-05
0.000166621	0.000489379	4.86076E-05	5.45317E-05	3.49189E-05	2.85632E-05	1.12123E-05	0.00044137	4.10937E-06	3.26881E-05
0.000181169	0.000562884	5.28572E-05	5.9294E-05	3.79861E-05	3.10317E-05	1.22159E-05	0.00051069	4.46451E-06	3.55131E-05
0.000180747	0.000572044	5.27359E-05	5.91562E-05	3.79039E-05	3.09508E-05	1.21959E-05	0.000519975	4.45287E-06	3.54205E-05
0.000179173	0.000581474	5.22795E-05	5.86418E-05	3.75826E-05	3.06695E-05	1.21013E-05	0.000529862	4.4124E-06	3.50986E-05
0.000173988	0.000578106	5.07691E-05	5.69452E-05	3.65031E-05	2.97709E-05	1.17619E-05	0.000527991	4.28311E-06	3.40702E-05
0.00016721	0.000572491	4.87943E-05	5.47273E-05	3.50912E-05	2.85971E-05	1.13172E-05	0.000524333	4.11424E-06	3.27269E-05
0.000159103	0.000564439	4.64324E-05	5.20748E-05	3.34018E-05	2.71945E-05	1.07843E-05	0.00051862	3.91245E-06	3.11217E-05
0.000149176	0.000546353	4.35383E-05	4.88262E-05	3.13279E-05	2.54835E-05	1.01252E-05	0.000503398	3.6663E-06	2.91637E-05
0.000140187	0.000537314	4.09192E-05	4.58849E-05	2.94545E-05	2.39283E-05	9.53423E-06	0.000496954	3.44254E-06	2.73839E-05
0.00080295	0.001795687	0.000234136	0.000262768	0.000167936	0.000138109	5.35807E-05	0.001564182	1.98697E-05	0.000158054
0.000817619	0.001849898	0.000238417	0.00026757	0.000171017	0.000140615	5.45767E-05	0.001614169	2.02302E-05	0.000160922
0.000831426	0.001904573	0.000242448	0.000272089	0.000173919	0.00014297	5.55171E-05	0.001664869	2.0569E-05	0.000163617
0.000844267	0.001959539	0.000246197	0.000276292	0.00017662	0.000145157	5.63951E-05	0.00171614	2.08837E-05	0.00016612
0.000856806	0.002016965	0.000249859	0.000280397	0.00017926	0.00014729	5.72554E-05	0.001769959	2.11905E-05	0.000168561
0.000868634	0.0020759	0.000253314	0.000284269	0.000181754	0.000149297	5.80707E-05	0.001825492	2.14793E-05	0.000170858
0.000875821	0.001871163	0.000255369	0.000286613	0.000183124	0.000150716	5.83732E-05	0.001618626	2.16833E-05	0.000172481
0.000894263	0.001933829	0.00026075	0.000292649	0.000186994	0.00015387	5.9621E-05	0.00167598	2.21372E-05	0.000176091
0.000910605	0.001994859	0.00026552	0.000297997	0.000190427	0.000156661	6.07311E-05	0.001732305	2.25386E-05	0.000179285
0.000925748	0.002056475	0.000269941	0.000302954	0.000193611	0.000159242	6.17639E-05	0.001789561	2.29101E-05	0.000182239
0.000940291	0.002120554	0.000274187	0.000307715	0.000196671	0.000161718	6.27596E-05	0.001849455	2.32662E-05	0.000185072
0.000953831	0.00218629	0.000278142	0.000312147	0.000199524	0.000164018	6.36916E-05	0.001911298	2.35971E-05	0.000187704
0.000966441	0.002254194	0.000281827	0.000316275	0.000202186	0.000166154	6.45649E-05	0.001975575	2.39044E-05	0.000190149

0.000977424	0.002322026	0.000285037	0.000319871	0.000204509	0.000168007	6.53326E-05	0.002040253	2.41711E-05	0.00019227
0.000976831	0.00201043	0.000284807	0.000319665	0.000204198	0.000168161	6.5044E-05	0.001728747	2.41932E-05	0.000192446
0.000999066	0.002084035	0.000291295	0.000326943	0.000208863	0.000171966	6.65469E-05	0.001795948	2.47406E-05	0.0001968
0.001019615	0.002158986	0.000297292	0.000333669	0.000213178	0.000175476	6.79414E-05	0.001864982	2.52456E-05	0.000200817
0.001037116	0.002231792	0.000302401	0.000339397	0.000216859	0.000178459	6.91363E-05	0.00193275	2.56747E-05	0.000204231
0.001052534	0.002304571	0.000306904	0.000344444	0.000220106	0.000181079	7.01958E-05	0.002001094	2.60517E-05	0.000207229
0.001066483	0.002379153	0.00031098	0.000349011	0.00022305	0.000183443	7.11615E-05	0.002071665	2.63918E-05	0.000209935
0.00107922	0.002456805	0.000314703	0.00035318	0.000225743	0.000185593	7.20508E-05	0.002145658	2.67011E-05	0.000212395
0.001091288	0.002540418	0.000318233	0.000357132	0.000228302	0.000187622	7.29016E-05	0.002225806	2.69931E-05	0.000214718
0.001101543	0.002627531	0.000321235	0.00036049	0.000230485	0.000189333	7.36374E-05	0.002309979	2.72392E-05	0.000216676
0.001125542	0.002260906	0.000328155	0.000368329	0.000235251	0.000193807	7.49016E-05	0.001936326	2.78829E-05	0.000221795
0.00114724	0.002343868	0.000334488	0.000375431	0.00023981	0.000197511	7.63772E-05	0.002013041	2.84157E-05	0.000226034
0.001167154	0.002429881	0.000340303	0.000381949	0.000244	0.000200902	7.77393E-05	0.002093323	2.89036E-05	0.000229915
0.001182974	0.002512817	0.000344925	0.000387128	0.000247338	0.000203584	7.88331E-05	0.002171711	2.92895E-05	0.000232984
0.00119859	0.002604064	0.000349489	0.000392241	0.000250637	0.000206224	7.99203E-05	0.002258469	2.96692E-05	0.000236005
0.001213338	0.00270585	0.000353802	0.000397069	0.000253763	0.000208704	8.09597E-05	0.002356021	3.0026E-05	0.000238843
0.001222837	0.002798121	0.000356585	0.00040018	0.000255793	0.000210279	8.16505E-05	0.002445572	3.02527E-05	0.000240646
0.00122989	0.002892686	0.000358656	0.000402491	0.000257315	0.000211427	8.21844E-05	0.002538124	3.04179E-05	0.00024196
0.001234276	0.002988649	0.000359951	0.00040393	0.000258285	0.000212111	8.25462E-05	0.002632844	3.05162E-05	0.000242743
0.001236437	0.003089187	0.000360599	0.000404641	0.000258794	0.000212404	8.27672E-05	0.002732784	3.05583E-05	0.000243078
0.001302412	0.00256578	0.000379712	0.000426207	0.000272189	0.000224304	8.66313E-05	0.002190182	3.22704E-05	0.000256696
0.001321145	0.002659961	0.000385185	0.000432339	0.000276138	0.000227483	8.79233E-05	0.002278975	3.27278E-05	0.000260335
0.001338755	0.002762257	0.000390331	0.000438104	0.000279859	0.00023046	8.91489E-05	0.00237621	3.31561E-05	0.000263742
0.001355598	0.002877657	0.000395257	0.000443619	0.000283429	0.000233293	9.03352E-05	0.002486774	3.35637E-05	0.000266984
0.001365335	0.002983765	0.000398112	0.000446809	0.000285516	0.000234898	9.10526E-05	0.002590097	3.37947E-05	0.000268821
0.001371756	0.003091729	0.000400001	0.000448913	0.000286915	0.000235926	9.15562E-05	0.002696233	3.39425E-05	0.000269997
0.001375095	0.003204242	0.000400994	0.00045001	0.000287677	0.000236414	9.18633E-05	0.002807811	3.40126E-05	0.000270555
0.0013755	0.003323576	0.000401135	0.000450147	0.000287833	0.000236386	9.19854E-05	0.002927058	3.40087E-05	0.000270523
0.001372499	0.003443378	0.000400283	0.000449169	0.000287281	0.000235765	9.18866E-05	0.003047759	3.39194E-05	0.000269813
0.001357981	0.003571968	0.000396079	0.000444424	0.000284342	0.000233136	9.10471E-05	0.003180576	3.35411E-05	0.000266804
0.001348723	0.003696971	0.000393407	0.0004414	0.000282493	0.000231423	9.05462E-05	0.003308286	3.32947E-05	0.000264844
0.001507039	0.002938952	0.000439365	0.000493169	0.000314936	0.00025957	0.000100218	0.002504334	3.73441E-05	0.000297055
0.001521399	0.003055265	0.000443568	0.000497871	0.00031799	0.00026197	0.000101244	0.002616529	3.76895E-05	0.000299803
0.001532388	0.003179513	0.000446791	0.000501471	0.000320348	0.000263778	0.000102057	0.002737634	3.79496E-05	0.000301872
0.001538549	0.003307461	0.000448608	0.000503491	0.000321705	0.000264744	0.00010256	0.002863836	3.80885E-05	0.000302977
0.00154046	0.003441503	0.00044919	0.000504121	0.000322183	0.000264966	0.000102792	0.00299736	3.81205E-05	0.000303231
0.001537922	0.003581429	0.000448476	0.000503296	0.00032174	0.00026441	0.000102739	0.003138055	3.80404E-05	0.000302594
0.001531264	0.003722114	0.000446564	0.000501123	0.000320441	0.000263136	0.00010242	0.0032807	3.78572E-05	0.000301137
0.001506807	0.003878562	0.000439471	0.000493127	0.000315453	0.000258756	0.000100957	0.003444254	3.7227E-05	0.000296124
0.001494288	0.004033151	0.000435855	0.000489037	0.000312944	0.000256452	0.000100268	0.0036025	3.68956E-05	0.000293488
0.001480239	0.004191412	0.000431793	0.000484446	0.00031012	0.00025388	9.9483E-05	0.00376486	3.65255E-05	0.000290544
0.001462207	0.004349224	0.000426572	0.000478552	0.000306468	0.000250615	9.84387E-05	0.003927922	3.60558E-05	0.000286807
0.001736947	0.003545829	0.000506422	0.00056841	0.000363076	0.000299038	0.000115634	0.003044948	4.30224E-05	0.000342223

0.001735706	0.003701333	0.00050609	0.00056801	0.000362912	0.000298694	0.000115679	0.003200851	4.29729E-05	0.00034183
0.00172874	0.003863915	0.000504091	0.000565737	0.000361562	0.00029735	0.000115357	0.003365488	4.27794E-05	0.000340291
0.001706997	0.00404226	0.000497793	0.00055863	0.000357151	0.000293423	0.000114088	0.00355016	4.22145E-05	0.000335797
0.001685209	0.004223216	0.000491482	0.000551508	0.000352732	0.000289486	0.000112818	0.003737457	4.16482E-05	0.000331292
0.001667546	0.004415887	0.000486375	0.000545736	0.000349178	0.000286257	0.000111826	0.003935281	4.11836E-05	0.000327597
0.001645544	0.004617108	0.000480006	0.000538545	0.000344727	0.000282266	0.000110559	0.00414291	4.06094E-05	0.00032303
0.001620384	0.004824664	0.000472718	0.000530321	0.000339623	0.000277722	0.000109091	0.004357789	3.99556E-05	0.000317829
0.001592328	0.005034007	0.000464588	0.000521149	0.000333919	0.000272672	0.000107438	0.00457529	3.92291E-05	0.00031205
0.001561295	0.00523691	0.000455589	0.000511003	0.000327593	0.00026711	0.000105585	0.004787212	3.84289E-05	0.000305685
0.001528751	0.005421404	0.000446147	0.000500362	0.000320941	0.000261301	0.00010362	0.004981155	3.75931E-05	0.000299036
0.001954176	0.004178033	0.000569792	0.000639505	0.000408598	0.000336282	0.000130248	0.00361456	4.83806E-05	0.000384845
0.001934412	0.004382031	0.000564075	0.000633046	0.000404613	0.000332678	0.000129128	0.00382432	4.78621E-05	0.000380721
0.001902565	0.004608922	0.000554844	0.000622635	0.000398132	0.000326955	0.000127242	0.00406047	4.70387E-05	0.000374172
0.001869651	0.004849073	0.000545304	0.000611875	0.000391437	0.000321035	0.000125297	0.004310192	4.61871E-05	0.000367397
0.001836491	0.005106727	0.000535697	0.000601035	0.000384701	0.000315058	0.000123351	0.004577491	4.53272E-05	0.000360557
0.001802271	0.00538291	0.000525783	0.000589849	0.000377756	0.000308882	0.00012135	0.004863632	4.44386E-05	0.000353489
0.001764264	0.005671948	0.00051477	0.000577425	0.000370032	0.000302037	0.000119114	0.005163725	4.34538E-05	0.000345655
0.001725048	0.005964135	0.000503405	0.000564605	0.000362058	0.000294979	0.000116802	0.005467316	4.24384E-05	0.000337578
0.001681992	0.006244927	0.00049092	0.000550529	0.00035328	0.000287263	0.000114232	0.00576062	4.13283E-05	0.000328748
0.001636639	0.006489088	0.000477759	0.000535699	0.000344003	0.000279178	0.000111483	0.006017946	4.0165E-05	0.000319495
0.001590137	0.00666459	0.000464251	0.000520492	0.000334445	0.000270949	0.000108604	0.006206927	3.89812E-05	0.000310078
0.001542197	0.006723792	0.000450303	0.000504809	0.000324518	0.000262566	0.000105538	0.006279994	3.77752E-05	0.000300484
0.002109817	0.005330529	0.000615325	0.000690468	0.000441634	0.00036239	0.000141279	0.004722389	5.21368E-05	0.000414724
0.002062594	0.005665507	0.000601637	0.00067503	0.000432022	0.000353905	0.000138481	0.005071096	5.0916E-05	0.000405014
0.002012957	0.006036712	0.000587252	0.000658804	0.000421931	0.00034497	0.000135556	0.005456737	4.96306E-05	0.000394789
0.001961878	0.006441239	0.000572454	0.000642107	0.000411559	0.000335758	0.000132564	0.005876124	4.83052E-05	0.000384246
0.001909778	0.00686905	0.000557363	0.000625077	0.00040099	0.000326348	0.000129524	0.006319098	4.69515E-05	0.000373477
0.001847712	0.005848223	0.000539101	0.000604733	0.000387479	0.000316399	0.000124674	0.005315938	4.552E-05	0.000362091
0.001782816	0.004420996	0.00051994	0.000583449	0.000373135	0.000306292	0.000119315	0.00390709	4.4066E-05	0.000350525
0.001724008	0.004462856	0.000502824	0.000564211	0.000360939	0.000296034	0.00011553	0.003965951	4.25902E-05	0.000338785
0.001664255	0.004498901	0.000485432	0.000544662	0.000348544	0.000285617	0.000111679	0.004019267	4.10914E-05	0.000326864
0.002253789	0.006792632	0.000657518	0.000737625	0.000472431	0.000386215	0.000151801	0.006143276	5.55645E-05	0.00044199
0.002180347	0.005959925	0.000635979	0.000713566	0.000456668	0.000374133	0.000146364	0.005331572	5.38262E-05	0.000428163
0.002109909	0.006331163	0.000615537	0.000690535	0.000442255	0.000361582	0.000142088	0.005723255	5.20206E-05	0.0004138
0.00203091	0.004890456	0.000592268	0.000664636	0.000424972	0.000349035	0.000135802	0.004304998	5.02154E-05	0.00039944
0.001958109	0.004945853	0.000571079	0.000640819	0.000409877	0.000336333	0.000131119	0.004381441	4.8388E-05	0.000384904
0.001884769	0.00498693	0.000549732	0.000616826	0.000394661	0.00032355	0.00012639	0.004443717	4.65489E-05	0.000370275
0.002335094	0.005451731	0.000680944	0.000764177	0.00048852	0.000401453	0.000156005	0.004778541	5.77568E-05	0.000459429
0.002243761	0.005549325	0.000654368	0.000734299	0.000469599	0.000385495	0.000150152	0.004902545	5.54609E-05	0.000441166
0.002152483	0.005606779	0.0006278	0.000704437	0.000450666	0.00036958	0.000144271	0.004986384	5.31712E-05	0.000422952
0.002061288	0.005635096	0.000601251	0.000674602	0.000431732	0.000353703	0.000138372	0.005041054	5.0887E-05	0.000404783
0.000776218	0.001473697	0.000226293	0.000254011	0.000162187	0.000133727	5.15864E-05	0.001249832	1.92392E-05	0.000153039
0.000796607	0.00152075	0.000232238	0.000260683	0.000166452	0.000137233	5.29482E-05	0.001291007	1.97436E-05	0.000157052

0.000816785	0.001568976	0.000238123	0.000267287	0.000170674	0.000140701	5.42972E-05	0.001333416	2.02426E-05	0.000161021
0.000836939	0.001618721	0.000244	0.000273882	0.000174892	0.000144164	5.56458E-05	0.001377351	2.07408E-05	0.000164983
0.000840645	0.001524033	0.000245062	0.000275091	0.000175606	0.000144886	5.58104E-05	0.001281568	2.08446E-05	0.00016581
0.000865314	0.001575251	0.000252255	0.000283164	0.000180763	0.000149133	5.74534E-05	0.001325672	2.14556E-05	0.000170669
0.000889786	0.001627858	0.00025939	0.000291173	0.00018588	0.000153344	5.90848E-05	0.001371224	2.20614E-05	0.000175489
0.000914294	0.001682325	0.000266536	0.000299193	0.000191005	0.000157559	6.07199E-05	0.001418625	2.26679E-05	0.000180313
0.000912238	0.001576759	0.000265918	0.000298517	0.000190515	0.000157289	6.05017E-05	0.001313625	2.2629E-05	0.000180003
0.000942468	0.001632889	0.000274731	0.000308409	0.00019683	0.000162498	6.25097E-05	0.001361036	2.33784E-05	0.000185965
0.000972149	0.001690029	0.000283384	0.000318122	0.000203032	0.000167611	6.44829E-05	0.001409616	2.4114E-05	0.000191816
0.001004675	0.001753559	0.000292867	0.000328766	0.00020983	0.000173213	6.66459E-05	0.001463766	2.492E-05	0.000198227
0.000991226	0.001631379	0.000288928	0.000324361	0.000206961	0.000170975	6.56746E-05	0.00134544	2.45981E-05	0.000195667
0.001031696	0.001697608	0.000300724	0.000337604	0.000215411	0.000177956	6.83557E-05	0.001399994	2.56024E-05	0.000203656
0.001069689	0.001762236	0.000311799	0.000350037	0.000223345	0.000184508	7.08746E-05	0.001453663	2.6545E-05	0.000211153
0.001107558	0.00182886	0.000322838	0.000362429	0.000231254	0.000191036	7.33871E-05	0.001509364	2.74843E-05	0.000218625
0.001081506	0.001692519	0.000315227	0.000353901	0.000225759	0.00018662	7.1586E-05	0.001380514	2.68488E-05	0.00021357
0.00113083	0.001764663	0.000329603	0.000370041	0.000236052	0.000195135	7.48468E-05	0.001438427	2.80739E-05	0.000223315
0.001177424	0.001835051	0.000343183	0.000385288	0.000245777	0.000203177	7.79289E-05	0.001495373	2.92309E-05	0.000232519
0.001223944	0.001907537	0.000356742	0.00040051	0.000255487	0.000211204	8.10078E-05	0.001554438	3.03858E-05	0.000241705
0.001182839	0.001758639	0.000344746	0.000387056	0.000246856	0.000204181	7.82192E-05	0.001417377	2.93754E-05	0.000233668
0.001239916	0.001833417	0.000361379	0.000405733	0.000258762	0.000214042	8.19855E-05	0.001475685	3.07941E-05	0.000244953
0.001298887	0.001912092	0.000378565	0.00042503	0.000271063	0.000224229	8.58779E-05	0.001537343	3.22597E-05	0.000256611
0.001357261	0.001992103	0.000395577	0.000444131	0.000283242	0.000234311	8.97327E-05	0.001600511	3.37102E-05	0.000268149
0.001296889	0.00183097	0.000377968	0.000424373	0.000270599	0.000223949	8.56831E-05	0.001456778	3.22193E-05	0.00025629
0.001367051	0.001912785	0.000398413	0.000447331	0.000285228	0.000236078	9.03047E-05	0.001518344	3.39644E-05	0.000270171
0.001437954	0.001996602	0.000419074	0.000470532	0.000300013	0.000248335	9.49761E-05	0.0015817	3.57278E-05	0.000284199
0.001511543	0.002085121	0.000440518	0.000494611	0.000315358	0.000261056	9.98257E-05	0.001648981	3.75579E-05	0.000298756
0.001423659	0.001908962	0.000414895	0.000465851	0.000296989	0.000245922	9.39775E-05	0.001498166	3.53807E-05	0.000281437
0.001513274	0.002002119	0.000441007	0.000495175	0.000315668	0.000261425	9.98714E-05	0.001565458	3.7611E-05	0.000299178
0.001604985	0.002097748	0.000467729	0.000525183	0.000334783	0.000277289	0.000105903	0.001634617	3.98934E-05	0.000317334
0.001699783	0.002197504	0.000495351	0.000556202	0.000354542	0.000293687	0.000112139	0.001707013	4.22526E-05	0.0003361
0.001560746	0.001990276	0.000454828	0.000510706	0.000325525	0.000269687	0.000102945	0.001539898	3.87997E-05	0.000308634
0.001670866	0.002092994	0.000486912	0.000546738	0.000348471	0.000288746	0.000110178	0.001610829	4.15417E-05	0.000330445
0.001787475	0.002200991	0.000520886	0.000584893	0.000372767	0.000308929	0.000117836	0.001685166	4.44454E-05	0.000353543
0.001911096	0.002315259	0.000556903	0.000625342	0.000398525	0.000330326	0.000125955	0.00176375	4.75237E-05	0.000378029
0.001708714	0.002076455	0.000497929	0.00055912	0.000356326	0.00029534	0.000112622	0.001583352	4.24903E-05	0.000337991
0.001847243	0.002193426	0.000538288	0.000604447	0.000385183	0.000319326	0.000121711	0.001660333	4.59411E-05	0.000365441
0.001998616	0.002318913	0.000582388	0.000653977	0.000416714	0.000345538	0.000131641	0.001742121	4.97122E-05	0.000395438
0.002159878	0.002450621	0.000629369	0.000706742	0.000450304	0.000373463	0.000142219	0.001827275	5.37299E-05	0.000427397
0.001865587	0.002167039	0.000543624	0.000610448	0.000388979	0.000322536	0.000122881	0.001628639	4.64031E-05	0.000369115
0.002036737	0.002299275	0.000593484	0.000666448	0.000424624	0.000352181	0.000134101	0.001711465	5.0668E-05	0.000403041
0.002226689	0.002441821	0.000648821	0.0007286	0.000464182	0.000385085	0.00014655	0.001799172	5.54019E-05	0.000440697
0.002439146	0.002597123	0.000710713	0.000798116	0.000508425	0.000421892	0.000160471	0.001893136	6.06972E-05	0.000482819
0.002026843	0.002260086	0.000590596	0.00066321	0.000422544	0.000350493	0.000133427	0.001675124	5.04252E-05	0.000401109

0.00223938	0.002412568	0.000652511	0.000732752	0.000466802	0.000387316	0.000147351	0.001766245	5.57228E-05	0.00044325
0.002478281	0.002577156	0.000722105	0.000810919	0.000516545	0.000428712	0.000162996	0.001861858	6.16784E-05	0.000490624
0.002755471	0.002761163	0.000802851	0.000901615	0.000574257	0.000476748	0.000181143	0.001965834	6.85893E-05	0.000545597
0.002185894	0.002352733	0.000636926	0.00071525	0.000455651	0.000378067	0.00014383	0.001721847	5.43922E-05	0.000432665
0.002438962	0.002523587	0.000710646	0.000798053	0.000508342	0.00042192	0.0001604	0.001819635	6.07013E-05	0.000482852
0.002735305	0.002714506	0.000796971	0.000895016	0.000570038	0.00047328	0.000179796	0.00192499	6.80905E-05	0.000541629
0.003089491	0.002932286	0.000900143	0.001010903	0.00064377	0.000534674	0.00020297	0.002040505	7.69231E-05	0.000611889
0.002337007	0.002443206	0.000680944	0.000764694	0.000487107	0.000404262	0.000153715	0.001768687	5.81609E-05	0.000462644
0.002632377	0.002633697	0.000766985	0.000861337	0.000548601	0.000455454	0.000173048	0.001873897	6.55258E-05	0.000521228
0.00298667	0.00285063	0.000870189	0.00097726	0.000622355	0.000516867	0.000196228	0.001988532	7.43612E-05	0.00059151
0.003423627	0.003104516	0.000997469	0.00112023	0.000713308	0.00059262	0.000224805	0.002116249	8.52597E-05	0.000678202
0.002475399	0.002530302	0.000721257	0.000809975	0.000515918	0.000428249	0.000162771	0.001815825	6.16119E-05	0.000490094
0.002811487	0.002740172	0.000819158	0.000919941	0.000585885	0.000486503	0.000184764	0.001928654	6.99928E-05	0.000556761
0.003224414	0.002984289	0.00093944	0.001055048	0.000671839	0.000558087	0.000211773	0.002053542	8.02915E-05	0.000638683
0.003742788	0.00327393	0.001090434	0.001224657	0.000779733	0.000647964	0.000245666	0.002193502	9.32221E-05	0.00074154
0.002593748	0.002610572	0.000755733	0.000848698	0.00054056	0.000448757	0.000170521	0.001861925	6.45623E-05	0.000513564
0.002969134	0.002840576	0.000865081	0.000971522	0.000618704	0.000513826	0.000195081	0.001983541	7.39238E-05	0.00058803
0.003435149	0.003110131	0.001000825	0.001124	0.000715706	0.000594618	0.000225558	0.002118536	8.55472E-05	0.000680489
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0.002691076	0.00268474	0.000784087	0.000880544	0.000560829	0.000465616	0.0001769	0.001907995	6.69878E-05	0.000532858
0.003101821	0.002934403	0.000903734	0.001014938	0.000646334	0.000536816	0.000203772	0.002039059	7.72313E-05	0.00061434
0.003613134	0.003226981	0.001052672	0.001182236	0.000752762	0.000625463	0.000237209	0.002183997	8.99849E-05	0.000715789
0.00427562	0.003584273	0.001245642	0.001398996	0.000890644	0.000740338	0.000280515	0.002349993	0.000106512	0.000847253
0.002766841	0.002753381	0.000806161	0.000905335	0.000576615	0.000478731	0.000181875	0.001954766	6.88746E-05	0.000547866
0.003207492	0.003021646	0.00093452	0.001049513	0.000668345	0.000555114	0.000210704	0.002095798	7.98639E-05	0.000635281
0.003757002	0.003335796	0.001094584	0.001229309	0.000782724	0.000650384	0.000246639	0.002251278	9.35703E-05	0.000744309
0.004474521	0.003722008	0.001303584	0.001464076	0.000932059	0.000774803	0.000293541	0.002430302	0.00011147	0.000886695
0.00281936	0.002815873	0.000821465	0.00092252	0.000587566	0.000487809	0.000185335	0.002002101	7.01808E-05	0.000558256
0.003283315	0.003101412	0.000956612	0.001074323	0.000684149	0.00056823	0.000215692	0.002153679	8.17508E-05	0.00065029
0.003863732	0.00343616	0.001125681	0.001264232	0.000804963	0.000668856	0.00025365	0.002320834	9.62278E-05	0.000765448
0.004626516	0.003849753	0.001347865	0.001513809	0.000963721	0.000801121	0.000303513	0.002514169	0.000115257	0.000916814
0.002847829	0.00287184	0.000829765	0.000931836	0.000593516	0.000492713	0.000187229	0.002049857	7.08862E-05	0.000563867
0.00332817	0.003173572	0.000969687	0.001089001	0.000693514	0.000575968	0.000218662	0.0022129	8.28641E-05	0.000659146
0.003932714	0.003528901	0.001145784	0.001286804	0.000819353	0.000680772	0.000258204	0.00239367	9.79421E-05	0.000779085
0.004729302	0.003968041	0.001377816	0.001547442	0.000985151	0.000818892	0.000310283	0.002602793	0.000117813	0.000937152
0.00285178	0.002920605	0.000830924	0.00093313	0.000594366	0.000493359	0.000187525	0.002097494	7.09792E-05	0.000564607
0.003343221	0.003239139	0.000974081	0.001093928	0.000696681	0.000578531	0.000219692	0.002274135	8.32328E-05	0.000662079
0.003963145	0.003614404	0.001154661	0.001296764	0.000825729	0.000685992	0.000260248	0.002470404	9.86931E-05	0.000785059
0.004777441	0.004075342	0.001391853	0.001563196	0.000995219	0.000827172	0.000313495	0.002696215	0.000119005	0.000946628
0.002831259	0.002961137	0.000824957	0.000926418	0.000590126	0.000489759	0.000186225	0.002143965	7.04612E-05	0.000560487
0.003327833	0.003297169	0.000969612	0.001088896	0.000693518	0.000575808	0.00021874	0.002336626	8.2841E-05	0.000658963
0.003951945	0.003690803	0.001151414	0.001293102	0.000823447	0.000683982	0.000259582	0.002550058	9.84039E-05	0.000782758
0.004774971	0.004175493	0.001391153	0.001562392	0.000994766	0.00082666	0.000313415	0.002797105	0.000118931	0.000946042

0.002786365	0.002991348	0.00081189	0.000911731	0.000580815	0.000481929	0.000183334	0.002187153	6.93348E-05	0.000551526
0.003279408	0.003343822	0.00095552	0.001073054	0.000683483	0.000567351	0.000215633	0.00239728	8.16244E-05	0.000649285
0.003901711	0.003758986	0.001136799	0.00127667	0.000813049	0.000675193	0.000256375	0.002632771	9.71394E-05	0.0007727
0.00472615	0.004272273	0.001376955	0.001546422	0.000984679	0.000818094	0.000310322	0.002908015	0.000117698	0.000936238
0.002717374	0.003007805	0.000791804	0.00088916	0.000566488	0.000469922	0.000178867	0.002223545	6.76073E-05	0.000537785
0.003199539	0.003376538	0.000932269	0.001046924	0.000666906	0.00055344	0.000210472	0.002453078	7.96229E-05	0.000633364
0.003811082	0.003814978	0.00111042	0.00124702	0.00079425	0.000659391	0.000250535	0.002714961	9.48661E-05	0.000754617
0.004625645	0.004361452	0.001347706	0.001513543	0.000963848	0.000800548	0.000303867	0.003026252	0.000115174	0.000916159
0.002625367	0.003005992	0.000765013	0.000859057	0.000547368	0.000453928	0.000172891	0.002248313	6.53063E-05	0.000519482
0.003089384	0.003389889	0.000900197	0.001010885	0.000644023	0.000534279	0.00020333	0.002498256	7.68663E-05	0.000611436
0.003680257	0.003852336	0.001072333	0.001204219	0.000767087	0.000636618	0.00024207	0.002790122	9.15897E-05	0.000728554
0.004471285	0.004436431	0.001302774	0.001463043	0.000931816	0.000773652	0.000293904	0.003145844	0.000111305	0.000885378
0.002514762	0.002983474	0.000732803	0.00082287	0.00052437	0.000434719	0.000165691	0.002257742	6.25427E-05	0.000497499
0.002953079	0.003378555	0.000860505	0.000966289	0.000615692	0.000510592	0.00019447	0.002526297	7.34585E-05	0.000584329
0.003512012	0.00386188	0.001023345	0.001149175	0.000732131	0.000607361	0.000231152	0.002848274	8.73806E-05	0.000695073
0.004265316	0.004486636	0.001242809	0.001395658	0.000889045	0.000737804	0.00028057	0.003255565	0.000106147	0.000844354
0.002386846	0.002933794	0.000695547	0.000781017	0.000497759	0.000412523	0.000157345	0.002245003	5.93493E-05	0.000472097
0.002792949	0.003333166	0.00081387	0.000913898	0.000582389	0.000482792	0.000184036	0.002527158	6.94589E-05	0.000552514
0.003308795	0.003828487	0.000964166	0.001082686	0.000689881	0.000572061	0.00021793	0.00287358	8.2302E-05	0.000654675
0.004005681	0.00448589	0.001167208	0.001310712	0.000835092	0.000692669	0.00026371	0.003329827	9.96537E-05	0.0007927
0.002245822	0.002854597	0.000654469	0.000734875	0.000468406	0.000388072	0.000148124	0.002206527	5.58316E-05	0.000444115
0.002613351	0.003246142	0.000761558	0.000855135	0.000545016	0.000451642	0.000172303	0.002491995	6.49774E-05	0.000516865
0.003078075	0.003739199	0.000896969	0.001007198	0.000641883	0.000532025	0.000202876	0.002850923	7.65421E-05	0.000608857
0.00369854	0.004403044	0.001077759	0.001210221	0.000771217	0.000639343	0.000243699	0.00333569	9.19817E-05	0.000731673
0.002098965	0.002751203	0.000611688	0.000686824	0.000437827	0.000362627	0.000138505	0.002145532	5.21708E-05	0.000414995
0.002423491	0.003120257	0.000706252	0.000793013	0.000505486	0.00041874	0.000159874	0.002420928	6.02437E-05	0.000479212
0.002833292	0.003593499	0.000825665	0.000927106	0.000590929	0.000489591	0.000186864	0.002775903	7.04371E-05	0.000560295
0.003367338	0.00422869	0.000981287	0.001101854	0.000702288	0.000581909	0.000222052	0.003256974	8.37188E-05	0.000665945
0.000199252	0.000812759	5.81687E-05	6.52192E-05	4.18941E-05	3.39696E-05	1.35906E-05	0.000755406	4.88718E-06	3.88753E-05
0.000199932	0.000824411	5.8369E-05	6.54422E-05	4.20424E-05	3.40782E-05	1.36442E-05	0.000766864	4.90281E-06	3.89996E-05
0.000201102	0.000830836	5.87108E-05	6.58252E-05	4.22894E-05	3.42763E-05	1.37253E-05	0.000772953	4.93131E-06	3.92263E-05
0.000201387	0.000831144	5.87939E-05	6.59185E-05	4.23488E-05	3.43256E-05	1.3744E-05	0.000773179	4.9384E-06	3.92827E-05
0.000243001	0.000959361	7.09349E-05	7.95382E-05	5.10736E-05	4.14545E-05	1.65492E-05	0.000889406	5.96402E-06	4.74411E-05
0.000244797	0.000975419	7.14609E-05	8.01265E-05	5.14565E-05	4.17535E-05	1.66787E-05	0.00090495	6.00704E-06	4.77833E-05
0.000246519	0.000983286	7.19637E-05	8.06901E-05	5.1819E-05	4.20464E-05	1.67968E-05	0.000912321	6.04918E-06	4.81185E-05
0.000244974	0.000980026	7.15133E-05	8.01845E-05	5.1496E-05	4.17805E-05	1.66939E-05	0.000909507	6.01093E-06	4.78142E-05
0.000307774	0.001156584	8.98319E-05	0.000100737	6.46521E-05	5.25524E-05	2.09134E-05	0.001067969	7.56067E-06	6.01417E-05
0.000309169	0.001178817	9.02423E-05	0.000101194	6.49555E-05	5.27766E-05	2.10219E-05	0.001089803	7.59293E-06	6.03983E-05
0.000308012	0.001186396	8.99069E-05	0.000100816	6.47197E-05	5.25693E-05	2.09528E-05	0.001097719	7.56311E-06	6.01611E-05
0.000350555	0.000678426	0.000102201	0.000114717	7.32547E-05	6.03833E-05	2.33078E-05	0.000577327	8.6873E-06	6.91035E-05
0.000432543	0.000794315	0.000126095	0.000141545	9.03616E-05	7.45409E-05	2.87246E-05	0.000669561	1.07241E-05	8.53056E-05
0.000354616	0.000677439	0.000103383	0.000116045	7.40979E-05	6.109E-05	2.35707E-05	0.000575167	8.78898E-06	6.99123E-05
0.000447863	0.000803511	0.000130558	0.000146558	9.35507E-05	7.71966E-05	2.97269E-05	0.000674333	1.11062E-05	8.83449E-05

0.00058314	0.000970436	0.000169979	0.000190823	0.000121762	0.000100576	3.8645E-05	0.00080222	1.44698E-05	0.000115101
0.000788952	0.001198904	0.00022995	0.000258167	0.000164668	0.000136167	5.21929E-05	0.000971289	1.95903E-05	0.000155832
0.000343435	0.000661419	0.000100124	0.000112387	7.17648E-05	5.91595E-05	2.28318E-05	0.000562373	8.51123E-06	6.77029E-05
0.000438785	0.000791651	0.000127912	0.000143587	9.16572E-05	7.56283E-05	2.91279E-05	0.000665093	1.08806E-05	8.65501E-05
0.000582848	0.000970602	0.000169894	0.000190727	0.000121702	0.000100525	3.86262E-05	0.00080247	1.44625E-05	0.000115043
0.00081895	0.00123216	0.000238691	0.000267983	0.000170922	0.000141355	5.41674E-05	0.000995888	2.03366E-05	0.000161768
0.000411552	0.000760804	0.000119977	0.000134676	8.59795E-05	7.09194E-05	2.73347E-05	0.000642105	1.02031E-05	8.11612E-05
0.000548988	0.000939959	0.000160029	0.000179648	0.000114647	9.46643E-05	3.64029E-05	0.000781601	1.36193E-05	0.000108335
0.000774539	0.001205252	0.000225754	0.000253452	0.000161677	0.000133656	5.1262E-05	0.000981802	1.9229E-05	0.000152958
0.000372866	0.000712753	0.000108703	0.000122018	7.79116E-05	6.42337E-05	2.47841E-05	0.000605218	9.24125E-06	7.35099E-05
0.000492187	0.000876662	0.000143478	0.000161062	0.000102805	8.48419E-05	3.26637E-05	0.000734698	1.22061E-05	9.70942E-05
0.000686501	0.001123182	0.000200104	0.000224645	0.000143333	0.000118419	4.54794E-05	0.000925145	1.70369E-05	0.000135521

Mitigated Residential Health Risk Assessment

3. Cancer Risk Summary

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential - Construction Cancer Risk Summary

			327	Receptor									
			3.06	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
1	482241	3630879	0.1804538	0.0185855	0.0012756	0.0027953	0.0017774	0.0014331	0.0008919	0.0074054	0.0017063	0.0013007	0.1618682
2	482291	3630879	0.192723	0.0194431	0.0013345	0.0029243	0.0018594	0.0014992	0.0009331	0.0077471	0.001785	0.0013607	0.1732799
3	482341	3630879	0.2053987	0.0201918	0.0013858	0.0030369	0.001931	0.0015569	0.000969	0.0080454	0.0018537	0.0014131	0.1852069
4	482391	3630879	0.2181242	0.0207912	0.001427	0.003127	0.0019883	0.0016031	0.0009978	0.0082842	0.0019087	0.0014551	0.197333
5	482441	3630879	0.2320496	0.0213716	0.0014668	0.0032143	0.0020438	0.0016479	0.0010256	0.0085155	0.001962	0.0014957	0.210678
6	482491	3630879	0.2470817	0.0219475	0.0015063	0.0033009	0.0020989	0.0016923	0.0010532	0.0087449	0.0020149	0.001536	0.2251342
7	482541	3630879	0.2631638	0.022556	0.0015481	0.0033924	0.002157	0.0017392	0.0010824	0.0089874	0.0020708	0.0015786	0.2406078
8	482591	3630879	0.2795921	0.0232009	0.0015924	0.0034895	0.0022187	0.0017889	0.0011134	0.0092444	0.00213	0.0016237	0.2563911
9	482641	3630879	0.2979528	0.0240827	0.0016529	0.0036221	0.0023031	0.0018569	0.0011557	0.0095957	0.0022109	0.0016854	0.2738701
10	482691	3630879	0.3148167	0.0249494	0.0017124	0.0037524	0.0023859	0.0019238	0.0011973	0.009941	0.0022905	0.0017461	0.2898673
11	482741	3630879	0.3336753	0.0260359	0.001787	0.0039158	0.0024898	0.0020075	0.0012494	0.010374	0.0023902	0.0018221	0.3076394
12	482791	3630879	0.3503139	0.0269542	0.00185	0.0040539	0.0025777	0.0020783	0.0012935	0.0107398	0.0024745	0.0018864	0.3233597
13	482841	3630879	0.3664976	0.0277661	0.0019057	0.0041761	0.0026553	0.0021409	0.0013325	0.0110634	0.0025491	0.0019432	0.3387315
14	482891	3630879	0.3797393	0.0283153	0.0019434	0.0042587	0.0027078	0.0021833	0.0013588	0.0112822	0.0025995	0.0019816	0.3514241
15	483191	3630879	0.3955782	0.0280922	0.0019281	0.0042251	0.0026865	0.0021661	0.0013481	0.0111933	0.002579	0.001966	0.367486
16	483241	3630879	0.3906962	0.0274153	0.0018816	0.0041233	0.0026217	0.0021139	0.0013156	0.0109236	0.0025169	0.0019186	0.363281
17	482241	3630929	0.1894273	0.0207736	0.0014258	0.0031244	0.0019866	0.0016018	0.0009969	0.0082772	0.0019071	0.0014538	0.1686537
18	482291	3630929	0.203596	0.0220068	0.0015104	0.0033099	0.0021045	0.0016969	0.0010561	0.0087686	0.0020204	0.0015401	0.1815891
19	482341	3630929	0.2187614	0.0231762	0.0015907	0.0034857	0.0022164	0.001787	0.0011122	0.0092345	0.0021277	0.001622	0.1955852
20	482391	3630929	0.2349372	0.0242477	0.0016642	0.0036469	0.0023188	0.0018696	0.0011636	0.0096614	0.0022261	0.001697	0.2106895
21	482441	3630929	0.2514964	0.0251385	0.0017254	0.0037809	0.002404	0.0019383	0.0012064	0.0100164	0.0023079	0.0017593	0.2263578
22	482491	3630929	0.26969	0.0259975	0.0017843	0.0039101	0.0024862	0.0020046	0.0012476	0.0103586	0.0023867	0.0018194	0.2436925
23	482841	3630929	0.4247413	0.033965	0.0023312	0.0051084	0.0032481	0.0026189	0.00163	0.0135333	0.0031182	0.002377	0.3907763
24	482891	3630929	0.4436893	0.0347444	0.0023846	0.0052256	0.0033226	0.002679	0.0016674	0.0138438	0.0031897	0.0024316	0.4089449
25	483141	3630929	0.4689083	0.0344698	0.0023658	0.0051843	0.0032964	0.0026578	0.0016542	0.0137344	0.0031645	0.0024124	0.4344385
26	483191	3630929	0.4655535	0.0336109	0.0023069	0.0050551	0.0032142	0.0025916	0.001613	0.0133922	0.0030857	0.0023522	0.4319426
27	483241	3630929	0.4576104	0.0323822	0.0022225	0.0048703	0.0030967	0.0024969	0.001554	0.0129026	0.0029729	0.0022663	0.4252282
28	482241	3630979	0.1964557	0.0229244	0.0015734	0.0034479	0.0021923	0.0017676	0.0011001	0.0091342	0.0021046	0.0016044	0.1735312
29	482341	3630979	0.2322993	0.0266281	0.0018276	0.0040049	0.0025465	0.0020532	0.0012779	0.0106099	0.0024446	0.0018636	0.2056712
30	482391	3630979	0.2512629	0.0282709	0.0019403	0.004252	0.0027036	0.0021799	0.0013567	0.0112645	0.0025954	0.0019785	0.222992
31	482441	3630979	0.2730543	0.0299457	0.0020553	0.0045039	0.0028637	0.002309	0.0014371	0.0119318	0.0027492	0.0020957	0.2431086
32	482491	3630979	0.2976427	0.0316035	0.0021691	0.0047532	0.0030223	0.0024368	0.0015166	0.0125924	0.0029014	0.0022118	0.2660392
33	482541	3630979	0.3217757	0.0328857	0.0022571	0.0049461	0.0031449	0.0025357	0.0015782	0.0131032	0.0030191	0.0023015	0.28889
34	482591	3630979	0.345627	0.0339376	0.0023293	0.0051043	0.0032455	0.0026168	0.0016286	0.0135224	0.0031157	0.0023751	0.3116894
35	482641	3630979	0.3758003	0.0355844	0.0024423	0.0053519	0.003403	0.0027438	0.0017077	0.0141785	0.0032668	0.0024904	0.3402159
36	482691	3630979	0.4052711	0.037263	0.0025575	0.0056044	0.0035635	0.0028732	0.0017882	0.0148474	0.003421	0.0026078	0.3680081
37	482791	3630979	0.4715644	0.0413489	0.0028379	0.0062189	0.0039542	0.0031883	0.0019843	0.0164754	0.0037961	0.0028938	0.4302155
38	482841	3630979	0.5004962	0.0427817	0.0029363	0.0064344	0.0040913	0.0032987	0.0020531	0.0170463	0.0039276	0.0029941	0.4577145
39	482891	3630979	0.5269405	0.0438363	0.0030087	0.006593	0.0041921	0.00338	0.0021037	0.0174665	0.0040244	0.0030679	0.4831043
40	483141	3630979	0.5630449	0.0423011	0.0029033	0.0063621	0.0040453	0.0032617	0.00203	0.0168548	0.0038835	0.0029604	0.5207438
41	483191	3630979	0.5588281	0.0406824	0.0027922	0.0061187	0.0038905	0.0031369	0.0019523	0.0162098	0.0037349	0.0028471	0.5181457
42	483241	3630979	0.5448571	0.0385296	0.0026444	0.0057949	0.0036846	0.0029709	0.001849	0.015352	0.0035372	0.0026965	0.5063275
43	482241	3631029	0.2041702	0.0252794	0.001735	0.0038021	0.0024175	0.0019492	0.0012131	0.0100725	0.0023208	0.0017692	0.1788908
44	482291	3631029	0.2235996	0.0277772	0.0019065	0.0041777	0.0026564	0.0021418	0.001333	0.0110678	0.0025501	0.001944	0.1958224
45	482341	3631029	0.2456142	0.0304824	0.0020921	0.0045846	0.0029151	0.0023504	0.0014628	0.0121457	0.0027985	0.0021333	0.2151318
46	482441	3631029	0.2954057	0.0358498	0.0024605	0.0053919	0.0034283	0.0027642	0.0017204	0.0142843	0.0032912	0.0025089	0.2595559
47	482491	3631029	0.3245013	0.038448	0.0026388	0.0057826	0.0036768	0.0029646	0.0018451	0.0153195	0.0035297	0.0026908	0.2860532
48	482541	3631029	0.3542262	0.0405976	0.0027864	0.0061059	0.0038824	0.0031303	0.0019483	0.016176	0.0037271	0.0028412	0.3136286

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential - Construction Cancer Risk Summary

			327	Receptor									
			3.06	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
49	482591	3631029	0.3862104	0.0425534	0.0029206	0.0064001	0.0040694	0.0032811	0.0020421	0.0169553	0.0039066	0.0029781	0.343657
50	482641	3631029	0.4261825	0.0451236	0.003097	0.0067867	0.0043152	0.0034793	0.0021655	0.0179794	0.0041426	0.003158	0.3810589
51	482691	3631029	0.4659251	0.0476241	0.0032686	0.0071627	0.0045543	0.0036721	0.0022854	0.0189757	0.0043722	0.0033329	0.4183011
52	482791	3631029	0.557881	0.0536801	0.0036843	0.0080736	0.0051335	0.0041391	0.0025761	0.0213887	0.0049281	0.0037568	0.5042009
53	482841	3631029	0.5999288	0.0557997	0.0038298	0.0083923	0.0053362	0.0043025	0.0026778	0.0222333	0.0051227	0.0039051	0.5441292
54	482891	3631029	0.6392105	0.0572925	0.0039322	0.0086169	0.0054789	0.0044176	0.0027494	0.0228281	0.0052598	0.0040096	0.5819181
55	482941	3631029	0.6700055	0.0579603	0.003978	0.0087173	0.0055428	0.0044691	0.0027815	0.0230942	0.0053211	0.0040563	0.6120452
56	482991	3631029	0.6911656	0.0580047	0.0039811	0.008724	0.005547	0.0044725	0.0027836	0.0231118	0.0053252	0.0040594	0.633161
57	483141	3631029	0.6912226	0.0525969	0.0036099	0.0079106	0.0050299	0.0040555	0.0025241	0.0209571	0.0048287	0.003681	0.6386257
58	483191	3631029	0.677604	0.0494488	0.0033939	0.0074372	0.0047288	0.0038128	0.002373	0.0197028	0.0045397	0.0034607	0.6281552
59	483241	3631029	0.6588624	0.0459695	0.0031551	0.0069139	0.0043961	0.0035445	0.002206	0.0183165	0.0042203	0.0032172	0.6128929
60	482241	3631079	0.2096467	0.0273142	0.0018747	0.0041081	0.0026121	0.0021061	0.0013108	0.0108833	0.0025076	0.0019116	0.1823325
61	482291	3631079	0.2316716	0.0306174	0.0021014	0.0046049	0.002928	0.0023608	0.0014693	0.0121994	0.0028109	0.0021427	0.2010542
62	482341	3631079	0.256455	0.0342859	0.0023532	0.0051566	0.0032788	0.0026437	0.0016454	0.0136611	0.0031476	0.0023995	0.2221691
63	482391	3631079	0.2852304	0.0384135	0.0026365	0.0057774	0.0036735	0.0029619	0.0018434	0.0153058	0.0035266	0.0026883	0.2468169
64	482441	3631079	0.3172539	0.0427497	0.0029341	0.0064296	0.0040882	0.0032963	0.0020515	0.0170335	0.0039247	0.0029918	0.2745042
65	482591	3631079	0.4327723	0.0548801	0.0037666	0.008254	0.0052482	0.0042316	0.0026337	0.0218669	0.0050383	0.0038408	0.3778922
66	482641	3631079	0.4852051	0.059217	0.0040643	0.0089063	0.005663	0.004566	0.0028418	0.0235949	0.0054365	0.0041443	0.4259881
67	482691	3631079	0.539555	0.063314	0.0043455	0.0095225	0.0060548	0.0048819	0.0030384	0.0252273	0.0058126	0.004431	0.476241
68	482791	3631079	0.6717898	0.0730176	0.0050115	0.010982	0.0069827	0.0056301	0.0035041	0.0290937	0.0067034	0.0051101	0.5987722
69	482841	3631079	0.7380169	0.0764487	0.005247	0.011498	0.0073109	0.0058947	0.0036687	0.0304608	0.0070184	0.0053502	0.6615682
70	482891	3631079	0.798203	0.0784743	0.005386	0.0118026	0.0075046	0.0060508	0.0037659	0.0312679	0.0072044	0.005492	0.7197287
71	482941	3631079	0.847597	0.078876	0.0054136	0.0118631	0.007543	0.0060818	0.0037852	0.031428	0.0072413	0.0055201	0.768721
72	482991	3631079	0.8792905	0.0778913	0.005346	0.011715	0.0074488	0.0060059	0.003738	0.0310356	0.0071509	0.0054512	0.8013992
73	482241	3631129	0.2130516	0.028837	0.0019792	0.0043371	0.0027577	0.0022235	0.0013839	0.01149	0.0026474	0.0020181	0.1842146
74	482291	3631129	0.2365293	0.0328224	0.0022527	0.0049365	0.0031388	0.0025308	0.0015751	0.013078	0.0030133	0.0022971	0.2037069
75	482341	3631129	0.2645757	0.0376491	0.002584	0.0056625	0.0036004	0.002903	0.0018068	0.0150012	0.0034564	0.0026349	0.2269266
76	482391	3631129	0.2984861	0.0435141	0.0029865	0.0065446	0.0041613	0.0033552	0.0020882	0.0173381	0.0039948	0.0030453	0.254972
77	482441	3631129	0.3383551	0.0503664	0.0034569	0.0075752	0.0048166	0.0038836	0.0024171	0.0200684	0.0046239	0.0035249	0.2879887
78	482491	3631129	0.3811621	0.057494	0.003946	0.0086472	0.0054982	0.0044331	0.0027591	0.0229084	0.0052783	0.0040237	0.323668
79	482541	3631129	0.4317955	0.0653409	0.0044846	0.0098274	0.0062486	0.0050382	0.0031357	0.0260349	0.0059987	0.0045728	0.3664546
80	482691	3631129	0.6308917	0.0888634	0.0060991	0.0133652	0.0084981	0.0068519	0.0042645	0.0354074	0.0081582	0.0062191	0.5420283
81	482791	3631129	0.825901	0.1061107	0.0072828	0.0159592	0.0101475	0.0081818	0.0050922	0.0422796	0.0097416	0.0074261	0.7197904
82	482841	3631129	0.9324561	0.1117585	0.0076704	0.0168086	0.0106876	0.0086173	0.0053632	0.0445299	0.0102601	0.0078214	0.8206977
83	482891	3631129	1.039012	0.1132989	0.0077762	0.0170403	0.0108349	0.008736	0.0054371	0.0451437	0.0104015	0.0079292	0.9257131
84	482941	3631129	1.1292919	0.1128071	0.0077424	0.0169664	0.0107879	0.0086981	0.0054135	0.0449478	0.0103563	0.0078948	1.0164848
85	482991	3631129	1.1821827	0.1085648	0.0074512	0.0163283	0.0103822	0.008371	0.00521	0.0432574	0.0099669	0.0075979	1.073618
86	482241	3631179	0.2101965	0.0290816	0.001996	0.0043739	0.0027811	0.0022424	0.0013956	0.0115875	0.0026699	0.0020353	0.1811149
87	482291	3631179	0.2388927	0.0342233	0.0023489	0.0051472	0.0032728	0.0026388	0.0016424	0.0136362	0.0031419	0.0023951	0.2046695
88	482341	3631179	0.2721335	0.0404932	0.0027792	0.0060902	0.0038724	0.0031223	0.0019432	0.0161344	0.0037175	0.0028339	0.2316402
89	482391	3631179	0.3104174	0.0480884	0.0033005	0.0072326	0.0045987	0.0037079	0.0023077	0.0191607	0.0044148	0.0033654	0.262329
90	482441	3631179	0.355561	0.0574242	0.0039413	0.0086367	0.0054915	0.0044278	0.0027558	0.0228806	0.0052719	0.0040188	0.2981367
91	482491	3631179	0.4100592	0.0690055	0.0047361	0.0103785	0.0065991	0.0053207	0.0033115	0.0274951	0.0063351	0.0048293	0.3410537
92	482541	3631179	0.474618	0.0828302	0.005685	0.0124578	0.0079211	0.0063867	0.003975	0.0330035	0.0076043	0.0057968	0.3917878
93	482591	3631179	0.5497438	0.0984464	0.0067568	0.0148065	0.0094145	0.0075908	0.0047244	0.0392257	0.0090379	0.0068897	0.4512974
94	482641	3631179	0.6404291	0.1158326	0.0079501	0.0174214	0.0110772	0.0089314	0.0055587	0.0461532	0.0106341	0.0081065	0.5245965
95	482941	3631179	1.6408639	0.1711959	0.0117499	0.0257481	0.0163716	0.0132002	0.0082156	0.0682127	0.0157168	0.0119811	1.4696679
96	482991	3631179	1.7605931	0.1569154	0.0107697	0.0236003	0.015006	0.0120991	0.0075303	0.0625226	0.0144057	0.0109816	1.6036778

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential - Construction Cancer Risk Summary

			327	Receptor									
			3.06	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
97	482241	3631229	0.2130076	0.0297826	0.0020441	0.0044794	0.0028481	0.0022964	0.0014293	0.0118668	0.0027342	0.0020843	0.1832249
98	482291	3631229	0.2400109	0.0349028	0.0023955	0.0052494	0.0033378	0.0026912	0.001675	0.013907	0.0032043	0.0024427	0.205108
99	482341	3631229	0.2731385	0.0415543	0.002852	0.0062498	0.0039739	0.0032041	0.0019942	0.0165572	0.0038149	0.0029082	0.2315842
100	482491	3631229	0.4355789	0.079296	0.0054424	0.0119262	0.0075832	0.0061142	0.0038054	0.0315953	0.0072798	0.0055495	0.3562829
101	482541	3631229	0.5158557	0.1010081	0.0069326	0.0151918	0.0096595	0.0077883	0.0048473	0.0402465	0.0092731	0.007069	0.4148476
102	482591	3631229	0.6187117	0.1308344	0.0089797	0.0196777	0.0125118	0.0100881	0.0062787	0.0521307	0.0120114	0.0091564	0.4878773
103	482641	3631229	0.7554067	0.1725309	0.0118415	0.0259489	0.0164993	0.0133032	0.0082796	0.0687446	0.0158393	0.0120745	0.5828758
104	482241	3631279	0.2087026	0.0290946	0.0019969	0.0043759	0.0027823	0.0022434	0.0013962	0.0115927	0.0026711	0.0020362	0.179608
105	482291	3631279	0.237368	0.0345102	0.0023686	0.0051904	0.0033002	0.0026609	0.0016561	0.0137505	0.0031682	0.0024152	0.2028578
106	482341	3631279	0.2733969	0.0417474	0.0028653	0.0062789	0.0039923	0.003219	0.0020034	0.0166341	0.0038326	0.0029217	0.2316495
107	482591	3631279	0.6893999	0.1626016	0.01116	0.0244555	0.0155498	0.0125376	0.0078031	0.0647883	0.0149278	0.0113796	0.5267983
108	482641	3631279	0.8967579	0.2479361	0.0170169	0.0372899	0.0237104	0.0191174	0.0118983	0.0987896	0.022762	0.0173517	0.6488218
109	482241	3631329	0.2018748	0.0277772	0.0019065	0.0041777	0.0026564	0.0021418	0.001333	0.0110678	0.0025501	0.001944	0.1740976
110	482291	3631329	0.2307423	0.0331224	0.0022733	0.0049817	0.0031675	0.0025539	0.0015895	0.0131976	0.0030408	0.0023181	0.1976198
111	482341	3631329	0.2664276	0.0401678	0.0027569	0.0060413	0.0038413	0.0030972	0.0019276	0.0160048	0.0036876	0.0028111	0.2262598
112	482591	3631329	0.7473908	0.1797628	0.0123378	0.0270366	0.0171909	0.0138608	0.0086267	0.0716261	0.0165033	0.0125806	0.567628
113	482641	3631329	1.0334401	0.3046156	0.020907	0.0458146	0.0291307	0.0234877	0.0146183	0.1213734	0.0279655	0.0213184	0.7288246
114	482241	3631379	0.1941507	0.0261833	0.0017971	0.003938	0.0025039	0.0020189	0.0012565	0.0104327	0.0024038	0.0018324	0.1679673
115	482291	3631379	0.2211206	0.0310622	0.0021319	0.0046718	0.0029705	0.0023951	0.0014907	0.0123767	0.0028517	0.0021739	0.1900584
116	482341	3631379	0.2557568	0.0376746	0.0025858	0.0056663	0.0036029	0.0029049	0.001808	0.0150113	0.0034587	0.0026366	0.2180822
117	482391	3631379	0.3001699	0.0467436	0.0032082	0.0070303	0.0044701	0.0036042	0.0022432	0.0186249	0.0042913	0.0032713	0.2534262
118	482591	3631379	0.7685783	0.1744666	0.0119743	0.02624	0.0166844	0.0134524	0.0083725	0.0695158	0.016017	0.01221	0.5941117
119	482641	3631379	1.1321166	0.3095042	0.0212425	0.0465499	0.0295982	0.0238647	0.0148529	0.1233213	0.0284143	0.0216605	0.8226123
120	482241	3631429	0.1853432	0.0244088	0.0016753	0.0036711	0.0023342	0.0018821	0.0011714	0.0097256	0.0022409	0.0017082	0.1609345
121	482291	3631429	0.2105517	0.0288187	0.0019779	0.0043344	0.002756	0.0022221	0.001383	0.0114828	0.0026457	0.0020169	0.181733
122	482341	3631429	0.2428058	0.0347541	0.0023853	0.0052271	0.0033236	0.0026798	0.0016678	0.0138477	0.0031906	0.0024323	0.2080516
123	482391	3631429	0.2832532	0.0427171	0.0029318	0.0064247	0.0040851	0.0032938	0.00205	0.0170206	0.0039217	0.0029895	0.240536
124	482591	3631429	0.7262048	0.1514984	0.0103979	0.0227856	0.0144879	0.0116815	0.0072703	0.0603642	0.0139084	0.0106025	0.5747064
125	482641	3631429	1.1108089	0.2614745	0.017946	0.0393261	0.0250051	0.0201613	0.012548	0.104184	0.0240049	0.0182992	0.8493344
126	482241	3631479	0.1768927	0.0227236	0.0015596	0.0034177	0.0021731	0.0017521	0.0010905	0.0090542	0.0020862	0.0015903	0.1541691
127	482291	3631479	0.1998638	0.0266124	0.0018265	0.0040026	0.002545	0.002052	0.0012771	0.0106037	0.0024432	0.0018625	0.1732514
128	482341	3631479	0.2288264	0.0317613	0.0021799	0.0047769	0.0030374	0.002449	0.0015242	0.0126552	0.0029159	0.0022228	0.197065
129	482391	3631479	0.2662361	0.0387813	0.0026617	0.0058328	0.0037087	0.0029903	0.0018611	0.0154523	0.0035603	0.0027141	0.2274549
130	482441	3631479	0.3147751	0.0485169	0.0033299	0.007297	0.0046397	0.0037409	0.0023283	0.0193314	0.0044541	0.0033954	0.2662582
131	482491	3631479	0.3827458	0.0629807	0.0043226	0.0094724	0.0060229	0.0048562	0.0030224	0.0250945	0.005782	0.0044077	0.3197651
132	482541	3631479	0.4822557	0.0855158	0.0058693	0.0128617	0.008178	0.0065938	0.0041038	0.0340736	0.0078508	0.0059848	0.3967399
133	482591	3631479	0.6440103	0.1238073	0.0084974	0.0186208	0.0118398	0.0095463	0.0059414	0.0493308	0.0113662	0.0086646	0.520203
134	482641	3631479	0.9388313	0.1948299	0.013372	0.0293027	0.0186318	0.0150226	0.0093498	0.0776296	0.0178865	0.0136351	0.7440014
135	482691	3631479	1.6465523	0.3499166	0.0240162	0.052628	0.0334629	0.0269807	0.0167923	0.1394235	0.0321243	0.0244887	1.2966357
136	482241	3631529	0.1687609	0.0211199	0.0014495	0.0031765	0.0020197	0.0016285	0.0010135	0.0084152	0.0019389	0.0014781	0.1476411
137	482291	3631529	0.1903175	0.0246149	0.0016894	0.0037021	0.0023539	0.001898	0.0011813	0.0098077	0.0022598	0.0017227	0.1657026
138	482341	3631529	0.2159763	0.0290216	0.0019919	0.0043649	0.0027754	0.0022377	0.0013927	0.0115636	0.0026643	0.0020311	0.1869547
139	482391	3631529	0.2488434	0.0349407	0.0023981	0.0052551	0.0033414	0.0026941	0.0016768	0.013922	0.0032078	0.0024453	0.2139028
140	482441	3631529	0.2927872	0.0432082	0.0029656	0.0064986	0.004132	0.0033316	0.0020735	0.0172162	0.0039668	0.0030239	0.249579
141	482491	3631529	0.3522461	0.0549473	0.0037713	0.0082641	0.0052547	0.0042368	0.0026369	0.0218936	0.0050445	0.0038455	0.2972988
142	482541	3631529	0.4342388	0.0719539	0.0049385	0.010822	0.006881	0.0055481	0.003453	0.0286699	0.0066058	0.0050357	0.3622849
143	482591	3631529	0.5582386	0.0981001	0.006733	0.0147544	0.0093814	0.0075641	0.0047078	0.0390878	0.0090061	0.0068655	0.4601386
144	482641	3631529	0.7547133	0.1374644	0.0094347	0.0206748	0.0131459	0.0105993	0.0065968	0.0547724	0.01262	0.0096204	0.6172489

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential - Construction Cancer Risk Summary

			327	Receptor									
			3.06	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
145	482691	3631529	1.0993673	0.1999847	0.0137258	0.030078	0.0191247	0.01542	0.0095971	0.0796835	0.0183597	0.0139958	0.8993827
146	482241	3631579	0.1610955	0.0196127	0.0013461	0.0029498	0.0018756	0.0015123	0.0009412	0.0078146	0.0018006	0.0013726	0.1414827
147	482291	3631579	0.1801658	0.0226094	0.0015518	0.0034005	0.0021622	0.0017433	0.001085	0.0090087	0.0020757	0.0015823	0.1575564
148	482341	3631579	0.2036489	0.0264533	0.0018156	0.0039786	0.0025298	0.0020397	0.0012695	0.0105403	0.0024286	0.0018513	0.1771956
149	482391	3631579	0.2339005	0.0315696	0.0021667	0.0047481	0.003019	0.0024342	0.001515	0.0125788	0.0028983	0.0022094	0.2023309
150	482441	3631579	0.2709586	0.0381774	0.0026203	0.0057419	0.0036509	0.0029437	0.0018321	0.0152117	0.0035049	0.0026718	0.2327812
151	482491	3631579	0.3202229	0.0472073	0.00324	0.0071	0.0045145	0.00364	0.0022654	0.0188097	0.0043339	0.0033038	0.2730156
152	482541	3631579	0.3845563	0.0585114	0.0040159	0.0088002	0.0055955	0.0045116	0.0028079	0.0233137	0.0053717	0.0040949	0.3260449
153	482591	3631579	0.4759706	0.0756478	0.005192	0.0113775	0.0072343	0.0058329	0.0036303	0.0301417	0.0069449	0.0052942	0.4003228
154	482641	3631579	0.5943599	0.0954014	0.0065478	0.0143485	0.0091233	0.007356	0.0045783	0.0380125	0.0087584	0.0066766	0.4989585
155	482691	3631579	0.7807488	0.1231988	0.0084556	0.0185293	0.0117816	0.0094994	0.0059122	0.0490883	0.0113104	0.008622	0.65755
156	482241	3631629	0.1537175	0.0182047	0.0012495	0.002738	0.0017409	0.0014037	0.0008736	0.0072536	0.0016713	0.001274	0.1355129
157	482291	3631629	0.1715717	0.0208805	0.0014331	0.0031405	0.0019968	0.00161	0.001002	0.0083198	0.001917	0.0014613	0.1506912
158	482341	3631629	0.1922122	0.0241225	0.0016556	0.0036281	0.0023069	0.00186	0.0011576	0.0096115	0.0022146	0.0016882	0.1680897
159	482391	3631629	0.2180847	0.0282898	0.0019416	0.0042548	0.0027054	0.0021813	0.0013576	0.011272	0.0025972	0.0019798	0.1897949
160	482441	3631629	0.250375	0.033622	0.0023076	0.0050568	0.0032153	0.0025925	0.0016135	0.0133966	0.0030867	0.002353	0.216753
161	482491	3631629	0.2907677	0.0404202	0.0027742	0.0060793	0.0038654	0.0031166	0.0019397	0.0161053	0.0037108	0.0028288	0.2503475
162	482541	3631629	0.3410514	0.0485547	0.0033325	0.0073027	0.0046433	0.0037439	0.0023301	0.0193465	0.0044576	0.0033981	0.2924966
163	482591	3631629	0.4052947	0.0585042	0.0040154	0.0087991	0.0055948	0.004511	0.0028076	0.0233109	0.005371	0.0040944	0.3467905
164	482641	3631629	0.4803096	0.0696857	0.0047828	0.0104808	0.0066641	0.0053732	0.0033442	0.0277661	0.0063975	0.0048769	0.410624
165	482691	3631629	0.5972361	0.085251	0.0058511	0.0128219	0.0081526	0.0065734	0.0040911	0.0339681	0.0078265	0.0059662	0.5119851
166	482241	3631679	0.1465614	0.0169029	0.0011601	0.0025422	0.0016164	0.0013033	0.0008112	0.0067349	0.0015518	0.0011829	0.1296585
167	482291	3631679	0.1620199	0.0191484	0.0013142	0.0028799	0.0018312	0.0014765	0.0009189	0.0076296	0.0017579	0.0013401	0.1428715
168	482341	3631679	0.1806413	0.0219129	0.001504	0.0032957	0.0020956	0.0016896	0.0010516	0.0087312	0.0020117	0.0015336	0.1587284
169	482391	3631679	0.202978	0.0252951	0.0017361	0.0038044	0.002419	0.0019504	0.0012139	0.0100788	0.0023222	0.0017703	0.1776829
170	482441	3631679	0.2300072	0.0294376	0.0020204	0.0044275	0.0028152	0.0022698	0.0014127	0.0117294	0.0027025	0.0020602	0.2005696
171	482491	3631679	0.2626239	0.0344261	0.0023628	0.0051777	0.0032922	0.0026545	0.0016521	0.013717	0.0031605	0.0024093	0.2281978
172	482541	3631679	0.3007418	0.039693	0.0027243	0.0059699	0.0037959	0.0030606	0.0019048	0.0158156	0.003644	0.0027779	0.2610488
173	482591	3631679	0.3460129	0.0460843	0.003163	0.0069311	0.0044071	0.0035534	0.0022116	0.0183622	0.0042308	0.0032252	0.2999287
174	482641	3631679	0.4017855	0.0532119	0.0036521	0.0080031	0.0050887	0.004103	0.0025536	0.0212022	0.0048852	0.003724	0.3485737
175	482691	3631679	0.4742255	0.0619275	0.0042503	0.009314	0.0059222	0.004775	0.0029719	0.0246749	0.0056853	0.004334	0.4122981
176	482241	3631729	0.1392333	0.0156553	0.0010745	0.0023546	0.0014971	0.0012071	0.0007513	0.0062378	0.0014373	0.0010956	0.1235779
177	482291	3631729	0.1531312	0.0175773	0.0012064	0.0026436	0.0016809	0.0013553	0.0008435	0.0070036	0.0016137	0.0012301	0.1355539
178	482341	3631729	0.1692725	0.0198462	0.0013621	0.0029849	0.0018979	0.0015303	0.0009524	0.0079077	0.001822	0.0013889	0.1494263
179	482391	3631729	0.1883929	0.0225494	0.0015477	0.0033915	0.0021564	0.0017387	0.0010821	0.0089848	0.0020702	0.0015781	0.1658434
180	482441	3631729	0.210956	0.0257379	0.0017665	0.003871	0.0024613	0.0019845	0.0012351	0.0102552	0.0023629	0.0018013	0.1852182
181	482491	3631729	0.2372315	0.029407	0.0020183	0.0044229	0.0028122	0.0022675	0.0014112	0.0117172	0.0026997	0.002058	0.2078245
182	482541	3631729	0.2672693	0.033127	0.0022736	0.0049823	0.003168	0.0025543	0.0015897	0.0131994	0.0030412	0.0023184	0.2341423
183	482591	3631729	0.3021196	0.0372409	0.002556	0.0056011	0.0035614	0.0028715	0.0017872	0.0148385	0.0034189	0.0026063	0.2648788
184	482641	3631729	0.342296	0.0416593	0.0028592	0.0062656	0.0039839	0.0032122	0.0019992	0.0165991	0.0038246	0.0029155	0.3006367
185	482691	3631729	0.3885177	0.0470352	0.0032282	0.0070742	0.004498	0.0036267	0.0022572	0.0187411	0.0043181	0.0032917	0.3414826
186	483141	3631729	0.4495049	0.0382485	0.0026251	0.0057526	0.0036577	0.0029492	0.0018355	0.01524	0.0035114	0.0026768	0.4112564
187	483191	3631729	0.4374783	0.0341333	0.0023427	0.0051337	0.0032642	0.0026319	0.001638	0.0136003	0.0031336	0.0023888	0.403345
188	483241	3631729	0.4277103	0.0303259	0.0020814	0.0045611	0.0029001	0.0023383	0.0014553	0.0120833	0.0027841	0.0021223	0.3973844
189	482241	3631779	0.1319673	0.0144697	0.0009931	0.0021763	0.0013838	0.0011157	0.0006944	0.0057654	0.0013284	0.0010127	0.1174976
190	482291	3631779	0.1442328	0.0160779	0.0011035	0.0024181	0.0015375	0.0012397	0.0007716	0.0064062	0.001476	0.0011252	0.1281549
191	482341	3631779	0.1582961	0.0179327	0.0012308	0.0026971	0.0017149	0.0013827	0.0008606	0.0071453	0.0016463	0.001255	0.1403634
192	482391	3631779	0.1745457	0.0200712	0.0013776	0.0030187	0.0019194	0.0015476	0.0009632	0.0079973	0.0018426	0.0014047	0.1544745

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential - Construction Cancer Risk Summary

			327	Receptor									
			3.06	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
193	482441	3631779	0.1932748	0.022507	0.0015447	0.0033851	0.0021524	0.0017354	0.0010801	0.0089679	0.0020663	0.0015751	0.1707678
194	482491	3631779	0.2142456	0.0249879	0.001715	0.0037582	0.0023896	0.0019267	0.0011992	0.0099564	0.002294	0.0017488	0.1892578
195	482541	3631779	0.2382263	0.0277564	0.001905	0.0041746	0.0026544	0.0021402	0.001332	0.0110595	0.0025482	0.0019425	0.2104699
196	482591	3631779	0.264745	0.0305496	0.0020967	0.0045947	0.0029215	0.0023556	0.0014661	0.0121724	0.0028046	0.002138	0.2341954
197	482691	3631779	0.3257574	0.0368293	0.0025277	0.0055392	0.003522	0.0028398	0.0017674	0.0146746	0.0033811	0.0025775	0.2889281
198	482991	3631779	0.4022172	0.0394876	0.0027102	0.005939	0.0037762	0.0030447	0.001895	0.0157337	0.0036252	0.0027635	0.3627296
199	483041	3631779	0.3960795	0.0373765	0.0025653	0.0056215	0.0035744	0.002882	0.0017937	0.0148926	0.0034314	0.0026158	0.3587029
200	483091	3631779	0.3891027	0.0348617	0.0023927	0.0052433	0.0033339	0.0026881	0.001673	0.0138906	0.0032005	0.0024398	0.354241
201	483141	3631779	0.3813562	0.0321168	0.0022043	0.0048304	0.0030714	0.0024764	0.0015413	0.0127969	0.0029485	0.0022477	0.3492394
202	483191	3631779	0.3734815	0.0293216	0.0020125	0.00441	0.002804	0.0022609	0.0014071	0.0116831	0.0026919	0.0020521	0.34416
203	483241	3631779	0.3659593	0.026604	0.0018259	0.0040013	0.0025442	0.0020513	0.0012767	0.0106003	0.0024424	0.0018619	0.3393553
204	482241	3631829	0.1250081	0.013361	0.000917	0.0020095	0.0012777	0.0010302	0.0006412	0.0053237	0.0012266	0.0009351	0.1116471
205	482291	3631829	0.1356739	0.0146823	0.0010077	0.0022082	0.0014041	0.0011321	0.0007046	0.0058501	0.0013479	0.0010275	0.1209916
206	482341	3631829	0.1479115	0.0161921	0.0011113	0.0024353	0.0015485	0.0012485	0.000777	0.0064517	0.0014865	0.0011332	0.1317195
207	482391	3631829	0.1619877	0.0179086	0.0012291	0.0026935	0.0017126	0.0013809	0.0008594	0.0071356	0.0016441	0.0012533	0.1440791
208	482441	3631829	0.1774456	0.0197334	0.0013544	0.0029679	0.0018871	0.0015216	0.000947	0.0078627	0.0018116	0.001381	0.1577122
209	482491	3631829	0.1946141	0.0216129	0.0014834	0.0032506	0.0020669	0.0016665	0.0010372	0.0086116	0.0019842	0.0015126	0.1730012
210	482541	3631829	0.2137631	0.0235994	0.0016197	0.0035494	0.0022568	0.0018197	0.0011325	0.0094031	0.0021666	0.0016516	0.1901637
211	482641	3631829	0.2549386	0.0276833	0.0019	0.0041636	0.0026474	0.0021346	0.0013285	0.0110304	0.0025415	0.0019374	0.2272553
212	482691	3631829	0.27466	0.0293385	0.0020136	0.0044126	0.0028057	0.0022622	0.0014079	0.0116899	0.0026934	0.0020532	0.2453214
213	482891	3631829	0.328252	0.0325563	0.0022345	0.0048965	0.0031134	0.0025103	0.0015624	0.012972	0.0029889	0.0022784	0.2956957
214	482941	3631829	0.3331041	0.0322968	0.0022167	0.0048575	0.0030886	0.0024903	0.0015499	0.0128686	0.002965	0.0022603	0.3008073
215	482991	3631829	0.3380002	0.0317248	0.0021774	0.0047715	0.0030339	0.0024462	0.0015225	0.0126407	0.0029125	0.0022202	0.3062754
216	483041	3631829	0.3361914	0.0304974	0.0020932	0.0045869	0.0029165	0.0023515	0.0014636	0.0121516	0.0027998	0.0021343	0.305694
217	483091	3631829	0.3323236	0.0289113	0.0019843	0.0043483	0.0027648	0.0022292	0.0013874	0.0115197	0.0026542	0.0020233	0.3034122
218	483141	3631829	0.3275575	0.0271068	0.0018604	0.0040769	0.0025922	0.0020901	0.0013008	0.0108006	0.0024886	0.0018971	0.3004507
219	483191	3631829	0.3222395	0.0251959	0.0017293	0.0037895	0.0024095	0.0019428	0.0012091	0.0100393	0.0023131	0.0017633	0.2970436
220	483241	3631829	0.3102166	0.0230966	0.0015852	0.0034738	0.0022088	0.0017809	0.0011084	0.0092028	0.0021204	0.0016164	0.28712
221	482241	3631879	0.1181075	0.0123019	0.0008443	0.0018502	0.0011764	0.0009486	0.0005904	0.0049017	0.0011294	0.0008609	0.1058056
222	482291	3631879	0.1277023	0.0134171	0.0009209	0.002018	0.0012831	0.0010345	0.0006439	0.005346	0.0012318	0.000939	0.1142852
223	482341	3631879	0.1385142	0.014664	0.0010065	0.0022055	0.0014023	0.0011307	0.0007037	0.0058429	0.0013462	0.0010263	0.1238501
224	482391	3631879	0.150191	0.0159886	0.0010974	0.0024047	0.001529	0.0012328	0.0007673	0.0063706	0.0014678	0.001119	0.1342024
225	482441	3631879	0.1631446	0.0173758	0.0011926	0.0026133	0.0016617	0.0013398	0.0008339	0.0069233	0.0015952	0.001216	0.1457688
226	482541	3631879	0.1929809	0.0203731	0.0013983	0.0030641	0.0019483	0.0015709	0.0009777	0.0081176	0.0018704	0.0014258	0.1726078
227	482591	3631879	0.209279	0.0218086	0.0014968	0.00328	0.0020856	0.0016816	0.0010466	0.0086896	0.0020022	0.0015263	0.1874704
228	482641	3631879	0.2226461	0.0229192	0.001573	0.0034471	0.0021918	0.0017672	0.0010999	0.0091321	0.0021041	0.001604	0.1997269
229	482691	3631879	0.238767	0.0241707	0.0016589	0.0036353	0.0023115	0.0018637	0.0011599	0.0096308	0.002219	0.0016916	0.2145963
230	482891	3631879	0.2766805	0.0262596	0.0018023	0.0039495	0.0025112	0.0020248	0.0012602	0.0104631	0.0024108	0.0018378	0.2504209
231	482941	3631879	0.2819524	0.0261911	0.0017976	0.0039392	0.0025047	0.0020195	0.0012569	0.0104358	0.0024045	0.001833	0.2557612
232	482991	3631879	0.2875319	0.0259531	0.0017813	0.0039034	0.0024819	0.0020011	0.0012455	0.010341	0.0023826	0.0018163	0.2615788
233	483041	3631879	0.2869653	0.0251927	0.0017291	0.003789	0.0024092	0.0019425	0.001209	0.010038	0.0023128	0.0017631	0.2617727
234	483091	3631879	0.2855115	0.0241994	0.0016609	0.0036396	0.0023142	0.0018659	0.0011613	0.0096422	0.0022216	0.0016936	0.2613121
235	483141	3631879	0.2830683	0.0230125	0.0015794	0.0034611	0.0022007	0.0017744	0.0011044	0.0091693	0.0021127	0.0016105	0.2600559
236	483191	3631879	0.2756566	0.0215647	0.0014801	0.0032434	0.0020622	0.0016628	0.0010349	0.0085924	0.0019798	0.0015092	0.2540919
237	483241	3631879	0.2728872	0.0202486	0.0013897	0.0030454	0.0019364	0.0015613	0.0009717	0.008068	0.0018589	0.0014171	0.2526386
238	482748	3631148	0.7979515	0.1168708	0.0080213	0.0175775	0.0111765	0.0090115	0.0056086	0.0465669	0.0107294	0.0081791	0.6810807
239	482758	3631148	0.8206888	0.118991	0.0081668	0.0178964	0.0113792	0.0091749	0.0057103	0.0474117	0.0109241	0.0083275	0.7016977
240	482768	3631148	0.8436057	0.1209841	0.0083036	0.0181962	0.0115698	0.0093286	0.0058059	0.0482058	0.011107	0.008467	0.7226216

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327	Receptor
3.06	Max

Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
241	482778	3631148	0.8666449	0.1228349	0.0084307	0.0184745	0.0117468	0.0094713	0.0058948	0.0489433	0.0112769	0.0085965	0.74381
242	482788	3631148	0.890687	0.1246395	0.0085545	0.018746	0.0119194	0.0096105	0.0059814	0.0496623	0.0114426	0.0087228	0.7660475
243	482798	3631148	0.9153594	0.1263384	0.0086711	0.0190015	0.0120819	0.0097415	0.0060629	0.0503393	0.0115986	0.0088417	0.789021
244	482748	3631158	0.8284434	0.1275384	0.0087535	0.019182	0.0121966	0.009834	0.0061205	0.0508174	0.0117088	0.0089257	0.700905
245	482758	3631158	0.8544809	0.1302077	0.0089367	0.0195834	0.0124519	0.0100398	0.0062486	0.051881	0.0119538	0.0091125	0.7242732
246	482768	3631158	0.8798228	0.1325692	0.0090988	0.0199386	0.0126777	0.0102219	0.0063619	0.0528219	0.0121706	0.0092778	0.7472536
247	482778	3631158	0.9053889	0.134754	0.0092487	0.0202672	0.0128867	0.0103904	0.0064668	0.0536924	0.0123712	0.0094307	0.770635
248	482788	3631158	0.9319423	0.1368487	0.0093925	0.0205822	0.013087	0.0105519	0.0065673	0.0545271	0.0125635	0.0095773	0.7950935
249	482798	3631158	0.9591697	0.1387948	0.009526	0.0208749	0.0132731	0.0107019	0.0066607	0.0553025	0.0127422	0.0097135	0.8203749
250	482808	3631158	0.9872859	0.1406026	0.0096501	0.0211468	0.013446	0.0108413	0.0067474	0.0560228	0.0129081	0.00984	0.8466832
251	482818	3631158	1.0154276	0.1421711	0.0097578	0.0213827	0.013596	0.0109623	0.0068227	0.0566478	0.0130521	0.0099498	0.8732565
252	482758	3631168	0.8852003	0.1423009	0.0097667	0.0214023	0.0136084	0.0109723	0.0068289	0.0566995	0.013064	0.0099589	0.7428994
253	482768	3631168	0.9154771	0.1455206	0.0099877	0.0218865	0.0139163	0.0112205	0.0069834	0.0579824	0.0133596	0.0101842	0.7699565
254	482778	3631168	0.9462244	0.1484913	0.0101916	0.0223333	0.0142004	0.0114496	0.007126	0.059166	0.0136324	0.0103921	0.7977331
255	482788	3631168	0.976071	0.1510152	0.0103648	0.0227129	0.0144417	0.0116442	0.0072471	0.0601717	0.0138641	0.0105687	0.8250558
256	482798	3631168	1.0058997	0.1532326	0.010517	0.0230464	0.0146538	0.0118152	0.0073535	0.0610552	0.0140676	0.0107239	0.8526671
257	482808	3631168	1.0364573	0.1552328	0.0106542	0.0233472	0.0148451	0.0119694	0.0074495	0.0618522	0.0142513	0.0108639	0.8812246
258	482818	3631168	1.0682576	0.1570523	0.0107791	0.0236209	0.0150191	0.0121097	0.0075368	0.0625772	0.0144183	0.0109912	0.9112052
259	482828	3631168	1.1024335	0.1587695	0.010897	0.0238792	0.0151833	0.0122421	0.0076192	0.0632614	0.0145759	0.0111114	0.943664
260	482838	3631168	1.1380035	0.1602173	0.0109964	0.0240969	0.0153217	0.0123537	0.0076887	0.0638382	0.0147089	0.0112127	0.9777862
261	482778	3631178	0.9867015	0.1640031	0.0112562	0.0246663	0.0156838	0.0126456	0.0078704	0.0653467	0.0150564	0.0114777	0.8226983
262	482788	3631178	1.0203846	0.1671375	0.0114713	0.0251377	0.0159835	0.0128873	0.0080208	0.0665956	0.0153442	0.011697	0.8532471
263	482798	3631178	1.0552226	0.170007	0.0116683	0.0255693	0.0162579	0.0131086	0.0081585	0.0677389	0.0156076	0.0118979	0.8852156
264	482808	3631178	1.0888241	0.1722766	0.011824	0.0259106	0.016475	0.0132836	0.0082674	0.0686432	0.015816	0.0120567	0.9165475
265	482818	3631178	1.1256823	0.1745103	0.0119773	0.0262466	0.0166886	0.0134558	0.0083746	0.0695332	0.016021	0.012213	0.9511721
266	482828	3631178	1.1665477	0.1766089	0.0121214	0.0265622	0.0168893	0.0136176	0.0084754	0.0703695	0.0162137	0.0123599	0.9899387
267	482838	3631178	1.2038844	0.177942	0.0122129	0.0267627	0.0170168	0.0137204	0.0085393	0.0709006	0.0163361	0.0124532	1.0259424
268	482848	3631178	1.2422224	0.1789137	0.0122796	0.0269089	0.0171097	0.0137953	0.008586	0.0712878	0.0164253	0.0125212	1.0633087
269	482858	3631178	1.2812767	0.1794922	0.0123193	0.0269959	0.017165	0.0138399	0.0086137	0.0715183	0.0164784	0.0125617	1.1017845
270	482868	3631178	1.322279	0.17974	0.0123363	0.0270332	0.0171887	0.013859	0.0086256	0.071617	0.0165012	0.012579	1.142539
271	482798	3631188	1.1085636	0.1898102	0.0130274	0.0285477	0.0181517	0.0146355	0.0091089	0.0756295	0.0174257	0.0132838	0.9187535
272	482808	3631188	1.1462756	0.1925004	0.0132121	0.0289523	0.018409	0.014843	0.009238	0.0767014	0.0176726	0.013472	0.9537753
273	482818	3631188	1.1871114	0.1950197	0.013385	0.0293312	0.0186499	0.0150372	0.0093589	0.0777052	0.0179039	0.0136484	0.9920917
274	482828	3631188	1.2328903	0.1974171	0.0135495	0.0296918	0.0188792	0.0152221	0.0094739	0.0786604	0.018124	0.0138161	1.0354732
275	482838	3631188	1.2751615	0.1987755	0.0136428	0.0298961	0.0190091	0.0153268	0.0095391	0.0792017	0.0182487	0.0139112	1.0763859
276	482848	3631188	1.3182501	0.1996449	0.0137024	0.0300269	0.0190922	0.0153938	0.0095808	0.0795481	0.0183285	0.013972	1.1186053
277	482858	3631188	1.3631868	0.2000577	0.0137308	0.030089	0.0191317	0.0154257	0.0096006	0.0797126	0.0183664	0.0140009	1.1631291
278	482868	3631188	1.4108498	0.2000342	0.0137292	0.0300854	0.0191295	0.0154239	0.0095995	0.0797032	0.0183643	0.0139993	1.2108155
279	482878	3631188	1.4590193	0.1995092	0.0136931	0.0300065	0.0190793	0.0153834	0.0095743	0.079494	0.0183161	0.0139626	1.25951
280	482888	3631188	1.5105233	0.197284	0.0135404	0.0296718	0.0188665	0.0152118	0.0094675	0.0786074	0.0181118	0.0138068	1.3132393
281	482898	3631188	1.5615819	0.1958349	0.0134409	0.0294539	0.0187279	0.0151001	0.009398	0.07803	0.0179788	0.0137054	1.365747
282	482818	3631198	1.2554988	0.2196528	0.0150757	0.0330361	0.0210056	0.0169366	0.010541	0.0875202	0.0201654	0.0153723	1.035846
283	482828	3631198	1.3012837	0.2216843	0.0152151	0.0333416	0.0211999	0.0170932	0.0106385	0.0883297	0.0203519	0.0155145	1.0795994
284	482838	3631198	1.3500405	0.2232143	0.0153201	0.0335718	0.0213462	0.0172112	0.0107119	0.0889393	0.0204924	0.0156215	1.1268262
285	482848	3631198	1.400192	0.2240315	0.0153762	0.0336947	0.0214243	0.0172742	0.0107511	0.0892649	0.0205674	0.0156787	1.1761605
286	482858	3631198	1.4526678	0.2242193	0.0153891	0.0337229	0.0214423	0.0172887	0.0107601	0.0893397	0.0205846	0.0156919	1.2284485
287	482868	3631198	1.50744	0.2237484	0.0153568	0.0336521	0.0213973	0.0172524	0.0107375	0.0891521	0.0205414	0.0156589	1.2836916
288	482878	3631198	1.5627906	0.2226711	0.0152828	0.03349	0.0212942	0.0171693	0.0106858	0.0887228	0.0204425	0.0155835	1.3401195

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential - Construction Cancer Risk Summary

327	Receptor
3.06	Max

Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
289	482888	3631198	1.623637	0.2189641	0.0150284	0.0329325	0.0209398	0.0168835	0.0105079	0.0872458	0.0201022	0.0153241	1.4046729
290	482898	3631198	1.6849339	0.2170148	0.0148946	0.0326393	0.0207533	0.0167332	0.0104144	0.0864691	0.0199232	0.0151877	1.4679191
291	482908	3631198	1.7484393	0.2148378	0.0147452	0.0323119	0.0205452	0.0165653	0.0103099	0.0856017	0.0197233	0.0150353	1.5336014
292	482918	3631198	1.813071	0.2120752	0.0145556	0.0318964	0.020281	0.0163523	0.0101774	0.0845009	0.0194697	0.014842	1.6009958
293	482848	3631208	1.4902915	0.2530517	0.017368	0.0380593	0.0241996	0.0195118	0.0121438	0.1008279	0.0232316	0.0177097	1.2372398
294	482858	3631208	1.5500905	0.2527609	0.017348	0.0380156	0.0241718	0.0194894	0.0121298	0.100712	0.0232049	0.0176893	1.2973296
295	482868	3631208	1.6125013	0.2516228	0.0172699	0.0378444	0.0240629	0.0194017	0.0120752	0.1002586	0.0231004	0.0176097	1.3608784
296	482878	3631208	1.6803148	0.2483	0.0170418	0.0373447	0.0237452	0.0191454	0.0119158	0.0989346	0.0227954	0.0173771	1.4320148
297	482888	3631208	1.7494241	0.2449687	0.0168132	0.0368437	0.0234266	0.0188886	0.0117559	0.0976073	0.0224895	0.017144	1.5044554
298	482898	3631208	1.8233743	0.2422362	0.0166256	0.0364327	0.0231653	0.0186779	0.0116248	0.0965185	0.0222387	0.0169528	1.5811381
299	482908	3631208	1.9011106	0.2388592	0.0163939	0.0359248	0.0228423	0.0184175	0.0114627	0.095173	0.0219286	0.0167164	1.6622514
300	482918	3631208	1.9823924	0.2350134	0.0161299	0.0353463	0.0224746	0.018121	0.0112781	0.0936406	0.0215756	0.0164473	1.747379
301	482928	3631208	2.066357	0.2307404	0.0158366	0.0347037	0.0220659	0.0177915	0.0110731	0.091938	0.0211833	0.0161482	1.8356166
302	482938	3631208	2.1751298	0.2260336	0.0155136	0.0339958	0.0216158	0.0174286	0.0108472	0.0900626	0.0207512	0.0158188	1.9252946
303	482948	3631208	2.2899225	0.2211176	0.0151762	0.0332564	0.0211457	0.0170495	0.0106113	0.0881038	0.0202999	0.0154748	2.013282
304	482868	3631218	1.7285897	0.2845679	0.019531	0.0427994	0.0272135	0.0219419	0.0136562	0.1133855	0.026125	0.0199153	1.4440219
305	482878	3631218	1.8049772	0.2815183	0.0193217	0.0423408	0.0269219	0.0217068	0.0135099	0.1121704	0.025845	0.0197019	1.5234589
306	482888	3631218	1.8890591	0.2766753	0.0189893	0.0416124	0.0264587	0.0213334	0.0132775	0.1102407	0.0254004	0.019363	1.6123838
307	482898	3631218	1.9779249	0.271666	0.0186455	0.040859	0.0259797	0.0209471	0.0130371	0.1082447	0.0249405	0.0190124	1.706259
308	482908	3631218	2.0734959	0.2666084	0.0182984	0.0400983	0.025496	0.0205571	0.0127944	0.1062296	0.0244762	0.0186585	1.8068875
309	482918	3631218	2.1766295	0.2613819	0.0179397	0.0393122	0.0249962	0.0201541	0.0125436	0.1041471	0.0239964	0.0182927	1.9152476
310	482928	3631218	2.3175692	0.2555893	0.0175421	0.038441	0.0244423	0.0197075	0.0122656	0.101839	0.0234646	0.0178873	2.030722
311	482938	3631218	2.4883937	0.2496168	0.0171322	0.0375427	0.0238711	0.019247	0.0119789	0.0994593	0.0229162	0.0174693	2.1516218
312	482948	3631218	2.6596137	0.2430872	0.0166841	0.0365607	0.0232467	0.0187435	0.0116656	0.0968576	0.0223168	0.0170123	2.2757077
313	482958	3631218	2.8165433	0.2362453	0.0162145	0.0355316	0.0225924	0.018216	0.0113373	0.0941315	0.0216887	0.0165335	2.3974611
314	482968	3631218	2.9397934	0.2292821	0.0157366	0.0344844	0.0219265	0.017679	0.0110031	0.091357	0.0210494	0.0160462	2.5073758
315	482978	3631218	3.0010956	0.2221884	0.0152497	0.0334175	0.0212481	0.0171321	0.0106627	0.0885305	0.0203982	0.0155497	2.5858157
316	482898	3631228	2.1482469	0.3066614	0.0210474	0.0461223	0.0293263	0.0236455	0.0147165	0.1221886	0.0281533	0.0214615	1.8415854
317	482908	3631228	2.2672962	0.299481	0.0205546	0.0450424	0.0286397	0.0230918	0.0143719	0.1193276	0.0274941	0.020959	1.9678151
318	482918	3631228	2.4061571	0.2919204	0.0200357	0.0439053	0.0279166	0.0225088	0.0140091	0.1163151	0.0268	0.0204299	2.1071004
319	482928	3631228	2.6310833	0.2841244	0.0195006	0.0427327	0.0271711	0.0219077	0.0136349	0.1132088	0.0260842	0.0198843	2.2596596
320	482938	3631228	2.8774233	0.276162	0.0189541	0.0415352	0.0264096	0.0212938	0.0132528	0.1100362	0.0253533	0.0193271	2.4251026
321	482948	3631228	2.8699091	0.2677425	0.0183762	0.0402689	0.0256045	0.0206446	0.0128488	0.1066814	0.0245803	0.0187378	2.6021666
322	482958	3631228	2.0567923	0.25919	0.0177893	0.0389825	0.0247866	0.0199851	0.0124384	0.1032737	0.0237951	0.0181393	1.7976023
323	482968	3631228	2.0955765	0.2505096	0.0171935	0.037677	0.0239565	0.0193158	0.0120218	0.099815	0.0229982	0.0175318	1.8450669
324	482978	3631228	2.1332803	0.2416942	0.0165884	0.0363512	0.0231135	0.0186361	0.0115988	0.0963025	0.0221889	0.0169148	1.8915861
325	482918	3631238	2.6882094	0.3268226	0.0224312	0.0491546	0.0312544	0.0252	0.015684	0.1302218	0.0300042	0.0228725	2.3245032
326	482928	3631238	2.8422376	0.3165985	0.0217294	0.0476169	0.0302766	0.0244117	0.0151934	0.126148	0.0290656	0.022157	2.525639
327	482938	3631238	3.0624485	0.3059779	0.0210005	0.0460195	0.029261	0.0235928	0.0146837	0.1219163	0.0280905	0.0214137	2.7564706
328	482948	3631238	2.240341	0.29536	0.0202717	0.0444226	0.0282456	0.0227741	0.0141741	0.1176856	0.0271157	0.0206706	1.944981
329	482958	3631238	2.2877448	0.2846116	0.019534	0.042806	0.0272177	0.0219453	0.0136583	0.1134029	0.026129	0.0199184	2.0031333
330	482968	3631238	2.3307394	0.273794	0.0187916	0.041179	0.0261832	0.0211112	0.0131392	0.1090926	0.0251359	0.0191613	2.0569454
331	482938	3631248	2.4544023	0.3397173	0.0233162	0.051094	0.0324875	0.0261943	0.0163028	0.1353596	0.031188	0.0237749	2.114685
332	482948	3631248	2.5239948	0.3262135	0.0223893	0.049063	0.0311961	0.025153	0.0156548	0.1299791	0.0299483	0.0228299	2.1977814
333	482958	3631248	2.5778477	0.3127455	0.021465	0.0470374	0.0299082	0.0241146	0.0150085	0.1246128	0.0287118	0.0218873	2.2651022
334	482968	3631248	2.6205728	0.2993102	0.0205429	0.0450167	0.0286233	0.0230786	0.0143637	0.1192595	0.0274784	0.0209471	2.3212626
335	482662	3631168	0.6610917	0.1131626	0.0077668	0.0170198	0.0108218	0.0087255	0.0054306	0.0450894	0.010389	0.0079196	0.5479291
336	482672	3631168	0.6809935	0.1161293	0.0079704	0.017466	0.0111056	0.0089543	0.005573	0.0462715	0.0106613	0.0081272	0.5648642

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential - Construction Cancer Risk Summary

			327	Receptor									
			3.06	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
337	482682	3631168	0.7013389	0.1190641	0.0081718	0.0179074	0.0113862	0.0091806	0.0057138	0.0474408	0.0109308	0.0083326	0.5822748
338	482692	3631168	0.7222682	0.1219943	0.008373	0.0183481	0.0116664	0.0094065	0.0058544	0.0486084	0.0111998	0.0085377	0.6002739
339	482662	3631178	0.6822179	0.1226054	0.0084149	0.01844	0.0117249	0.0094536	0.0058838	0.0488518	0.0112559	0.0085805	0.5596126
340	482672	3631178	0.7037618	0.1261988	0.0086615	0.0189805	0.0120685	0.0097307	0.0060562	0.0502836	0.0115858	0.008832	0.577563
341	482682	3631178	0.7258259	0.1297623	0.0089061	0.0195164	0.0124093	0.0100055	0.0062272	0.0517035	0.0119129	0.0090813	0.5960636
342	482692	3631178	0.7486013	0.1333296	0.0091509	0.020053	0.0127504	0.0102805	0.0063984	0.0531249	0.0122404	0.009331	0.6152717
343	482662	3631188	0.7044092	0.1331007	0.0091352	0.0200185	0.0127286	0.0102629	0.0063874	0.0530337	0.0122194	0.009315	0.5713085
344	482672	3631188	0.7278971	0.1375087	0.0094378	0.0206815	0.0131501	0.0106028	0.006599	0.0547901	0.0126241	0.0096235	0.5903884
345	482682	3631188	0.7517275	0.1418352	0.0097347	0.0213322	0.0135638	0.0109364	0.0068066	0.056514	0.0130213	0.0099263	0.6098923
346	482692	3631188	0.7781459	0.1465759	0.0100601	0.0220452	0.0140172	0.0113019	0.0070341	0.0584028	0.0134565	0.010258	0.6315701
347	482662	3631198	0.7274718	0.1446826	0.0099301	0.0217605	0.0138361	0.0111559	0.0069432	0.0576485	0.0132827	0.0101255	0.5827892
348	482672	3631198	0.7550739	0.15059	0.0103356	0.0226489	0.0144011	0.0116114	0.0072267	0.0600023	0.013825	0.010539	0.6044839
349	482682	3631198	0.7818856	0.1561341	0.0107161	0.0234828	0.0149313	0.0120389	0.0074928	0.0622113	0.014334	0.010927	0.6257515
350	482692	3631198	0.8094196	0.1616586	0.0110953	0.0243137	0.0154596	0.0124649	0.0077579	0.0644125	0.0148412	0.0113136	0.647761
351	482662	3631208	0.7533804	0.157921	0.0108388	0.0237515	0.0151021	0.0121767	0.0075785	0.0629233	0.0144981	0.011052	0.5954594
352	482672	3631208	0.7833086	0.1651268	0.0113333	0.0248353	0.0157912	0.0127323	0.0079243	0.0657944	0.0151596	0.0115563	0.6181818
353	482682	3631208	0.8123594	0.1719322	0.0118004	0.0258589	0.016442	0.013257	0.0082509	0.068506	0.0157844	0.0120326	0.6404272
354	482692	3631208	0.8421519	0.1787252	0.0122666	0.0268805	0.0170917	0.0137808	0.0085769	0.0712127	0.016408	0.012508	0.6634267
355	482662	3631218	0.7815014	0.172782	0.0118587	0.0259867	0.0165233	0.0133225	0.0082917	0.0688446	0.0158624	0.0120921	0.6087194
356	482672	3631218	0.8123569	0.1811265	0.0124314	0.0272417	0.0173213	0.013966	0.0086921	0.0721695	0.0166285	0.012676	0.6312304
357	482682	3631218	0.8446851	0.1897469	0.0130231	0.0285382	0.0181457	0.0146306	0.0091058	0.0756043	0.0174199	0.0132793	0.6549382
358	482692	3631218	0.8774042	0.1982786	0.0136087	0.0298214	0.0189616	0.0152885	0.0095153	0.0790037	0.0182031	0.0138764	0.6791256
359	482662	3631228	0.8123765	0.1895095	0.0130068	0.0285025	0.018123	0.0146123	0.0090944	0.0755097	0.0173981	0.0132627	0.6228669
360	482672	3631228	0.8459799	0.199774	0.0137113	0.0300463	0.0191046	0.0154038	0.009587	0.0795995	0.0183404	0.0139811	0.6462058
361	482682	3631228	0.8802334	0.2101461	0.0144232	0.0316063	0.0200965	0.0162035	0.0100848	0.0837323	0.0192926	0.014707	0.6700873
362	482692	3631228	0.9162497	0.2209102	0.015162	0.0332252	0.0211259	0.0170335	0.0106013	0.0880212	0.0202808	0.0154603	0.6953395
363	482662	3631238	0.8458038	0.2081042	0.014283	0.0312992	0.0199012	0.0160461	0.0099868	0.0829187	0.0191052	0.0145641	0.6376996
364	482672	3631238	0.8839229	0.2212226	0.0151834	0.0332722	0.0211557	0.0170576	0.0106163	0.0881457	0.0203095	0.0154821	0.6627004
365	482682	3631238	0.9228305	0.2346475	0.0161048	0.0352913	0.0224396	0.0180928	0.0112606	0.0934948	0.021542	0.0164217	0.688183
366	482692	3631238	0.9632062	0.2485237	0.0170572	0.0373783	0.0237666	0.0191627	0.0119265	0.0990238	0.0228159	0.0173928	0.7146824
367	482662	3631248	0.8808458	0.2282145	0.0156633	0.0343238	0.0218244	0.0175967	0.0109519	0.0909316	0.0209514	0.0159715	0.6526313
368	482672	3631248	0.9227074	0.2443427	0.0167702	0.0367495	0.0233667	0.0188403	0.0117258	0.0973578	0.0224321	0.0171002	0.6783647
369	482682	3631248	0.966463	0.2614217	0.0179424	0.0393182	0.025	0.0201572	0.0125455	0.1041629	0.024	0.0182955	0.7050413
370	482692	3631248	1.0125011	0.2795279	0.0191851	0.0420414	0.0267315	0.0215533	0.0134144	0.1113773	0.0256623	0.0195626	0.7329732
371	482662	3631258	0.9182119	0.249922	0.0171532	0.0375886	0.0239003	0.0192705	0.0119936	0.0995809	0.0229443	0.0174907	0.6682899
372	482672	3631258	0.9657369	0.2702195	0.0185462	0.0406414	0.0258413	0.0208356	0.0129677	0.1076684	0.0248077	0.0189112	0.6955174
373	482682	3631258	1.016395	0.2924004	0.0200686	0.0439774	0.0279625	0.0225459	0.0140321	0.1165063	0.026844	0.0204635	0.7239946
374	482692	3631258	1.0692053	0.3160318	0.0216905	0.0475316	0.0302224	0.024368	0.0151662	0.1259222	0.0290135	0.0221173	0.7531735
375	482662	3631268	0.9577913	0.2729364	0.0187327	0.04105	0.0261012	0.0210451	0.013098	0.1087509	0.0250571	0.0191013	0.6848549
376	482672	3631268	1.0113722	0.2980221	0.0204545	0.044823	0.0285001	0.0229793	0.0143019	0.1187463	0.0273601	0.0208569	0.71335
377	482682	3631268	1.0687047	0.3258665	0.0223655	0.0490108	0.0311629	0.0251263	0.0156381	0.1298408	0.0299164	0.0228056	0.7428382
378	482692	3631268	1.1307288	0.3570129	0.0245032	0.0536952	0.0341415	0.0275279	0.0171328	0.142251	0.0327758	0.0249854	0.773716
379	482662	3631278	0.998876	0.2965939	0.0203564	0.0446081	0.0283636	0.0228692	0.0142334	0.1181772	0.027229	0.020757	0.7022822
380	482672	3631278	1.060572	0.3277539	0.0224951	0.0492947	0.0313434	0.0252718	0.0157287	0.1305929	0.0300897	0.0229377	0.7328181
381	482682	3631278	1.1265829	0.3627839	0.0248993	0.0545632	0.0346934	0.0279728	0.0174098	0.1445505	0.0333056	0.0253892	0.763799
382	482692	3631278	1.1998028	0.403433	0.0276892	0.0606769	0.0385807	0.0311071	0.0193605	0.160747	0.0370375	0.0282341	0.7963698
383	482662	3631288	1.0403955	0.3199272	0.0219579	0.0481175	0.0305949	0.0246683	0.0153531	0.1274743	0.0293712	0.0223899	0.7204683
384	482672	3631288	1.1094699	0.357037	0.0245049	0.0536989	0.0341438	0.0275297	0.017134	0.1422606	0.032778	0.024987	0.7524329

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential - Construction Cancer Risk Summary

			327	Receptor									
			3.06	Max									
Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
385	482682	3631288	1.1859396	0.4004989	0.0274879	0.0602356	0.0383001	0.0308809	0.0192197	0.1595779	0.0367681	0.0280287	0.7854407
386	482692	3631288	1.2723815	0.4524514	0.0310536	0.0680493	0.0432684	0.0348868	0.0217129	0.1802783	0.0415376	0.0316646	0.8199301
387	482662	3631298	1.0817406	0.3420945	0.0234793	0.0514515	0.0327148	0.0263776	0.0164169	0.1363068	0.0314062	0.0239413	0.7396462
388	482672	3631298	1.1588072	0.3854136	0.0264525	0.0579668	0.0368575	0.0297177	0.0184957	0.1535672	0.0353832	0.026973	0.7733937
389	482682	3631298	1.2456822	0.4373824	0.0300193	0.0657829	0.0418273	0.0337248	0.0209897	0.1742741	0.0401542	0.03061	0.8082998
390	482692	3631298	1.3463446	0.5014861	0.034419	0.0754242	0.0479576	0.0386676	0.024066	0.1998161	0.0460393	0.0350962	0.8448585
391	482662	3631308	1.1225346	0.3623926	0.0248725	0.0545044	0.034656	0.0279427	0.017391	0.1443946	0.0332697	0.0253619	0.760142
392	482672	3631308	1.2076305	0.4116882	0.0282558	0.0619185	0.0393701	0.0317437	0.0197567	0.1640363	0.0377953	0.0288118	0.7959424
393	482682	3631308	1.3055436	0.4722637	0.0324134	0.0710291	0.045163	0.0364144	0.0226636	0.1881725	0.0433565	0.0330511	0.8332799
394	482692	3631308	1.4204356	0.5483197	0.0376334	0.0824681	0.0524364	0.0422788	0.0263135	0.2184768	0.0503389	0.0383739	0.8721158
395	482662	3631318	1.1614287	0.3797468	0.0260636	0.0571145	0.0363156	0.0292808	0.0182238	0.1513093	0.0348629	0.0265764	0.7816819
396	482672	3631318	1.2550838	0.4348096	0.0298427	0.065396	0.0415813	0.0335265	0.0208662	0.173249	0.039918	0.0304299	0.8202742
397	482682	3631318	1.3635541	0.5031772	0.0345351	0.0756786	0.0481193	0.038798	0.0241472	0.2004899	0.0461946	0.0352146	0.8603769
398	482692	3631318	1.4926159	0.5904649	0.040526	0.0888068	0.0564667	0.0455284	0.028336	0.2352695	0.0542081	0.0413234	0.902151
399	482662	3631328	1.198794	0.3940131	0.0270427	0.0592601	0.0376799	0.0303808	0.0189084	0.1569937	0.0361727	0.0275748	0.804781
400	482672	3631328	1.3010785	0.4542638	0.031178	0.0683219	0.0434417	0.0350265	0.0217998	0.1810005	0.041704	0.0317914	0.8468147
401	482682	3631328	1.4194133	0.529279	0.0363265	0.0796043	0.0506155	0.0408106	0.0253998	0.2108901	0.0485908	0.0370413	0.8901343
402	482692	3631328	1.5620983	0.6264882	0.0429984	0.0942247	0.0599117	0.0483061	0.0300648	0.2496229	0.0575152	0.0438445	0.9356101
403	482662	3631338	1.2349164	0.405111	0.0278044	0.0609293	0.0387412	0.0312365	0.019441	0.1614156	0.0371915	0.0283515	0.8298054
404	482672	3631338	1.34571	0.4697483	0.0322407	0.0706508	0.0449225	0.0362205	0.0225429	0.1871702	0.0431256	0.0328751	0.8759617
405	482682	3631338	1.4736756	0.5503676	0.0377739	0.0827761	0.0526322	0.0424367	0.0264118	0.2192928	0.0505269	0.0385172	0.9233081
406	482692	3631338	1.6288835	0.6556526	0.0450001	0.0986111	0.0627007	0.0505548	0.0314643	0.2612434	0.0601927	0.0458855	0.9732309
407	482662	3631348	1.2695408	0.4127936	0.0283317	0.0620848	0.0394759	0.0318289	0.0198097	0.1644767	0.0378968	0.0288891	0.8567472
408	482672	3631348	1.3886658	0.4808469	0.0330025	0.0723201	0.0459839	0.0370762	0.0230755	0.1915924	0.0441445	0.0336518	0.9078189
409	482682	3631348	1.5263104	0.5659988	0.0388468	0.085127	0.054127	0.043642	0.0271619	0.225521	0.0519619	0.0396111	0.9603116
410	482692	3631348	1.693959	0.6779235	0.0465286	0.1019607	0.0648305	0.052272	0.0325331	0.2701172	0.0622373	0.0474441	1.0160355
411	482662	3631358	1.302468	0.4169427	0.0286165	0.0627088	0.0398726	0.0321488	0.0200088	0.1661299	0.0382777	0.0291795	0.8855253
412	482672	3631358	1.4299091	0.4873953	0.0334519	0.073305	0.0466101	0.0375812	0.0233898	0.1942016	0.0447457	0.0341101	0.9425138
413	482682	3631358	1.57778	0.576082	0.0395388	0.0866436	0.0550913	0.0444194	0.0276458	0.2295386	0.0528876	0.0403168	1.001698
414	482692	3631358	1.7577862	0.6929619	0.0475608	0.1042225	0.0662686	0.0534316	0.0332548	0.2761092	0.0636179	0.0484966	1.0648243
415	482662	3631368	1.3333002	0.4174899	0.028654	0.0627911	0.039925	0.032191	0.0200351	0.166348	0.038328	0.0292178	0.9158103
416	482672	3631368	1.4698396	0.4895638	0.0336007	0.0736311	0.0468175	0.0377484	0.0234939	0.1950657	0.0449448	0.0342619	0.9802758
417	482682	3631368	1.628319	0.5804991	0.039842	0.0873079	0.0555137	0.04476	0.0278578	0.2312987	0.0532931	0.0406259	1.0478199
418	482692	3631368	1.819925	0.6999688	0.0480417	0.1052763	0.0669387	0.0539719	0.0335911	0.2789011	0.0642612	0.048987	1.1199562
419	482662	3631378	1.3613882	0.4144429	0.0284449	0.0623328	0.0396336	0.0319561	0.0198889	0.1651339	0.0380482	0.0290046	0.9469453
420	482672	3631378	1.5079208	0.4872597	0.0334426	0.0732846	0.0465971	0.0375707	0.0233833	0.1941476	0.0447332	0.0341006	1.0206611
421	482682	3631378	1.6770826	0.5787983	0.0397253	0.0870521	0.055351	0.0446289	0.0277762	0.2306209	0.053137	0.0405069	1.0982843
422	482692	3631378	1.8821412	0.6995358	0.048012	0.1052112	0.0668973	0.0539385	0.0335703	0.2787286	0.0642214	0.0489567	1.1826054
423	482662	3631388	1.38548	0.4078175	0.0279902	0.0613363	0.039	0.0314452	0.0195709	0.162494	0.03744	0.0285409	0.9776625
424	482672	3631388	1.542144	0.4801034	0.0329514	0.0722082	0.0459128	0.0370189	0.0230399	0.1912962	0.0440762	0.0335998	1.0620406
425	482682	3631388	1.7242651	0.5713609	0.0392148	0.0859335	0.0546398	0.0440554	0.0274192	0.2276576	0.0524542	0.0399864	1.1529042
426	482692	3631388	1.9461482	0.6922863	0.0475144	0.1041209	0.066204	0.0533795	0.0332224	0.27584	0.0635558	0.0484493	1.2538619
427	482662	3631398	1.4035439	0.3976567	0.0272928	0.0598081	0.0380283	0.0306618	0.0190833	0.1584455	0.0365072	0.0278298	1.0058871
428	482672	3631398	1.5708303	0.4683311	0.0321434	0.0704377	0.044787	0.0361112	0.0224749	0.1866055	0.0429955	0.0327759	1.1024992
429	482682	3631398	1.7676422	0.5579895	0.0382971	0.0839224	0.0533611	0.0430244	0.0267776	0.2223297	0.0512266	0.0390506	1.2096527
430	482692	3631398	2.0099154	0.677439	0.0464954	0.1018878	0.0647841	0.0522347	0.0325099	0.2699241	0.0621928	0.0474102	1.3324765
431	482662	3631408	1.4128652	0.3841229	0.0263639	0.0577726	0.036734	0.0296182	0.0184338	0.153053	0.0352647	0.0268826	1.0287423
432	482672	3631408	1.5907119	0.4521168	0.0310306	0.067999	0.0432364	0.034861	0.0216968	0.180145	0.0415069	0.0316412	1.1385951

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Mitigated Residential - Construction Cancer Risk Summary

327	Receptor
3.06	Max

Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
433	482682	3631408	1.8034248	0.5387179	0.0369744	0.0810239	0.0515181	0.0415384	0.0258527	0.214651	0.0494574	0.0377019	1.264707
434	482692	3631408	2.0697484	0.6546789	0.0449332	0.0984646	0.0626076	0.0504797	0.0314176	0.2608554	0.0601033	0.0458174	1.4150695
435	482662	3631418	1.4116143	0.3678676	0.0252482	0.0553278	0.0351795	0.0283648	0.0176537	0.1465761	0.0337724	0.025745	1.0437467
436	482672	3631418	1.5983201	0.4320731	0.0296549	0.0649844	0.0413196	0.0333155	0.0207349	0.1721586	0.0396668	0.0302384	1.1662471
437	482682	3631418	1.8260307	0.5139608	0.0352752	0.0773004	0.0491506	0.0396295	0.0246647	0.2047866	0.0471846	0.0359693	1.3120699
438	482692	3631418	2.1192692	0.6243439	0.0428512	0.0939022	0.0597066	0.0481407	0.0299619	0.2487685	0.0573183	0.0436944	1.4949253
439	482662	3631428	1.3960125	0.3490844	0.0239591	0.0525028	0.0333833	0.0269165	0.0167523	0.139092	0.032048	0.0244305	1.0469281
440	482672	3631428	1.5880838	0.408548	0.0280403	0.0614462	0.0390698	0.0315015	0.019606	0.1627851	0.037507	0.028592	1.1795358
441	482682	3631428	1.8265349	0.4840888	0.033225	0.0728077	0.0462939	0.0373262	0.0232311	0.1928842	0.0444421	0.0338787	1.3424461
442	482692	3631428	2.1435388	0.5861495	0.0402298	0.0881577	0.056054	0.0451957	0.0281289	0.23355	0.0538119	0.0410214	1.5573893
443	482662	3631438	1.3643913	0.3283937	0.022539	0.0493909	0.0314046	0.0253212	0.0157594	0.1308478	0.0301484	0.0229825	1.0359976
444	482672	3631438	1.5553269	0.3821879	0.0262311	0.0574816	0.036549	0.029469	0.018341	0.152282	0.035087	0.0267472	1.173139
445	482682	3631438	1.7968666	0.4502099	0.0308997	0.0677122	0.043054	0.0347139	0.0216053	0.1793852	0.0413319	0.0315077	1.3466567
446	482692	3631438	2.1241017	0.5410239	0.0371327	0.0813708	0.0517386	0.0417162	0.0259634	0.2155698	0.0496691	0.0378633	1.5830778
447	482662	3631448	1.3192076	0.3068616	0.0210611	0.0461524	0.0293455	0.0236609	0.0147261	0.1222684	0.0281717	0.0214756	1.012346
448	482672	3631448	1.5009152	0.3543455	0.0243202	0.0532941	0.0338864	0.0273222	0.0170048	0.1411882	0.0325309	0.0247987	1.1465698
449	482682	3631448	1.7356405	0.4143014	0.0284352	0.0623115	0.03962	0.0319452	0.0198821	0.1650775	0.0380352	0.0289947	1.321339
450	482692	3631448	2.0535923	0.4924223	0.0337969	0.074061	0.0470908	0.0379688	0.023631	0.1962046	0.0452072	0.0344619	1.56117

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated Residential - Construction Cancer Risk Summary

	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
1	1.516E-05	2.997E-05	2.997E-05	3.357E-05	0.1617595	0.1189712	1.114E-05	2.203E-05	2.203E-05	2.467E-05	0.1188914
2	1.622E-05	3.209E-05	3.209E-05	3.594E-05	0.1731635	0.1283824	1.202E-05	2.377E-05	2.377E-05	2.662E-05	0.1282962
3	1.734E-05	3.429E-05	3.429E-05	3.841E-05	0.1850825	0.1383705	1.296E-05	2.562E-05	2.562E-05	2.87E-05	0.1382776
4	1.848E-05	3.654E-05	3.654E-05	4.092E-05	0.1972005	0.1486832	1.392E-05	2.753E-05	2.753E-05	3.083E-05	0.1485833
5	1.973E-05	3.901E-05	3.901E-05	4.369E-05	0.2105366	0.1600357	1.498E-05	2.963E-05	2.963E-05	3.319E-05	0.1599283
6	2.108E-05	4.169E-05	4.169E-05	4.669E-05	0.2249831	0.1723576	1.614E-05	3.191E-05	3.191E-05	3.574E-05	0.1722419
7	2.253E-05	4.455E-05	4.455E-05	4.99E-05	0.2404463	0.1856279	1.738E-05	3.437E-05	3.437E-05	3.85E-05	0.1855032
8	2.401E-05	4.747E-05	4.747E-05	5.317E-05	0.256219	0.199407	1.867E-05	3.692E-05	3.692E-05	4.135E-05	0.1992732
9	2.564E-05	5.071E-05	5.071E-05	5.68E-05	0.2736863	0.2149044	2.012E-05	3.979E-05	3.979E-05	4.457E-05	0.2147601
10	2.714E-05	5.367E-05	5.367E-05	6.011E-05	0.2896727	0.2298334	2.152E-05	4.256E-05	4.256E-05	4.766E-05	0.2296791
11	2.88E-05	5.696E-05	5.696E-05	6.38E-05	0.3074329	0.246885	2.312E-05	4.571E-05	4.571E-05	5.12E-05	0.2467192
12	3.028E-05	5.987E-05	5.987E-05	6.706E-05	0.3231426	0.2629493	2.462E-05	4.869E-05	4.869E-05	5.453E-05	0.2627727
13	3.171E-05	6.272E-05	6.272E-05	7.025E-05	0.3385041	0.2791931	2.614E-05	5.17E-05	5.17E-05	5.79E-05	0.2790056
14	3.29E-05	6.507E-05	6.507E-05	7.288E-05	0.3511881	0.2932503	2.746E-05	5.43E-05	5.43E-05	6.082E-05	0.2930535
15	3.441E-05	6.805E-05	6.805E-05	7.621E-05	0.3672393	0.3217113	3.012E-05	5.957E-05	5.957E-05	6.672E-05	0.3214953
16	3.401E-05	6.727E-05	6.727E-05	7.534E-05	0.3630371	0.3198986	2.995E-05	5.923E-05	5.923E-05	6.634E-05	0.3196838
17	1.579E-05	3.123E-05	3.123E-05	3.498E-05	0.1685405	0.1214027	1.137E-05	2.248E-05	2.248E-05	2.518E-05	0.1213212
18	1.7E-05	3.362E-05	3.362E-05	3.766E-05	0.1814672	0.1318371	1.234E-05	2.441E-05	2.441E-05	2.734E-05	0.1317486
19	1.831E-05	3.622E-05	3.622E-05	4.056E-05	0.1954539	0.1433309	1.342E-05	2.654E-05	2.654E-05	2.972E-05	0.1432347
20	1.973E-05	3.901E-05	3.901E-05	4.369E-05	0.2105481	0.1559249	1.46E-05	2.887E-05	2.887E-05	3.234E-05	0.1558202
21	2.119E-05	4.191E-05	4.191E-05	4.694E-05	0.2262059	0.169216	1.584E-05	3.133E-05	3.133E-05	3.509E-05	0.1691024
22	2.282E-05	4.512E-05	4.512E-05	5.054E-05	0.2435289	0.1839861	1.723E-05	3.407E-05	3.407E-05	3.816E-05	0.1838626
23	3.659E-05	7.236E-05	7.236E-05	8.104E-05	0.3905139	0.3223175	3.018E-05	5.968E-05	5.968E-05	6.684E-05	0.3221011
24	3.829E-05	7.572E-05	7.572E-05	8.481E-05	0.4086704	0.3423306	3.205E-05	6.339E-05	6.339E-05	7.099E-05	0.3421008
25	4.068E-05	8.044E-05	8.044E-05	9.01E-05	0.4341468	0.3807809	3.565E-05	7.051E-05	7.051E-05	7.897E-05	0.3805252
26	4.044E-05	7.998E-05	7.998E-05	8.958E-05	0.4316526	0.3811211	3.568E-05	7.057E-05	7.057E-05	7.904E-05	0.3808653
27	3.981E-05	7.874E-05	7.874E-05	8.819E-05	0.4249427	0.377334	3.533E-05	6.987E-05	6.987E-05	7.825E-05	0.3770807
28	1.625E-05	3.213E-05	3.213E-05	3.599E-05	0.1734148	0.121885	1.141E-05	2.257E-05	2.257E-05	2.528E-05	0.1218032
29	1.926E-05	3.808E-05	3.808E-05	4.265E-05	0.2055331	0.1470498	1.377E-05	2.723E-05	2.723E-05	3.05E-05	0.146951
30	2.088E-05	4.129E-05	4.129E-05	4.624E-05	0.2228423	0.1611995	1.509E-05	2.985E-05	2.985E-05	3.343E-05	0.1610913
31	2.276E-05	4.501E-05	4.501E-05	5.042E-05	0.2429454	0.1777988	1.665E-05	3.292E-05	3.292E-05	3.687E-05	0.1776794
32	2.491E-05	4.926E-05	4.926E-05	5.517E-05	0.2658606	0.1969166	1.844E-05	3.646E-05	3.646E-05	4.084E-05	0.1967844
33	2.705E-05	5.349E-05	5.349E-05	5.991E-05	0.288696	0.2165253	2.027E-05	4.009E-05	4.009E-05	4.49E-05	0.2163799
34	2.918E-05	5.771E-05	5.771E-05	6.464E-05	0.3114801	0.2366805	2.216E-05	4.382E-05	4.382E-05	4.908E-05	0.2365217
35	3.185E-05	6.3E-05	6.3E-05	7.056E-05	0.3399875	0.2618812	2.452E-05	4.849E-05	4.849E-05	5.431E-05	0.2617054
36	3.446E-05	6.814E-05	6.814E-05	7.632E-05	0.367761	0.2876224	2.693E-05	5.326E-05	5.326E-05	5.965E-05	0.2874293
37	4.028E-05	7.966E-05	7.966E-05	8.922E-05	0.4299267	0.3486127	3.264E-05	6.455E-05	6.455E-05	7.23E-05	0.3483787
38	4.285E-05	8.475E-05	8.475E-05	9.492E-05	0.4574072	0.3780491	3.54E-05	7E-05	7E-05	7.84E-05	0.3777953
39	4.523E-05	8.945E-05	8.945E-05	0.0001002	0.48278	0.4062519	3.804E-05	7.522E-05	7.522E-05	8.425E-05	0.4059792
40	4.876E-05	9.642E-05	9.642E-05	0.000108	0.5203942	0.4606881	4.313E-05	8.53E-05	8.53E-05	9.554E-05	0.4603788
41	4.851E-05	9.594E-05	9.594E-05	0.0001075	0.5177979	0.4614293	4.32E-05	8.544E-05	8.544E-05	9.569E-05	0.4611195
42	4.741E-05	9.375E-05	9.375E-05	0.000105	0.5059876	0.4532048	4.243E-05	8.392E-05	8.392E-05	9.399E-05	0.4529006
43	1.675E-05	3.312E-05	3.312E-05	3.71E-05	0.1787707	0.1221198	1.143E-05	2.261E-05	2.261E-05	2.533E-05	0.1220378
44	1.833E-05	3.626E-05	3.626E-05	4.061E-05	0.1956909	0.1345953	1.26E-05	2.492E-05	2.492E-05	2.791E-05	0.134505
45	2.014E-05	3.983E-05	3.983E-05	4.461E-05	0.2149873	0.1491772	1.397E-05	2.762E-05	2.762E-05	3.094E-05	0.149077
46	2.43E-05	4.806E-05	4.806E-05	5.383E-05	0.2593817	0.1843214	1.726E-05	3.413E-05	3.413E-05	3.823E-05	0.1841977
47	2.678E-05	5.297E-05	5.297E-05	5.932E-05	0.2858612	0.2060484	1.929E-05	3.815E-05	3.815E-05	4.273E-05	0.2059101
48	2.936E-05	5.807E-05	5.807E-05	6.504E-05	0.313418	0.2294435	2.148E-05	4.248E-05	4.248E-05	4.758E-05	0.2292895

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
49	3.218E-05	6.363E-05	6.363E-05	7.127E-05	0.3434263	0.2555854	2.393E-05	4.733E-05	4.733E-05	5.3E-05	0.2554138
50	3.568E-05	7.056E-05	7.056E-05	7.903E-05	0.3808031	0.2883982	2.7E-05	5.34E-05	5.34E-05	5.981E-05	0.2882046
51	3.916E-05	7.745E-05	7.745E-05	8.675E-05	0.4180203	0.3228384	3.023E-05	5.978E-05	5.978E-05	6.695E-05	0.3226217
52	4.721E-05	9.336E-05	9.336E-05	0.0001046	0.5038624	0.4074286	3.815E-05	7.544E-05	7.544E-05	8.449E-05	0.4071551
53	5.095E-05	0.0001008	0.0001008	0.0001128	0.5437639	0.4504078	4.217E-05	8.34E-05	8.34E-05	9.341E-05	0.4501054
54	5.448E-05	0.0001078	0.0001078	0.0001207	0.5815274	0.4927681	4.614E-05	9.124E-05	9.124E-05	0.0001022	0.4924372
55	5.73E-05	0.0001133	0.0001133	0.0001269	0.6116343	0.5278984	4.943E-05	9.775E-05	9.775E-05	0.0001095	0.527544
56	5.928E-05	0.0001172	0.0001172	0.0001313	0.6327359	0.5534801	5.182E-05	0.0001025	0.0001025	0.0001148	0.5531086
57	5.979E-05	0.0001183	0.0001183	0.0001324	0.638197	0.5713529	5.349E-05	0.0001058	0.0001058	0.0001185	0.5709693
58	5.881E-05	0.0001163	0.0001163	0.0001303	0.6277335	0.5649777	5.29E-05	0.0001046	0.0001046	0.0001172	0.5645984
59	5.738E-05	0.0001135	0.0001135	0.0001271	0.6124814	0.5538126	5.185E-05	0.0001025	0.0001025	0.0001149	0.5534408
60	1.707E-05	3.376E-05	3.376E-05	3.781E-05	0.1822101	0.1207462	1.131E-05	2.236E-05	2.236E-05	2.504E-05	0.1206652
61	1.882E-05	3.723E-05	3.723E-05	4.17E-05	0.2009192	0.1336424	1.251E-05	2.475E-05	2.475E-05	2.772E-05	0.1335527
62	2.08E-05	4.114E-05	4.114E-05	4.607E-05	0.22202	0.1486314	1.392E-05	2.752E-05	2.752E-05	3.082E-05	0.1485316
63	2.311E-05	4.57E-05	4.57E-05	5.119E-05	0.2466512	0.1666389	1.56E-05	3.086E-05	3.086E-05	3.456E-05	0.1665271
64	2.57E-05	5.083E-05	5.083E-05	5.693E-05	0.2743199	0.1876156	1.757E-05	3.474E-05	3.474E-05	3.891E-05	0.1874896
65	3.538E-05	6.997E-05	6.997E-05	7.837E-05	0.3776385	0.2724009	2.55E-05	5.044E-05	5.044E-05	5.649E-05	0.272218
66	3.988E-05	7.888E-05	7.888E-05	8.834E-05	0.4257021	0.3140036	2.94E-05	5.814E-05	5.814E-05	6.512E-05	0.3137928
67	4.459E-05	8.818E-05	8.818E-05	9.876E-05	0.4759213	0.3601665	3.372E-05	6.669E-05	6.669E-05	7.469E-05	0.3599247
68	5.606E-05	0.0001109	0.0001109	0.0001242	0.5983703	0.4815372	4.509E-05	8.916E-05	8.916E-05	9.986E-05	0.4812139
69	6.194E-05	0.0001225	0.0001225	0.0001372	0.6611241	0.5497504	5.147E-05	0.0001018	0.0001018	0.000114	0.5493813
70	6.739E-05	0.0001333	0.0001333	0.0001493	0.7192455	0.6162551	5.77E-05	0.0001141	0.0001141	0.0001278	0.6158414
71	7.197E-05	0.0001423	0.0001423	0.0001594	0.7682049	0.6740487	6.311E-05	0.0001248	0.0001248	0.0001398	0.6735962
72	7.503E-05	0.0001484	0.0001484	0.0001662	0.8008612	0.7134149	6.68E-05	0.0001321	0.0001321	0.000148	0.7129359
73	1.725E-05	3.411E-05	3.411E-05	3.82E-05	0.1840909	0.1183963	1.109E-05	2.192E-05	2.192E-05	2.455E-05	0.1183168
74	1.907E-05	3.772E-05	3.772E-05	4.225E-05	0.2035702	0.1308082	1.225E-05	2.422E-05	2.422E-05	2.713E-05	0.1307203
75	2.125E-05	4.202E-05	4.202E-05	4.706E-05	0.2267742	0.1459543	1.367E-05	2.703E-05	2.703E-05	3.027E-05	0.1458563
76	2.387E-05	4.721E-05	4.721E-05	5.288E-05	0.2548008	0.1647563	1.543E-05	3.051E-05	3.051E-05	3.417E-05	0.1646457
77	2.696E-05	5.333E-05	5.333E-05	5.972E-05	0.2877954	0.1876963	1.757E-05	3.475E-05	3.475E-05	3.893E-05	0.1875703
78	3.03E-05	5.993E-05	5.993E-05	6.712E-05	0.3234508	0.2138488	2.002E-05	3.96E-05	3.96E-05	4.435E-05	0.2137053
79	3.431E-05	6.785E-05	6.785E-05	7.6E-05	0.3662086	0.2464902	2.308E-05	4.564E-05	4.564E-05	5.112E-05	0.2463247
80	5.075E-05	0.0001004	0.0001004	0.0001124	0.5416645	0.3960281	3.708E-05	7.333E-05	7.333E-05	8.213E-05	0.3957622
81	6.739E-05	0.0001333	0.0001333	0.0001493	0.7193071	0.5726232	5.361E-05	0.000106	0.000106	0.0001188	0.5722388
82	7.684E-05	0.000152	0.000152	0.0001702	0.8201467	0.68456	6.409E-05	0.0001268	0.0001268	0.000142	0.6841004
83	8.667E-05	0.0001714	0.0001714	0.000192	0.9250917	0.8081023	7.566E-05	0.0001496	0.0001496	0.0001676	0.8075598
84	9.517E-05	0.0001882	0.0001882	0.0002108	1.0158024	0.9175004	8.59E-05	0.0001699	0.0001699	0.0001903	0.9168844
85	0.0001005	0.0001988	0.0001988	0.0002227	1.0728972	0.9850311	9.223E-05	0.0001824	0.0001824	0.0002043	0.9843698
86	1.696E-05	3.354E-05	3.354E-05	3.756E-05	0.1809933	0.113624	1.064E-05	2.104E-05	2.104E-05	2.356E-05	0.1135477
87	1.916E-05	3.79E-05	3.79E-05	4.245E-05	0.2045321	0.1272103	1.191E-05	2.355E-05	2.355E-05	2.638E-05	0.1271249
88	2.169E-05	4.289E-05	4.289E-05	4.804E-05	0.2314847	0.1430336	1.339E-05	2.648E-05	2.648E-05	2.966E-05	0.1429376
89	2.456E-05	4.857E-05	4.857E-05	5.44E-05	0.2621529	0.1615519	1.513E-05	2.991E-05	2.991E-05	3.35E-05	0.1614435
90	2.791E-05	5.52E-05	5.52E-05	6.183E-05	0.2979366	0.1839548	1.722E-05	3.406E-05	3.406E-05	3.815E-05	0.1838313
91	3.193E-05	6.315E-05	6.315E-05	7.073E-05	0.3408248	0.2119663	1.985E-05	3.925E-05	3.925E-05	4.396E-05	0.211824
92	3.668E-05	7.254E-05	7.254E-05	8.125E-05	0.3915248	0.2468889	2.312E-05	4.571E-05	4.571E-05	5.12E-05	0.2467231
93	4.225E-05	8.356E-05	8.356E-05	9.359E-05	0.4509944	0.2905052	2.72E-05	5.379E-05	5.379E-05	6.025E-05	0.2903102
94	4.912E-05	9.714E-05	9.714E-05	0.0001088	0.5242443	0.3476938	3.255E-05	6.438E-05	6.438E-05	7.211E-05	0.3474604
95	0.0001376	0.0002721	0.0002721	0.0003048	1.4686813	1.404951	0.0001315	0.0002601	0.0002601	0.0002914	1.4040078
96	0.0001501	0.0002969	0.0002969	0.0003326	1.6026012	1.5567471	0.0001458	0.0002883	0.0002883	0.0003228	1.555702

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Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
97	1.715E-05	3.393E-05	3.393E-05	3.8E-05	0.1831019	0.1123749	1.052E-05	2.081E-05	2.081E-05	2.33E-05	0.1122995
98	1.92E-05	3.798E-05	3.798E-05	4.254E-05	0.2049703	0.1239744	1.161E-05	2.296E-05	2.296E-05	2.571E-05	0.1238911
99	2.168E-05	4.288E-05	4.288E-05	4.803E-05	0.2314287	0.1380178	1.292E-05	2.556E-05	2.556E-05	2.862E-05	0.1379251
100	3.336E-05	6.597E-05	6.597E-05	7.389E-05	0.3560437	0.2063432	1.932E-05	3.821E-05	3.821E-05	4.279E-05	0.2062046
101	3.884E-05	7.681E-05	7.681E-05	8.603E-05	0.4145691	0.2410457	2.257E-05	4.463E-05	4.463E-05	4.999E-05	0.2408839
102	4.568E-05	9.034E-05	9.034E-05	0.0001012	0.4875497	0.2870448	2.688E-05	5.315E-05	5.315E-05	5.953E-05	0.2868521
103	5.457E-05	0.0001079	0.0001079	0.0001209	0.5824845	0.3512361	3.289E-05	6.504E-05	6.504E-05	7.284E-05	0.3510003
104	1.682E-05	3.326E-05	3.326E-05	3.725E-05	0.1794874	0.1088264	1.019E-05	2.015E-05	2.015E-05	2.257E-05	0.1087533
105	1.899E-05	3.756E-05	3.756E-05	4.207E-05	0.2027216	0.1202984	1.126E-05	2.227E-05	2.227E-05	2.495E-05	0.1202176
106	2.169E-05	4.289E-05	4.289E-05	4.804E-05	0.231494	0.1341699	1.256E-05	2.484E-05	2.484E-05	2.782E-05	0.1340798
107	4.932E-05	9.754E-05	9.754E-05	0.0001092	0.5264446	0.2765339	2.589E-05	5.12E-05	5.12E-05	5.735E-05	0.2763483
108	6.075E-05	0.0001201	0.0001201	0.0001346	0.6483862	0.3421597	3.204E-05	6.336E-05	6.336E-05	7.096E-05	0.34193
109	1.63E-05	3.224E-05	3.224E-05	3.61E-05	0.1739807	0.1050141	9.832E-06	1.944E-05	1.944E-05	2.178E-05	0.1049436
110	1.85E-05	3.659E-05	3.659E-05	4.098E-05	0.1974872	0.1161554	1.088E-05	2.151E-05	2.151E-05	2.409E-05	0.1160774
111	2.118E-05	4.19E-05	4.19E-05	4.692E-05	0.2261079	0.1291265	1.209E-05	2.391E-05	2.391E-05	2.678E-05	0.1290398
112	5.315E-05	0.0001051	0.0001051	0.0001177	0.5672469	0.2616403	2.45E-05	4.845E-05	4.845E-05	5.426E-05	0.2614646
113	6.824E-05	0.000135	0.000135	0.0001511	0.7283353	0.3224394	3.019E-05	5.97E-05	5.97E-05	6.687E-05	0.3222229
114	1.573E-05	3.11E-05	3.11E-05	3.483E-05	0.1678546	0.1013862	9.493E-06	1.877E-05	1.877E-05	2.103E-05	0.1013182
115	1.779E-05	3.519E-05	3.519E-05	3.941E-05	0.1899308	0.1117013	1.046E-05	2.068E-05	2.068E-05	2.316E-05	0.1116263
116	2.042E-05	4.038E-05	4.038E-05	4.523E-05	0.2179358	0.1240837	1.162E-05	2.298E-05	2.298E-05	2.573E-05	0.1240004
117	2.373E-05	4.693E-05	4.693E-05	5.256E-05	0.2532561	0.1387022	1.299E-05	2.568E-05	2.568E-05	2.876E-05	0.1386091
118	5.563E-05	0.00011	0.00011	0.0001232	0.5937129	0.2447688	2.292E-05	4.532E-05	4.532E-05	5.076E-05	0.2446044
119	7.702E-05	0.0001523	0.0001523	0.0001706	0.8220601	0.2982099	2.792E-05	5.522E-05	5.522E-05	6.184E-05	0.2980097
120	1.507E-05	2.98E-05	2.98E-05	3.338E-05	0.1608264	0.0976534	9.143E-06	1.808E-05	1.808E-05	2.025E-05	0.0975878
121	1.702E-05	3.365E-05	3.365E-05	3.769E-05	0.181611	0.1074049	1.006E-05	1.989E-05	1.989E-05	2.227E-05	0.1073328
122	1.948E-05	3.852E-05	3.852E-05	4.315E-05	0.207912	0.1190517	1.115E-05	2.204E-05	2.204E-05	2.469E-05	0.1189717
123	2.252E-05	4.454E-05	4.454E-05	4.988E-05	0.2403746	0.1324502	1.24E-05	2.452E-05	2.452E-05	2.747E-05	0.1323612
124	5.381E-05	0.0001064	0.0001064	0.0001192	0.5743206	0.2278088	2.133E-05	4.218E-05	4.218E-05	4.724E-05	0.2276559
125	7.952E-05	0.0001573	0.0001573	0.0001761	0.8487642	0.2732973	2.559E-05	5.06E-05	5.06E-05	5.668E-05	0.2731138
126	1.443E-05	2.855E-05	2.855E-05	3.197E-05	0.1540656	0.0942422	8.824E-06	1.745E-05	1.745E-05	1.954E-05	0.094179
127	1.622E-05	3.208E-05	3.208E-05	3.593E-05	0.173135	0.1033004	9.672E-06	1.913E-05	1.913E-05	2.142E-05	0.1032311
128	1.845E-05	3.649E-05	3.649E-05	4.087E-05	0.1969327	0.1139944	1.067E-05	2.111E-05	2.111E-05	2.364E-05	0.1139178
129	2.13E-05	4.212E-05	4.212E-05	4.717E-05	0.2273022	0.1267337	1.187E-05	2.347E-05	2.347E-05	2.628E-05	0.1266486
130	2.493E-05	4.93E-05	4.93E-05	5.522E-05	0.2660794	0.1416604	1.326E-05	2.623E-05	2.623E-05	2.938E-05	0.1415652
131	2.994E-05	5.921E-05	5.921E-05	6.631E-05	0.3195504	0.1600724	1.499E-05	2.964E-05	2.964E-05	3.32E-05	0.159965
132	3.715E-05	7.346E-05	7.346E-05	8.228E-05	0.3964735	0.1828397	1.712E-05	3.386E-05	3.386E-05	3.792E-05	0.182717
133	4.871E-05	9.632E-05	9.632E-05	0.0001079	0.5198538	0.2121874	1.987E-05	3.929E-05	3.929E-05	4.4E-05	0.2120449
134	6.966E-05	0.0001378	0.0001378	0.0001543	0.7435019	0.2500214	2.341E-05	4.629E-05	4.629E-05	5.185E-05	0.2498535
135	0.0001214	0.0002401	0.0002401	0.0002689	1.2957652	0.3010879	2.819E-05	5.575E-05	5.575E-05	6.244E-05	0.3008857
136	1.382E-05	2.734E-05	2.734E-05	3.062E-05	0.147542	0.0909818	8.518E-06	1.685E-05	1.685E-05	1.887E-05	0.0909208
137	1.551E-05	3.068E-05	3.068E-05	3.436E-05	0.1655914	0.0996658	9.332E-06	1.845E-05	1.845E-05	2.067E-05	0.0995989
138	1.75E-05	3.462E-05	3.462E-05	3.877E-05	0.1868292	0.1093569	1.024E-05	2.025E-05	2.025E-05	2.268E-05	0.1092835
139	2.003E-05	3.961E-05	3.961E-05	4.436E-05	0.2137592	0.1208801	1.132E-05	2.238E-05	2.238E-05	2.507E-05	0.1207989
140	2.337E-05	4.621E-05	4.621E-05	5.176E-05	0.2494114	0.1349343	1.263E-05	2.498E-05	2.498E-05	2.798E-05	0.1348437
141	2.784E-05	5.505E-05	5.505E-05	6.165E-05	0.2970993	0.1518488	1.422E-05	2.812E-05	2.812E-05	3.149E-05	0.1517469
142	3.392E-05	6.708E-05	6.708E-05	7.513E-05	0.3620417	0.1718969	1.609E-05	3.183E-05	3.183E-05	3.565E-05	0.1717815
143	4.308E-05	8.52E-05	8.52E-05	9.543E-05	0.4598297	0.1969868	1.844E-05	3.647E-05	3.647E-05	4.085E-05	0.1968545
144	5.779E-05	0.0001143	0.0001143	0.000128	0.6168346	0.2285607	2.14E-05	4.232E-05	4.232E-05	4.74E-05	0.2284073

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
145	8.421E-05	0.0001665	0.0001665	0.0001865	0.8987789	0.2688025	2.517E-05	4.977E-05	4.977E-05	5.575E-05	0.2686221
146	1.325E-05	2.62E-05	2.62E-05	2.934E-05	0.1413878	0.0878328	8.224E-06	1.626E-05	1.626E-05	1.822E-05	0.0877738
147	1.475E-05	2.917E-05	2.917E-05	3.267E-05	0.1574506	0.0956632	8.957E-06	1.771E-05	1.771E-05	1.984E-05	0.095599
148	1.659E-05	3.281E-05	3.281E-05	3.675E-05	0.1770766	0.104764	9.809E-06	1.94E-05	1.94E-05	2.173E-05	0.1046937
149	1.894E-05	3.746E-05	3.746E-05	4.196E-05	0.2021951	0.1157159	1.083E-05	2.143E-05	2.143E-05	2.4E-05	0.1156382
150	2.179E-05	4.31E-05	4.31E-05	4.827E-05	0.2326249	0.1280283	1.199E-05	2.371E-05	2.371E-05	2.655E-05	0.1279423
151	2.556E-05	5.055E-05	5.055E-05	5.662E-05	0.2728323	0.1428812	1.338E-05	2.646E-05	2.646E-05	2.963E-05	0.1427853
152	3.053E-05	6.037E-05	6.037E-05	6.762E-05	0.3258261	0.1605351	1.503E-05	2.973E-05	2.973E-05	3.329E-05	0.1604273
153	3.748E-05	7.413E-05	7.413E-05	8.302E-05	0.400054	0.1818098	1.702E-05	3.366E-05	3.366E-05	3.77E-05	0.1816878
154	4.672E-05	9.239E-05	9.239E-05	0.0001035	0.4986236	0.2077552	1.945E-05	3.847E-05	3.847E-05	4.308E-05	0.2076158
155	6.157E-05	0.0001218	0.0001218	0.0001364	0.6571086	0.2389388	2.237E-05	4.424E-05	4.424E-05	4.955E-05	0.2387784
156	1.269E-05	2.509E-05	2.509E-05	2.81E-05	0.1354219	0.0847125	7.931E-06	1.569E-05	1.569E-05	1.757E-05	0.0846556
157	1.411E-05	2.79E-05	2.79E-05	3.125E-05	0.15059	0.0922015	8.633E-06	1.707E-05	1.707E-05	1.912E-05	0.0921396
158	1.574E-05	3.112E-05	3.112E-05	3.486E-05	0.1679769	0.1004019	9.4E-06	1.859E-05	1.859E-05	2.082E-05	0.1003345
159	1.777E-05	3.514E-05	3.514E-05	3.936E-05	0.1896674	0.1100981	1.031E-05	2.039E-05	2.039E-05	2.283E-05	0.1100242
160	2.029E-05	4.013E-05	4.013E-05	4.495E-05	0.2166075	0.1213964	1.137E-05	2.248E-05	2.248E-05	2.518E-05	0.1213149
161	2.344E-05	4.636E-05	4.636E-05	5.192E-05	0.2501795	0.1344603	1.259E-05	2.49E-05	2.49E-05	2.788E-05	0.1343701
162	2.739E-05	5.416E-05	5.416E-05	6.066E-05	0.2923003	0.1495702	1.4E-05	2.769E-05	2.769E-05	3.102E-05	0.1494697
163	3.247E-05	6.421E-05	6.421E-05	7.192E-05	0.3465576	0.1671794	1.565E-05	3.096E-05	3.096E-05	3.467E-05	0.1670671
164	3.845E-05	7.603E-05	7.603E-05	8.516E-05	0.4103483	0.1883309	1.763E-05	3.487E-05	3.487E-05	3.906E-05	0.1882045
165	4.794E-05	9.48E-05	9.48E-05	0.0001062	0.5116414	0.2136994	2.001E-05	3.957E-05	3.957E-05	4.432E-05	0.2135559
166	1.214E-05	2.401E-05	2.401E-05	2.689E-05	0.1295714	0.0816376	7.644E-06	1.512E-05	1.512E-05	1.693E-05	0.0815828
167	1.338E-05	2.645E-05	2.645E-05	2.963E-05	0.1427756	0.0882759	8.265E-06	1.635E-05	1.635E-05	1.831E-05	0.0882166
168	1.486E-05	2.939E-05	2.939E-05	3.292E-05	0.1586218	0.0959298	8.982E-06	1.776E-05	1.776E-05	1.989E-05	0.0958654
169	1.664E-05	3.29E-05	3.29E-05	3.685E-05	0.1775636	0.1046691	9.8E-06	1.938E-05	1.938E-05	2.171E-05	0.1045989
170	1.878E-05	3.714E-05	3.714E-05	4.159E-05	0.2004349	0.1146876	1.074E-05	2.124E-05	2.124E-05	2.378E-05	0.1146106
171	2.137E-05	4.225E-05	4.225E-05	4.732E-05	0.2280446	0.1261081	1.181E-05	2.335E-05	2.335E-05	2.615E-05	0.1260234
172	2.444E-05	4.834E-05	4.834E-05	5.414E-05	0.2608735	0.138925	1.301E-05	2.572E-05	2.572E-05	2.881E-05	0.1388318
173	2.808E-05	5.554E-05	5.554E-05	6.22E-05	0.2997273	0.1538614	1.441E-05	2.849E-05	2.849E-05	3.191E-05	0.1537581
174	3.264E-05	6.454E-05	6.454E-05	7.229E-05	0.3483397	0.1710798	1.602E-05	3.168E-05	3.168E-05	3.548E-05	0.1709649
175	3.86E-05	7.634E-05	7.634E-05	8.55E-05	0.4120213	0.1918401	1.796E-05	3.552E-05	3.552E-05	3.978E-05	0.1917113
176	1.157E-05	2.288E-05	2.288E-05	2.563E-05	0.1234949	0.0784571	7.346E-06	1.453E-05	1.453E-05	1.627E-05	0.0784044
177	1.269E-05	2.51E-05	2.51E-05	2.811E-05	0.1354629	0.0846038	7.921E-06	1.567E-05	1.567E-05	1.755E-05	0.084547
178	1.399E-05	2.767E-05	2.767E-05	3.099E-05	0.149326	0.091488	8.566E-06	1.694E-05	1.694E-05	1.897E-05	0.0914266
179	1.553E-05	3.071E-05	3.071E-05	3.439E-05	0.1657321	0.0993363	9.301E-06	1.839E-05	1.839E-05	2.06E-05	0.0992697
180	1.734E-05	3.43E-05	3.43E-05	3.841E-05	0.1850938	0.1082268	1.013E-05	2.004E-05	2.004E-05	2.244E-05	0.1081542
181	1.946E-05	3.848E-05	3.848E-05	4.31E-05	0.207685	0.1181564	1.106E-05	2.188E-05	2.188E-05	2.45E-05	0.118077
182	2.192E-05	4.335E-05	4.335E-05	4.856E-05	0.2339851	0.1292819	1.21E-05	2.394E-05	2.394E-05	2.681E-05	0.1291951
183	2.48E-05	4.905E-05	4.905E-05	5.493E-05	0.2647009	0.1416984	1.327E-05	2.624E-05	2.624E-05	2.939E-05	0.1416033
184	2.815E-05	5.567E-05	5.567E-05	6.235E-05	0.3004349	0.156021	1.461E-05	2.889E-05	2.889E-05	3.236E-05	0.1559162
185	3.197E-05	6.323E-05	6.323E-05	7.082E-05	0.3412533	0.1729242	1.619E-05	3.202E-05	3.202E-05	3.586E-05	0.1728081
186	3.851E-05	7.615E-05	7.615E-05	8.529E-05	0.4109803	0.3110593	2.912E-05	5.76E-05	5.76E-05	6.451E-05	0.3108505
187	3.776E-05	7.468E-05	7.468E-05	8.365E-05	0.4030743	0.318461	2.982E-05	5.897E-05	5.897E-05	6.604E-05	0.3182472
188	3.721E-05	7.358E-05	7.358E-05	8.241E-05	0.3971176	0.3248023	3.041E-05	6.014E-05	6.014E-05	6.736E-05	0.3245843
189	1.1E-05	2.176E-05	2.176E-05	2.437E-05	0.1174187	0.0752772	7.048E-06	1.394E-05	1.394E-05	1.561E-05	0.0752267
190	1.2E-05	2.373E-05	2.373E-05	2.658E-05	0.1280688	0.0808817	7.573E-06	1.498E-05	1.498E-05	1.677E-05	0.0808274
191	1.314E-05	2.599E-05	2.599E-05	2.911E-05	0.1402691	0.0871266	8.157E-06	1.613E-05	1.613E-05	1.807E-05	0.0870682
192	1.446E-05	2.86E-05	2.86E-05	3.204E-05	0.1543708	0.0941325	8.813E-06	1.743E-05	1.743E-05	1.952E-05	0.0940693

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
193	1.599E-05	3.162E-05	3.162E-05	3.541E-05	0.1706532	0.1019725	9.547E-06	1.888E-05	1.888E-05	2.115E-05	0.101904
194	1.772E-05	3.504E-05	3.504E-05	3.925E-05	0.1891307	0.1106331	1.036E-05	2.049E-05	2.049E-05	2.294E-05	0.1105588
195	1.971E-05	3.897E-05	3.897E-05	4.365E-05	0.2103286	0.1202827	1.126E-05	2.227E-05	2.227E-05	2.494E-05	0.120202
196	2.193E-05	4.336E-05	4.336E-05	4.857E-05	0.2340382	0.1308508	1.225E-05	2.423E-05	2.423E-05	2.714E-05	0.130763
197	2.705E-05	5.35E-05	5.35E-05	5.992E-05	0.2887341	0.1565087	1.465E-05	2.898E-05	2.898E-05	3.246E-05	0.1564036
198	3.396E-05	6.716E-05	6.716E-05	7.522E-05	0.362486	0.2362092	2.212E-05	4.374E-05	4.374E-05	4.899E-05	0.2360507
199	3.358E-05	6.642E-05	6.642E-05	7.439E-05	0.3584621	0.2465894	2.309E-05	4.566E-05	4.566E-05	5.114E-05	0.2464238
200	3.317E-05	6.559E-05	6.559E-05	7.346E-05	0.3540032	0.2559959	2.397E-05	4.74E-05	4.74E-05	5.309E-05	0.255824
201	3.27E-05	6.467E-05	6.467E-05	7.243E-05	0.349005	0.2637196	2.469E-05	4.883E-05	4.883E-05	5.469E-05	0.2635425
202	3.222E-05	6.373E-05	6.373E-05	7.137E-05	0.3439289	0.2697906	2.526E-05	4.996E-05	4.996E-05	5.595E-05	0.2696095
203	3.177E-05	6.284E-05	6.284E-05	7.038E-05	0.3391275	0.2744771	2.57E-05	5.082E-05	5.082E-05	5.692E-05	0.2742929
204	1.045E-05	2.067E-05	2.067E-05	2.315E-05	0.1115722	0.0722023	6.76E-06	1.337E-05	1.337E-05	1.497E-05	0.0721538
205	1.133E-05	2.24E-05	2.24E-05	2.509E-05	0.1209104	0.077243	7.232E-06	1.43E-05	1.43E-05	1.602E-05	0.0771912
206	1.233E-05	2.439E-05	2.439E-05	2.732E-05	0.131631	0.0829019	7.762E-06	1.535E-05	1.535E-05	1.719E-05	0.0828462
207	1.349E-05	2.668E-05	2.668E-05	2.988E-05	0.1439824	0.0892718	8.358E-06	1.653E-05	1.653E-05	1.851E-05	0.0892119
208	1.477E-05	2.92E-05	2.92E-05	3.271E-05	0.1576064	0.0961447	9.002E-06	1.78E-05	1.78E-05	1.994E-05	0.0960802
209	1.62E-05	3.203E-05	3.203E-05	3.588E-05	0.172885	0.1037106	9.71E-06	1.92E-05	1.92E-05	2.151E-05	0.103641
210	1.78E-05	3.521E-05	3.521E-05	3.944E-05	0.190036	0.1120981	1.05E-05	2.076E-05	2.076E-05	2.325E-05	0.1120229
211	2.128E-05	4.208E-05	4.208E-05	4.713E-05	0.2271027	0.1307513	1.224E-05	2.421E-05	2.421E-05	2.712E-05	0.1306635
212	2.297E-05	4.542E-05	4.542E-05	5.088E-05	0.2451567	0.1408436	1.319E-05	2.608E-05	2.608E-05	2.921E-05	0.140749
213	2.769E-05	5.475E-05	5.475E-05	6.132E-05	0.2954972	0.1833075	1.716E-05	3.394E-05	3.394E-05	3.801E-05	0.1831844
214	2.816E-05	5.57E-05	5.57E-05	6.238E-05	0.3006054	0.1935651	1.812E-05	3.584E-05	3.584E-05	4.014E-05	0.1934352
215	2.868E-05	5.671E-05	5.671E-05	6.352E-05	0.3060697	0.2050706	1.92E-05	3.797E-05	3.797E-05	4.253E-05	0.204933
216	2.862E-05	5.66E-05	5.66E-05	6.34E-05	0.3054887	0.213659	2E-05	3.956E-05	3.956E-05	4.431E-05	0.2135155
217	2.841E-05	5.618E-05	5.618E-05	6.292E-05	0.3032085	0.2209505	2.069E-05	4.091E-05	4.091E-05	4.582E-05	0.2208021
218	2.813E-05	5.563E-05	5.563E-05	6.231E-05	0.300249	0.2270624	2.126E-05	4.204E-05	4.204E-05	4.709E-05	0.2269099
219	2.781E-05	5.5E-05	5.5E-05	6.16E-05	0.2968441	0.231888	2.171E-05	4.294E-05	4.294E-05	4.809E-05	0.2317323
220	2.688E-05	5.316E-05	5.316E-05	5.954E-05	0.2869272	0.2304207	2.157E-05	4.267E-05	4.267E-05	4.779E-05	0.2302661
221	9.906E-06	1.959E-05	1.959E-05	2.194E-05	0.1057346	0.0690985	6.47E-06	1.279E-05	1.279E-05	1.433E-05	0.0690521
222	1.07E-05	2.116E-05	2.116E-05	2.37E-05	0.1142085	0.0737897	6.909E-06	1.366E-05	1.366E-05	1.53E-05	0.0737402
223	1.16E-05	2.293E-05	2.293E-05	2.568E-05	0.123767	0.0789901	7.396E-06	1.463E-05	1.463E-05	1.638E-05	0.0789371
224	1.257E-05	2.485E-05	2.485E-05	2.783E-05	0.1341123	0.0845207	7.914E-06	1.565E-05	1.565E-05	1.753E-05	0.0844639
225	1.365E-05	2.699E-05	2.699E-05	3.023E-05	0.1456709	0.0906149	8.484E-06	1.678E-05	1.678E-05	1.879E-05	0.0905541
226	1.616E-05	3.196E-05	3.196E-05	3.58E-05	0.1724919	0.1045974	9.793E-06	1.937E-05	1.937E-05	2.169E-05	0.1045272
227	1.755E-05	3.471E-05	3.471E-05	3.888E-05	0.1873446	0.112523	1.054E-05	2.084E-05	2.084E-05	2.334E-05	0.1124475
228	1.87E-05	3.698E-05	3.698E-05	4.142E-05	0.1995928	0.1196866	1.121E-05	2.216E-05	2.216E-05	2.482E-05	0.1196062
229	2.009E-05	3.974E-05	3.974E-05	4.45E-05	0.2144522	0.1286469	1.204E-05	2.382E-05	2.382E-05	2.668E-05	0.1285606
230	2.345E-05	4.637E-05	4.637E-05	5.193E-05	0.2502527	0.1614585	1.512E-05	2.99E-05	2.99E-05	3.348E-05	0.1613501
231	2.395E-05	4.736E-05	4.736E-05	5.304E-05	0.2555895	0.1698433	1.59E-05	3.145E-05	3.145E-05	3.522E-05	0.1697293
232	2.449E-05	4.843E-05	4.843E-05	5.425E-05	0.2614032	0.1792568	1.678E-05	3.319E-05	3.319E-05	3.717E-05	0.1791364
233	2.451E-05	4.847E-05	4.847E-05	5.429E-05	0.2615969	0.185756	1.739E-05	3.44E-05	3.44E-05	3.852E-05	0.1856313
234	2.447E-05	4.839E-05	4.839E-05	5.419E-05	0.2611367	0.1918074	1.796E-05	3.552E-05	3.552E-05	3.978E-05	0.1916787
235	2.435E-05	4.815E-05	4.815E-05	5.393E-05	0.2598813	0.196973	1.844E-05	3.647E-05	3.647E-05	4.085E-05	0.1968408
236	2.379E-05	4.705E-05	4.705E-05	5.269E-05	0.2539213	0.1979865	1.854E-05	3.666E-05	3.666E-05	4.106E-05	0.1978536
237	2.365E-05	4.678E-05	4.678E-05	5.239E-05	0.252469	0.2017138	1.889E-05	3.735E-05	3.735E-05	4.183E-05	0.2015784
238	6.377E-05	0.0001261	0.0001261	0.0001412	0.6806234	0.514174	4.814E-05	9.521E-05	9.521E-05	0.0001066	0.5138288
239	6.57E-05	0.0001299	0.0001299	0.0001455	0.7012267	0.5350848	5.01E-05	9.908E-05	9.908E-05	0.000111	0.5347255
240	6.766E-05	0.0001338	0.0001338	0.0001499	0.7221365	0.5567144	5.212E-05	0.0001031	0.0001031	0.0001155	0.5563406

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
241	6.964E-05	0.0001377	0.0001377	0.0001543	0.7433106	0.5790316	5.421E-05	0.0001072	0.0001072	0.0001201	0.5786429
242	7.172E-05	0.0001418	0.0001418	0.0001589	0.7655332	0.6027385	5.643E-05	0.0001116	0.0001116	0.000125	0.6023338
243	7.387E-05	0.0001461	0.0001461	0.0001636	0.7884913	0.6275873	5.876E-05	0.0001162	0.0001162	0.0001302	0.627166
244	6.562E-05	0.0001298	0.0001298	0.0001454	0.7004345	0.5244659	4.91E-05	9.711E-05	9.711E-05	0.0001088	0.5241138
245	6.781E-05	0.0001341	0.0001341	0.0001502	0.7237869	0.547861	5.13E-05	0.0001014	0.0001014	0.0001136	0.5474932
246	6.996E-05	0.0001384	0.0001384	0.000155	0.7467519	0.571502	5.351E-05	0.0001058	0.0001058	0.0001185	0.5711184
247	7.215E-05	0.0001427	0.0001427	0.0001598	0.7701176	0.5960397	5.581E-05	0.0001104	0.0001104	0.0001236	0.5956396
248	7.444E-05	0.0001472	0.0001472	0.0001649	0.7945597	0.6220838	5.824E-05	0.0001152	0.0001152	0.000129	0.6216662
249	7.681E-05	0.0001519	0.0001519	0.0001701	0.8198241	0.6494462	6.081E-05	0.0001203	0.0001203	0.0001347	0.6490102
250	7.927E-05	0.0001568	0.0001568	0.0001756	0.8461148	0.6783426	6.351E-05	0.0001256	0.0001256	0.0001407	0.6778873
251	8.176E-05	0.0001617	0.0001617	0.0001811	0.8726702	0.7080863	6.63E-05	0.0001311	0.0001311	0.0001468	0.7076109
252	6.956E-05	0.0001376	0.0001376	0.0001541	0.7424007	0.5564661	5.21E-05	0.000103	0.000103	0.0001154	0.5560925
253	7.209E-05	0.0001426	0.0001426	0.0001597	0.7694396	0.5836694	5.465E-05	0.0001081	0.0001081	0.000121	0.5832776
254	7.469E-05	0.0001477	0.0001477	0.0001654	0.7971976	0.612243	5.732E-05	0.0001134	0.0001134	0.000127	0.611832
255	7.725E-05	0.0001528	0.0001528	0.0001711	0.8245019	0.6411737	6.003E-05	0.0001187	0.0001187	0.000133	0.6407432
256	7.983E-05	0.0001579	0.0001579	0.0001768	0.8520947	0.6710727	6.283E-05	0.0001243	0.0001243	0.0001392	0.6706222
257	8.251E-05	0.0001632	0.0001632	0.0001828	0.880633	0.7025439	6.578E-05	0.0001301	0.0001301	0.0001457	0.7020723
258	8.531E-05	0.0001687	0.0001687	0.000189	0.9105935	0.736071	6.892E-05	0.0001363	0.0001363	0.0001526	0.7355768
259	8.835E-05	0.0001747	0.0001747	0.0001957	0.9430305	0.7727421	7.235E-05	0.0001431	0.0001431	0.0001603	0.7722233
260	9.155E-05	0.0001811	0.0001811	0.0002028	0.9771298	0.8119441	7.602E-05	0.0001503	0.0001503	0.0001684	0.811399
261	7.703E-05	0.0001523	0.0001523	0.0001706	0.822146	0.6254598	5.856E-05	0.0001158	0.0001158	0.0001297	0.6250399
262	7.989E-05	0.000158	0.000158	0.0001769	0.8526743	0.6574773	6.156E-05	0.0001217	0.0001217	0.0001363	0.6570359
263	8.288E-05	0.0001639	0.0001639	0.0001836	0.8846213	0.6916486	6.476E-05	0.0001281	0.0001281	0.0001434	0.6911843
264	8.581E-05	0.0001697	0.0001697	0.0001901	0.9159322	0.7261643	6.799E-05	0.0001345	0.0001345	0.0001506	0.7256768
265	8.906E-05	0.0001761	0.0001761	0.0001973	0.9505335	0.7646335	7.159E-05	0.0001416	0.0001416	0.0001586	0.7641202
266	9.269E-05	0.0001833	0.0001833	0.0002053	0.9892741	0.8082316	7.567E-05	0.0001497	0.0001497	0.0001676	0.807689
267	9.606E-05	0.00019	0.00019	0.0002128	1.0252536	0.8500652	7.959E-05	0.0001574	0.0001574	0.0001763	0.8494946
268	9.956E-05	0.0001969	0.0001969	0.0002205	1.0625949	0.8942424	8.373E-05	0.0001656	0.0001656	0.0001855	0.893642
269	0.0001032	0.000204	0.000204	0.0002285	1.1010449	0.9405321	8.806E-05	0.0001742	0.0001742	0.0001951	0.9399007
270	0.000107	0.0002116	0.0002116	0.0002369	1.141772	0.9902493	9.272E-05	0.0001834	0.0001834	0.0002054	0.9895845
271	8.602E-05	0.0001701	0.0001701	0.0001905	0.9181367	0.7116158	6.663E-05	0.0001318	0.0001318	0.0001476	0.711138
272	8.93E-05	0.0001766	0.0001766	0.0001978	0.9531349	0.7499738	7.022E-05	0.0001389	0.0001389	0.0001555	0.7494704
273	9.289E-05	0.0001837	0.0001837	0.0002057	0.9914257	0.7924784	7.42E-05	0.0001467	0.0001467	0.0001643	0.7919464
274	9.695E-05	0.0001917	0.0001917	0.0002147	1.034778	0.8411767	7.876E-05	0.0001558	0.0001558	0.0001744	0.840612
275	0.0001008	0.0001993	0.0001993	0.0002232	1.0756633	0.8887609	8.321E-05	0.0001646	0.0001646	0.0001843	0.8881642
276	0.0001047	0.0002071	0.0002071	0.000232	1.1178543	0.9388716	8.79E-05	0.0001738	0.0001738	0.0001947	0.9382413
277	0.0001089	0.0002154	0.0002154	0.0002412	1.1623482	0.9926753	9.294E-05	0.0001838	0.0001838	0.0002059	0.9920089
278	0.0001134	0.0002242	0.0002242	0.0002511	1.2100027	1.0512545	9.843E-05	0.0001947	0.0001947	0.000218	1.0505488
279	0.0001179	0.0002332	0.0002332	0.0002612	1.2586645	1.1122711	0.0001041	0.000206	0.000206	0.0002307	1.1115244
280	0.000123	0.0002432	0.0002432	0.0002723	1.3123577	1.1809932	0.0001106	0.0002187	0.0002187	0.0002449	1.1802003
281	0.0001279	0.0002529	0.0002529	0.0002832	1.3648301	1.2490628	0.0001169	0.0002313	0.0002313	0.000259	1.2482243
282	9.698E-05	0.0001918	0.0001918	0.0002148	1.0351506	0.8210376	7.687E-05	0.000152	0.000152	0.0001703	0.8204864
283	0.0001011	0.0001999	0.0001999	0.0002239	1.0788746	0.8706744	8.152E-05	0.0001612	0.0001612	0.0001806	0.8700899
284	0.0001055	0.0002086	0.0002086	0.0002337	1.1260697	0.9252509	8.663E-05	0.0001713	0.0001713	0.0001919	0.9246298
285	0.0001101	0.0002178	0.0002178	0.0002439	1.1753709	0.9836234	9.209E-05	0.0001821	0.0001821	0.000204	0.982963
286	0.000115	0.0002275	0.0002275	0.0002548	1.2276238	1.0468423	9.801E-05	0.0001938	0.0001938	0.0002171	1.0461395
287	0.0001202	0.0002377	0.0002377	0.0002662	1.2828298	1.1151201	0.0001044	0.0002065	0.0002065	0.0002313	1.1143715
288	0.0001255	0.0002481	0.0002481	0.0002779	1.3392198	1.1865364	0.0001111	0.0002197	0.0002197	0.0002461	1.1857398

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
289	0.0001315	0.0002601	0.0002601	0.0002913	1.4037299	1.2704774	0.000119	0.0002352	0.0002352	0.0002635	1.2696245
290	0.0001374	0.0002718	0.0002718	0.0003044	1.4669337	1.3538691	0.0001268	0.0002507	0.0002507	0.0002808	1.3529602
291	0.0001436	0.000284	0.000284	0.000318	1.5325719	1.4417329	0.000135	0.000267	0.000267	0.000299	1.440765
292	0.0001499	0.0002964	0.0002964	0.000332	1.599921	1.532918	0.0001435	0.0002838	0.0002838	0.0003179	1.5318889
293	0.0001158	0.0002291	0.0002291	0.0002566	1.2364092	1.0292789	9.637E-05	0.0001906	0.0001906	0.0002135	1.0285879
294	0.0001215	0.0002402	0.0002402	0.000269	1.2964587	1.1019028	0.0001032	0.000204	0.000204	0.0002285	1.101163
295	0.0001274	0.000252	0.000252	0.0002822	1.3599648	1.1807146	0.0001105	0.0002186	0.0002186	0.0002449	1.1799219
296	0.0001341	0.0002652	0.0002652	0.000297	1.4310534	1.2714547	0.000119	0.0002354	0.0002354	0.0002637	1.2706011
297	0.0001409	0.0002786	0.0002786	0.000312	1.5034454	1.3666816	0.000128	0.0002531	0.0002531	0.0002834	1.3657641
298	0.000148	0.0002928	0.0002928	0.0003279	1.5800767	1.4694391	0.0001376	0.0002721	0.0002721	0.0003047	1.4684526
299	0.0001556	0.0003078	0.0003078	0.0003447	1.6611355	1.5806555	0.000148	0.0002927	0.0002927	0.0003278	1.5795943
300	0.0001636	0.0003236	0.0003236	0.0003624	1.7462059	1.6993947	0.0001591	0.0003147	0.0003147	0.0003524	1.6982539
301	0.0001719	0.0003399	0.0003399	0.0003807	1.8343843	1.8236019	0.0001707	0.0003377	0.0003377	0.0003782	1.8223777
302	0.0001803	0.0003565	0.0003565	0.0003993	1.9240021	1.9490962	0.0001825	0.0003609	0.0003609	0.0004042	1.9477877
303	0.0001885	0.0003728	0.0003728	0.0004175	2.0119304	2.0688049	0.0001937	0.0003831	0.0003831	0.000429	2.067416
304	0.0001352	0.0002674	0.0002674	0.0002995	1.4430525	1.2489581	0.0001169	0.0002313	0.0002313	0.000259	1.2481197
305	0.0001426	0.0002821	0.0002821	0.0003159	1.5224361	1.3503047	0.0001264	0.00025	0.00025	0.00028	1.3493982
306	0.000151	0.0002986	0.0002986	0.0003344	1.6113013	1.4675064	0.0001374	0.0002717	0.0002717	0.0003043	1.4665212
307	0.0001598	0.0003159	0.0003159	0.0003538	1.7051135	1.5955825	0.0001494	0.0002954	0.0002954	0.0003309	1.5945113
308	0.0001692	0.0003346	0.0003346	0.0003747	1.8056745	1.7369646	0.0001626	0.0003216	0.0003216	0.0003602	1.7357985
309	0.0001793	0.0003546	0.0003546	0.0003972	1.9139618	1.8928533	0.0001772	0.0003505	0.0003505	0.0003925	1.8915826
310	0.0001901	0.000376	0.000376	0.0004211	2.0293587	2.0619799	0.0001931	0.0003818	0.0003818	0.0004276	2.0605956
311	0.0002015	0.0003984	0.0003984	0.0004462	2.1501774	2.2387769	0.0002096	0.0004145	0.0004145	0.0004643	2.237274
312	0.0002131	0.0004214	0.0004214	0.0004719	2.2741799	2.4165264	0.0002263	0.0004475	0.0004475	0.0005011	2.4149041
313	0.0002245	0.0004439	0.0004439	0.0004972	2.3958516	2.580298	0.0002416	0.0004778	0.0004778	0.0005351	2.5785658
314	0.0002348	0.0004643	0.0004643	0.00052	2.5056925	2.7105113	0.0002538	0.0005019	0.0005019	0.0005621	2.7086916
315	0.0002421	0.0004788	0.0004788	0.0005363	2.5840797	2.7789071	0.0002602	0.0005146	0.0005146	0.0005763	2.7770415
316	0.0001724	0.000341	0.000341	0.0003819	1.8403491	1.7271747	0.0001617	0.0003198	0.0003198	0.0003582	1.7260151
317	0.0001842	0.0003644	0.0003644	0.0004081	1.9664941	1.9077446	0.0001786	0.0003532	0.0003532	0.0003956	1.9064639
318	0.0001973	0.0003902	0.0003902	0.000437	2.1056858	2.1142367	0.000198	0.0003915	0.0003915	0.0004385	2.1128173
319	0.0002116	0.0004184	0.0004184	0.0004686	2.2581426	2.346959	0.0002197	0.0004346	0.0004346	0.0004867	2.3453834
320	0.0002271	0.000449	0.000449	0.0005029	2.4234745	2.6012613	0.0002436	0.0004817	0.0004817	0.0005395	2.599515
321	0.0002436	0.0004818	0.0004818	0.0005396	2.6004196	2.0286064	0.0001899	0.0003756	0.0003756	0.0004207	2.0272445
322	0.0001683	0.0003329	0.0003329	0.0003728	1.7963955	1.2312521	0.0001153	0.000228	0.000228	0.0002553	1.2304255
323	0.0001727	0.0003416	0.0003416	0.0003826	1.8438282	1.2923643	0.000121	0.0002393	0.0002393	0.000268	1.2914967
324	0.0001771	0.0003503	0.0003503	0.0003923	1.8903162	1.3580538	0.0001272	0.0002515	0.0002515	0.0002816	1.3571421
325	0.0002176	0.0004304	0.0004304	0.0004821	2.3229426	2.3613868	0.0002211	0.0004372	0.0004372	0.0004897	2.3598015
326	0.0002365	0.0004677	0.0004677	0.0005238	2.5239435	1.871271	0.0001752	0.0003465	0.0003465	0.0003881	1.8700147
327	0.0002581	0.0005104	0.0005104	0.0005716	2.7546201	2.0883984	0.0001955	0.0003867	0.0003867	0.0004331	2.0869964
328	0.0001821	0.0003601	0.0003601	0.0004034	1.9436753	1.2731265	0.0001192	0.0002357	0.0002357	0.000264	1.2722718
329	0.0001875	0.0003709	0.0003709	0.0004154	2.0017885	1.3393062	0.0001254	0.000248	0.000248	0.0002777	1.3384071
330	0.0001926	0.0003809	0.0003809	0.0004266	2.0555645	1.411983	0.0001322	0.0002614	0.0002614	0.0002928	1.411035
331	0.000198	0.0003916	0.0003916	0.0004386	2.1132653	1.3185435	0.0001235	0.0002441	0.0002441	0.0002734	1.3176583
332	0.0002058	0.0004069	0.0004069	0.0004558	2.1963059	1.3891046	0.0001301	0.0002572	0.0002572	0.0002881	1.388172
333	0.0002121	0.0004194	0.0004194	0.0004697	2.2635816	1.4641978	0.0001371	0.0002711	0.0002711	0.0003037	1.4632149
334	0.0002173	0.0004298	0.0004298	0.0004814	2.3197043	1.5486321	0.000145	0.0002868	0.0002868	0.0003212	1.5475925
335	5.13E-05	0.0001015	0.0001015	0.0001136	0.5475612	0.3746888	3.508E-05	6.938E-05	6.938E-05	7.77E-05	0.3744373
336	5.289E-05	0.0001046	0.0001046	0.0001171	0.564485	0.3892376	3.644E-05	7.207E-05	7.207E-05	8.072E-05	0.3889763

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
337	5.452E-05	0.0001078	0.0001078	0.0001208	0.5818839	0.4044833	3.787E-05	7.49E-05	7.49E-05	8.388E-05	0.4042118
338	5.62E-05	0.0001111	0.0001111	0.0001245	0.5998709	0.4205369	3.937E-05	7.787E-05	7.787E-05	8.721E-05	0.4202545
339	5.24E-05	0.0001036	0.0001036	0.0001161	0.5592369	0.3771044	3.531E-05	6.983E-05	6.983E-05	7.821E-05	0.3768512
340	5.408E-05	0.0001069	0.0001069	0.0001198	0.5771753	0.3922655	3.673E-05	7.263E-05	7.263E-05	8.135E-05	0.3920021
341	5.581E-05	0.0001104	0.0001104	0.0001236	0.5956635	0.4082062	3.822E-05	7.558E-05	7.558E-05	8.466E-05	0.4079322
342	5.761E-05	0.0001139	0.0001139	0.0001276	0.6148586	0.4250728	3.98E-05	7.871E-05	7.871E-05	8.815E-05	0.4247875
343	5.349E-05	0.0001058	0.0001058	0.0001185	0.5709249	0.3788947	3.548E-05	7.016E-05	7.016E-05	7.858E-05	0.3786403
344	5.528E-05	0.0001093	0.0001093	0.0001224	0.589992	0.394687	3.695E-05	7.308E-05	7.308E-05	8.185E-05	0.394422
345	5.71E-05	0.0001129	0.0001129	0.0001265	0.6094829	0.4112091	3.85E-05	7.614E-05	7.614E-05	8.528E-05	0.410933
346	5.913E-05	0.0001169	0.0001169	0.000131	0.6311461	0.4296791	4.023E-05	7.956E-05	7.956E-05	8.911E-05	0.4293907
347	5.457E-05	0.0001079	0.0001079	0.0001209	0.582398	0.3798907	3.557E-05	7.034E-05	7.034E-05	7.878E-05	0.3796357
348	5.66E-05	0.0001119	0.0001119	0.0001254	0.6040781	0.3971893	3.719E-05	7.355E-05	7.355E-05	8.237E-05	0.3969226
349	5.859E-05	0.0001159	0.0001159	0.0001298	0.6253314	0.414738	3.883E-05	7.679E-05	7.679E-05	8.601E-05	0.4144596
350	6.065E-05	0.0001199	0.0001199	0.0001343	0.6473261	0.4333201	4.057E-05	8.024E-05	8.024E-05	8.986E-05	0.4330292
351	5.575E-05	0.0001103	0.0001103	0.0001235	0.5950597	0.3809299	3.567E-05	7.053E-05	7.053E-05	7.9E-05	0.3806742
352	5.788E-05	0.0001145	0.0001145	0.0001282	0.6177667	0.3986454	3.732E-05	7.381E-05	7.381E-05	8.267E-05	0.3983778
353	5.996E-05	0.0001186	0.0001186	0.0001328	0.6399972	0.4166263	3.901E-05	7.714E-05	7.714E-05	8.64E-05	0.4163466
354	6.212E-05	0.0001228	0.0001228	0.0001376	0.6629813	0.4356779	4.079E-05	8.067E-05	8.067E-05	9.035E-05	0.4353854
355	5.699E-05	0.0001127	0.0001127	0.0001262	0.6083107	0.3815756	3.573E-05	7.065E-05	7.065E-05	7.913E-05	0.3813194
356	5.91E-05	0.0001169	0.0001169	0.0001309	0.6308066	0.398895	3.735E-05	7.386E-05	7.386E-05	8.272E-05	0.3986272
357	6.132E-05	0.0001213	0.0001213	0.0001358	0.6544985	0.4175205	3.909E-05	7.731E-05	7.731E-05	8.659E-05	0.4172402
358	6.359E-05	0.0001257	0.0001257	0.0001408	0.6786697	0.4370855	4.092E-05	8.093E-05	8.093E-05	9.064E-05	0.4367921
359	5.832E-05	0.0001153	0.0001153	0.0001292	0.6224488	0.3819442	3.576E-05	7.072E-05	7.072E-05	7.921E-05	0.3816877
360	6.05E-05	0.0001197	0.0001197	0.000134	0.645772	0.3994459	3.74E-05	7.396E-05	7.396E-05	8.284E-05	0.3991777
361	6.274E-05	0.0001241	0.0001241	0.000139	0.6696375	0.4178752	3.912E-05	7.738E-05	7.738E-05	8.666E-05	0.4175946
362	6.51E-05	0.0001288	0.0001288	0.0001442	0.6948727	0.4377954	4.099E-05	8.106E-05	8.106E-05	9.079E-05	0.4375015
363	5.971E-05	0.0001181	0.0001181	0.0001322	0.6372715	0.3818558	3.575E-05	7.071E-05	7.071E-05	7.919E-05	0.3815994
364	6.205E-05	0.0001227	0.0001227	0.0001374	0.6622555	0.3999357	3.745E-05	7.405E-05	7.405E-05	8.294E-05	0.3996672
365	6.443E-05	0.0001274	0.0001274	0.0001427	0.687721	0.4189474	3.923E-05	7.757E-05	7.757E-05	8.688E-05	0.4186662
366	6.691E-05	0.0001323	0.0001323	0.0001482	0.7142026	0.4392715	4.113E-05	8.134E-05	8.134E-05	9.11E-05	0.4389766
367	6.11E-05	0.0001208	0.0001208	0.0001353	0.6521931	0.3809431	3.567E-05	7.054E-05	7.054E-05	7.9E-05	0.3806874
368	6.351E-05	0.0001256	0.0001256	0.0001407	0.6779093	0.398976	3.736E-05	7.388E-05	7.388E-05	8.274E-05	0.3987081
369	6.601E-05	0.0001305	0.0001305	0.0001462	0.704568	0.4182112	3.916E-05	7.744E-05	7.744E-05	8.673E-05	0.4179304
370	6.863E-05	0.0001357	0.0001357	0.000152	0.7324812	0.4389151	4.109E-05	8.127E-05	8.127E-05	9.102E-05	0.4386205
371	6.257E-05	0.0001237	0.0001237	0.0001386	0.6678413	0.3795106	3.553E-05	7.027E-05	7.027E-05	7.87E-05	0.3792559
372	6.512E-05	0.0001288	0.0001288	0.0001442	0.6950505	0.3978096	3.725E-05	7.366E-05	7.366E-05	8.25E-05	0.3975425
373	6.779E-05	0.0001341	0.0001341	0.0001501	0.7235085	0.417494	3.909E-05	7.73E-05	7.73E-05	8.658E-05	0.4172137
374	7.052E-05	0.0001395	0.0001395	0.0001562	0.7526678	0.4383715	4.104E-05	8.117E-05	8.117E-05	9.091E-05	0.4380772
375	6.412E-05	0.0001268	0.0001268	0.000142	0.6843951	0.3775974	3.535E-05	6.992E-05	6.992E-05	7.831E-05	0.3773439
376	6.679E-05	0.0001321	0.0001321	0.0001479	0.7128711	0.3959254	3.707E-05	7.331E-05	7.331E-05	8.211E-05	0.3956596
377	6.955E-05	0.0001375	0.0001375	0.0001541	0.7423395	0.4155072	3.89E-05	7.694E-05	7.694E-05	8.617E-05	0.4152283
378	7.244E-05	0.0001433	0.0001433	0.0001605	0.7731965	0.4366573	4.088E-05	8.085E-05	8.085E-05	9.056E-05	0.4363642
379	6.575E-05	0.00013	0.00013	0.0001456	0.7018107	0.3751297	3.512E-05	6.946E-05	6.946E-05	7.78E-05	0.3748779
380	6.861E-05	0.0001357	0.0001357	0.000152	0.7323262	0.3937314	3.686E-05	7.29E-05	7.29E-05	8.165E-05	0.3934671
381	7.151E-05	0.0001414	0.0001414	0.0001584	0.7632862	0.413334	3.87E-05	7.653E-05	7.653E-05	8.572E-05	0.4130565
382	7.456E-05	0.0001475	0.0001475	0.0001652	0.7958352	0.4346089	4.069E-05	8.047E-05	8.047E-05	9.013E-05	0.4343172
383	6.746E-05	0.0001334	0.0001334	0.0001494	0.7199846	0.3720208	3.483E-05	6.888E-05	6.888E-05	7.715E-05	0.3717711
384	7.045E-05	0.0001393	0.0001393	0.000156	0.7519278	0.3904426	3.656E-05	7.23E-05	7.23E-05	8.097E-05	0.3901805

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
385	7.354E-05	0.0001454	0.0001454	0.0001629	0.7849134	0.4101488	3.84E-05	7.594E-05	7.594E-05	8.506E-05	0.4098734
386	7.677E-05	0.0001518	0.0001518	0.00017	0.8193796	0.4314753	4.04E-05	7.989E-05	7.989E-05	8.948E-05	0.4311856
387	6.925E-05	0.000137	0.000137	0.0001534	0.7391496	0.3683484	3.449E-05	6.82E-05	6.82E-05	7.639E-05	0.3681011
388	7.241E-05	0.0001432	0.0001432	0.0001604	0.7728745	0.3865889	3.62E-05	7.158E-05	7.158E-05	8.017E-05	0.3863293
389	7.568E-05	0.0001497	0.0001497	0.0001676	0.8077572	0.4061479	3.803E-05	7.52E-05	7.52E-05	8.423E-05	0.4058753
390	7.91E-05	0.0001564	0.0001564	0.0001752	0.8442913	0.4273906	4.002E-05	7.914E-05	7.914E-05	8.863E-05	0.4271037
391	7.117E-05	0.0001408	0.0001408	0.0001576	0.7596317	0.3642227	3.41E-05	6.744E-05	6.744E-05	7.553E-05	0.3639782
392	7.452E-05	0.0001474	0.0001474	0.0001651	0.795408	0.3822117	3.579E-05	7.077E-05	7.077E-05	7.926E-05	0.3819551
393	7.802E-05	0.0001543	0.0001543	0.0001728	0.8327205	0.4016446	3.761E-05	7.437E-05	7.437E-05	8.329E-05	0.401375
394	8.165E-05	0.0001615	0.0001615	0.0001809	0.8715303	0.4226722	3.957E-05	7.826E-05	7.826E-05	8.766E-05	0.4223885
395	7.319E-05	0.0001447	0.0001447	0.0001621	0.7811571	0.3595247	3.366E-05	6.657E-05	6.657E-05	7.456E-05	0.3592833
396	7.68E-05	0.0001519	0.0001519	0.0001701	0.8197236	0.3773346	3.533E-05	6.987E-05	6.987E-05	7.825E-05	0.3770813
397	8.056E-05	0.0001593	0.0001593	0.0001784	0.8597993	0.396529	3.713E-05	7.342E-05	7.342E-05	8.223E-05	0.3962628
398	8.447E-05	0.000167	0.000167	0.0001871	0.9015453	0.4173501	3.908E-05	7.728E-05	7.728E-05	8.655E-05	0.4170699
399	7.535E-05	0.000149	0.000149	0.0001669	0.8042407	0.3544586	3.319E-05	6.563E-05	6.563E-05	7.351E-05	0.3542206
400	7.929E-05	0.0001568	0.0001568	0.0001756	0.8462462	0.3720658	3.484E-05	6.889E-05	6.889E-05	7.716E-05	0.371816
401	8.334E-05	0.0001648	0.0001648	0.0001846	0.8895367	0.3909169	3.66E-05	7.238E-05	7.238E-05	8.107E-05	0.3906545
402	8.76E-05	0.0001732	0.0001732	0.000194	0.934982	0.4115011	3.853E-05	7.62E-05	7.62E-05	8.534E-05	0.4112249
403	7.769E-05	0.0001536	0.0001536	0.0001721	0.8292483	0.3491553	3.269E-05	6.465E-05	6.465E-05	7.241E-05	0.3489209
404	8.201E-05	0.0001622	0.0001622	0.0001817	0.8753737	0.3664933	3.431E-05	6.786E-05	6.786E-05	7.6E-05	0.3662472
405	8.645E-05	0.000171	0.000171	0.0001915	0.9226882	0.3849634	3.604E-05	7.128E-05	7.128E-05	7.984E-05	0.384705
406	9.112E-05	0.0001802	0.0001802	0.0002018	0.9725775	0.4051958	3.794E-05	7.503E-05	7.503E-05	8.403E-05	0.4049238
407	8.022E-05	0.0001586	0.0001586	0.0001777	0.856172	0.3436387	3.217E-05	6.363E-05	6.363E-05	7.126E-05	0.343408
408	8.5E-05	0.0001681	0.0001681	0.0001883	0.9072095	0.3606237	3.376E-05	6.677E-05	6.677E-05	7.479E-05	0.3603816
409	8.991E-05	0.0001778	0.0001778	0.0001992	0.9596669	0.3786909	3.546E-05	7.012E-05	7.012E-05	7.853E-05	0.3784367
410	9.513E-05	0.0001881	0.0001881	0.0002107	1.0153534	0.3985513	3.732E-05	7.38E-05	7.38E-05	8.265E-05	0.3982837
411	8.291E-05	0.000164	0.000164	0.0001836	0.8849308	0.3379596	3.164E-05	6.258E-05	6.258E-05	7.009E-05	0.3377327
412	8.825E-05	0.0001745	0.0001745	0.0001955	0.941881	0.3545141	3.319E-05	6.564E-05	6.564E-05	7.352E-05	0.3542761
413	9.379E-05	0.0001855	0.0001855	0.0002077	1.0010255	0.3721728	3.485E-05	6.891E-05	6.891E-05	7.718E-05	0.3719229
414	9.97E-05	0.0001972	0.0001972	0.0002208	1.0641094	0.3915817	3.666E-05	7.251E-05	7.251E-05	8.121E-05	0.3913188
415	8.575E-05	0.0001696	0.0001696	0.0001899	0.9151954	0.3321636	3.11E-05	6.15E-05	6.15E-05	6.889E-05	0.3319406
416	9.178E-05	0.0001815	0.0001815	0.0002033	0.9796177	0.3482875	3.261E-05	6.449E-05	6.449E-05	7.223E-05	0.3480537
417	9.811E-05	0.000194	0.000194	0.0002173	1.0471164	0.3654599	3.422E-05	6.767E-05	6.767E-05	7.579E-05	0.3652145
418	0.0001049	0.0002074	0.0002074	0.0002323	1.1192043	0.3842265	3.597E-05	7.114E-05	7.114E-05	7.968E-05	0.3839685
419	8.866E-05	0.0001753	0.0001753	0.0001964	0.9463096	0.326307	3.055E-05	6.042E-05	6.042E-05	6.767E-05	0.3260879
420	9.556E-05	0.000189	0.000189	0.0002117	1.0199759	0.3419827	3.202E-05	6.332E-05	6.332E-05	7.092E-05	0.3417531
421	0.0001028	0.0002034	0.0002034	0.0002278	1.097547	0.3585317	3.357E-05	6.639E-05	6.639E-05	7.435E-05	0.358291
422	0.0001107	0.000219	0.000219	0.0002453	1.1818114	0.3766604	3.527E-05	6.974E-05	6.974E-05	7.811E-05	0.3764075
423	9.154E-05	0.000181	0.000181	0.0002028	0.9770062	0.320426	3E-05	5.933E-05	5.933E-05	6.645E-05	0.3202109
424	9.944E-05	0.0001967	0.0001967	0.0002202	1.0613276	0.3355585	3.142E-05	6.213E-05	6.213E-05	6.959E-05	0.3353333
425	0.0001079	0.0002135	0.0002135	0.0002391	1.1521302	0.3515395	3.291E-05	6.509E-05	6.509E-05	7.29E-05	0.3513035
426	0.0001174	0.0002322	0.0002322	0.00026	1.2530201	0.3690613	3.455E-05	6.834E-05	6.834E-05	7.654E-05	0.3688135
427	9.418E-05	0.0001863	0.0001863	0.0002086	1.0052118	0.3145411	2.945E-05	5.824E-05	5.824E-05	6.523E-05	0.3143299
428	0.0001032	0.0002041	0.0002041	0.0002286	1.1017591	0.3291098	3.081E-05	6.094E-05	6.094E-05	6.825E-05	0.3288889
429	0.0001133	0.000224	0.000224	0.0002509	1.2088406	0.3445087	3.226E-05	6.379E-05	6.379E-05	7.145E-05	0.3442775
430	0.0001248	0.0002467	0.0002467	0.0002763	1.3315819	0.3614019	3.384E-05	6.692E-05	6.692E-05	7.495E-05	0.3611593
431	9.632E-05	0.0001905	0.0001905	0.0002133	1.0280516	0.3086675	2.89E-05	5.715E-05	5.715E-05	6.401E-05	0.3084603
432	0.0001066	0.0002108	0.0002108	0.0002361	1.1378307	0.3226797	3.021E-05	5.975E-05	5.975E-05	6.692E-05	0.322463

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	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
433	0.0001184	0.0002342	0.0002342	0.0002623	1.2638579	0.3374903	3.16E-05	6.249E-05	6.249E-05	6.999E-05	0.3372637
434	0.0001325	0.000262	0.000262	0.0002935	1.4141196	0.3537329	3.312E-05	6.55E-05	6.55E-05	7.336E-05	0.3534954
435	9.772E-05	0.0001933	0.0001933	0.0002165	1.043046	0.3029146	2.836E-05	5.609E-05	5.609E-05	6.282E-05	0.3027112
436	0.0001092	0.0002159	0.0002159	0.0002419	1.1654641	0.316362	2.962E-05	5.858E-05	5.858E-05	6.561E-05	0.3161497
437	0.0001228	0.0002429	0.0002429	0.0002721	1.3111891	0.3305563	3.095E-05	6.121E-05	6.121E-05	6.855E-05	0.3303344
438	0.00014	0.0002768	0.0002768	0.00031	1.4939217	0.3461704	3.241E-05	6.41E-05	6.41E-05	7.179E-05	0.345938
439	9.802E-05	0.0001939	0.0001939	0.0002171	1.0462253	0.2971793	2.782E-05	5.503E-05	5.503E-05	6.163E-05	0.2969798
440	0.0001104	0.0002184	0.0002184	0.0002446	1.178744	0.3100975	2.903E-05	5.742E-05	5.742E-05	6.431E-05	0.3098893
441	0.0001257	0.0002486	0.0002486	0.0002784	1.3415448	0.3236722	3.03E-05	5.993E-05	5.993E-05	6.712E-05	0.3234549
442	0.0001458	0.0002884	0.0002884	0.000323	1.5563438	0.3386384	3.171E-05	6.27E-05	6.27E-05	7.023E-05	0.3384111
443	9.7E-05	0.0001918	0.0001918	0.0002148	1.0353021	0.2914154	2.728E-05	5.396E-05	5.396E-05	6.043E-05	0.2912197
444	0.0001098	0.0002172	0.0002172	0.0002433	1.1723514	0.3037917	2.844E-05	5.625E-05	5.625E-05	6.3E-05	0.3035878
445	0.0001261	0.0002494	0.0002494	0.0002793	1.3457526	0.3168115	2.966E-05	5.866E-05	5.866E-05	6.57E-05	0.3165988
446	0.0001482	0.0002931	0.0002931	0.0003283	1.582015	0.3310533	3.1E-05	6.13E-05	6.13E-05	6.865E-05	0.330831
447	9.478E-05	0.0001874	0.0001874	0.0002099	1.0116664	0.2856971	2.675E-05	5.29E-05	5.29E-05	5.925E-05	0.2855053
448	0.0001074	0.0002123	0.0002123	0.0002378	1.1458	0.2974654	2.785E-05	5.508E-05	5.508E-05	6.169E-05	0.2972657
449	0.0001237	0.0002447	0.0002447	0.000274	1.320452	0.3100151	2.903E-05	5.74E-05	5.74E-05	6.429E-05	0.309807
450	0.0001462	0.0002891	0.0002891	0.0003238	1.560122	0.3235368	3.029E-05	5.991E-05	5.991E-05	6.71E-05	0.3233196

Mitigated Residential Health Risk Assessment

4. Non-Cancer Risk Summary

Mt. Etna Community Plan Amendment and Rezone Project
Mitigated Residential - Construction Non-Cancer Risk Summary

320	Receptor
0.007	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
1	482241	3630879	0.0003699	3.738E-05	4.193E-05	2.685E-05	2.196E-05	8.624E-06	0.0003416	3.16E-06	2.513E-05
2	482291	3630879	0.0003954	3.912E-05	4.388E-05	2.811E-05	2.298E-05	9.031E-06	0.0003658	3.306E-06	2.629E-05
3	482341	3630879	0.0004217	4.064E-05	4.559E-05	2.921E-05	2.386E-05	9.391E-06	0.000391	3.433E-06	2.731E-05
4	482391	3630879	0.0004481	4.187E-05	4.697E-05	3.009E-05	2.457E-05	9.685E-06	0.0004164	3.535E-06	2.812E-05
5	482441	3630879	0.0004768	4.306E-05	4.83E-05	3.096E-05	2.526E-05	9.974E-06	0.0004443	3.633E-06	2.89E-05
6	482491	3630879	0.0005078	4.425E-05	4.963E-05	3.182E-05	2.594E-05	1.026E-05	0.0004743	3.731E-06	2.968E-05
7	482541	3630879	0.0005408	4.551E-05	5.104E-05	3.274E-05	2.665E-05	1.057E-05	0.0005065	3.835E-06	3.05E-05
8	482591	3630879	0.0005746	4.684E-05	5.253E-05	3.37E-05	2.742E-05	1.089E-05	0.0005392	3.944E-06	3.138E-05
9	482641	3630879	0.0006125	4.864E-05	5.455E-05	3.501E-05	2.846E-05	1.132E-05	0.0005758	4.094E-06	3.257E-05
10	482691	3630879	0.0006473	5.041E-05	5.653E-05	3.629E-05	2.948E-05	1.174E-05	0.0006093	4.242E-06	3.374E-05
11	482741	3630879	0.0006865	5.263E-05	5.901E-05	3.789E-05	3.077E-05	1.227E-05	0.0006469	4.426E-06	3.521E-05
12	482791	3630879	0.0007206	5.45E-05	6.111E-05	3.924E-05	3.185E-05	1.271E-05	0.0006795	4.583E-06	3.645E-05
13	482841	3630879	0.0007529	5.616E-05	6.297E-05	4.044E-05	3.281E-05	1.311E-05	0.0007106	4.721E-06	3.755E-05
14	482891	3630879	0.0007776	5.728E-05	6.423E-05	4.125E-05	3.346E-05	1.338E-05	0.0007345	4.814E-06	3.829E-05
15	483191	3630879	0.0007819	5.685E-05	6.374E-05	4.094E-05	3.32E-05	1.328E-05	0.0007391	4.776E-06	3.799E-05
16	483241	3630879	0.0007671	5.548E-05	6.221E-05	3.996E-05	3.24E-05	1.297E-05	0.0007254	4.661E-06	3.708E-05
17	482241	3630929	0.0003892	4.174E-05	4.683E-05	2.998E-05	2.455E-05	9.612E-06	0.0003575	3.532E-06	2.809E-05
18	482291	3630929	0.0004189	4.423E-05	4.962E-05	3.177E-05	2.601E-05	1.019E-05	0.0003854	3.741E-06	2.976E-05
19	482341	3630929	0.0004508	4.66E-05	5.228E-05	3.347E-05	2.739E-05	1.074E-05	0.0004155	3.94E-06	3.134E-05
20	482391	3630929	0.0004847	4.877E-05	5.471E-05	3.504E-05	2.865E-05	1.125E-05	0.0004478	4.122E-06	3.279E-05
21	482441	3630929	0.0005193	5.059E-05	5.675E-05	3.635E-05	2.971E-05	1.169E-05	0.000481	4.274E-06	3.4E-05
22	482491	3630929	0.0005572	5.235E-05	5.872E-05	3.763E-05	3.072E-05	1.211E-05	0.0005177	4.42E-06	3.516E-05
23	482841	3630929	0.0008793	6.863E-05	7.696E-05	4.94E-05	4.014E-05	1.599E-05	0.0008276	5.775E-06	4.593E-05
24	482891	3630929	0.0009157	7.023E-05	7.875E-05	5.056E-05	4.106E-05	1.637E-05	0.0008628	5.907E-06	4.699E-05
25	483141	3630929	0.0009348	6.971E-05	7.817E-05	5.02E-05	4.073E-05	1.627E-05	0.0008823	5.86E-06	4.662E-05
26	483191	3630929	0.0009206	6.799E-05	7.624E-05	4.896E-05	3.972E-05	1.588E-05	0.0008695	5.714E-06	4.545E-05
27	483241	3630929	0.0008978	6.552E-05	7.347E-05	4.719E-05	3.827E-05	1.531E-05	0.0008485	5.505E-06	4.379E-05
28	482241	3630979	0.0004041	4.602E-05	5.164E-05	3.304E-05	2.709E-05	1.058E-05	0.0003692	3.897E-06	3.1E-05
29	482341	3630979	0.00048	5.348E-05	6E-05	3.839E-05	3.147E-05	1.23E-05	0.0004395	4.527E-06	3.601E-05
30	482391	3630979	0.0005202	5.679E-05	6.372E-05	4.078E-05	3.341E-05	1.307E-05	0.0004772	4.806E-06	3.823E-05
31	482441	3630979	0.0005665	6.018E-05	6.752E-05	4.322E-05	3.539E-05	1.386E-05	0.0005209	5.091E-06	4.05E-05
32	482491	3630979	0.0006186	6.354E-05	7.129E-05	4.565E-05	3.735E-05	1.465E-05	0.0005705	5.373E-06	4.274E-05
33	482541	3630979	0.0006696	6.616E-05	7.422E-05	4.754E-05	3.886E-05	1.528E-05	0.0006195	5.591E-06	4.447E-05
34	482591	3630979	0.0007198	6.832E-05	7.664E-05	4.911E-05	4.011E-05	1.58E-05	0.0006681	5.77E-06	4.59E-05
35	482641	3630979	0.0007836	7.169E-05	8.041E-05	5.153E-05	4.205E-05	1.66E-05	0.0007294	6.05E-06	4.812E-05
36	482691	3630979	0.0008459	7.511E-05	8.424E-05	5.401E-05	4.403E-05	1.741E-05	0.0007891	6.335E-06	5.039E-05
37	482791	3630979	0.0009867	8.342E-05	9.356E-05	6E-05	4.886E-05	1.937E-05	0.0009237	7.03E-06	5.592E-05
38	482841	3630979	0.0010464	8.635E-05	9.684E-05	6.212E-05	5.056E-05	2.007E-05	0.0009813	7.273E-06	5.786E-05
39	482891	3630979	0.0010984	8.852E-05	9.927E-05	6.37E-05	5.18E-05	2.059E-05	0.0010317	7.453E-06	5.928E-05
40	483141	3630979	0.0011248	8.552E-05	9.589E-05	6.157E-05	4.999E-05	1.994E-05	0.0010604	7.192E-06	5.721E-05
41	483191	3630979	0.0011054	8.228E-05	9.226E-05	5.925E-05	4.808E-05	1.921E-05	0.0010435	6.917E-06	5.502E-05
42	483241	3630979	0.0010678	7.796E-05	8.741E-05	5.615E-05	4.553E-05	1.821E-05	0.0010092	6.551E-06	5.211E-05
43	482241	3631029	0.0004201	5.071E-05	5.691E-05	3.639E-05	2.987E-05	1.164E-05	0.0003816	4.298E-06	3.419E-05
44	482291	3631029	0.0004614	5.572E-05	6.253E-05	3.999E-05	3.283E-05	1.279E-05	0.0004191	4.723E-06	3.757E-05

Mt. Etna Community Plan Amendment and Rezone Project
Mitigated Residential - Construction Non-Cancer Risk Summary

320	Receptor
0.007	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
45	482341	3631029	0.0005084	6.115E-05	6.862E-05	4.389E-05	3.602E-05	1.404E-05	0.000462	5.182E-06	4.122E-05
46	482441	3631029	0.0006152	7.195E-05	8.073E-05	5.164E-05	4.236E-05	1.653E-05	0.0005606	6.095E-06	4.848E-05
47	482491	3631029	0.0006777	7.719E-05	8.661E-05	5.541E-05	4.544E-05	1.774E-05	0.0006192	6.537E-06	5.2E-05
48	482541	3631029	0.0007416	8.155E-05	9.149E-05	5.855E-05	4.798E-05	1.876E-05	0.0006798	6.902E-06	5.49E-05
49	482591	3631029	0.0008102	8.553E-05	9.595E-05	6.143E-05	5.029E-05	1.97E-05	0.0007454	7.235E-06	5.755E-05
50	482641	3631029	0.0008963	9.075E-05	0.0001018	6.519E-05	5.332E-05	2.094E-05	0.0008276	7.672E-06	6.102E-05
51	482691	3631029	0.0009819	9.583E-05	0.0001075	6.886E-05	5.628E-05	2.214E-05	0.0009094	8.097E-06	6.441E-05
52	482791	3631029	0.001181	0.0001081	0.0001213	7.774E-05	6.344E-05	2.503E-05	0.0010993	9.126E-06	7.26E-05
53	482841	3631029	0.0012702	0.0001125	0.0001262	8.088E-05	6.594E-05	2.607E-05	0.0011853	9.487E-06	7.546E-05
54	482891	3631029	0.00135	0.0001156	0.0001296	8.311E-05	6.77E-05	2.682E-05	0.0012628	9.741E-06	7.748E-05
55	482941	3631029	0.0014058	0.000117	0.0001312	8.415E-05	6.849E-05	2.717E-05	0.0013175	9.854E-06	7.838E-05
56	482991	3631029	0.001436	0.0001171	0.0001313	8.426E-05	6.855E-05	2.723E-05	0.0013477	9.862E-06	7.844E-05
57	483141	3631029	0.0013838	0.0001063	0.0001192	7.653E-05	6.216E-05	2.478E-05	0.0013037	8.942E-06	7.113E-05
58	483191	3631029	0.0013401	0.0001	0.0001121	7.201E-05	5.844E-05	2.334E-05	0.0012648	8.407E-06	6.687E-05
59	483241	3631029	0.0012889	9.304E-05	0.0001043	6.701E-05	5.432E-05	2.175E-05	0.0012189	7.815E-06	6.217E-05
60	482241	3631079	0.0004309	5.476E-05	6.145E-05	3.929E-05	3.228E-05	1.255E-05	0.0003893	4.644E-06	3.694E-05
61	482291	3631079	0.0004777	6.137E-05	6.887E-05	4.403E-05	3.618E-05	1.406E-05	0.0004311	5.205E-06	4.141E-05
62	482341	3631079	0.0005307	6.872E-05	7.712E-05	4.93E-05	4.052E-05	1.574E-05	0.0004785	5.829E-06	4.637E-05
63	482391	3631079	0.0005926	7.699E-05	8.64E-05	5.523E-05	4.539E-05	1.763E-05	0.0005342	6.531E-06	5.195E-05
64	482441	3631079	0.0006619	8.568E-05	9.616E-05	6.147E-05	5.052E-05	1.963E-05	0.0005969	7.268E-06	5.781E-05
65	482591	3631079	0.000914	0.0001101	0.0001235	7.901E-05	6.485E-05	2.527E-05	0.0008305	9.33E-06	7.422E-05
66	482641	3631079	0.0010292	0.0001189	0.0001334	8.532E-05	6.998E-05	2.731E-05	0.0009391	1.007E-05	8.008E-05
67	482691	3631079	0.0011491	0.0001272	0.0001427	9.13E-05	7.482E-05	2.926E-05	0.0010527	1.076E-05	8.562E-05
68	482791	3631079	0.0014431	0.0001468	0.0001647	0.0001055	8.629E-05	3.387E-05	0.001332	1.241E-05	9.875E-05
69	482841	3631079	0.001589	0.0001539	0.0001726	0.0001106	9.034E-05	3.555E-05	0.0014727	1.3E-05	0.0001034
70	482891	3631079	0.0017156	0.0001581	0.0001773	0.0001136	9.274E-05	3.658E-05	0.0015962	1.334E-05	0.0001061
71	482941	3631079	0.0018087	0.000159	0.0001783	0.0001143	9.321E-05	3.686E-05	0.0016886	1.341E-05	0.0001067
72	482991	3631079	0.0018525	0.0001571	0.0001762	0.000113	9.205E-05	3.648E-05	0.0017339	1.324E-05	0.0001053
73	482241	3631129	0.0004369	5.778E-05	6.485E-05	4.145E-05	3.408E-05	1.323E-05	0.000393	4.903E-06	3.9E-05
74	482291	3631129	0.0004866	6.575E-05	7.379E-05	4.716E-05	3.879E-05	1.504E-05	0.0004366	5.58E-06	4.439E-05
75	482341	3631129	0.0005464	7.54E-05	8.463E-05	5.408E-05	4.449E-05	1.724E-05	0.0004891	6.401E-06	5.092E-05
76	482391	3631129	0.0006192	8.713E-05	9.779E-05	6.248E-05	5.142E-05	1.992E-05	0.000553	7.398E-06	5.885E-05
77	482441	3631129	0.0007056	0.0001008	0.0001132	7.23E-05	5.952E-05	2.304E-05	0.0006289	8.563E-06	6.811E-05
78	482491	3631129	0.0007991	0.0001151	0.0001292	8.252E-05	6.794E-05	2.629E-05	0.0007116	9.775E-06	7.775E-05
79	482541	3631129	0.0009107	0.0001308	0.0001468	9.379E-05	7.722E-05	2.989E-05	0.0008112	1.111E-05	8.837E-05
80	482691	3631129	0.0013572	0.0001781	0.0001998	0.0001277	0.000105	4.078E-05	0.0012219	1.511E-05	0.0001202
81	482791	3631129	0.0018056	0.0002129	0.0002389	0.0001528	0.0001254	4.89E-05	0.001644	1.804E-05	0.0001435
82	482841	3631129	0.0020512	0.0002245	0.0002519	0.0001612	0.0001321	5.166E-05	0.0018811	1.9E-05	0.0001511
83	482891	3631129	0.0022903	0.0002279	0.0002557	0.0001638	0.0001339	5.261E-05	0.0021178	1.926E-05	0.0001532
84	482941	3631129	0.0024705	0.0002272	0.0002549	0.0001633	0.0001333	5.259E-05	0.0022988	1.918E-05	0.0001526
85	482991	3631129	0.0025403	0.0002189	0.0002456	0.0001575	0.0001283	5.08E-05	0.002375	1.846E-05	0.0001468
86	482241	3631179	0.0004297	5.826E-05	6.538E-05	4.178E-05	3.437E-05	1.333E-05	0.0003854	4.944E-06	3.933E-05
87	482291	3631179	0.0004899	6.853E-05	7.691E-05	4.914E-05	4.044E-05	1.567E-05	0.0004378	5.818E-06	4.628E-05
88	482341	3631179	0.0005601	8.106E-05	9.097E-05	5.812E-05	4.785E-05	1.852E-05	0.0004985	6.884E-06	5.476E-05

Mt. Etna Community Plan Amendment and Rezone Project
Mitigated Residential - Construction Non-Cancer Risk Summary

320	Receptor
0.007	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
89	482391	3631179	0.0006417	9.622E-05	0.000108	6.898E-05	5.683E-05	2.196E-05	0.0005685	8.176E-06	6.503E-05
90	482441	3631179	0.0007389	0.0001149	0.0001289	8.233E-05	6.786E-05	2.62E-05	0.0006514	9.763E-06	7.766E-05
91	482491	3631179	0.0008574	0.000138	0.0001549	9.888E-05	8.155E-05	3.145E-05	0.0007524	1.173E-05	9.332E-05
92	482541	3631179	0.0009996	0.0001656	0.0001859	0.0001186	9.788E-05	3.771E-05	0.0008735	1.408E-05	0.000112
93	482591	3631179	0.0011672	0.0001968	0.0002209	0.000141	0.0001163	4.48E-05	0.0010173	1.674E-05	0.0001331
94	482641	3631179	0.0013724	0.0002315	0.0002599	0.0001659	0.0001369	5.271E-05	0.001196	1.969E-05	0.0001567
95	482941	3631179	0.0037445	0.0003448	0.0003868	0.0002479	0.0002023	7.981E-05	0.0034838	2.911E-05	0.0002315
96	482991	3631179	0.0039001	0.0003168	0.0003553	0.000228	0.0001854	7.367E-05	0.0036613	2.668E-05	0.0002122
97	482241	3631229	0.0004344	5.965E-05	6.695E-05	4.278E-05	3.519E-05	1.364E-05	0.0003891	5.063E-06	4.028E-05
98	482291	3631229	0.0004905	6.988E-05	7.843E-05	5.011E-05	4.125E-05	1.597E-05	0.0004374	5.934E-06	4.72E-05
99	482341	3631229	0.0005598	8.316E-05	9.333E-05	5.962E-05	4.911E-05	1.898E-05	0.0004965	7.065E-06	5.62E-05
100	482491	3631229	0.0009054	0.0001584	0.0001778	0.0001135	9.371E-05	3.605E-05	0.0007847	1.348E-05	0.0001072
101	482541	3631229	0.0010801	0.0002017	0.0002264	0.0001445	0.0001194	4.584E-05	0.0009263	1.717E-05	0.0001366
102	482591	3631229	0.0013073	0.0002611	0.0002931	0.000187	0.0001546	5.927E-05	0.0011081	2.224E-05	0.0001769
103	482641	3631229	0.0016145	0.0003441	0.0003864	0.0002464	0.0002039	7.803E-05	0.0013518	2.933E-05	0.0002333
104	482241	3631279	0.0004247	5.827E-05	6.54E-05	4.179E-05	3.438E-05	1.333E-05	0.0003804	4.946E-06	3.935E-05
105	482291	3631279	0.0004838	6.909E-05	7.754E-05	4.954E-05	4.078E-05	1.579E-05	0.0004312	5.867E-06	4.667E-05
106	482341	3631279	0.0005583	8.354E-05	9.376E-05	5.989E-05	4.933E-05	1.907E-05	0.0004947	7.098E-06	5.646E-05
107	482591	3631279	0.0014416	0.0003242	0.000364	0.0002321	0.0001922	7.346E-05	0.0011941	2.764E-05	0.0002199
108	482641	3631279	0.0018976	0.0004939	0.0005546	0.0003534	0.000293	0.0001117	0.0015202	4.215E-05	0.0003353
109	482241	3631329	0.0004101	5.564E-05	6.245E-05	3.991E-05	3.283E-05	1.273E-05	0.0003678	4.723E-06	3.757E-05
110	482291	3631329	0.0004693	6.632E-05	7.443E-05	4.756E-05	3.914E-05	1.516E-05	0.0004188	5.631E-06	4.479E-05
111	482341	3631329	0.0005424	8.038E-05	9.022E-05	5.763E-05	4.747E-05	1.835E-05	0.0004813	6.829E-06	5.432E-05
112	482591	3631329	0.0015404	0.0003583	0.0004024	0.0002565	0.0002124	8.115E-05	0.0012668	3.056E-05	0.0002431
113	482641	3631329	0.0021491	0.0006065	0.0006811	0.0004339	0.00036	0.000137	0.0016853	5.179E-05	0.000412
114	482241	3631379	0.0003939	5.246E-05	5.888E-05	3.763E-05	3.094E-05	1.201E-05	0.0003541	4.452E-06	3.541E-05
115	482291	3631379	0.000449	6.221E-05	6.982E-05	4.461E-05	3.671E-05	1.423E-05	0.0004017	5.281E-06	4.201E-05
116	482341	3631379	0.0005197	7.541E-05	8.464E-05	5.407E-05	4.452E-05	1.723E-05	0.0004624	6.405E-06	5.095E-05
117	482391	3631379	0.0006103	9.351E-05	0.000105	6.703E-05	5.524E-05	2.133E-05	0.0005391	7.947E-06	6.322E-05
118	482591	3631379	0.0015613	0.0003479	0.0003906	0.000249	0.0002062	7.883E-05	0.0012957	2.966E-05	0.0002359
119	482641	3631379	0.0023018	0.0006164	0.0006922	0.0004411	0.0003657	0.0001393	0.0018307	5.262E-05	0.0004186
120	482241	3631429	0.0003757	4.892E-05	5.49E-05	3.509E-05	2.884E-05	1.12E-05	0.0003386	4.15E-06	3.301E-05
121	482291	3631429	0.0004271	5.773E-05	6.479E-05	4.141E-05	3.406E-05	1.321E-05	0.0003833	4.9E-06	3.897E-05
122	482341	3631429	0.0004928	6.959E-05	7.81E-05	4.99E-05	4.107E-05	1.591E-05	0.0004399	5.909E-06	4.7E-05
123	482391	3631429	0.0005751	8.548E-05	9.595E-05	6.128E-05	5.048E-05	1.952E-05	0.00051	7.263E-06	5.777E-05
124	482591	3631429	0.0014631	0.0003023	0.0003394	0.0002164	0.000179	6.857E-05	0.0012325	2.576E-05	0.0002049
125	482641	3631429	0.0022197	0.0005212	0.0005852	0.0003731	0.000309	0.000118	0.0018216	4.445E-05	0.0003536
126	482241	3631479	0.0003584	4.555E-05	5.112E-05	3.268E-05	2.685E-05	1.044E-05	0.0003238	3.863E-06	3.073E-05
127	482291	3631479	0.0004052	5.333E-05	5.985E-05	3.825E-05	3.145E-05	1.221E-05	0.0003646	4.524E-06	3.599E-05
128	482341	3631479	0.0004641	6.362E-05	7.14E-05	4.562E-05	3.753E-05	1.455E-05	0.0004157	5.4E-06	4.295E-05
129	482391	3631479	0.0005401	7.763E-05	8.713E-05	5.567E-05	4.583E-05	1.774E-05	0.000481	6.593E-06	5.245E-05
130	482441	3631479	0.0006383	9.706E-05	0.0001089	6.958E-05	5.733E-05	2.215E-05	0.0005645	8.249E-06	6.561E-05
131	482491	3631479	0.0007753	0.0001259	0.0001413	9.024E-05	7.443E-05	2.869E-05	0.0006794	1.071E-05	8.517E-05
132	482541	3631479	0.0009745	0.0001709	0.0001918	0.0001224	0.0001011	3.887E-05	0.0008443	1.454E-05	0.0001157

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Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
133	482591	3631479	0.001295	0.0002472	0.0002775	0.000177	0.0001463	5.615E-05	0.0011065	2.105E-05	0.0001674
134	482641	3631479	0.0018696	0.0003887	0.0004364	0.0002783	0.0002302	8.817E-05	0.001573	3.312E-05	0.0002635
135	482691	3631479	0.0032126	0.0006979	0.0007836	0.0004996	0.0004135	0.0001582	0.0026798	5.949E-05	0.0004732
136	482241	3631529	0.0003417	4.235E-05	4.753E-05	3.039E-05	2.496E-05	9.712E-06	0.0003095	3.591E-06	2.856E-05
137	482291	3631529	0.0003855	4.934E-05	5.537E-05	3.54E-05	2.909E-05	1.131E-05	0.0003481	4.185E-06	3.329E-05
138	482341	3631529	0.0004377	5.815E-05	6.526E-05	4.171E-05	3.43E-05	1.331E-05	0.0003935	4.934E-06	3.925E-05
139	482391	3631529	0.0005043	6.997E-05	7.853E-05	5.018E-05	4.129E-05	1.6E-05	0.0004511	5.94E-06	4.725E-05
140	482441	3631529	0.0005932	8.648E-05	9.707E-05	6.201E-05	5.106E-05	1.975E-05	0.0005274	7.346E-06	5.843E-05
141	482491	3631529	0.0007128	0.0001099	0.0001234	7.879E-05	6.493E-05	2.507E-05	0.0006292	9.342E-06	7.431E-05
142	482541	3631529	0.0008766	0.0001438	0.0001615	0.0001031	8.503E-05	3.277E-05	0.0007671	1.223E-05	9.731E-05
143	482591	3631529	0.0011218	0.000196	0.00022	0.0001404	0.0001159	4.46E-05	0.0009725	1.668E-05	0.0001327
144	482641	3631529	0.0015048	0.0002745	0.0003082	0.0001967	0.0001624	6.242E-05	0.0012956	2.337E-05	0.0001859
145	482691	3631529	0.0021636	0.0003994	0.0004483	0.0002861	0.0002363	9.078E-05	0.0018591	3.4E-05	0.0002705
146	482241	3631579	0.0003259	3.934E-05	4.415E-05	2.824E-05	2.318E-05	9.029E-06	0.000296	3.334E-06	2.652E-05
147	482291	3631579	0.0003646	4.534E-05	5.088E-05	3.253E-05	2.672E-05	1.04E-05	0.0003302	3.844E-06	3.058E-05
148	482341	3631579	0.0004122	5.302E-05	5.951E-05	3.804E-05	3.126E-05	1.215E-05	0.000372	4.497E-06	3.578E-05
149	482391	3631579	0.0004735	6.325E-05	7.098E-05	4.537E-05	3.731E-05	1.448E-05	0.0004254	5.367E-06	4.269E-05
150	482441	3631579	0.0005483	7.645E-05	8.58E-05	5.483E-05	4.512E-05	1.748E-05	0.0004901	6.491E-06	5.163E-05
151	482491	3631579	0.0006472	9.449E-05	0.000106	6.774E-05	5.579E-05	2.158E-05	0.0005753	8.026E-06	6.384E-05
152	482541	3631579	0.0007756	0.0001171	0.0001314	8.392E-05	6.914E-05	2.672E-05	0.0006865	9.948E-06	7.913E-05
153	482591	3631579	0.0009565	0.0001513	0.0001698	0.0001084	8.94E-05	3.449E-05	0.0008414	1.286E-05	0.0001023
154	482641	3631579	0.0011887	0.0001908	0.0002141	0.0001367	0.0001127	4.348E-05	0.0010434	1.622E-05	0.000129
155	482691	3631579	0.001548	0.0002464	0.0002765	0.0001766	0.0001456	5.616E-05	0.0013604	2.095E-05	0.0001666
156	482241	3631629	0.0003106	3.653E-05	4.099E-05	2.622E-05	2.151E-05	8.39E-06	0.0002829	3.095E-06	2.462E-05
157	482291	3631629	0.0003468	4.189E-05	4.7E-05	3.006E-05	2.468E-05	9.612E-06	0.000315	3.55E-06	2.824E-05
158	482341	3631629	0.0003886	4.837E-05	5.428E-05	3.471E-05	2.851E-05	1.109E-05	0.0003519	4.101E-06	3.262E-05
159	482391	3631629	0.0004409	5.671E-05	6.364E-05	4.068E-05	3.343E-05	1.299E-05	0.0003978	4.81E-06	3.826E-05
160	482441	3631629	0.0005059	6.736E-05	7.56E-05	4.832E-05	3.973E-05	1.542E-05	0.0004547	5.716E-06	4.547E-05
161	482491	3631629	0.000587	8.095E-05	9.085E-05	5.806E-05	4.777E-05	1.851E-05	0.0005254	6.872E-06	5.466E-05
162	482541	3631629	0.0006873	9.722E-05	0.0001091	6.971E-05	5.738E-05	2.222E-05	0.0006134	8.255E-06	6.566E-05
163	482591	3631629	0.0008145	0.0001171	0.0001314	8.398E-05	6.914E-05	2.676E-05	0.0007254	9.947E-06	7.912E-05
164	482641	3631629	0.0009633	0.0001395	0.0001566	0.0001	8.235E-05	3.186E-05	0.0008573	1.185E-05	9.424E-05
165	482691	3631629	0.0011904	0.0001707	0.0001915	0.0001224	0.0001007	3.899E-05	0.0010606	1.449E-05	0.0001153
166	482241	3631679	0.0002958	3.393E-05	3.807E-05	2.436E-05	1.997E-05	7.798E-06	0.00027	2.874E-06	2.286E-05
167	482291	3631679	0.0003271	3.843E-05	4.312E-05	2.758E-05	2.263E-05	8.825E-06	0.0002979	3.255E-06	2.59E-05
168	482341	3631679	0.0003647	4.396E-05	4.933E-05	3.155E-05	2.59E-05	1.009E-05	0.0003314	3.726E-06	2.963E-05
169	482391	3631679	0.0004098	5.073E-05	5.692E-05	3.64E-05	2.989E-05	1.163E-05	0.0003713	4.301E-06	3.421E-05
170	482441	3631679	0.0004642	5.901E-05	6.623E-05	4.234E-05	3.479E-05	1.352E-05	0.0004193	5.005E-06	3.981E-05
171	482491	3631679	0.0005296	6.899E-05	7.743E-05	4.949E-05	4.068E-05	1.58E-05	0.0004772	5.853E-06	4.656E-05
172	482541	3631679	0.0006056	7.954E-05	8.927E-05	5.706E-05	4.691E-05	1.821E-05	0.0005452	6.748E-06	5.368E-05
173	482591	3631679	0.0006959	9.234E-05	0.0001036	6.623E-05	5.446E-05	2.114E-05	0.0006258	7.835E-06	6.232E-05
174	482641	3631679	0.0008064	0.0001066	0.0001197	7.648E-05	6.288E-05	2.441E-05	0.0007254	9.047E-06	7.196E-05
175	482691	3631679	0.0009485	0.0001241	0.0001393	8.903E-05	7.318E-05	2.842E-05	0.0008542	1.053E-05	8.375E-05
176	482241	3631729	0.0002807	3.144E-05	3.527E-05	2.257E-05	1.85E-05	7.23E-06	0.0002568	2.662E-06	2.117E-05

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Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
177	482291	3631729	0.0003087	3.529E-05	3.959E-05	2.533E-05	2.077E-05	8.11E-06	0.000282	2.988E-06	2.377E-05
178	482341	3631729	0.0003413	3.983E-05	4.469E-05	2.859E-05	2.345E-05	9.149E-06	0.0003111	3.374E-06	2.684E-05
179	482391	3631729	0.0003798	4.524E-05	5.077E-05	3.247E-05	2.665E-05	1.039E-05	0.0003455	3.834E-06	3.05E-05
180	482441	3631729	0.0004252	5.163E-05	5.793E-05	3.705E-05	3.042E-05	1.185E-05	0.000386	4.376E-06	3.481E-05
181	482491	3631729	0.0004779	5.898E-05	6.618E-05	4.232E-05	3.475E-05	1.353E-05	0.0004331	5E-06	3.977E-05
182	482541	3631729	0.0005378	6.643E-05	7.455E-05	4.767E-05	3.915E-05	1.524E-05	0.0004874	5.632E-06	4.48E-05
183	482591	3631729	0.0006071	7.469E-05	8.381E-05	5.36E-05	4.401E-05	1.713E-05	0.0005504	6.331E-06	5.036E-05
184	482641	3631729	0.0006868	8.356E-05	9.377E-05	5.997E-05	4.923E-05	1.917E-05	0.0006234	7.083E-06	5.634E-05
185	482691	3631729	0.0007785	9.435E-05	0.0001059	6.771E-05	5.558E-05	2.165E-05	0.0007069	7.997E-06	6.361E-05
186	483141	3631729	0.0008812	7.711E-05	8.649E-05	5.545E-05	4.52E-05	1.788E-05	0.000823	6.503E-06	5.173E-05
187	483191	3631729	0.0008499	6.892E-05	7.729E-05	4.959E-05	4.034E-05	1.603E-05	0.000798	5.803E-06	4.616E-05
188	483241	3631729	0.0008234	6.134E-05	6.877E-05	4.417E-05	3.584E-05	1.432E-05	0.0007772	5.156E-06	4.101E-05
189	482241	3631779	0.0002657	2.907E-05	3.261E-05	2.087E-05	1.71E-05	6.689E-06	0.0002437	2.46E-06	1.957E-05
190	482291	3631779	0.0002905	3.229E-05	3.623E-05	2.318E-05	1.9E-05	7.428E-06	0.000266	2.733E-06	2.174E-05
191	482341	3631779	0.0003188	3.601E-05	4.04E-05	2.585E-05	2.119E-05	8.279E-06	0.0002915	3.049E-06	2.425E-05
192	482391	3631779	0.0003515	4.029E-05	4.521E-05	2.892E-05	2.372E-05	9.26E-06	0.0003209	3.412E-06	2.714E-05
193	482441	3631779	0.0003891	4.517E-05	5.069E-05	3.243E-05	2.66E-05	1.038E-05	0.0003548	3.827E-06	3.044E-05
194	482491	3631779	0.0004311	5.015E-05	5.627E-05	3.6E-05	2.953E-05	1.152E-05	0.0003931	4.248E-06	3.379E-05
195	482541	3631779	0.0004789	5.571E-05	6.251E-05	3.999E-05	3.28E-05	1.28E-05	0.0004367	4.719E-06	3.754E-05
196	482591	3631779	0.0005318	6.132E-05	6.881E-05	4.402E-05	3.61E-05	1.409E-05	0.0004853	5.194E-06	4.131E-05
197	482691	3631779	0.0006531	7.395E-05	8.297E-05	5.309E-05	4.352E-05	1.7E-05	0.000597	6.262E-06	4.981E-05
198	482991	3631779	0.0008005	7.944E-05	8.912E-05	5.708E-05	4.666E-05	1.834E-05	0.0007403	6.713E-06	5.34E-05
199	483041	3631779	0.0007853	7.524E-05	8.44E-05	5.407E-05	4.417E-05	1.739E-05	0.0007284	6.355E-06	5.055E-05
200	483091	3631779	0.0007673	7.023E-05	7.878E-05	5.049E-05	4.12E-05	1.626E-05	0.0007143	5.927E-06	4.715E-05
201	483141	3631779	0.000747	6.476E-05	7.264E-05	4.658E-05	3.795E-05	1.502E-05	0.0006981	5.46E-06	4.343E-05
202	483191	3631779	0.0007261	5.919E-05	6.638E-05	4.259E-05	3.465E-05	1.376E-05	0.0006814	4.985E-06	3.965E-05
203	483241	3631779	0.0007059	5.378E-05	6.031E-05	3.872E-05	3.144E-05	1.254E-05	0.0006654	4.523E-06	3.598E-05
204	482241	3631829	0.0002514	2.685E-05	3.012E-05	1.928E-05	1.579E-05	6.184E-06	0.0002311	2.272E-06	1.807E-05
205	482291	3631829	0.0002729	2.95E-05	3.31E-05	2.118E-05	1.735E-05	6.791E-06	0.0002506	2.496E-06	1.986E-05
206	482341	3631829	0.0002975	3.253E-05	3.649E-05	2.336E-05	1.913E-05	7.486E-06	0.0002729	2.753E-06	2.19E-05
207	482391	3631829	0.0003258	3.597E-05	4.036E-05	2.583E-05	2.116E-05	8.276E-06	0.0002986	3.045E-06	2.422E-05
208	482441	3631829	0.0003568	3.963E-05	4.447E-05	2.846E-05	2.332E-05	9.117E-06	0.0003268	3.355E-06	2.669E-05
209	482491	3631829	0.0003912	4.341E-05	4.87E-05	3.117E-05	2.554E-05	9.985E-06	0.0003583	3.675E-06	2.923E-05
210	482541	3631829	0.0004294	4.74E-05	5.318E-05	3.403E-05	2.789E-05	1.091E-05	0.0003935	4.012E-06	3.192E-05
211	482641	3631829	0.0005113	5.561E-05	6.24E-05	3.994E-05	3.271E-05	1.28E-05	0.0004692	4.707E-06	3.744E-05
212	482691	3631829	0.0005505	5.895E-05	6.614E-05	4.234E-05	3.467E-05	1.358E-05	0.0005058	4.988E-06	3.968E-05
213	482891	3631829	0.0006546	6.549E-05	7.347E-05	4.705E-05	3.847E-05	1.511E-05	0.000605	5.535E-06	4.403E-05
214	482941	3631829	0.0006629	6.499E-05	7.29E-05	4.67E-05	3.817E-05	1.501E-05	0.0006137	5.491E-06	4.368E-05
215	482991	3631829	0.0006709	6.387E-05	7.164E-05	4.59E-05	3.749E-05	1.476E-05	0.0006226	5.394E-06	4.29E-05
216	483041	3631829	0.0006649	6.143E-05	6.89E-05	4.416E-05	3.604E-05	1.422E-05	0.0006185	5.185E-06	4.124E-05
217	483091	3631829	0.0006542	5.827E-05	6.536E-05	4.19E-05	3.417E-05	1.35E-05	0.0006102	4.915E-06	3.91E-05
218	483141	3631829	0.0006411	5.468E-05	6.132E-05	3.933E-05	3.203E-05	1.269E-05	0.0005999	4.609E-06	3.666E-05
219	483191	3631829	0.0006267	5.087E-05	5.705E-05	3.66E-05	2.977E-05	1.183E-05	0.0005883	4.284E-06	3.407E-05
220	483241	3631829	0.0005994	4.667E-05	5.233E-05	3.359E-05	2.729E-05	1.087E-05	0.0005642	3.927E-06	3.124E-05

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0.007	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
221	482241	3631879	0.0002373	2.473E-05	2.774E-05	1.776E-05	1.454E-05	5.7E-06	0.0002186	2.091E-06	1.664E-05
222	482291	3631879	0.0002566	2.697E-05	3.026E-05	1.937E-05	1.586E-05	6.214E-06	0.0002362	2.281E-06	1.815E-05
223	482341	3631879	0.0002783	2.947E-05	3.306E-05	2.117E-05	1.733E-05	6.789E-06	0.000256	2.493E-06	1.983E-05
224	482391	3631879	0.0003017	3.213E-05	3.605E-05	2.308E-05	1.889E-05	7.401E-06	0.0002774	2.718E-06	2.162E-05
225	482441	3631879	0.0003277	3.492E-05	3.918E-05	2.508E-05	2.053E-05	8.042E-06	0.0003012	2.954E-06	2.35E-05
226	482541	3631879	0.0003872	4.095E-05	4.594E-05	2.941E-05	2.408E-05	9.433E-06	0.0003562	3.464E-06	2.755E-05
227	482591	3631879	0.0004197	4.384E-05	4.918E-05	3.149E-05	2.577E-05	1.01E-05	0.0003865	3.708E-06	2.949E-05
228	482641	3631879	0.0004462	4.608E-05	5.17E-05	3.31E-05	2.708E-05	1.062E-05	0.0004113	3.897E-06	3.1E-05
229	482691	3631879	0.0004782	4.861E-05	5.453E-05	3.492E-05	2.856E-05	1.121E-05	0.0004414	4.109E-06	3.269E-05
230	482891	3631879	0.0005507	5.286E-05	5.929E-05	3.799E-05	3.103E-05	1.222E-05	0.0005107	4.465E-06	3.551E-05
231	482941	3631879	0.0005598	5.274E-05	5.916E-05	3.79E-05	3.095E-05	1.22E-05	0.00052	4.453E-06	3.542E-05
232	482991	3631879	0.0005694	5.228E-05	5.864E-05	3.758E-05	3.067E-05	1.21E-05	0.0005299	4.412E-06	3.51E-05
233	483041	3631879	0.0005663	5.077E-05	5.695E-05	3.65E-05	2.977E-05	1.176E-05	0.000528	4.283E-06	3.407E-05
234	483091	3631879	0.0005612	4.879E-05	5.473E-05	3.509E-05	2.86E-05	1.132E-05	0.0005243	4.114E-06	3.273E-05
235	483141	3631879	0.0005537	4.643E-05	5.207E-05	3.34E-05	2.719E-05	1.078E-05	0.0005186	3.912E-06	3.112E-05
236	483191	3631879	0.0005362	4.354E-05	4.883E-05	3.133E-05	2.548E-05	1.013E-05	0.0005034	3.666E-06	2.916E-05
237	483241	3631879	0.0005278	4.092E-05	4.588E-05	2.945E-05	2.393E-05	9.534E-06	0.000497	3.443E-06	2.738E-05
238	482748	3631148	0.0017421	0.0002341	0.0002628	0.0001679	0.0001381	5.358E-05	0.0015642	1.987E-05	0.0001581
239	482758	3631148	0.0017953	0.0002384	0.0002676	0.000171	0.0001406	5.458E-05	0.0016142	2.023E-05	0.0001609
240	482768	3631148	0.0018491	0.0002424	0.0002721	0.0001739	0.000143	5.552E-05	0.0016649	2.057E-05	0.0001636
241	482778	3631148	0.0019031	0.0002462	0.0002763	0.0001766	0.0001452	5.64E-05	0.0017161	2.088E-05	0.0001661
242	482788	3631148	0.0019597	0.0002499	0.0002804	0.0001793	0.0001473	5.726E-05	0.00177	2.119E-05	0.0001686
243	482798	3631148	0.0020178	0.0002533	0.0002843	0.0001818	0.0001493	5.807E-05	0.0018255	2.148E-05	0.0001709
244	482748	3631158	0.0018128	0.0002554	0.0002866	0.0001831	0.0001507	5.837E-05	0.0016186	2.168E-05	0.0001725
245	482758	3631158	0.0018742	0.0002608	0.0002926	0.000187	0.0001539	5.962E-05	0.001676	2.214E-05	0.0001761
246	482768	3631158	0.0019341	0.0002655	0.000298	0.0001904	0.0001567	6.073E-05	0.0017323	2.254E-05	0.0001793
247	482778	3631158	0.0019947	0.0002699	0.000303	0.0001936	0.0001592	6.176E-05	0.0017896	2.291E-05	0.0001822
248	482788	3631158	0.0020578	0.0002742	0.0003077	0.0001967	0.0001617	6.276E-05	0.0018495	2.327E-05	0.0001851
249	482798	3631158	0.0021226	0.0002781	0.0003121	0.0001995	0.000164	6.369E-05	0.0019113	2.36E-05	0.0001877
250	482808	3631158	0.0021896	0.0002818	0.0003163	0.0002022	0.0001662	6.456E-05	0.0019756	2.39E-05	0.0001901
251	482818	3631158	0.0022567	0.000285	0.0003199	0.0002045	0.000168	6.533E-05	0.0020403	2.417E-05	0.0001923
252	482758	3631168	0.0019454	0.0002848	0.0003197	0.0002042	0.0001682	6.504E-05	0.0017287	2.419E-05	0.0001924
253	482768	3631168	0.0020175	0.0002913	0.0003269	0.0002089	0.000172	6.655E-05	0.0017959	2.474E-05	0.0001968
254	482778	3631168	0.002091	0.0002973	0.0003337	0.0002132	0.0001755	6.794E-05	0.001865	2.525E-05	0.0002008
255	482788	3631168	0.0021627	0.0003024	0.0003394	0.0002169	0.0001785	6.914E-05	0.0019328	2.567E-05	0.0002042
256	482798	3631168	0.0022344	0.0003069	0.0003444	0.0002201	0.0001811	7.02E-05	0.0020011	2.605E-05	0.0002072
257	482808	3631168	0.002308	0.000311	0.000349	0.000223	0.0001834	7.116E-05	0.0020717	2.639E-05	0.0002099
258	482818	3631168	0.0023848	0.0003147	0.0003532	0.0002257	0.0001856	7.205E-05	0.0021457	2.67E-05	0.0002124
259	482828	3631168	0.0024675	0.0003182	0.0003571	0.0002283	0.0001876	7.29E-05	0.0022258	2.699E-05	0.0002147
260	482838	3631168	0.0025539	0.0003212	0.0003605	0.0002305	0.0001893	7.364E-05	0.00231	2.724E-05	0.0002167
261	482778	3631178	0.002186	0.0003282	0.0003683	0.0002353	0.0001938	7.49E-05	0.0019363	2.788E-05	0.0002218
262	482788	3631178	0.0022675	0.0003345	0.0003754	0.0002398	0.0001975	7.638E-05	0.002013	2.842E-05	0.000226
263	482798	3631178	0.0023521	0.0003403	0.0003819	0.000244	0.0002009	7.774E-05	0.0020933	2.89E-05	0.0002299
264	482808	3631178	0.002434	0.0003449	0.0003871	0.0002473	0.0002036	7.883E-05	0.0021717	2.929E-05	0.000233

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0.007	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
265	482818	3631178	0.0025241	0.0003495	0.0003922	0.0002506	0.0002062	7.992E-05	0.0022585	2.967E-05	0.000236
266	482828	3631178	0.0026249	0.0003538	0.0003971	0.0002538	0.0002087	8.096E-05	0.002356	3.003E-05	0.0002388
267	482838	3631178	0.0027165	0.0003566	0.0004002	0.0002558	0.0002103	8.165E-05	0.0024456	3.025E-05	0.0002406
268	482848	3631178	0.0028105	0.0003587	0.0004025	0.0002573	0.0002114	8.218E-05	0.0025381	3.042E-05	0.000242
269	482858	3631178	0.0029061	0.00036	0.0004039	0.0002583	0.0002121	8.255E-05	0.0026328	3.052E-05	0.0002427
270	482868	3631178	0.0030064	0.0003606	0.0004046	0.0002588	0.0002124	8.277E-05	0.0027328	3.056E-05	0.0002431
271	482798	3631188	0.0024791	0.0003797	0.0004262	0.0002722	0.0002243	8.663E-05	0.0021902	3.227E-05	0.0002567
272	482808	3631188	0.002572	0.0003852	0.0004323	0.0002761	0.0002275	8.792E-05	0.002279	3.273E-05	0.0002603
273	482818	3631188	0.0026731	0.0003903	0.0004381	0.0002799	0.0002305	8.915E-05	0.0023762	3.316E-05	0.0002637
274	482828	3631188	0.0027873	0.0003953	0.0004436	0.0002834	0.0002333	9.034E-05	0.0024868	3.356E-05	0.000267
275	482838	3631188	0.0028927	0.0003981	0.0004468	0.0002855	0.0002349	9.105E-05	0.0025901	3.379E-05	0.0002688
276	482848	3631188	0.0030002	0.0004	0.0004489	0.0002869	0.0002359	9.156E-05	0.0026962	3.394E-05	0.00027
277	482858	3631188	0.0031124	0.000401	0.00045	0.0002877	0.0002364	9.186E-05	0.0028078	3.401E-05	0.0002706
278	482868	3631188	0.0032316	0.0004011	0.0004501	0.0002878	0.0002364	9.199E-05	0.0029271	3.401E-05	0.0002705
279	482878	3631188	0.0033515	0.0004003	0.0004492	0.0002873	0.0002358	9.189E-05	0.0030478	3.392E-05	0.0002698
280	482888	3631188	0.0034809	0.0003961	0.0004444	0.0002843	0.0002331	9.105E-05	0.0031806	3.354E-05	0.0002668
281	482898	3631188	0.0036064	0.0003934	0.0004414	0.0002825	0.0002314	9.055E-05	0.0033083	3.329E-05	0.0002648
282	482818	3631198	0.0028387	0.0004394	0.0004932	0.0003149	0.0002596	0.0001002	0.0025043	3.734E-05	0.0002971
283	482828	3631198	0.002954	0.0004436	0.0004979	0.000318	0.000262	0.0001012	0.0026165	3.769E-05	0.0002998
284	482838	3631198	0.0030775	0.0004468	0.0005015	0.0003203	0.0002638	0.0001021	0.0027376	3.795E-05	0.0003019
285	482848	3631198	0.0032049	0.0004486	0.0005035	0.0003217	0.0002647	0.0001026	0.0028638	3.809E-05	0.000303
286	482858	3631198	0.0033387	0.0004492	0.0005041	0.0003222	0.000265	0.0001028	0.0029974	3.812E-05	0.0003032
287	482868	3631198	0.0034787	0.0004485	0.0005033	0.0003217	0.0002644	0.0001027	0.0031381	3.804E-05	0.0003026
288	482878	3631198	0.0036197	0.0004466	0.0005011	0.0003204	0.0002631	0.0001024	0.0032807	3.786E-05	0.0003011
289	482888	3631198	0.0037776	0.0004395	0.0004931	0.0003155	0.0002588	0.000101	0.0034443	3.723E-05	0.0002961
290	482898	3631198	0.0039329	0.0004359	0.000489	0.0003129	0.0002565	0.0001003	0.0036025	3.69E-05	0.0002935
291	482908	3631198	0.0040919	0.0004318	0.0004844	0.0003101	0.0002539	9.948E-05	0.0037649	3.653E-05	0.0002905
292	482918	3631198	0.0042508	0.0004266	0.0004786	0.0003065	0.0002506	9.844E-05	0.0039279	3.606E-05	0.0002868
293	482848	3631208	0.0034302	0.0005064	0.0005684	0.0003631	0.000299	0.0001156	0.0030449	4.302E-05	0.0003422
294	482858	3631208	0.0035857	0.0005061	0.000568	0.0003629	0.0002987	0.0001157	0.0032009	4.297E-05	0.0003418
295	482868	3631208	0.0037486	0.0005041	0.0005657	0.0003616	0.0002973	0.0001154	0.0033655	4.278E-05	0.0003403
296	482878	3631208	0.0039282	0.0004978	0.0005586	0.0003572	0.0002934	0.0001141	0.0035502	4.221E-05	0.0003358
297	482888	3631208	0.0041104	0.0004915	0.0005515	0.0003527	0.0002895	0.0001128	0.0037375	4.165E-05	0.0003313
298	482898	3631208	0.0043041	0.0004864	0.0005457	0.0003492	0.0002863	0.0001118	0.0039353	4.118E-05	0.0003276
299	482908	3631208	0.0045065	0.00048	0.0005385	0.0003447	0.0002823	0.0001106	0.0041429	4.061E-05	0.000323
300	482918	3631208	0.0047156	0.0004727	0.0005303	0.0003396	0.0002777	0.0001091	0.0043578	3.996E-05	0.0003178
301	482928	3631208	0.0049266	0.0004646	0.0005211	0.0003339	0.0002727	0.0001074	0.0045753	3.923E-05	0.000312
302	482938	3631208	0.0051313	0.0004556	0.000511	0.0003276	0.0002671	0.0001056	0.0047872	3.843E-05	0.0003057
303	482948	3631208	0.0053178	0.0004461	0.0005004	0.0003209	0.0002613	0.0001036	0.0049812	3.759E-05	0.000299
304	482868	3631218	0.0040478	0.0005698	0.0006395	0.0004086	0.0003363	0.0001302	0.0036146	4.838E-05	0.0003848
305	482878	3631218	0.0042529	0.0005641	0.000633	0.0004046	0.0003327	0.0001291	0.0038243	4.786E-05	0.0003807
306	482888	3631218	0.0044817	0.0005548	0.0006226	0.0003981	0.000327	0.0001272	0.0040605	4.704E-05	0.0003742
307	482898	3631218	0.0047238	0.0005453	0.0006119	0.0003914	0.000321	0.0001253	0.0043102	4.619E-05	0.0003674
308	482908	3631218	0.0049834	0.0005357	0.000601	0.0003847	0.0003151	0.0001234	0.0045775	4.533E-05	0.0003606

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Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
309	482918	3631218	0.0052616	0.0005258	0.0005898	0.0003778	0.0003089	0.0001214	0.0048636	4.444E-05	0.0003535
310	482928	3631218	0.0055528	0.0005148	0.0005774	0.00037	0.000302	0.0001191	0.0051637	4.345E-05	0.0003457
311	482938	3631218	0.0058473	0.0005034	0.0005646	0.0003621	0.000295	0.0001168	0.0054673	4.244E-05	0.0003376
312	482948	3631218	0.0061307	0.0004909	0.0005505	0.0003533	0.0002873	0.0001142	0.0057606	4.133E-05	0.0003287
313	482958	3631218	0.0063776	0.0004778	0.0005357	0.000344	0.0002792	0.0001115	0.0060179	4.017E-05	0.0003195
314	482968	3631218	0.006556	0.0004643	0.0005205	0.0003344	0.0002709	0.0001086	0.0062069	3.898E-05	0.0003101
315	482978	3631218	0.0066183	0.0004503	0.0005048	0.0003245	0.0002626	0.0001055	0.00628	3.778E-05	0.0003005
316	482898	3631228	0.0051893	0.0006153	0.0006905	0.0004416	0.0003624	0.0001413	0.0047224	5.214E-05	0.0004147
317	482908	3631228	0.005527	0.0006016	0.000675	0.000432	0.0003539	0.0001385	0.0050711	5.092E-05	0.000405
318	482918	3631228	0.0059012	0.0005873	0.0006588	0.0004219	0.000345	0.0001356	0.0054567	4.963E-05	0.0003948
319	482928	3631228	0.0063087	0.0005725	0.0006421	0.0004116	0.0003358	0.0001326	0.0058761	4.831E-05	0.0003842
320	482938	3631228	0.0067395	0.0005574	0.0006251	0.000401	0.0003263	0.0001295	0.0063191	4.695E-05	0.0003735
321	482948	3631228	0.0057235	0.0005391	0.0006047	0.0003875	0.0003164	0.0001247	0.0053159	4.552E-05	0.0003621
322	482958	3631228	0.0043017	0.0005199	0.0005834	0.0003731	0.0003063	0.0001193	0.0039071	4.407E-05	0.0003505
323	482968	3631228	0.0043473	0.0005028	0.0005642	0.0003609	0.000296	0.0001155	0.003966	4.259E-05	0.0003388
324	482978	3631228	0.0043872	0.0004854	0.0005447	0.0003485	0.0002856	0.0001117	0.0040193	4.109E-05	0.0003269
325	482918	3631238	0.0066408	0.0006575	0.0007376	0.0004724	0.0003862	0.0001518	0.0061433	5.556E-05	0.000442
326	482928	3631238	0.0058136	0.000636	0.0007136	0.0004567	0.0003741	0.0001464	0.0053316	5.383E-05	0.0004282
327	482938	3631238	0.0061891	0.0006155	0.0006905	0.0004423	0.0003616	0.0001421	0.0057233	5.202E-05	0.0004138
328	482948	3631238	0.0047547	0.0005923	0.0006646	0.000425	0.000349	0.0001358	0.004305	5.022E-05	0.0003994
329	482958	3631238	0.0048147	0.0005711	0.0006408	0.0004099	0.0003363	0.0001311	0.0043814	4.839E-05	0.0003849
330	482968	3631238	0.0048605	0.0005497	0.0006168	0.0003947	0.0003235	0.0001264	0.0044437	4.655E-05	0.0003703
331	482938	3631248	0.0052957	0.0006809	0.0007642	0.0004885	0.0004015	0.000156	0.0047785	5.776E-05	0.0004594
332	482948	3631248	0.0053992	0.0006544	0.0007343	0.0004696	0.0003855	0.0001502	0.0049025	5.546E-05	0.0004412
333	482958	3631248	0.0054625	0.0006278	0.0007044	0.0004507	0.0003696	0.0001443	0.0049864	5.317E-05	0.000423
334	482968	3631248	0.0054967	0.0006013	0.0006746	0.0004317	0.0003537	0.0001384	0.0050411	5.089E-05	0.0004048
335	482662	3631168	0.0014221	0.0002263	0.000254	0.0001622	0.0001337	5.159E-05	0.0012498	1.924E-05	0.000153
336	482672	3631168	0.0014678	0.0002322	0.0002607	0.0001665	0.0001372	5.295E-05	0.001291	1.974E-05	0.0001571
337	482682	3631168	0.0015147	0.0002381	0.0002673	0.0001707	0.0001407	5.43E-05	0.0013334	2.024E-05	0.000161
338	482692	3631168	0.0015631	0.000244	0.0002739	0.0001749	0.0001442	5.565E-05	0.0013774	2.074E-05	0.000165
339	482662	3631178	0.0014682	0.0002451	0.0002751	0.0001756	0.0001449	5.581E-05	0.0012816	2.084E-05	0.0001658
340	482672	3631178	0.0015178	0.0002523	0.0002832	0.0001808	0.0001491	5.745E-05	0.0013257	2.146E-05	0.0001707
341	482682	3631178	0.0015688	0.0002594	0.0002912	0.0001859	0.0001533	5.908E-05	0.0013712	2.206E-05	0.0001755
342	482692	3631178	0.0016216	0.0002665	0.0002992	0.000191	0.0001576	6.072E-05	0.0014186	2.267E-05	0.0001803
343	482662	3631188	0.0015163	0.0002659	0.0002985	0.0001905	0.0001573	6.05E-05	0.0013136	2.263E-05	0.00018
344	482672	3631188	0.0015704	0.0002747	0.0003084	0.0001968	0.0001625	6.251E-05	0.001361	2.338E-05	0.000186
345	482682	3631188	0.0016255	0.0002834	0.0003181	0.000203	0.0001676	6.448E-05	0.0014096	2.411E-05	0.0001918
346	482692	3631188	0.0016869	0.0002929	0.0003288	0.0002098	0.0001732	6.665E-05	0.0014638	2.492E-05	0.0001982
347	482662	3631198	0.0015657	0.0002889	0.0003244	0.000207	0.000171	6.567E-05	0.0013454	2.46E-05	0.0001957
348	482672	3631198	0.0016293	0.0003007	0.0003376	0.0002154	0.000178	6.836E-05	0.0014	2.56E-05	0.0002037
349	482682	3631198	0.0016914	0.0003118	0.00035	0.0002233	0.0001845	7.087E-05	0.0014537	2.655E-05	0.0002112
350	482692	3631198	0.0017555	0.0003228	0.0003624	0.0002313	0.000191	7.339E-05	0.0015094	2.748E-05	0.0002186
351	482662	3631208	0.0016209	0.0003152	0.0003539	0.0002258	0.0001866	7.159E-05	0.0013805	2.685E-05	0.0002136
352	482672	3631208	0.0016898	0.0003296	0.00037	0.0002361	0.0001951	7.485E-05	0.0014384	2.807E-05	0.0002233

Mt. Etna Community Plan Amendment and Rezone Project
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320	Receptor
0.007	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
353	482682	3631208	0.0017571	0.0003432	0.0003853	0.0002458	0.0002032	7.793E-05	0.0014954	2.923E-05	0.0002325
354	482692	3631208	0.0018265	0.0003567	0.0004005	0.0002555	0.0002112	8.101E-05	0.0015544	3.039E-05	0.0002417
355	482662	3631218	0.0016804	0.0003447	0.0003871	0.0002469	0.0002042	7.822E-05	0.0014174	2.938E-05	0.0002337
356	482672	3631218	0.0017514	0.0003614	0.0004057	0.0002588	0.000214	8.199E-05	0.0014757	3.079E-05	0.000245
357	482682	3631218	0.0018262	0.0003786	0.000425	0.0002711	0.0002242	8.588E-05	0.0015373	3.226E-05	0.0002566
358	482692	3631218	0.0019024	0.0003956	0.0004441	0.0002832	0.0002343	8.973E-05	0.0016005	3.371E-05	0.0002681
359	482662	3631228	0.0017453	0.000378	0.0004244	0.0002706	0.0002239	8.568E-05	0.0014568	3.222E-05	0.0002563
360	482672	3631228	0.0018225	0.0003984	0.0004473	0.0002852	0.0002361	9.03E-05	0.0015183	3.396E-05	0.0002702
361	482682	3631228	0.0019016	0.0004191	0.0004705	0.0003	0.0002483	9.498E-05	0.0015817	3.573E-05	0.0002842
362	482692	3631228	0.0019853	0.0004405	0.0004946	0.0003154	0.0002611	9.983E-05	0.001649	3.756E-05	0.0002988
363	482662	3631238	0.001815	0.0004149	0.0004659	0.000297	0.0002459	9.398E-05	0.0014982	3.538E-05	0.0002814
364	482672	3631238	0.0019022	0.000441	0.0004952	0.0003157	0.0002614	9.987E-05	0.0015655	3.761E-05	0.0002992
365	482682	3631238	0.0019918	0.0004677	0.0005252	0.0003348	0.0002773	0.0001059	0.0016346	3.989E-05	0.0003173
366	482692	3631238	0.0020854	0.0004954	0.0005562	0.0003545	0.0002937	0.0001121	0.001707	4.225E-05	0.0003361
367	482662	3631248	0.0018873	0.0004548	0.0005107	0.0003255	0.0002697	0.0001029	0.0015399	3.88E-05	0.0003086
368	482672	3631248	0.0019828	0.0004869	0.0005467	0.0003485	0.0002887	0.0001102	0.0016108	4.154E-05	0.0003304
369	482682	3631248	0.0020832	0.0005209	0.0005849	0.0003728	0.0003089	0.0001178	0.0016852	4.445E-05	0.0003535
370	482692	3631248	0.0021893	0.0005569	0.0006253	0.0003985	0.0003303	0.000126	0.0017638	4.752E-05	0.000378
371	482662	3631258	0.0019638	0.0004979	0.0005591	0.0003563	0.0002953	0.0001126	0.0015834	4.249E-05	0.000338
372	482672	3631258	0.0020717	0.0005383	0.0006044	0.0003852	0.0003193	0.0001217	0.0016603	4.594E-05	0.0003654
373	482682	3631258	0.0021873	0.0005824	0.000654	0.0004167	0.0003455	0.0001316	0.0017421	4.971E-05	0.0003954
374	482692	3631258	0.0023084	0.0006294	0.0007067	0.0004503	0.0003735	0.0001422	0.0018273	5.373E-05	0.0004274
375	482662	3631268	0.0020442	0.0005436	0.0006104	0.000389	0.0003225	0.0001229	0.0016286	4.64E-05	0.0003691
376	482672	3631268	0.0021652	0.0005935	0.0006664	0.0004246	0.0003522	0.0001341	0.0017115	5.067E-05	0.000403
377	482682	3631268	0.0022953	0.0006488	0.0007286	0.0004642	0.0003851	0.0001466	0.0017992	5.54E-05	0.0004407
378	482692	3631268	0.0024367	0.0007107	0.0007981	0.0005084	0.0004219	0.0001605	0.0018931	6.07E-05	0.0004828
379	482662	3631278	0.0021267	0.0005906	0.0006632	0.0004225	0.0003505	0.0001334	0.0016751	5.043E-05	0.0004011
380	482672	3631278	0.0022652	0.0006525	0.0007328	0.0004668	0.0003873	0.0001474	0.0017662	5.572E-05	0.0004432
381	482682	3631278	0.0024142	0.0007221	0.0008109	0.0005165	0.0004287	0.000163	0.0018619	6.168E-05	0.0004906
382	482692	3631278	0.00258	0.0008029	0.0009016	0.0005743	0.0004767	0.0001811	0.0019658	6.859E-05	0.0005456
383	482662	3631288	0.0022089	0.0006369	0.0007153	0.0004557	0.0003781	0.0001438	0.0017218	5.439E-05	0.0004327
384	482672	3631288	0.0023632	0.0007106	0.0007981	0.0005083	0.0004219	0.0001604	0.0018196	6.07E-05	0.0004829
385	482682	3631288	0.0025347	0.000797	0.000895	0.00057	0.0004733	0.0001798	0.001925	6.809E-05	0.0005416
386	482692	3631288	0.0027293	0.0009001	0.0010109	0.0006438	0.0005347	0.000203	0.0020405	7.692E-05	0.0006119
387	482662	3631298	0.0022895	0.0006809	0.0007647	0.0004871	0.0004043	0.0001537	0.0017687	5.816E-05	0.0004626
388	482672	3631298	0.0024606	0.000767	0.0008613	0.0005486	0.0004555	0.000173	0.0018739	6.553E-05	0.0005212
389	482682	3631298	0.0026544	0.0008702	0.0009773	0.0006224	0.0005169	0.0001962	0.0019885	7.436E-05	0.0005915
390	482692	3631298	0.0028797	0.0009975	0.0011202	0.0007133	0.0005926	0.0002248	0.0021162	8.526E-05	0.0006782
391	482662	3631308	0.0023675	0.0007213	0.00081	0.0005159	0.0004282	0.0001628	0.0018158	6.161E-05	0.0004901
392	482672	3631308	0.0025554	0.0008192	0.0009199	0.0005859	0.0004865	0.0001848	0.0019287	6.999E-05	0.0005568
393	482682	3631308	0.0027725	0.0009394	0.001055	0.0006718	0.0005581	0.0002118	0.0020535	8.029E-05	0.0006387
394	482692	3631308	0.0030283	0.0010904	0.0012247	0.0007797	0.000648	0.0002457	0.0021935	9.322E-05	0.0007415
395	482662	3631318	0.0024401	0.0007557	0.0008487	0.0005406	0.0004488	0.0001705	0.0018619	6.456E-05	0.0005136
396	482672	3631318	0.0026455	0.0008651	0.0009715	0.0006187	0.0005138	0.0001951	0.0019835	7.392E-05	0.000588

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320	Receptor
0.007	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
397	482682	3631318	0.0028846	0.0010008	0.001124	0.0007157	0.0005946	0.0002256	0.0021185	8.555E-05	0.0006805
398	482692	3631318	0.0031703	0.0011741	0.0013186	0.0008395	0.0006978	0.0002644	0.0022713	0.0001004	0.0007985
399	482662	3631328	0.0025078	0.0007841	0.0008805	0.0005608	0.0004656	0.0001769	0.001908	6.699E-05	0.0005329
400	482672	3631328	0.0027306	0.0009037	0.0010149	0.0006463	0.0005368	0.0002038	0.0020391	7.723E-05	0.0006143
401	482682	3631328	0.0029898	0.0010527	0.0011822	0.0007528	0.0006255	0.0002372	0.002184	8.998E-05	0.0007158
402	482692	3631328	0.0033038	0.0012456	0.001399	0.0008906	0.0007403	0.0002805	0.00235	0.0001065	0.0008473
403	482662	3631338	0.0025715	0.0008062	0.0009053	0.0005766	0.0004787	0.0001819	0.0019548	6.887E-05	0.0005479
404	482672	3631338	0.0028109	0.0009345	0.0010495	0.0006683	0.0005551	0.0002107	0.0020958	7.986E-05	0.0006353
405	482682	3631338	0.0030892	0.0010946	0.0012293	0.0007827	0.0006504	0.0002466	0.0022513	9.357E-05	0.0007443
406	482692	3631338	0.0034285	0.0013036	0.0014641	0.0009321	0.0007748	0.0002935	0.0024303	0.0001115	0.0008867
407	482662	3631348	0.0026305	0.0008215	0.0009225	0.0005876	0.0004878	0.0001853	0.0020021	7.018E-05	0.0005583
408	482672	3631348	0.0028857	0.0009566	0.0010743	0.0006841	0.0005682	0.0002157	0.0021537	8.175E-05	0.0006503
409	482682	3631348	0.0031825	0.0011257	0.0012642	0.000805	0.0006689	0.0002536	0.0023208	9.623E-05	0.0007654
410	482692	3631348	0.0035462	0.0013479	0.0015138	0.0009637	0.0008011	0.0003035	0.0025142	0.0001153	0.0009168
411	482662	3631358	0.0026846	0.0008298	0.0009318	0.0005935	0.0004927	0.0001872	0.0020499	7.089E-05	0.0005639
412	482672	3631358	0.0029549	0.0009697	0.001089	0.0006935	0.000576	0.0002187	0.0022129	8.286E-05	0.0006591
413	482682	3631358	0.0032707	0.0011458	0.0012868	0.0008194	0.0006808	0.0002582	0.0023937	9.794E-05	0.0007791
414	482692	3631358	0.0036578	0.0013778	0.0015474	0.0009852	0.0008189	0.0003103	0.0026028	0.0001178	0.0009372
415	482662	3631368	0.0027331	0.0008309	0.0009331	0.0005944	0.0004934	0.0001875	0.0020975	7.098E-05	0.0005646
416	482672	3631368	0.0030194	0.0009741	0.0010939	0.0006967	0.0005785	0.0002197	0.0022741	8.323E-05	0.0006621
417	482682	3631368	0.0033542	0.0011547	0.0012968	0.0008257	0.000686	0.0002602	0.0024704	9.869E-05	0.0007851
418	482692	3631368	0.0037618	0.0013919	0.0015632	0.0009952	0.0008272	0.0003135	0.0026962	0.000119	0.0009466
419	482662	3631378	0.0027749	0.000825	0.0009264	0.0005901	0.0004898	0.0001862	0.002144	7.046E-05	0.0005605
420	482672	3631378	0.0030784	0.0009696	0.0010889	0.0006935	0.0005758	0.0002187	0.0023366	8.284E-05	0.000659

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320	Receptor
0.007	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
421	482682	3631378	0.0034312	0.0011514	0.0012931	0.0008234	0.000684	0.0002596	0.0025501	9.84E-05	0.0007828
422	482692	3631378	0.0038621	0.0013912	0.0015624	0.0009948	0.0008267	0.0003134	0.0027971	0.0001189	0.000946
423	482662	3631388	0.002808	0.0008119	0.0009117	0.0005808	0.0004819	0.0001833	0.0021872	6.933E-05	0.0005515
424	482672	3631388	0.0031282	0.0009555	0.0010731	0.0006835	0.0005674	0.0002156	0.0023973	8.162E-05	0.0006493
425	482682	3631388	0.0035026	0.0011368	0.0012767	0.000813	0.0006752	0.0002564	0.0026328	9.714E-05	0.0007727
426	482692	3631388	0.003962	0.001377	0.0015464	0.0009847	0.0008181	0.0003103	0.002908	0.0001177	0.0009362
427	482662	3631398	0.0028289	0.0007918	0.0008892	0.0005665	0.0004699	0.0001789	0.0022235	6.761E-05	0.0005378
428	482672	3631398	0.0031661	0.0009323	0.0010469	0.0006669	0.0005534	0.0002105	0.0024531	7.962E-05	0.0006334
429	482682	3631398	0.0035644	0.0011104	0.001247	0.0007943	0.0006594	0.0002505	0.002715	9.487E-05	0.0007546
430	482692	3631398	0.0040576	0.0013477	0.0015135	0.0009638	0.0008005	0.0003039	0.0030263	0.0001152	0.0009162
431	482662	3631408	0.0028331	0.000765	0.0008591	0.0005474	0.0004539	0.0001729	0.0022483	6.531E-05	0.0005195
432	482672	3631408	0.0031866	0.0009002	0.0010109	0.000644	0.0005343	0.0002033	0.0024983	7.687E-05	0.0006114
433	482682	3631408	0.0036103	0.0010723	0.0012042	0.0007671	0.0006366	0.0002421	0.0027901	9.159E-05	0.0007286
434	482692	3631408	0.0041425	0.0013028	0.001463	0.0009318	0.0007737	0.0002939	0.0031458	0.0001113	0.0008854
435	482662	3631418	0.0028178	0.0007328	0.0008229	0.0005244	0.0004347	0.0001657	0.0022577	6.254E-05	0.0004975
436	482672	3631418	0.0031841	0.0008605	0.0009663	0.0006157	0.0005106	0.0001945	0.0025263	7.346E-05	0.0005843
437	482682	3631418	0.0036307	0.0010233	0.0011492	0.0007321	0.0006074	0.0002312	0.0028483	8.738E-05	0.0006951
438	482692	3631418	0.0042061	0.0012428	0.0013957	0.000889	0.0007378	0.0002806	0.0032556	0.0001061	0.0008444
439	482662	3631428	0.0027764	0.0006955	0.000781	0.0004978	0.0004125	0.0001573	0.002245	5.935E-05	0.0004721
440	482672	3631428	0.0031491	0.0008139	0.0009139	0.0005824	0.0004828	0.000184	0.0025272	6.946E-05	0.0005525
441	482682	3631428	0.0036106	0.0009642	0.0010827	0.0006899	0.0005721	0.0002179	0.0028736	8.23E-05	0.0006547
442	482692	3631428	0.0042222	0.0011672	0.0013107	0.0008351	0.0006927	0.0002637	0.0033298	9.965E-05	0.0007927
443	482662	3631438	0.0027065	0.0006545	0.0007349	0.0004684	0.0003881	0.0001481	0.0022065	5.583E-05	0.0004441
444	482672	3631438	0.0030738	0.0007616	0.0008551	0.000545	0.0004516	0.0001723	0.002492	6.498E-05	0.0005169
445	482682	3631438	0.0035363	0.000897	0.0010072	0.0006419	0.000532	0.0002029	0.0028509	7.654E-05	0.0006089
446	482692	3631438	0.0041593	0.0010778	0.0012102	0.0007712	0.0006393	0.0002437	0.0033357	9.198E-05	0.0007317
447	482662	3631448	0.0026127	0.0006117	0.0006868	0.0004378	0.0003626	0.0001385	0.0021455	5.217E-05	0.000415
448	482672	3631448	0.0029604	0.0007063	0.000793	0.0005055	0.0004187	0.0001599	0.0024209	6.024E-05	0.0004792
449	482682	3631448	0.0034066	0.0008257	0.0009271	0.0005909	0.0004896	0.0001869	0.0027759	7.044E-05	0.0005603
450	482692	3631448	0.0040066	0.0009813	0.0011019	0.0007023	0.0005819	0.0002221	0.003257	8.372E-05	0.0006659

Mitigated Residential Health Risk Assessment

5. Risk by Construction Phase

5. Risk by Construction Phase

a. Risk From Demolition - Mitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	6.5E-04	1.0E-03	1.9E-07	1.6E-01	4.2E-02	1.3E-09	3.7E-05	1.9E-04
2	3.0E-01	6.5E-04	1.0E-03	2.0E-07	1.6E-01	4.2E-02	1.3E-09	3.9E-05	2.0E-04
3	3.1E-01	6.5E-04	1.0E-03	2.1E-07	1.6E-01	4.2E-02	1.4E-09	4.1E-05	2.0E-04
4	3.2E-01	6.5E-04	1.0E-03	2.2E-07	1.6E-01	4.2E-02	1.4E-09	4.2E-05	2.1E-04
5	3.3E-01	6.5E-04	1.0E-03	2.2E-07	1.6E-01	4.2E-02	1.5E-09	4.3E-05	2.2E-04
6	3.4E-01	6.5E-04	1.0E-03	2.3E-07	1.6E-01	4.2E-02	1.5E-09	4.4E-05	2.2E-04
7	3.5E-01	6.5E-04	1.0E-03	2.3E-07	1.6E-01	4.2E-02	1.5E-09	4.6E-05	2.3E-04
8	3.6E-01	6.5E-04	1.0E-03	2.4E-07	1.6E-01	4.2E-02	1.6E-09	4.7E-05	2.3E-04
9	3.7E-01	6.5E-04	1.0E-03	2.5E-07	1.6E-01	4.2E-02	1.7E-09	4.9E-05	2.4E-04
10	3.8E-01	6.5E-04	1.0E-03	2.6E-07	1.6E-01	4.2E-02	1.7E-09	5.0E-05	2.5E-04
11	4.0E-01	6.5E-04	1.0E-03	2.7E-07	1.6E-01	4.2E-02	1.8E-09	5.3E-05	2.6E-04
12	4.1E-01	6.5E-04	1.0E-03	2.8E-07	1.6E-01	4.2E-02	1.8E-09	5.4E-05	2.7E-04
13	4.3E-01	6.5E-04	1.0E-03	2.9E-07	1.6E-01	4.2E-02	1.9E-09	5.6E-05	2.8E-04
14	4.3E-01	6.5E-04	1.0E-03	2.9E-07	1.6E-01	4.2E-02	1.9E-09	5.7E-05	2.9E-04
15	4.3E-01	6.5E-04	1.0E-03	2.9E-07	1.6E-01	4.2E-02	1.9E-09	5.7E-05	2.8E-04
16	4.2E-01	6.5E-04	1.0E-03	2.8E-07	1.6E-01	4.2E-02	1.9E-09	5.5E-05	2.8E-04
17	3.2E-01	6.5E-04	1.0E-03	2.2E-07	1.6E-01	4.2E-02	1.4E-09	4.2E-05	2.1E-04
18	3.4E-01	6.5E-04	1.0E-03	2.3E-07	1.6E-01	4.2E-02	1.5E-09	4.4E-05	2.2E-04
19	3.6E-01	6.5E-04	1.0E-03	2.4E-07	1.6E-01	4.2E-02	1.6E-09	4.7E-05	2.3E-04
20	3.7E-01	6.5E-04	1.0E-03	2.5E-07	1.6E-01	4.2E-02	1.7E-09	4.9E-05	2.4E-04
21	3.9E-01	6.5E-04	1.0E-03	2.6E-07	1.6E-01	4.2E-02	1.7E-09	5.1E-05	2.5E-04
22	4.0E-01	6.5E-04	1.0E-03	2.7E-07	1.6E-01	4.2E-02	1.8E-09	5.2E-05	2.6E-04
23	5.2E-01	6.5E-04	1.0E-03	3.5E-07	1.6E-01	4.2E-02	2.3E-09	6.9E-05	3.4E-04
24	5.3E-01	6.5E-04	1.0E-03	3.6E-07	1.6E-01	4.2E-02	2.4E-09	7.0E-05	3.5E-04
25	5.3E-01	6.5E-04	1.0E-03	3.6E-07	1.6E-01	4.2E-02	2.4E-09	7.0E-05	3.5E-04
26	5.2E-01	6.5E-04	1.0E-03	3.5E-07	1.6E-01	4.2E-02	2.3E-09	6.8E-05	3.4E-04
27	5.0E-01	6.5E-04	1.0E-03	3.4E-07	1.6E-01	4.2E-02	2.2E-09	6.6E-05	3.3E-04
28	3.5E-01	6.5E-04	1.0E-03	2.4E-07	1.6E-01	4.2E-02	1.6E-09	4.6E-05	2.3E-04
29	4.1E-01	6.5E-04	1.0E-03	2.8E-07	1.6E-01	4.2E-02	1.8E-09	5.3E-05	2.7E-04
30	4.3E-01	6.5E-04	1.0E-03	2.9E-07	1.6E-01	4.2E-02	1.9E-09	5.7E-05	2.8E-04
31	4.6E-01	6.5E-04	1.0E-03	3.1E-07	1.6E-01	4.2E-02	2.1E-09	6.0E-05	3.0E-04
32	4.8E-01	6.5E-04	1.0E-03	3.3E-07	1.6E-01	4.2E-02	2.2E-09	6.4E-05	3.2E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	6.5E-04	1.0E-03	3.4E-07	1.6E-01	4.2E-02	2.3E-09	6.6E-05	3.3E-04
34	5.2E-01	6.5E-04	1.0E-03	3.5E-07	1.6E-01	4.2E-02	2.3E-09	6.8E-05	3.4E-04
35	5.5E-01	6.5E-04	1.0E-03	3.7E-07	1.6E-01	4.2E-02	2.4E-09	7.2E-05	3.6E-04
36	5.7E-01	6.5E-04	1.0E-03	3.9E-07	1.6E-01	4.2E-02	2.6E-09	7.5E-05	3.8E-04
37	6.3E-01	6.5E-04	1.0E-03	4.3E-07	1.6E-01	4.2E-02	2.8E-09	8.3E-05	4.2E-04
38	6.6E-01	6.5E-04	1.0E-03	4.4E-07	1.6E-01	4.2E-02	2.9E-09	8.6E-05	4.3E-04
39	6.7E-01	6.5E-04	1.0E-03	4.5E-07	1.6E-01	4.2E-02	3.0E-09	8.9E-05	4.4E-04
40	6.5E-01	6.5E-04	1.0E-03	4.4E-07	1.6E-01	4.2E-02	2.9E-09	8.6E-05	4.3E-04
41	6.2E-01	6.5E-04	1.0E-03	4.2E-07	1.6E-01	4.2E-02	2.8E-09	8.2E-05	4.1E-04
42	5.9E-01	6.5E-04	1.0E-03	4.0E-07	1.6E-01	4.2E-02	2.6E-09	7.8E-05	3.9E-04
43	3.9E-01	6.5E-04	1.0E-03	2.6E-07	1.6E-01	4.2E-02	1.7E-09	5.1E-05	2.5E-04
44	4.3E-01	6.5E-04	1.0E-03	2.9E-07	1.6E-01	4.2E-02	1.9E-09	5.6E-05	2.8E-04
45	4.7E-01	6.5E-04	1.0E-03	3.2E-07	1.6E-01	4.2E-02	2.1E-09	6.1E-05	3.1E-04
46	5.5E-01	6.5E-04	1.0E-03	3.7E-07	1.6E-01	4.2E-02	2.5E-09	7.2E-05	3.6E-04
47	5.9E-01	6.5E-04	1.0E-03	4.0E-07	1.6E-01	4.2E-02	2.6E-09	7.7E-05	3.9E-04
48	6.2E-01	6.5E-04	1.0E-03	4.2E-07	1.6E-01	4.2E-02	2.8E-09	8.2E-05	4.1E-04
49	6.5E-01	6.5E-04	1.0E-03	4.4E-07	1.6E-01	4.2E-02	2.9E-09	8.6E-05	4.3E-04
50	6.9E-01	6.5E-04	1.0E-03	4.7E-07	1.6E-01	4.2E-02	3.1E-09	9.1E-05	4.5E-04
51	7.3E-01	6.5E-04	1.0E-03	4.9E-07	1.6E-01	4.2E-02	3.3E-09	9.6E-05	4.8E-04
52	8.2E-01	6.5E-04	1.0E-03	5.6E-07	1.6E-01	4.2E-02	3.7E-09	1.1E-04	5.4E-04
53	8.6E-01	6.5E-04	1.0E-03	5.8E-07	1.6E-01	4.2E-02	3.8E-09	1.1E-04	5.6E-04
54	8.8E-01	6.5E-04	1.0E-03	5.9E-07	1.6E-01	4.2E-02	3.9E-09	1.2E-04	5.8E-04
55	8.9E-01	6.5E-04	1.0E-03	6.0E-07	1.6E-01	4.2E-02	4.0E-09	1.2E-04	5.8E-04
56	8.9E-01	6.5E-04	1.0E-03	6.0E-07	1.6E-01	4.2E-02	4.0E-09	1.2E-04	5.9E-04
57	8.1E-01	6.5E-04	1.0E-03	5.5E-07	1.6E-01	4.2E-02	3.6E-09	1.1E-04	5.3E-04
58	7.6E-01	6.5E-04	1.0E-03	5.1E-07	1.6E-01	4.2E-02	3.4E-09	1.0E-04	5.0E-04
59	7.0E-01	6.5E-04	1.0E-03	4.8E-07	1.6E-01	4.2E-02	3.2E-09	9.3E-05	4.7E-04
60	4.2E-01	6.5E-04	1.0E-03	2.8E-07	1.6E-01	4.2E-02	1.9E-09	5.5E-05	2.7E-04
61	4.7E-01	6.5E-04	1.0E-03	3.2E-07	1.6E-01	4.2E-02	2.1E-09	6.1E-05	3.1E-04
62	5.3E-01	6.5E-04	1.0E-03	3.6E-07	1.6E-01	4.2E-02	2.4E-09	6.9E-05	3.4E-04
63	5.9E-01	6.5E-04	1.0E-03	4.0E-07	1.6E-01	4.2E-02	2.6E-09	7.7E-05	3.8E-04
64	6.6E-01	6.5E-04	1.0E-03	4.4E-07	1.6E-01	4.2E-02	2.9E-09	8.6E-05	4.3E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	6.5E-04	1.0E-03	5.7E-07	1.6E-01	4.2E-02	3.8E-09	1.1E-04	5.5E-04
66	9.1E-01	6.5E-04	1.0E-03	6.1E-07	1.6E-01	4.2E-02	4.1E-09	1.2E-04	5.9E-04
67	9.7E-01	6.5E-04	1.0E-03	6.6E-07	1.6E-01	4.2E-02	4.3E-09	1.3E-04	6.4E-04
68	1.1E+00	6.5E-04	1.0E-03	7.6E-07	1.6E-01	4.2E-02	5.0E-09	1.5E-04	7.3E-04
69	1.2E+00	6.5E-04	1.0E-03	7.9E-07	1.6E-01	4.2E-02	5.2E-09	1.5E-04	7.7E-04
70	1.2E+00	6.5E-04	1.0E-03	8.1E-07	1.6E-01	4.2E-02	5.4E-09	1.6E-04	7.9E-04
71	1.2E+00	6.5E-04	1.0E-03	8.2E-07	1.6E-01	4.2E-02	5.4E-09	1.6E-04	8.0E-04
72	1.2E+00	6.5E-04	1.0E-03	8.1E-07	1.6E-01	4.2E-02	5.3E-09	1.6E-04	7.9E-04
73	4.4E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.8E-05	2.9E-04
74	5.0E-01	6.5E-04	1.0E-03	3.4E-07	1.6E-01	4.2E-02	2.3E-09	6.6E-05	3.3E-04
75	5.8E-01	6.5E-04	1.0E-03	3.9E-07	1.6E-01	4.2E-02	2.6E-09	7.5E-05	3.8E-04
76	6.7E-01	6.5E-04	1.0E-03	4.5E-07	1.6E-01	4.2E-02	3.0E-09	8.7E-05	4.4E-04
77	7.7E-01	6.5E-04	1.0E-03	5.2E-07	1.6E-01	4.2E-02	3.5E-09	1.0E-04	5.0E-04
78	8.8E-01	6.5E-04	1.0E-03	6.0E-07	1.6E-01	4.2E-02	3.9E-09	1.2E-04	5.8E-04
79	1.0E+00	6.5E-04	1.0E-03	6.8E-07	1.6E-01	4.2E-02	4.5E-09	1.3E-04	6.5E-04
80	1.4E+00	6.5E-04	1.0E-03	9.2E-07	1.6E-01	4.2E-02	6.1E-09	1.8E-04	8.9E-04
81	1.6E+00	6.5E-04	1.0E-03	1.1E-06	1.6E-01	4.2E-02	7.3E-09	2.1E-04	1.1E-03
82	1.7E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	7.7E-09	2.2E-04	1.1E-03
83	1.7E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	7.8E-09	2.3E-04	1.1E-03
84	1.7E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	7.7E-09	2.3E-04	1.1E-03
85	1.7E+00	6.5E-04	1.0E-03	1.1E-06	1.6E-01	4.2E-02	7.5E-09	2.2E-04	1.1E-03
86	4.5E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.8E-05	2.9E-04
87	5.2E-01	6.5E-04	1.0E-03	3.5E-07	1.6E-01	4.2E-02	2.3E-09	6.9E-05	3.4E-04
88	6.2E-01	6.5E-04	1.0E-03	4.2E-07	1.6E-01	4.2E-02	2.8E-09	8.1E-05	4.1E-04
89	7.4E-01	6.5E-04	1.0E-03	5.0E-07	1.6E-01	4.2E-02	3.3E-09	9.6E-05	4.8E-04
90	8.8E-01	6.5E-04	1.0E-03	6.0E-07	1.6E-01	4.2E-02	3.9E-09	1.1E-04	5.7E-04
91	1.1E+00	6.5E-04	1.0E-03	7.2E-07	1.6E-01	4.2E-02	4.7E-09	1.4E-04	6.9E-04
92	1.3E+00	6.5E-04	1.0E-03	8.6E-07	1.6E-01	4.2E-02	5.7E-09	1.7E-04	8.3E-04
93	1.5E+00	6.5E-04	1.0E-03	1.0E-06	1.6E-01	4.2E-02	6.8E-09	2.0E-04	9.8E-04
94	1.8E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	8.0E-09	2.3E-04	1.2E-03
95	2.6E+00	6.5E-04	1.0E-03	1.8E-06	1.6E-01	4.2E-02	1.2E-08	3.4E-04	1.7E-03
96	2.4E+00	6.5E-04	1.0E-03	1.6E-06	1.6E-01	4.2E-02	1.1E-08	3.2E-04	1.6E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	6.5E-04	1.0E-03	3.1E-07	1.6E-01	4.2E-02	2.0E-09	6.0E-05	3.0E-04
98	5.4E-01	6.5E-04	1.0E-03	3.6E-07	1.6E-01	4.2E-02	2.4E-09	7.0E-05	3.5E-04
99	6.4E-01	6.5E-04	1.0E-03	4.3E-07	1.6E-01	4.2E-02	2.9E-09	8.3E-05	4.2E-04
100	1.2E+00	6.5E-04	1.0E-03	8.2E-07	1.6E-01	4.2E-02	5.4E-09	1.6E-04	7.9E-04
101	1.5E+00	6.5E-04	1.0E-03	1.0E-06	1.6E-01	4.2E-02	6.9E-09	2.0E-04	1.0E-03
102	2.0E+00	6.5E-04	1.0E-03	1.4E-06	1.6E-01	4.2E-02	9.0E-09	2.6E-04	1.3E-03
103	2.6E+00	6.5E-04	1.0E-03	1.8E-06	1.6E-01	4.2E-02	1.2E-08	3.4E-04	1.7E-03
104	4.5E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.8E-05	2.9E-04
105	5.3E-01	6.5E-04	1.0E-03	3.6E-07	1.6E-01	4.2E-02	2.4E-09	6.9E-05	3.5E-04
106	6.4E-01	6.5E-04	1.0E-03	4.3E-07	1.6E-01	4.2E-02	2.9E-09	8.4E-05	4.2E-04
107	2.5E+00	6.5E-04	1.0E-03	1.7E-06	1.6E-01	4.2E-02	1.1E-08	3.2E-04	1.6E-03
108	3.8E+00	6.5E-04	1.0E-03	2.6E-06	1.6E-01	4.2E-02	1.7E-08	4.9E-04	2.5E-03
109	4.3E-01	6.5E-04	1.0E-03	2.9E-07	1.6E-01	4.2E-02	1.9E-09	5.6E-05	2.8E-04
110	5.1E-01	6.5E-04	1.0E-03	3.4E-07	1.6E-01	4.2E-02	2.3E-09	6.6E-05	3.3E-04
111	6.2E-01	6.5E-04	1.0E-03	4.2E-07	1.6E-01	4.2E-02	2.8E-09	8.0E-05	4.0E-04
112	2.8E+00	6.5E-04	1.0E-03	1.9E-06	1.6E-01	4.2E-02	1.2E-08	3.6E-04	1.8E-03
113	4.7E+00	6.5E-04	1.0E-03	3.2E-06	1.6E-01	4.2E-02	2.1E-08	6.1E-04	3.0E-03
114	4.0E-01	6.5E-04	1.0E-03	2.7E-07	1.6E-01	4.2E-02	1.8E-09	5.2E-05	2.6E-04
115	4.8E-01	6.5E-04	1.0E-03	3.2E-07	1.6E-01	4.2E-02	2.1E-09	6.2E-05	3.1E-04
116	5.8E-01	6.5E-04	1.0E-03	3.9E-07	1.6E-01	4.2E-02	2.6E-09	7.5E-05	3.8E-04
117	7.2E-01	6.5E-04	1.0E-03	4.8E-07	1.6E-01	4.2E-02	3.2E-09	9.4E-05	4.7E-04
118	2.7E+00	6.5E-04	1.0E-03	1.8E-06	1.6E-01	4.2E-02	1.2E-08	3.5E-04	1.7E-03
119	4.7E+00	6.5E-04	1.0E-03	3.2E-06	1.6E-01	4.2E-02	2.1E-08	6.2E-04	3.1E-03
120	3.7E-01	6.5E-04	1.0E-03	2.5E-07	1.6E-01	4.2E-02	1.7E-09	4.9E-05	2.4E-04
121	4.4E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.8E-05	2.9E-04
122	5.3E-01	6.5E-04	1.0E-03	3.6E-07	1.6E-01	4.2E-02	2.4E-09	7.0E-05	3.5E-04
123	6.6E-01	6.5E-04	1.0E-03	4.4E-07	1.6E-01	4.2E-02	2.9E-09	8.5E-05	4.3E-04
124	2.3E+00	6.5E-04	1.0E-03	1.6E-06	1.6E-01	4.2E-02	1.0E-08	3.0E-04	1.5E-03
125	4.0E+00	6.5E-04	1.0E-03	2.7E-06	1.6E-01	4.2E-02	1.8E-08	5.2E-04	2.6E-03
126	3.5E-01	6.5E-04	1.0E-03	2.4E-07	1.6E-01	4.2E-02	1.6E-09	4.6E-05	2.3E-04
127	4.1E-01	6.5E-04	1.0E-03	2.8E-07	1.6E-01	4.2E-02	1.8E-09	5.3E-05	2.7E-04
128	4.9E-01	6.5E-04	1.0E-03	3.3E-07	1.6E-01	4.2E-02	2.2E-09	6.4E-05	3.2E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	6.5E-04	1.0E-03	4.0E-07	1.6E-01	4.2E-02	2.7E-09	7.8E-05	3.9E-04
130	7.4E-01	6.5E-04	1.0E-03	5.0E-07	1.6E-01	4.2E-02	3.3E-09	9.7E-05	4.9E-04
131	9.7E-01	6.5E-04	1.0E-03	6.5E-07	1.6E-01	4.2E-02	4.3E-09	1.3E-04	6.3E-04
132	1.3E+00	6.5E-04	1.0E-03	8.9E-07	1.6E-01	4.2E-02	5.9E-09	1.7E-04	8.5E-04
133	1.9E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.5E-09	2.5E-04	1.2E-03
134	3.0E+00	6.5E-04	1.0E-03	2.0E-06	1.6E-01	4.2E-02	1.3E-08	3.9E-04	1.9E-03
135	5.4E+00	6.5E-04	1.0E-03	3.6E-06	1.6E-01	4.2E-02	2.4E-08	7.0E-04	3.5E-03
136	3.2E-01	6.5E-04	1.0E-03	2.2E-07	1.6E-01	4.2E-02	1.4E-09	4.2E-05	2.1E-04
137	3.8E-01	6.5E-04	1.0E-03	2.6E-07	1.6E-01	4.2E-02	1.7E-09	4.9E-05	2.5E-04
138	4.5E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.8E-05	2.9E-04
139	5.4E-01	6.5E-04	1.0E-03	3.6E-07	1.6E-01	4.2E-02	2.4E-09	7.0E-05	3.5E-04
140	6.6E-01	6.5E-04	1.0E-03	4.5E-07	1.6E-01	4.2E-02	3.0E-09	8.6E-05	4.3E-04
141	8.4E-01	6.5E-04	1.0E-03	5.7E-07	1.6E-01	4.2E-02	3.8E-09	1.1E-04	5.5E-04
142	1.1E+00	6.5E-04	1.0E-03	7.5E-07	1.6E-01	4.2E-02	4.9E-09	1.4E-04	7.2E-04
143	1.5E+00	6.5E-04	1.0E-03	1.0E-06	1.6E-01	4.2E-02	6.7E-09	2.0E-04	9.8E-04
144	2.1E+00	6.5E-04	1.0E-03	1.4E-06	1.6E-01	4.2E-02	9.4E-09	2.7E-04	1.4E-03
145	3.1E+00	6.5E-04	1.0E-03	2.1E-06	1.6E-01	4.2E-02	1.4E-08	4.0E-04	2.0E-03
146	3.0E-01	6.5E-04	1.0E-03	2.0E-07	1.6E-01	4.2E-02	1.3E-09	3.9E-05	2.0E-04
147	3.5E-01	6.5E-04	1.0E-03	2.3E-07	1.6E-01	4.2E-02	1.6E-09	4.5E-05	2.3E-04
148	4.1E-01	6.5E-04	1.0E-03	2.7E-07	1.6E-01	4.2E-02	1.8E-09	5.3E-05	2.7E-04
149	4.8E-01	6.5E-04	1.0E-03	3.3E-07	1.6E-01	4.2E-02	2.2E-09	6.3E-05	3.2E-04
150	5.9E-01	6.5E-04	1.0E-03	4.0E-07	1.6E-01	4.2E-02	2.6E-09	7.6E-05	3.8E-04
151	7.2E-01	6.5E-04	1.0E-03	4.9E-07	1.6E-01	4.2E-02	3.2E-09	9.4E-05	4.7E-04
152	9.0E-01	6.5E-04	1.0E-03	6.1E-07	1.6E-01	4.2E-02	4.0E-09	1.2E-04	5.9E-04
153	1.2E+00	6.5E-04	1.0E-03	7.8E-07	1.6E-01	4.2E-02	5.2E-09	1.5E-04	7.6E-04
154	1.5E+00	6.5E-04	1.0E-03	9.9E-07	1.6E-01	4.2E-02	6.5E-09	1.9E-04	9.5E-04
155	1.9E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.5E-09	2.5E-04	1.2E-03
156	2.8E-01	6.5E-04	1.0E-03	1.9E-07	1.6E-01	4.2E-02	1.2E-09	3.7E-05	1.8E-04
157	3.2E-01	6.5E-04	1.0E-03	2.2E-07	1.6E-01	4.2E-02	1.4E-09	4.2E-05	2.1E-04
158	3.7E-01	6.5E-04	1.0E-03	2.5E-07	1.6E-01	4.2E-02	1.7E-09	4.8E-05	2.4E-04
159	4.3E-01	6.5E-04	1.0E-03	2.9E-07	1.6E-01	4.2E-02	1.9E-09	5.7E-05	2.8E-04
160	5.2E-01	6.5E-04	1.0E-03	3.5E-07	1.6E-01	4.2E-02	2.3E-09	6.7E-05	3.4E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	6.5E-04	1.0E-03	4.2E-07	1.6E-01	4.2E-02	2.8E-09	8.1E-05	4.0E-04
162	7.4E-01	6.5E-04	1.0E-03	5.0E-07	1.6E-01	4.2E-02	3.3E-09	9.7E-05	4.9E-04
163	9.0E-01	6.5E-04	1.0E-03	6.1E-07	1.6E-01	4.2E-02	4.0E-09	1.2E-04	5.9E-04
164	1.1E+00	6.5E-04	1.0E-03	7.2E-07	1.6E-01	4.2E-02	4.8E-09	1.4E-04	7.0E-04
165	1.3E+00	6.5E-04	1.0E-03	8.8E-07	1.6E-01	4.2E-02	5.9E-09	1.7E-04	8.5E-04
166	2.6E-01	6.5E-04	1.0E-03	1.8E-07	1.6E-01	4.2E-02	1.2E-09	3.4E-05	1.7E-04
167	2.9E-01	6.5E-04	1.0E-03	2.0E-07	1.6E-01	4.2E-02	1.3E-09	3.8E-05	1.9E-04
168	3.4E-01	6.5E-04	1.0E-03	2.3E-07	1.6E-01	4.2E-02	1.5E-09	4.4E-05	2.2E-04
169	3.9E-01	6.5E-04	1.0E-03	2.6E-07	1.6E-01	4.2E-02	1.7E-09	5.1E-05	2.5E-04
170	4.5E-01	6.5E-04	1.0E-03	3.1E-07	1.6E-01	4.2E-02	2.0E-09	5.9E-05	3.0E-04
171	5.3E-01	6.5E-04	1.0E-03	3.6E-07	1.6E-01	4.2E-02	2.4E-09	6.9E-05	3.4E-04
172	6.1E-01	6.5E-04	1.0E-03	4.1E-07	1.6E-01	4.2E-02	2.7E-09	8.0E-05	4.0E-04
173	7.1E-01	6.5E-04	1.0E-03	4.8E-07	1.6E-01	4.2E-02	3.2E-09	9.2E-05	4.6E-04
174	8.2E-01	6.5E-04	1.0E-03	5.5E-07	1.6E-01	4.2E-02	3.7E-09	1.1E-04	5.3E-04
175	9.5E-01	6.5E-04	1.0E-03	6.4E-07	1.6E-01	4.2E-02	4.3E-09	1.2E-04	6.2E-04
176	2.4E-01	6.5E-04	1.0E-03	1.6E-07	1.6E-01	4.2E-02	1.1E-09	3.1E-05	1.6E-04
177	2.7E-01	6.5E-04	1.0E-03	1.8E-07	1.6E-01	4.2E-02	1.2E-09	3.5E-05	1.8E-04
178	3.0E-01	6.5E-04	1.0E-03	2.1E-07	1.6E-01	4.2E-02	1.4E-09	4.0E-05	2.0E-04
179	3.5E-01	6.5E-04	1.0E-03	2.3E-07	1.6E-01	4.2E-02	1.5E-09	4.5E-05	2.3E-04
180	3.9E-01	6.5E-04	1.0E-03	2.7E-07	1.6E-01	4.2E-02	1.8E-09	5.2E-05	2.6E-04
181	4.5E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.9E-05	2.9E-04
182	5.1E-01	6.5E-04	1.0E-03	3.4E-07	1.6E-01	4.2E-02	2.3E-09	6.6E-05	3.3E-04
183	5.7E-01	6.5E-04	1.0E-03	3.9E-07	1.6E-01	4.2E-02	2.6E-09	7.5E-05	3.7E-04
184	6.4E-01	6.5E-04	1.0E-03	4.3E-07	1.6E-01	4.2E-02	2.9E-09	8.4E-05	4.2E-04
185	7.2E-01	6.5E-04	1.0E-03	4.9E-07	1.6E-01	4.2E-02	3.2E-09	9.4E-05	4.7E-04
186	5.9E-01	6.5E-04	1.0E-03	4.0E-07	1.6E-01	4.2E-02	2.6E-09	7.7E-05	3.9E-04
187	5.2E-01	6.5E-04	1.0E-03	3.5E-07	1.6E-01	4.2E-02	2.3E-09	6.9E-05	3.4E-04
188	4.7E-01	6.5E-04	1.0E-03	3.1E-07	1.6E-01	4.2E-02	2.1E-09	6.1E-05	3.1E-04
189	2.2E-01	6.5E-04	1.0E-03	1.5E-07	1.6E-01	4.2E-02	9.9E-10	2.9E-05	1.5E-04
190	2.5E-01	6.5E-04	1.0E-03	1.7E-07	1.6E-01	4.2E-02	1.1E-09	3.2E-05	1.6E-04
191	2.7E-01	6.5E-04	1.0E-03	1.9E-07	1.6E-01	4.2E-02	1.2E-09	3.6E-05	1.8E-04
192	3.1E-01	6.5E-04	1.0E-03	2.1E-07	1.6E-01	4.2E-02	1.4E-09	4.0E-05	2.0E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	6.5E-04	1.0E-03	2.3E-07	1.6E-01	4.2E-02	1.5E-09	4.5E-05	2.3E-04
194	3.8E-01	6.5E-04	1.0E-03	2.6E-07	1.6E-01	4.2E-02	1.7E-09	5.0E-05	2.5E-04
195	4.3E-01	6.5E-04	1.0E-03	2.9E-07	1.6E-01	4.2E-02	1.9E-09	5.6E-05	2.8E-04
196	4.7E-01	6.5E-04	1.0E-03	3.2E-07	1.6E-01	4.2E-02	2.1E-09	6.1E-05	3.1E-04
197	5.6E-01	6.5E-04	1.0E-03	3.8E-07	1.6E-01	4.2E-02	2.5E-09	7.4E-05	3.7E-04
198	6.1E-01	6.5E-04	1.0E-03	4.1E-07	1.6E-01	4.2E-02	2.7E-09	7.9E-05	4.0E-04
199	5.7E-01	6.5E-04	1.0E-03	3.9E-07	1.6E-01	4.2E-02	2.6E-09	7.5E-05	3.8E-04
200	5.3E-01	6.5E-04	1.0E-03	3.6E-07	1.6E-01	4.2E-02	2.4E-09	7.0E-05	3.5E-04
201	4.9E-01	6.5E-04	1.0E-03	3.3E-07	1.6E-01	4.2E-02	2.2E-09	6.5E-05	3.2E-04
202	4.5E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.9E-05	3.0E-04
203	4.1E-01	6.5E-04	1.0E-03	2.8E-07	1.6E-01	4.2E-02	1.8E-09	5.4E-05	2.7E-04
204	2.0E-01	6.5E-04	1.0E-03	1.4E-07	1.6E-01	4.2E-02	9.2E-10	2.7E-05	1.3E-04
205	2.3E-01	6.5E-04	1.0E-03	1.5E-07	1.6E-01	4.2E-02	1.0E-09	2.9E-05	1.5E-04
206	2.5E-01	6.5E-04	1.0E-03	1.7E-07	1.6E-01	4.2E-02	1.1E-09	3.3E-05	1.6E-04
207	2.7E-01	6.5E-04	1.0E-03	1.9E-07	1.6E-01	4.2E-02	1.2E-09	3.6E-05	1.8E-04
208	3.0E-01	6.5E-04	1.0E-03	2.0E-07	1.6E-01	4.2E-02	1.4E-09	4.0E-05	2.0E-04
209	3.3E-01	6.5E-04	1.0E-03	2.2E-07	1.6E-01	4.2E-02	1.5E-09	4.3E-05	2.2E-04
210	3.6E-01	6.5E-04	1.0E-03	2.4E-07	1.6E-01	4.2E-02	1.6E-09	4.7E-05	2.4E-04
211	4.2E-01	6.5E-04	1.0E-03	2.9E-07	1.6E-01	4.2E-02	1.9E-09	5.6E-05	2.8E-04
212	4.5E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.9E-05	2.9E-04
213	5.0E-01	6.5E-04	1.0E-03	3.4E-07	1.6E-01	4.2E-02	2.2E-09	6.5E-05	3.3E-04
214	5.0E-01	6.5E-04	1.0E-03	3.3E-07	1.6E-01	4.2E-02	2.2E-09	6.5E-05	3.2E-04
215	4.9E-01	6.5E-04	1.0E-03	3.3E-07	1.6E-01	4.2E-02	2.2E-09	6.4E-05	3.2E-04
216	4.7E-01	6.5E-04	1.0E-03	3.2E-07	1.6E-01	4.2E-02	2.1E-09	6.1E-05	3.1E-04
217	4.4E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.8E-05	2.9E-04
218	4.2E-01	6.5E-04	1.0E-03	2.8E-07	1.6E-01	4.2E-02	1.9E-09	5.5E-05	2.7E-04
219	3.9E-01	6.5E-04	1.0E-03	2.6E-07	1.6E-01	4.2E-02	1.7E-09	5.1E-05	2.5E-04
220	3.5E-01	6.5E-04	1.0E-03	2.4E-07	1.6E-01	4.2E-02	1.6E-09	4.7E-05	2.3E-04
221	1.9E-01	6.5E-04	1.0E-03	1.3E-07	1.6E-01	4.2E-02	8.4E-10	2.5E-05	1.2E-04
222	2.1E-01	6.5E-04	1.0E-03	1.4E-07	1.6E-01	4.2E-02	9.2E-10	2.7E-05	1.3E-04
223	2.2E-01	6.5E-04	1.0E-03	1.5E-07	1.6E-01	4.2E-02	1.0E-09	2.9E-05	1.5E-04
224	2.5E-01	6.5E-04	1.0E-03	1.7E-07	1.6E-01	4.2E-02	1.1E-09	3.2E-05	1.6E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	6.5E-04	1.0E-03	1.8E-07	1.6E-01	4.2E-02	1.2E-09	3.5E-05	1.7E-04
226	3.1E-01	6.5E-04	1.0E-03	2.1E-07	1.6E-01	4.2E-02	1.4E-09	4.1E-05	2.0E-04
227	3.3E-01	6.5E-04	1.0E-03	2.3E-07	1.6E-01	4.2E-02	1.5E-09	4.4E-05	2.2E-04
228	3.5E-01	6.5E-04	1.0E-03	2.4E-07	1.6E-01	4.2E-02	1.6E-09	4.6E-05	2.3E-04
229	3.7E-01	6.5E-04	1.0E-03	2.5E-07	1.6E-01	4.2E-02	1.7E-09	4.9E-05	2.4E-04
230	4.0E-01	6.5E-04	1.0E-03	2.7E-07	1.6E-01	4.2E-02	1.8E-09	5.3E-05	2.6E-04
231	4.0E-01	6.5E-04	1.0E-03	2.7E-07	1.6E-01	4.2E-02	1.8E-09	5.3E-05	2.6E-04
232	4.0E-01	6.5E-04	1.0E-03	2.7E-07	1.6E-01	4.2E-02	1.8E-09	5.2E-05	2.6E-04
233	3.9E-01	6.5E-04	1.0E-03	2.6E-07	1.6E-01	4.2E-02	1.7E-09	5.1E-05	2.5E-04
234	3.7E-01	6.5E-04	1.0E-03	2.5E-07	1.6E-01	4.2E-02	1.7E-09	4.9E-05	2.4E-04
235	3.5E-01	6.5E-04	1.0E-03	2.4E-07	1.6E-01	4.2E-02	1.6E-09	4.6E-05	2.3E-04
236	3.3E-01	6.5E-04	1.0E-03	2.2E-07	1.6E-01	4.2E-02	1.5E-09	4.4E-05	2.2E-04
237	3.1E-01	6.5E-04	1.0E-03	2.1E-07	1.6E-01	4.2E-02	1.4E-09	4.1E-05	2.0E-04
238	1.8E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	8.0E-09	2.3E-04	1.2E-03
239	1.8E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	8.2E-09	2.4E-04	1.2E-03
240	1.9E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.3E-09	2.4E-04	1.2E-03
241	1.9E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.4E-09	2.5E-04	1.2E-03
242	1.9E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.6E-09	2.5E-04	1.2E-03
243	1.9E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.7E-09	2.5E-04	1.3E-03
244	2.0E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.8E-09	2.6E-04	1.3E-03
245	2.0E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.9E-09	2.6E-04	1.3E-03
246	2.0E+00	6.5E-04	1.0E-03	1.4E-06	1.6E-01	4.2E-02	9.1E-09	2.7E-04	1.3E-03
247	2.1E+00	6.5E-04	1.0E-03	1.4E-06	1.6E-01	4.2E-02	9.2E-09	2.7E-04	1.3E-03
248	2.1E+00	6.5E-04	1.0E-03	1.4E-06	1.6E-01	4.2E-02	9.4E-09	2.7E-04	1.4E-03
249	2.1E+00	6.5E-04	1.0E-03	1.4E-06	1.6E-01	4.2E-02	9.5E-09	2.8E-04	1.4E-03
250	2.2E+00	6.5E-04	1.0E-03	1.5E-06	1.6E-01	4.2E-02	9.7E-09	2.8E-04	1.4E-03
251	2.2E+00	6.5E-04	1.0E-03	1.5E-06	1.6E-01	4.2E-02	9.8E-09	2.9E-04	1.4E-03
252	2.2E+00	6.5E-04	1.0E-03	1.5E-06	1.6E-01	4.2E-02	9.8E-09	2.8E-04	1.4E-03
253	2.2E+00	6.5E-04	1.0E-03	1.5E-06	1.6E-01	4.2E-02	1.0E-08	2.9E-04	1.5E-03
254	2.3E+00	6.5E-04	1.0E-03	1.5E-06	1.6E-01	4.2E-02	1.0E-08	3.0E-04	1.5E-03
255	2.3E+00	6.5E-04	1.0E-03	1.6E-06	1.6E-01	4.2E-02	1.0E-08	3.0E-04	1.5E-03
256	2.3E+00	6.5E-04	1.0E-03	1.6E-06	1.6E-01	4.2E-02	1.1E-08	3.1E-04	1.5E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	6.5E-04	1.0E-03	1.6E-06	1.6E-01	4.2E-02	1.1E-08	3.1E-04	1.6E-03
258	2.4E+00	6.5E-04	1.0E-03	1.6E-06	1.6E-01	4.2E-02	1.1E-08	3.1E-04	1.6E-03
259	2.4E+00	6.5E-04	1.0E-03	1.6E-06	1.6E-01	4.2E-02	1.1E-08	3.2E-04	1.6E-03
260	2.5E+00	6.5E-04	1.0E-03	1.7E-06	1.6E-01	4.2E-02	1.1E-08	3.2E-04	1.6E-03
261	2.5E+00	6.5E-04	1.0E-03	1.7E-06	1.6E-01	4.2E-02	1.1E-08	3.3E-04	1.6E-03
262	2.6E+00	6.5E-04	1.0E-03	1.7E-06	1.6E-01	4.2E-02	1.1E-08	3.3E-04	1.7E-03
263	2.6E+00	6.5E-04	1.0E-03	1.8E-06	1.6E-01	4.2E-02	1.2E-08	3.4E-04	1.7E-03
264	2.6E+00	6.5E-04	1.0E-03	1.8E-06	1.6E-01	4.2E-02	1.2E-08	3.4E-04	1.7E-03
265	2.7E+00	6.5E-04	1.0E-03	1.8E-06	1.6E-01	4.2E-02	1.2E-08	3.5E-04	1.7E-03
266	2.7E+00	6.5E-04	1.0E-03	1.8E-06	1.6E-01	4.2E-02	1.2E-08	3.5E-04	1.8E-03
267	2.7E+00	6.5E-04	1.0E-03	1.8E-06	1.6E-01	4.2E-02	1.2E-08	3.6E-04	1.8E-03
268	2.7E+00	6.5E-04	1.0E-03	1.9E-06	1.6E-01	4.2E-02	1.2E-08	3.6E-04	1.8E-03
269	2.8E+00	6.5E-04	1.0E-03	1.9E-06	1.6E-01	4.2E-02	1.2E-08	3.6E-04	1.8E-03
270	2.8E+00	6.5E-04	1.0E-03	1.9E-06	1.6E-01	4.2E-02	1.2E-08	3.6E-04	1.8E-03
271	2.9E+00	6.5E-04	1.0E-03	2.0E-06	1.6E-01	4.2E-02	1.3E-08	3.8E-04	1.9E-03
272	3.0E+00	6.5E-04	1.0E-03	2.0E-06	1.6E-01	4.2E-02	1.3E-08	3.9E-04	1.9E-03
273	3.0E+00	6.5E-04	1.0E-03	2.0E-06	1.6E-01	4.2E-02	1.3E-08	3.9E-04	2.0E-03
274	3.0E+00	6.5E-04	1.0E-03	2.0E-06	1.6E-01	4.2E-02	1.4E-08	4.0E-04	2.0E-03
275	3.0E+00	6.5E-04	1.0E-03	2.1E-06	1.6E-01	4.2E-02	1.4E-08	4.0E-04	2.0E-03
276	3.1E+00	6.5E-04	1.0E-03	2.1E-06	1.6E-01	4.2E-02	1.4E-08	4.0E-04	2.0E-03
277	3.1E+00	6.5E-04	1.0E-03	2.1E-06	1.6E-01	4.2E-02	1.4E-08	4.0E-04	2.0E-03
278	3.1E+00	6.5E-04	1.0E-03	2.1E-06	1.6E-01	4.2E-02	1.4E-08	4.0E-04	2.0E-03
279	3.1E+00	6.5E-04	1.0E-03	2.1E-06	1.6E-01	4.2E-02	1.4E-08	4.0E-04	2.0E-03
280	3.0E+00	6.5E-04	1.0E-03	2.0E-06	1.6E-01	4.2E-02	1.4E-08	4.0E-04	2.0E-03
281	3.0E+00	6.5E-04	1.0E-03	2.0E-06	1.6E-01	4.2E-02	1.3E-08	3.9E-04	2.0E-03
282	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.4E-04	2.2E-03
283	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.4E-04	2.2E-03
284	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.5E-04	2.2E-03
285	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.5E-04	2.2E-03
286	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.5E-04	2.2E-03
287	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.5E-04	2.2E-03
288	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.5E-04	2.2E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.4E-04	2.2E-03
290	3.3E+00	6.5E-04	1.0E-03	2.2E-06	1.6E-01	4.2E-02	1.5E-08	4.4E-04	2.2E-03
291	3.3E+00	6.5E-04	1.0E-03	2.2E-06	1.6E-01	4.2E-02	1.5E-08	4.3E-04	2.2E-03
292	3.3E+00	6.5E-04	1.0E-03	2.2E-06	1.6E-01	4.2E-02	1.5E-08	4.3E-04	2.1E-03
293	3.9E+00	6.5E-04	1.0E-03	2.6E-06	1.6E-01	4.2E-02	1.7E-08	5.1E-04	2.5E-03
294	3.9E+00	6.5E-04	1.0E-03	2.6E-06	1.6E-01	4.2E-02	1.7E-08	5.1E-04	2.5E-03
295	3.9E+00	6.5E-04	1.0E-03	2.6E-06	1.6E-01	4.2E-02	1.7E-08	5.0E-04	2.5E-03
296	3.8E+00	6.5E-04	1.0E-03	2.6E-06	1.6E-01	4.2E-02	1.7E-08	5.0E-04	2.5E-03
297	3.8E+00	6.5E-04	1.0E-03	2.5E-06	1.6E-01	4.2E-02	1.7E-08	4.9E-04	2.5E-03
298	3.7E+00	6.5E-04	1.0E-03	2.5E-06	1.6E-01	4.2E-02	1.7E-08	4.9E-04	2.4E-03
299	3.7E+00	6.5E-04	1.0E-03	2.5E-06	1.6E-01	4.2E-02	1.6E-08	4.8E-04	2.4E-03
300	3.6E+00	6.5E-04	1.0E-03	2.4E-06	1.6E-01	4.2E-02	1.6E-08	4.7E-04	2.4E-03
301	3.5E+00	6.5E-04	1.0E-03	2.4E-06	1.6E-01	4.2E-02	1.6E-08	4.6E-04	2.3E-03
302	3.5E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.6E-08	4.6E-04	2.3E-03
303	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.5E-04	2.2E-03
304	4.4E+00	6.5E-04	1.0E-03	2.9E-06	1.6E-01	4.2E-02	2.0E-08	5.7E-04	2.8E-03
305	4.3E+00	6.5E-04	1.0E-03	2.9E-06	1.6E-01	4.2E-02	1.9E-08	5.6E-04	2.8E-03
306	4.2E+00	6.5E-04	1.0E-03	2.9E-06	1.6E-01	4.2E-02	1.9E-08	5.5E-04	2.8E-03
307	4.2E+00	6.5E-04	1.0E-03	2.8E-06	1.6E-01	4.2E-02	1.9E-08	5.5E-04	2.7E-03
308	4.1E+00	6.5E-04	1.0E-03	2.8E-06	1.6E-01	4.2E-02	1.8E-08	5.4E-04	2.7E-03
309	4.0E+00	6.5E-04	1.0E-03	2.7E-06	1.6E-01	4.2E-02	1.8E-08	5.3E-04	2.6E-03
310	3.9E+00	6.5E-04	1.0E-03	2.6E-06	1.6E-01	4.2E-02	1.8E-08	5.1E-04	2.6E-03
311	3.8E+00	6.5E-04	1.0E-03	2.6E-06	1.6E-01	4.2E-02	1.7E-08	5.0E-04	2.5E-03
312	3.7E+00	6.5E-04	1.0E-03	2.5E-06	1.6E-01	4.2E-02	1.7E-08	4.9E-04	2.5E-03
313	3.6E+00	6.5E-04	1.0E-03	2.4E-06	1.6E-01	4.2E-02	1.6E-08	4.8E-04	2.4E-03
314	3.5E+00	6.5E-04	1.0E-03	2.4E-06	1.6E-01	4.2E-02	1.6E-08	4.6E-04	2.3E-03
315	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.5E-04	2.3E-03
316	4.7E+00	6.5E-04	1.0E-03	3.2E-06	1.6E-01	4.2E-02	2.1E-08	6.2E-04	3.1E-03
317	4.6E+00	6.5E-04	1.0E-03	3.1E-06	1.6E-01	4.2E-02	2.1E-08	6.0E-04	3.0E-03
318	4.5E+00	6.5E-04	1.0E-03	3.0E-06	1.6E-01	4.2E-02	2.0E-08	5.9E-04	2.9E-03
319	4.4E+00	6.5E-04	1.0E-03	2.9E-06	1.6E-01	4.2E-02	2.0E-08	5.7E-04	2.9E-03
320	4.2E+00	6.5E-04	1.0E-03	2.9E-06	1.6E-01	4.2E-02	1.9E-08	5.6E-04	2.8E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	6.5E-04	1.0E-03	2.8E-06	1.6E-01	4.2E-02	1.8E-08	5.4E-04	2.7E-03
322	4.0E+00	6.5E-04	1.0E-03	2.7E-06	1.6E-01	4.2E-02	1.8E-08	5.2E-04	2.6E-03
323	3.8E+00	6.5E-04	1.0E-03	2.6E-06	1.6E-01	4.2E-02	1.7E-08	5.0E-04	2.5E-03
324	3.7E+00	6.5E-04	1.0E-03	2.5E-06	1.6E-01	4.2E-02	1.7E-08	4.9E-04	2.4E-03
325	5.0E+00	6.5E-04	1.0E-03	3.4E-06	1.6E-01	4.2E-02	2.2E-08	6.6E-04	3.3E-03
326	4.9E+00	6.5E-04	1.0E-03	3.3E-06	1.6E-01	4.2E-02	2.2E-08	6.4E-04	3.2E-03
327	4.7E+00	6.5E-04	1.0E-03	3.2E-06	1.6E-01	4.2E-02	2.1E-08	6.2E-04	3.1E-03
328	4.5E+00	6.5E-04	1.0E-03	3.1E-06	1.6E-01	4.2E-02	2.0E-08	5.9E-04	3.0E-03
329	4.4E+00	6.5E-04	1.0E-03	3.0E-06	1.6E-01	4.2E-02	2.0E-08	5.7E-04	2.9E-03
330	4.2E+00	6.5E-04	1.0E-03	2.8E-06	1.6E-01	4.2E-02	1.9E-08	5.5E-04	2.7E-03
331	5.2E+00	6.5E-04	1.0E-03	3.5E-06	1.6E-01	4.2E-02	2.3E-08	6.8E-04	3.4E-03
332	5.0E+00	6.5E-04	1.0E-03	3.4E-06	1.6E-01	4.2E-02	2.2E-08	6.5E-04	3.3E-03
333	4.8E+00	6.5E-04	1.0E-03	3.2E-06	1.6E-01	4.2E-02	2.1E-08	6.3E-04	3.1E-03
334	4.6E+00	6.5E-04	1.0E-03	3.1E-06	1.6E-01	4.2E-02	2.1E-08	6.0E-04	3.0E-03
335	1.7E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	7.8E-09	2.3E-04	1.1E-03
336	1.8E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	8.0E-09	2.3E-04	1.2E-03
337	1.8E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	8.2E-09	2.4E-04	1.2E-03
338	1.9E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.4E-09	2.4E-04	1.2E-03
339	1.9E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.4E-09	2.5E-04	1.2E-03
340	1.9E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.7E-09	2.5E-04	1.3E-03
341	2.0E+00	6.5E-04	1.0E-03	1.3E-06	1.6E-01	4.2E-02	8.9E-09	2.6E-04	1.3E-03
342	2.0E+00	6.5E-04	1.0E-03	1.4E-06	1.6E-01	4.2E-02	9.2E-09	2.7E-04	1.3E-03
343	2.0E+00	6.5E-04	1.0E-03	1.4E-06	1.6E-01	4.2E-02	9.1E-09	2.7E-04	1.3E-03
344	2.1E+00	6.5E-04	1.0E-03	1.4E-06	1.6E-01	4.2E-02	9.4E-09	2.7E-04	1.4E-03
345	2.2E+00	6.5E-04	1.0E-03	1.5E-06	1.6E-01	4.2E-02	9.7E-09	2.8E-04	1.4E-03
346	2.2E+00	6.5E-04	1.0E-03	1.5E-06	1.6E-01	4.2E-02	1.0E-08	2.9E-04	1.5E-03
347	2.2E+00	6.5E-04	1.0E-03	1.5E-06	1.6E-01	4.2E-02	9.9E-09	2.9E-04	1.4E-03
348	2.3E+00	6.5E-04	1.0E-03	1.6E-06	1.6E-01	4.2E-02	1.0E-08	3.0E-04	1.5E-03
349	2.4E+00	6.5E-04	1.0E-03	1.6E-06	1.6E-01	4.2E-02	1.1E-08	3.1E-04	1.6E-03
350	2.5E+00	6.5E-04	1.0E-03	1.7E-06	1.6E-01	4.2E-02	1.1E-08	3.2E-04	1.6E-03
351	2.4E+00	6.5E-04	1.0E-03	1.6E-06	1.6E-01	4.2E-02	1.1E-08	3.2E-04	1.6E-03
352	2.5E+00	6.5E-04	1.0E-03	1.7E-06	1.6E-01	4.2E-02	1.1E-08	3.3E-04	1.6E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	6.5E-04	1.0E-03	1.8E-06	1.6E-01	4.2E-02	1.2E-08	3.4E-04	1.7E-03
354	2.7E+00	6.5E-04	1.0E-03	1.9E-06	1.6E-01	4.2E-02	1.2E-08	3.6E-04	1.8E-03
355	2.6E+00	6.5E-04	1.0E-03	1.8E-06	1.6E-01	4.2E-02	1.2E-08	3.4E-04	1.7E-03
356	2.8E+00	6.5E-04	1.0E-03	1.9E-06	1.6E-01	4.2E-02	1.2E-08	3.6E-04	1.8E-03
357	2.9E+00	6.5E-04	1.0E-03	2.0E-06	1.6E-01	4.2E-02	1.3E-08	3.8E-04	1.9E-03
358	3.0E+00	6.5E-04	1.0E-03	2.1E-06	1.6E-01	4.2E-02	1.4E-08	4.0E-04	2.0E-03
359	2.9E+00	6.5E-04	1.0E-03	2.0E-06	1.6E-01	4.2E-02	1.3E-08	3.8E-04	1.9E-03
360	3.1E+00	6.5E-04	1.0E-03	2.1E-06	1.6E-01	4.2E-02	1.4E-08	4.0E-04	2.0E-03
361	3.2E+00	6.5E-04	1.0E-03	2.2E-06	1.6E-01	4.2E-02	1.4E-08	4.2E-04	2.1E-03
362	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.4E-04	2.2E-03
363	3.2E+00	6.5E-04	1.0E-03	2.2E-06	1.6E-01	4.2E-02	1.4E-08	4.1E-04	2.1E-03
364	3.4E+00	6.5E-04	1.0E-03	2.3E-06	1.6E-01	4.2E-02	1.5E-08	4.4E-04	2.2E-03
365	3.6E+00	6.5E-04	1.0E-03	2.4E-06	1.6E-01	4.2E-02	1.6E-08	4.7E-04	2.3E-03
366	3.8E+00	6.5E-04	1.0E-03	2.6E-06	1.6E-01	4.2E-02	1.7E-08	5.0E-04	2.5E-03
367	3.5E+00	6.5E-04	1.0E-03	2.4E-06	1.6E-01	4.2E-02	1.6E-08	4.5E-04	2.3E-03
368	3.7E+00	6.5E-04	1.0E-03	2.5E-06	1.6E-01	4.2E-02	1.7E-08	4.9E-04	2.4E-03
369	4.0E+00	6.5E-04	1.0E-03	2.7E-06	1.6E-01	4.2E-02	1.8E-08	5.2E-04	2.6E-03
370	4.3E+00	6.5E-04	1.0E-03	2.9E-06	1.6E-01	4.2E-02	1.9E-08	5.6E-04	2.8E-03
371	3.8E+00	6.5E-04	1.0E-03	2.6E-06	1.6E-01	4.2E-02	1.7E-08	5.0E-04	2.5E-03
372	4.1E+00	6.5E-04	1.0E-03	2.8E-06	1.6E-01	4.2E-02	1.9E-08	5.4E-04	2.7E-03
373	4.5E+00	6.5E-04	1.0E-03	3.0E-06	1.6E-01	4.2E-02	2.0E-08	5.8E-04	2.9E-03
374	4.8E+00	6.5E-04	1.0E-03	3.3E-06	1.6E-01	4.2E-02	2.2E-08	6.3E-04	3.1E-03
375	4.2E+00	6.5E-04	1.0E-03	2.8E-06	1.6E-01	4.2E-02	1.9E-08	5.4E-04	2.7E-03
376	4.6E+00	6.5E-04	1.0E-03	3.1E-06	1.6E-01	4.2E-02	2.0E-08	5.9E-04	3.0E-03
377	5.0E+00	6.5E-04	1.0E-03	3.4E-06	1.6E-01	4.2E-02	2.2E-08	6.5E-04	3.2E-03
378	5.5E+00	6.5E-04	1.0E-03	3.7E-06	1.6E-01	4.2E-02	2.5E-08	7.1E-04	3.6E-03
379	4.5E+00	6.5E-04	1.0E-03	3.1E-06	1.6E-01	4.2E-02	2.0E-08	5.9E-04	3.0E-03
380	5.0E+00	6.5E-04	1.0E-03	3.4E-06	1.6E-01	4.2E-02	2.2E-08	6.5E-04	3.3E-03
381	5.6E+00	6.5E-04	1.0E-03	3.8E-06	1.6E-01	4.2E-02	2.5E-08	7.2E-04	3.6E-03
382	6.2E+00	6.5E-04	1.0E-03	4.2E-06	1.6E-01	4.2E-02	2.8E-08	8.0E-04	4.0E-03
383	4.9E+00	6.5E-04	1.0E-03	3.3E-06	1.6E-01	4.2E-02	2.2E-08	6.4E-04	3.2E-03
384	5.5E+00	6.5E-04	1.0E-03	3.7E-06	1.6E-01	4.2E-02	2.5E-08	7.1E-04	3.6E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	6.5E-04	1.0E-03	4.2E-06	1.6E-01	4.2E-02	2.7E-08	8.0E-04	4.0E-03
386	6.9E+00	6.5E-04	1.0E-03	4.7E-06	1.6E-01	4.2E-02	3.1E-08	9.0E-04	4.5E-03
387	5.2E+00	6.5E-04	1.0E-03	3.5E-06	1.6E-01	4.2E-02	2.3E-08	6.8E-04	3.4E-03
388	5.9E+00	6.5E-04	1.0E-03	4.0E-06	1.6E-01	4.2E-02	2.6E-08	7.7E-04	3.8E-03
389	6.7E+00	6.5E-04	1.0E-03	4.5E-06	1.6E-01	4.2E-02	3.0E-08	8.7E-04	4.4E-03
390	7.7E+00	6.5E-04	1.0E-03	5.2E-06	1.6E-01	4.2E-02	3.4E-08	1.0E-03	5.0E-03
391	5.6E+00	6.5E-04	1.0E-03	3.8E-06	1.6E-01	4.2E-02	2.5E-08	7.2E-04	3.6E-03
392	6.3E+00	6.5E-04	1.0E-03	4.3E-06	1.6E-01	4.2E-02	2.8E-08	8.2E-04	4.1E-03
393	7.2E+00	6.5E-04	1.0E-03	4.9E-06	1.6E-01	4.2E-02	3.2E-08	9.4E-04	4.7E-03
394	8.4E+00	6.5E-04	1.0E-03	5.7E-06	1.6E-01	4.2E-02	3.8E-08	1.1E-03	5.5E-03
395	5.8E+00	6.5E-04	1.0E-03	3.9E-06	1.6E-01	4.2E-02	2.6E-08	7.6E-04	3.8E-03
396	6.7E+00	6.5E-04	1.0E-03	4.5E-06	1.6E-01	4.2E-02	3.0E-08	8.7E-04	4.3E-03
397	7.7E+00	6.5E-04	1.0E-03	5.2E-06	1.6E-01	4.2E-02	3.5E-08	1.0E-03	5.0E-03
398	9.1E+00	6.5E-04	1.0E-03	6.1E-06	1.6E-01	4.2E-02	4.1E-08	1.2E-03	5.9E-03
399	6.0E+00	6.5E-04	1.0E-03	4.1E-06	1.6E-01	4.2E-02	2.7E-08	7.8E-04	3.9E-03
400	7.0E+00	6.5E-04	1.0E-03	4.7E-06	1.6E-01	4.2E-02	3.1E-08	9.0E-04	4.5E-03
401	8.1E+00	6.5E-04	1.0E-03	5.5E-06	1.6E-01	4.2E-02	3.6E-08	1.1E-03	5.3E-03
402	9.6E+00	6.5E-04	1.0E-03	6.5E-06	1.6E-01	4.2E-02	4.3E-08	1.2E-03	6.2E-03
403	6.2E+00	6.5E-04	1.0E-03	4.2E-06	1.6E-01	4.2E-02	2.8E-08	8.1E-04	4.0E-03
404	7.2E+00	6.5E-04	1.0E-03	4.9E-06	1.6E-01	4.2E-02	3.2E-08	9.3E-04	4.7E-03
405	8.4E+00	6.5E-04	1.0E-03	5.7E-06	1.6E-01	4.2E-02	3.8E-08	1.1E-03	5.5E-03
406	1.0E+01	6.5E-04	1.0E-03	6.8E-06	1.6E-01	4.2E-02	4.5E-08	1.3E-03	6.5E-03
407	6.3E+00	6.5E-04	1.0E-03	4.3E-06	1.6E-01	4.2E-02	2.8E-08	8.2E-04	4.1E-03
408	7.4E+00	6.5E-04	1.0E-03	5.0E-06	1.6E-01	4.2E-02	3.3E-08	9.6E-04	4.8E-03
409	8.7E+00	6.5E-04	1.0E-03	5.9E-06	1.6E-01	4.2E-02	3.9E-08	1.1E-03	5.6E-03
410	1.0E+01	6.5E-04	1.0E-03	7.0E-06	1.6E-01	4.2E-02	4.7E-08	1.3E-03	6.7E-03
411	6.4E+00	6.5E-04	1.0E-03	4.3E-06	1.6E-01	4.2E-02	2.9E-08	8.3E-04	4.1E-03
412	7.5E+00	6.5E-04	1.0E-03	5.1E-06	1.6E-01	4.2E-02	3.3E-08	9.7E-04	4.8E-03
413	8.8E+00	6.5E-04	1.0E-03	6.0E-06	1.6E-01	4.2E-02	4.0E-08	1.1E-03	5.7E-03
414	1.1E+01	6.5E-04	1.0E-03	7.2E-06	1.6E-01	4.2E-02	4.8E-08	1.4E-03	6.9E-03
415	6.4E+00	6.5E-04	1.0E-03	4.3E-06	1.6E-01	4.2E-02	2.9E-08	8.3E-04	4.2E-03
416	7.5E+00	6.5E-04	1.0E-03	5.1E-06	1.6E-01	4.2E-02	3.4E-08	9.7E-04	4.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	6.5E-04	1.0E-03	6.0E-06	1.6E-01	4.2E-02	4.0E-08	1.2E-03	5.8E-03
418	1.1E+01	6.5E-04	1.0E-03	7.3E-06	1.6E-01	4.2E-02	4.8E-08	1.4E-03	7.0E-03
419	6.4E+00	6.5E-04	1.0E-03	4.3E-06	1.6E-01	4.2E-02	2.8E-08	8.2E-04	4.1E-03
420	7.5E+00	6.5E-04	1.0E-03	5.1E-06	1.6E-01	4.2E-02	3.3E-08	9.7E-04	4.8E-03
421	8.9E+00	6.5E-04	1.0E-03	6.0E-06	1.6E-01	4.2E-02	4.0E-08	1.2E-03	5.8E-03
422	1.1E+01	6.5E-04	1.0E-03	7.3E-06	1.6E-01	4.2E-02	4.8E-08	1.4E-03	7.0E-03
423	6.3E+00	6.5E-04	1.0E-03	4.2E-06	1.6E-01	4.2E-02	2.8E-08	8.1E-04	4.1E-03
424	7.4E+00	6.5E-04	1.0E-03	5.0E-06	1.6E-01	4.2E-02	3.3E-08	9.6E-04	4.8E-03
425	8.8E+00	6.5E-04	1.0E-03	5.9E-06	1.6E-01	4.2E-02	3.9E-08	1.1E-03	5.7E-03
426	1.1E+01	6.5E-04	1.0E-03	7.2E-06	1.6E-01	4.2E-02	4.8E-08	1.4E-03	6.9E-03
427	6.1E+00	6.5E-04	1.0E-03	4.1E-06	1.6E-01	4.2E-02	2.7E-08	7.9E-04	4.0E-03
428	7.2E+00	6.5E-04	1.0E-03	4.9E-06	1.6E-01	4.2E-02	3.2E-08	9.3E-04	4.7E-03
429	8.6E+00	6.5E-04	1.0E-03	5.8E-06	1.6E-01	4.2E-02	3.8E-08	1.1E-03	5.6E-03
430	1.0E+01	6.5E-04	1.0E-03	7.0E-06	1.6E-01	4.2E-02	4.6E-08	1.3E-03	6.7E-03
431	5.9E+00	6.5E-04	1.0E-03	4.0E-06	1.6E-01	4.2E-02	2.6E-08	7.7E-04	3.8E-03
432	6.9E+00	6.5E-04	1.0E-03	4.7E-06	1.6E-01	4.2E-02	3.1E-08	9.0E-04	4.5E-03
433	8.3E+00	6.5E-04	1.0E-03	5.6E-06	1.6E-01	4.2E-02	3.7E-08	1.1E-03	5.4E-03
434	1.0E+01	6.5E-04	1.0E-03	6.8E-06	1.6E-01	4.2E-02	4.5E-08	1.3E-03	6.5E-03
435	5.6E+00	6.5E-04	1.0E-03	3.8E-06	1.6E-01	4.2E-02	2.5E-08	7.3E-04	3.7E-03
436	6.6E+00	6.5E-04	1.0E-03	4.5E-06	1.6E-01	4.2E-02	3.0E-08	8.6E-04	4.3E-03
437	7.9E+00	6.5E-04	1.0E-03	5.3E-06	1.6E-01	4.2E-02	3.5E-08	1.0E-03	5.1E-03
438	9.6E+00	6.5E-04	1.0E-03	6.5E-06	1.6E-01	4.2E-02	4.3E-08	1.2E-03	6.2E-03
439	5.4E+00	6.5E-04	1.0E-03	3.6E-06	1.6E-01	4.2E-02	2.4E-08	7.0E-04	3.5E-03
440	6.3E+00	6.5E-04	1.0E-03	4.2E-06	1.6E-01	4.2E-02	2.8E-08	8.1E-04	4.1E-03
441	7.4E+00	6.5E-04	1.0E-03	5.0E-06	1.6E-01	4.2E-02	3.3E-08	9.6E-04	4.8E-03
442	9.0E+00	6.5E-04	1.0E-03	6.1E-06	1.6E-01	4.2E-02	4.0E-08	1.2E-03	5.8E-03
443	5.0E+00	6.5E-04	1.0E-03	3.4E-06	1.6E-01	4.2E-02	2.3E-08	6.5E-04	3.3E-03
444	5.9E+00	6.5E-04	1.0E-03	4.0E-06	1.6E-01	4.2E-02	2.6E-08	7.6E-04	3.8E-03
445	6.9E+00	6.5E-04	1.0E-03	4.7E-06	1.6E-01	4.2E-02	3.1E-08	9.0E-04	4.5E-03
446	8.3E+00	6.5E-04	1.0E-03	5.6E-06	1.6E-01	4.2E-02	3.7E-08	1.1E-03	5.4E-03
447	4.7E+00	6.5E-04	1.0E-03	3.2E-06	1.6E-01	4.2E-02	2.1E-08	6.1E-04	3.1E-03
448	5.4E+00	6.5E-04	1.0E-03	3.7E-06	1.6E-01	4.2E-02	2.4E-08	7.1E-04	3.5E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	6.5E-04	1.0E-03	4.3E-06	1.6E-01	4.2E-02	2.8E-08	8.3E-04	4.1E-03
450	7.6E+00	6.5E-04	1.0E-03	5.1E-06	1.6E-01	4.2E-02	3.4E-08	9.8E-04	4.9E-03
451	4.4E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.8E-05	2.9E-04
452	4.4E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.8E-05	2.9E-04
453	4.4E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.9E-05	2.9E-04
454	4.5E-01	6.5E-04	1.0E-03	3.0E-07	1.6E-01	4.2E-02	2.0E-09	5.9E-05	2.9E-04
455	5.4E-01	6.5E-04	1.0E-03	3.6E-07	1.6E-01	4.2E-02	2.4E-09	7.1E-05	3.5E-04
456	5.4E-01	6.5E-04	1.0E-03	3.7E-07	1.6E-01	4.2E-02	2.4E-09	7.1E-05	3.6E-04
457	5.5E-01	6.5E-04	1.0E-03	3.7E-07	1.6E-01	4.2E-02	2.4E-09	7.2E-05	3.6E-04
458	5.4E-01	6.5E-04	1.0E-03	3.7E-07	1.6E-01	4.2E-02	2.4E-09	7.2E-05	3.6E-04
459	6.8E-01	6.5E-04	1.0E-03	4.6E-07	1.6E-01	4.2E-02	3.1E-09	9.0E-05	4.5E-04
460	6.8E-01	6.5E-04	1.0E-03	4.6E-07	1.6E-01	4.2E-02	3.1E-09	9.0E-05	4.5E-04
461	6.8E-01	6.5E-04	1.0E-03	4.6E-07	1.6E-01	4.2E-02	3.1E-09	9.0E-05	4.5E-04
462	7.8E-01	6.5E-04	1.0E-03	5.3E-07	1.6E-01	4.2E-02	3.5E-09	1.0E-04	5.1E-04
463	9.7E-01	6.5E-04	1.0E-03	6.5E-07	1.6E-01	4.2E-02	4.3E-09	1.3E-04	6.3E-04
464	7.9E-01	6.5E-04	1.0E-03	5.4E-07	1.6E-01	4.2E-02	3.5E-09	1.0E-04	5.2E-04
465	1.0E+00	6.5E-04	1.0E-03	6.8E-07	1.6E-01	4.2E-02	4.5E-09	1.3E-04	6.5E-04
466	1.3E+00	6.5E-04	1.0E-03	8.8E-07	1.6E-01	4.2E-02	5.8E-09	1.7E-04	8.5E-04
467	1.8E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	7.9E-09	2.3E-04	1.1E-03
468	7.7E-01	6.5E-04	1.0E-03	5.2E-07	1.6E-01	4.2E-02	3.4E-09	1.0E-04	5.0E-04
469	9.8E-01	6.5E-04	1.0E-03	6.6E-07	1.6E-01	4.2E-02	4.4E-09	1.3E-04	6.4E-04
470	1.3E+00	6.5E-04	1.0E-03	8.8E-07	1.6E-01	4.2E-02	5.8E-09	1.7E-04	8.5E-04
471	1.8E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	8.2E-09	2.4E-04	1.2E-03
472	9.2E-01	6.5E-04	1.0E-03	6.2E-07	1.6E-01	4.2E-02	4.1E-09	1.2E-04	6.0E-04
473	1.2E+00	6.5E-04	1.0E-03	8.3E-07	1.6E-01	4.2E-02	5.5E-09	1.6E-04	8.0E-04
474	1.7E+00	6.5E-04	1.0E-03	1.2E-06	1.6E-01	4.2E-02	7.8E-09	2.3E-04	1.1E-03
475	8.3E-01	6.5E-04	1.0E-03	5.6E-07	1.6E-01	4.2E-02	3.7E-09	1.1E-04	5.4E-04
476	1.1E+00	6.5E-04	1.0E-03	7.4E-07	1.6E-01	4.2E-02	4.9E-09	1.4E-04	7.2E-04
477	1.5E+00	6.5E-04	1.0E-03	1.0E-06	1.6E-01	4.2E-02	6.9E-09	2.0E-04	1.0E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
1	2.8E+00	1.2E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12
2	2.9E+00	1.2E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	2.9E+00	2.3E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12
3	3.1E+00	1.2E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.6E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12
4	3.2E+00	1.2E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	3.3E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	4.2E-02	5.1E-12
5	3.3E+00	1.2E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.9E-12	3.5E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12
6	3.5E+00	1.2E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	3.7E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12
7	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	3.9E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12
8	3.8E+00	1.2E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.3E-12	4.1E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12
9	3.9E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
10	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.4E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12
11	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.4E-12	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
12	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.4E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.8E-12
13	3.9E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
14	3.9E+00	1.2E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.0E-12
15	2.9E+00	1.2E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	4.1E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.4E-12
16	2.8E+00	1.2E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	3.8E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	6.0E-12
17	3.1E+00	1.2E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.6E-12	2.9E+00	2.3E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12
18	3.3E+00	1.2E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12
19	3.4E+00	1.2E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	3.4E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12
20	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	3.6E+00	2.3E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12
21	3.8E+00	1.2E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	3.9E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12
22	4.0E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	4.1E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12
23	4.6E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12
24	4.5E+00	1.2E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	6.1E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12
25	3.5E+00	1.2E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
26	3.3E+00	1.2E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
27	3.1E+00	1.2E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.6E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
28	3.4E+00	1.2E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12
29	3.8E+00	1.2E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	3.7E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12
30	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	4.0E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12
31	4.3E+00	1.2E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
32	4.6E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
33	4.8E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.1E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
34	5.0E+00	1.2E-07	1.0E-03	6.5E-10	1.6E-01	4.2E-02	4.3E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
35	5.3E+00	1.2E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
36	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12
37	5.5E+00	1.2E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	7.1E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
38	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	7.4E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11
39	5.3E+00	1.2E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
40	4.0E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
41	3.7E+00	1.2E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12
42	3.4E+00	1.2E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
43	3.7E+00	1.2E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	3.3E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	4.2E-02	5.1E-12
44	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.5E-12	3.6E+00	2.3E-07	1.0E-03	8.5E-10	1.6E-01	4.2E-02	5.6E-12
45	4.3E+00	1.2E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	4.0E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12
46	5.0E+00	1.2E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
47	5.3E+00	1.2E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12	5.3E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.3E-12
48	5.6E+00	1.2E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12
49	5.9E+00	1.2E-07	1.0E-03	7.7E-10	1.6E-01	4.2E-02	5.1E-12	6.3E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12
50	6.2E+00	1.2E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
51	6.5E+00	1.2E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.5E-12	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
52	6.6E+00	1.2E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12	8.8E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
53	6.5E+00	1.2E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.6E-12	9.2E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11
54	6.3E+00	1.2E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12	9.4E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11
55	6.0E+00	1.2E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.2E-12	9.3E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11
56	5.7E+00	1.2E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12	9.0E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
57	4.5E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
58	4.2E+00	1.2E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	6.5E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
59	3.8E+00	1.2E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.2E-12
60	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	3.4E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12
61	4.5E+00	1.2E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	3.7E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	4.2E-02	5.9E-12
62	4.9E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	4.2E+00	2.3E-07	1.0E-03	9.9E-10	1.6E-01	4.2E-02	6.6E-12
63	5.3E+00	1.2E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.5E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
64	5.7E+00	1.2E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	4.9E-12	5.3E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
65	7.0E+00	1.2E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.1E-12	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
66	7.5E+00	1.2E-07	1.0E-03	9.8E-10	1.6E-01	4.2E-02	6.5E-12	8.2E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
67	7.9E+00	1.2E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12	9.0E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
68	8.1E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	1.1E+01	2.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
69	7.9E+00	1.2E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
70	7.6E+00	1.2E-07	1.0E-03	9.9E-10	1.6E-01	4.2E-02	6.6E-12	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
71	7.2E+00	1.2E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
72	6.8E+00	1.2E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
73	4.4E+00	1.2E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12
74	4.9E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12
75	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
76	6.0E+00	1.2E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.2E-12	4.9E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.7E-12
77	6.7E+00	1.2E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12	5.7E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12
78	7.3E+00	1.2E-07	1.0E-03	9.5E-10	1.6E-01	4.2E-02	6.3E-12	6.5E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
79	8.0E+00	1.2E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12	7.4E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11
80	9.9E+00	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12	1.1E+01	2.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
81	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
82	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
83	9.5E+00	1.2E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
84	8.9E+00	1.2E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.6E-12	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
85	8.2E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
86	4.5E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	3.4E+00	2.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.3E-12
87	5.2E+00	1.2E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	3.9E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12
88	6.0E+00	1.2E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.1E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
89	6.8E+00	1.2E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.0E-12
90	7.7E+00	1.2E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.6E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
91	8.7E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
92	9.7E+00	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12	8.1E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
93	1.1E+01	1.2E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.2E-12	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
94	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
95	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.6E-12	2.6E+01	2.3E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11
96	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	4.2E-02	3.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
97	4.8E+00	1.2E-07	1.0E-03	6.2E-10	1.6E-01	4.2E-02	4.1E-12	3.4E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12
98	5.5E+00	1.2E-07	1.0E-03	7.2E-10	1.6E-01	4.2E-02	4.8E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12
99	6.4E+00	1.2E-07	1.0E-03	8.3E-10	1.6E-01	4.2E-02	5.5E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
100	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
101	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
102	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	1.1E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11
103	1.6E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
104	4.8E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.2E-12
105	5.7E+00	1.2E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12	3.8E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	5.9E-12
106	6.7E+00	1.2E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
107	1.8E+01	1.2E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
108	2.1E+01	1.2E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
109	4.7E+00	1.2E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.1E-12	3.2E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	5.0E-12
110	5.6E+00	1.2E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12	3.7E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12
111	6.8E+00	1.2E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
112	2.3E+01	1.2E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
113	3.0E+01	1.2E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
114	4.5E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12
115	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	3.5E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	4.2E-02	5.5E-12
116	6.6E+00	1.2E-07	1.0E-03	8.5E-10	1.6E-01	4.2E-02	5.6E-12	4.1E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12
117	8.1E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
118	2.7E+01	1.2E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
119	4.2E+01	1.2E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
120	4.3E+00	1.2E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	2.9E+00	2.3E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12
121	5.1E+00	1.2E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12	3.3E+00	2.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12
122	6.2E+00	1.2E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	3.9E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12
123	7.6E+00	1.2E-07	1.0E-03	9.9E-10	1.6E-01	4.2E-02	6.5E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.1E-12
124	2.7E+01	1.2E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	1.0E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11
125	4.8E+01	1.2E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
126	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	2.8E+00	2.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12
127	4.8E+00	1.2E-07	1.0E-03	6.2E-10	1.6E-01	4.2E-02	4.1E-12	3.2E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	5.0E-12
128	5.7E+00	1.2E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	4.9E-12	3.7E+00	2.3E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
129	7.1E+00	1.2E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
130	8.9E+00	1.2E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.6E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
131	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	6.1E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12
132	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
133	2.4E+01	1.2E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
134	4.0E+01	1.2E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.5E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
135	8.8E+01	1.2E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.6E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11
136	3.8E+00	1.2E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	2.7E+00	2.3E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12
137	4.5E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	3.0E+00	2.3E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12
138	5.3E+00	1.2E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12
139	6.5E+00	1.2E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.6E-12	4.0E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.3E-12
140	8.1E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
141	1.0E+01	1.2E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12
142	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
143	2.0E+01	1.2E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	8.6E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
144	3.0E+01	1.2E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11	1.1E+01	2.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
145	5.2E+01	1.2E-07	1.0E-03	6.7E-09	1.6E-01	4.2E-02	4.4E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
146	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	2.5E+00	2.3E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12
147	4.2E+00	1.2E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.6E-12	2.9E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12
148	5.0E+00	1.2E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12	3.2E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	4.2E-02	5.1E-12
149	6.0E+00	1.2E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.2E-12	3.8E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	4.2E-02	5.9E-12
150	7.3E+00	1.2E-07	1.0E-03	9.5E-10	1.6E-01	4.2E-02	6.3E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
151	9.2E+00	1.2E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.1E-12
152	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.7E-12
153	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	7.6E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
154	2.2E+01	1.2E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11	9.5E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11
155	3.2E+01	1.2E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
156	3.4E+00	1.2E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	2.4E+00	2.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12
157	4.0E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12
158	4.6E+00	1.2E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12	3.1E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	4.2E-02	4.8E-12
159	5.5E+00	1.2E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	3.5E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	4.2E-02	5.5E-12
160	6.6E+00	1.2E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.3E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
161	8.1E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
162	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12
163	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
164	1.6E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11	8.1E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
165	2.1E+01	1.2E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11	1.0E+01	2.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
166	3.2E+00	1.2E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	2.3E+00	2.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12
167	3.7E+00	1.2E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	2.6E+00	2.3E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12
168	4.2E+00	1.2E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.7E-12	2.9E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12
169	5.0E+00	1.2E-07	1.0E-03	6.5E-10	1.6E-01	4.2E-02	4.3E-12	3.3E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	4.2E-02	5.1E-12
170	5.9E+00	1.2E-07	1.0E-03	7.6E-10	1.6E-01	4.2E-02	5.1E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12
171	7.0E+00	1.2E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.1E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
172	8.5E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.8E-12
173	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
174	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
175	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	8.3E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
176	3.0E+00	1.2E-07	1.0E-03	3.9E-10	1.6E-01	4.2E-02	2.6E-12	2.2E+00	2.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12
177	3.4E+00	1.2E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	2.4E+00	2.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12
178	3.9E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.3E-12	2.7E+00	2.3E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12
179	4.5E+00	1.2E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.9E-12	3.0E+00	2.3E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12
180	5.2E+00	1.2E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.3E-12
181	6.1E+00	1.2E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12	3.9E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.1E-12
182	7.2E+00	1.2E-07	1.0E-03	9.3E-10	1.6E-01	4.2E-02	6.2E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
183	8.4E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
184	9.8E+00	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.2E-12
185	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.7E-12	6.8E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
186	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.4E-12
187	4.6E+00	1.2E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	3.9E-12	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12
188	3.9E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12
189	2.8E+00	1.2E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	2.0E+00	2.3E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12
190	3.1E+00	1.2E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	2.3E+00	2.3E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12
191	3.6E+00	1.2E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.1E-12	2.5E+00	2.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12
192	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.5E-12	2.8E+00	2.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
193	4.6E+00	1.2E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12
194	5.3E+00	1.2E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.5E-12	3.5E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.5E-12
195	6.1E+00	1.2E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	4.2E-02	6.1E-12
196	6.9E+00	1.2E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	6.0E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
197	8.6E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12	5.7E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12
198	7.1E+00	1.2E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
199	6.2E+00	1.2E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.7E-12
200	5.4E+00	1.2E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12
201	4.7E+00	1.2E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.0E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
202	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
203	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	4.2E-02	6.3E-12
204	2.6E+00	1.2E-07	1.0E-03	3.4E-10	1.6E-01	4.2E-02	2.2E-12	1.9E+00	2.3E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.0E-12
205	2.9E+00	1.2E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	2.1E+00	2.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12
206	3.2E+00	1.2E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	2.3E+00	2.3E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.6E-12
207	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	2.6E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.0E-12
208	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	2.8E+00	2.3E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.4E-12
209	4.6E+00	1.2E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12
210	5.2E+00	1.2E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.5E-12	3.5E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	4.2E-02	5.5E-12
211	6.3E+00	1.2E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
212	6.7E+00	1.2E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
213	6.6E+00	1.2E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12
214	6.2E+00	1.2E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.3E-12	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12
215	5.8E+00	1.2E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	4.9E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12
216	5.2E+00	1.2E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.4E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
217	4.6E+00	1.2E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12
218	4.1E+00	1.2E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
219	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	3.9E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12
220	3.2E+00	1.2E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12
221	2.4E+00	1.2E-07	1.0E-03	3.1E-10	1.6E-01	4.2E-02	2.1E-12	1.8E+00	2.3E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.8E-12
222	2.7E+00	1.2E-07	1.0E-03	3.5E-10	1.6E-01	4.2E-02	2.3E-12	2.0E+00	2.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12
223	3.0E+00	1.2E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	2.2E+00	2.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12
224	3.3E+00	1.2E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.8E-12	2.4E+00	2.3E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
225	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	2.6E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.1E-12
226	4.5E+00	1.2E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12
227	4.9E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12
228	5.2E+00	1.2E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.4E-12	3.7E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.8E-12
229	5.5E+00	1.2E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	4.2E-02	6.3E-12
230	5.3E+00	1.2E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
231	5.0E+00	1.2E-07	1.0E-03	6.5E-10	1.6E-01	4.2E-02	4.3E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
232	4.8E+00	1.2E-07	1.0E-03	6.2E-10	1.6E-01	4.2E-02	4.1E-12	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
233	4.3E+00	1.2E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	4.2E+00	2.3E-07	1.0E-03	9.9E-10	1.6E-01	4.2E-02	6.5E-12
234	3.9E+00	1.2E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	4.2E-02	6.2E-12
235	3.6E+00	1.2E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.1E-12	3.7E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12
236	3.2E+00	1.2E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	3.3E+00	2.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12
237	2.9E+00	1.2E-07	1.0E-03	3.7E-10	1.6E-01	4.2E-02	2.5E-12	3.1E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	4.2E-02	4.8E-12
238	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
239	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
240	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
241	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
242	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
243	1.1E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.7E-12	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
244	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
245	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
246	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
247	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
248	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
249	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
250	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
251	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
252	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
253	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
254	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
255	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11
256	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
257	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
258	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	2.0E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.1E-11
259	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
260	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.3E-11
261	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
262	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
263	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
264	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
265	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
266	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.2E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.4E-11
267	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.2E+01	2.3E-07	1.0E-03	5.3E-09	1.6E-01	4.2E-02	3.5E-11
268	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.3E+01	2.3E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11
269	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.4E+01	2.3E-07	1.0E-03	5.6E-09	1.6E-01	4.2E-02	3.7E-11
270	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	2.4E+01	2.3E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11
271	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.3E-11
272	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.2E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.4E-11
273	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.2E+01	2.3E-07	1.0E-03	5.3E-09	1.6E-01	4.2E-02	3.5E-11
274	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.3E+01	2.3E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11
275	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.4E+01	2.3E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11
276	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.5E+01	2.3E-07	1.0E-03	5.9E-09	1.6E-01	4.2E-02	3.9E-11
277	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.6E+01	2.3E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.0E-11
278	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.6E+01	2.3E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11
279	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.7E+01	2.3E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.2E-11
280	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.8E+01	2.3E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11
281	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	2.8E+01	2.3E-07	1.0E-03	6.7E-09	1.6E-01	4.2E-02	4.4E-11
282	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	2.4E+01	2.3E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11
283	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	2.5E+01	2.3E-07	1.0E-03	5.9E-09	1.6E-01	4.2E-02	3.9E-11
284	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	2.6E+01	2.3E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11
285	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	2.7E+01	2.3E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.2E-11
286	1.4E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	2.8E+01	2.3E-07	1.0E-03	6.6E-09	1.6E-01	4.2E-02	4.4E-11
287	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	2.9E+01	2.3E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11
288	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.0E+01	2.3E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
289	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.0E+01	2.3E-07	1.0E-03	7.2E-09	1.6E-01	4.2E-02	4.8E-11
290	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	3.1E+01	2.3E-07	1.0E-03	7.4E-09	1.6E-01	4.2E-02	4.9E-11
291	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.2E+01	2.3E-07	1.0E-03	7.5E-09	1.6E-01	4.2E-02	5.0E-11
292	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.2E+01	2.3E-07	1.0E-03	7.6E-09	1.6E-01	4.2E-02	5.0E-11
293	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	2.9E+01	2.3E-07	1.0E-03	6.9E-09	1.6E-01	4.2E-02	4.6E-11
294	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.0E+01	2.3E-07	1.0E-03	7.2E-09	1.6E-01	4.2E-02	4.8E-11
295	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.2E+01	2.3E-07	1.0E-03	7.5E-09	1.6E-01	4.2E-02	4.9E-11
296	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.3E+01	2.3E-07	1.0E-03	7.8E-09	1.6E-01	4.2E-02	5.1E-11
297	1.4E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	3.4E+01	2.3E-07	1.0E-03	8.0E-09	1.6E-01	4.2E-02	5.3E-11
298	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.5E+01	2.3E-07	1.0E-03	8.2E-09	1.6E-01	4.2E-02	5.4E-11
299	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.5E+01	2.3E-07	1.0E-03	8.4E-09	1.6E-01	4.2E-02	5.6E-11
300	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+01	2.3E-07	1.0E-03	8.5E-09	1.6E-01	4.2E-02	5.6E-11
301	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
302	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
303	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
304	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.5E+01	2.3E-07	1.0E-03	8.2E-09	1.6E-01	4.2E-02	5.5E-11
305	1.6E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
306	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+01	2.3E-07	1.0E-03	8.9E-09	1.6E-01	4.2E-02	5.9E-11
307	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.9E+01	2.3E-07	1.0E-03	9.2E-09	1.6E-01	4.2E-02	6.1E-11
308	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	4.0E+01	2.3E-07	1.0E-03	9.5E-09	1.6E-01	4.2E-02	6.3E-11
309	1.4E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	4.1E+01	2.3E-07	1.0E-03	9.7E-09	1.6E-01	4.2E-02	6.4E-11
310	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.1E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	4.2E-02	6.5E-11
311	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.2E+01	2.3E-07	1.0E-03	9.9E-09	1.6E-01	4.2E-02	6.5E-11
312	1.3E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.2E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	4.2E-02	6.5E-11
313	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	4.1E+01	2.3E-07	1.0E-03	9.7E-09	1.6E-01	4.2E-02	6.4E-11
314	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	4.0E+01	2.3E-07	1.0E-03	9.5E-09	1.6E-01	4.2E-02	6.3E-11
315	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.9E+01	2.3E-07	1.0E-03	9.2E-09	1.6E-01	4.2E-02	6.1E-11
316	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.4E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.9E-11
317	1.6E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11	4.6E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.1E-11
318	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.4E-11
319	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.5E-11
320	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
321	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.6E-11
322	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.5E-11
323	1.3E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.3E-11
324	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	4.5E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.0E-11
325	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.6E-11
326	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	5.6E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.8E-11
327	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.0E-11
328	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.0E-11
329	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	5.7E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.9E-11
330	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.6E-11
331	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	6.9E+01	2.3E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.1E-10
332	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	7.0E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	4.2E-02	1.1E-10
333	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	6.9E+01	2.3E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.1E-10
334	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	6.6E+01	2.3E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10
335	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
336	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
337	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
338	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
339	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
340	1.2E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
341	1.3E+01	1.2E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
342	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
343	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
344	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
345	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	1.4E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
346	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
347	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
348	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
349	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
350	1.4E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
351	1.4E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
352	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
353	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	1.5E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
354	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
355	1.5E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
356	1.6E+01	1.2E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
357	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
358	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
359	1.6E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
360	1.7E+01	1.2E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
361	1.7E+01	1.2E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
362	1.7E+01	1.2E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
363	1.7E+01	1.2E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	1.5E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
364	1.8E+01	1.2E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
365	1.8E+01	1.2E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.6E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
366	1.8E+01	1.2E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
367	1.8E+01	1.2E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
368	1.9E+01	1.2E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
369	1.9E+01	1.2E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
370	2.0E+01	1.2E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
371	2.0E+01	1.2E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
372	2.0E+01	1.2E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
373	2.1E+01	1.2E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
374	2.1E+01	1.2E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
375	2.1E+01	1.2E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
376	2.2E+01	1.2E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
377	2.2E+01	1.2E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
378	2.3E+01	1.2E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
379	2.3E+01	1.2E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
380	2.3E+01	1.2E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
381	2.4E+01	1.2E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
382	2.5E+01	1.2E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
383	2.4E+01	1.2E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
384	2.5E+01	1.2E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
385	2.6E+01	1.2E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11
386	2.7E+01	1.2E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11
387	2.6E+01	1.2E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11	1.7E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
388	2.7E+01	1.2E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11	1.8E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
389	2.8E+01	1.2E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
390	2.9E+01	1.2E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11	2.0E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.1E-11
391	2.8E+01	1.2E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
392	3.0E+01	1.2E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
393	3.1E+01	1.2E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
394	3.2E+01	1.2E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
395	3.1E+01	1.2E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
396	3.2E+01	1.2E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11
397	3.4E+01	1.2E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
398	3.5E+01	1.2E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
399	3.3E+01	1.2E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
400	3.5E+01	1.2E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
401	3.7E+01	1.2E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11
402	3.8E+01	1.2E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.2E-11
403	3.6E+01	1.2E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
404	3.8E+01	1.2E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
405	4.0E+01	1.2E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.5E-11	2.0E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.1E-11
406	4.3E+01	1.2E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.3E-11
407	3.9E+01	1.2E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.4E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
408	4.2E+01	1.2E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
409	4.5E+01	1.2E-07	1.0E-03	5.8E-09	1.6E-01	4.2E-02	3.8E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
410	4.7E+01	1.2E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.1E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
411	4.3E+01	1.2E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
412	4.6E+01	1.2E-07	1.0E-03	6.0E-09	1.6E-01	4.2E-02	3.9E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
413	4.9E+01	1.2E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.2E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
414	5.3E+01	1.2E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
415	4.6E+01	1.2E-07	1.0E-03	6.0E-09	1.6E-01	4.2E-02	4.0E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
416	5.0E+01	1.2E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
417	5.4E+01	1.2E-07	1.0E-03	7.1E-09	1.6E-01	4.2E-02	4.7E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
418	5.9E+01	1.2E-07	1.0E-03	7.6E-09	1.6E-01	4.2E-02	5.1E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
419	5.0E+01	1.2E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
420	5.5E+01	1.2E-07	1.0E-03	7.2E-09	1.6E-01	4.2E-02	4.7E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
421	6.0E+01	1.2E-07	1.0E-03	7.8E-09	1.6E-01	4.2E-02	5.2E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
422	6.6E+01	1.2E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.3E-11
423	5.4E+01	1.2E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.6E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
424	6.0E+01	1.2E-07	1.0E-03	7.8E-09	1.6E-01	4.2E-02	5.2E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
425	6.7E+01	1.2E-07	1.0E-03	8.7E-09	1.6E-01	4.2E-02	5.7E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
426	7.4E+01	1.2E-07	1.0E-03	9.6E-09	1.6E-01	4.2E-02	6.4E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
427	5.8E+01	1.2E-07	1.0E-03	7.5E-09	1.6E-01	4.2E-02	4.9E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
428	6.5E+01	1.2E-07	1.0E-03	8.4E-09	1.6E-01	4.2E-02	5.6E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
429	7.3E+01	1.2E-07	1.0E-03	9.5E-09	1.6E-01	4.2E-02	6.3E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
430	8.3E+01	1.2E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.2E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
431	6.1E+01	1.2E-07	1.0E-03	7.9E-09	1.6E-01	4.2E-02	5.2E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
432	7.0E+01	1.2E-07	1.0E-03	9.0E-09	1.6E-01	4.2E-02	6.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11
433	8.0E+01	1.2E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.9E-11	2.0E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.1E-11
434	9.3E+01	1.2E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.0E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
435	6.3E+01	1.2E-07	1.0E-03	8.2E-09	1.6E-01	4.2E-02	5.4E-11	1.7E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
436	7.3E+01	1.2E-07	1.0E-03	9.5E-09	1.6E-01	4.2E-02	6.3E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
437	8.6E+01	1.2E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.4E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11
438	1.0E+02	1.2E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.8E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.3E-11
439	6.4E+01	1.2E-07	1.0E-03	8.3E-09	1.6E-01	4.2E-02	5.5E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
440	7.6E+01	1.2E-07	1.0E-03	9.8E-09	1.6E-01	4.2E-02	6.5E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
441	9.0E+01	1.2E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.8E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
442	1.1E+02	1.2E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.5E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.2E-11
443	6.4E+01	1.2E-07	1.0E-03	8.3E-09	1.6E-01	4.2E-02	5.5E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
444	7.6E+01	1.2E-07	1.0E-03	9.8E-09	1.6E-01	4.2E-02	6.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11
445	9.2E+01	1.2E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.9E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
446	1.1E+02	1.2E-07	1.0E-03	1.5E-08	1.6E-01	4.2E-02	9.8E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
447	6.2E+01	1.2E-07	1.0E-03	8.1E-09	1.6E-01	4.2E-02	5.3E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
448	7.4E+01	1.2E-07	1.0E-03	9.6E-09	1.6E-01	4.2E-02	6.4E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	9.0E+01	1.2E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.7E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11
450	1.1E+02	1.2E-07	1.0E-03	1.5E-08	1.6E-01	4.2E-02	9.7E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
451	3.8E+00	1.2E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
452	3.6E+00	1.2E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.8E-12
453	3.5E+00	1.2E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
454	3.3E+00	1.2E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.9E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12
455	4.3E+00	1.2E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12
456	4.2E+00	1.2E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
457	4.0E+00	1.2E-07	1.0E-03	5.2E-10	1.6E-01	4.2E-02	3.4E-12	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	8.9E-12
458	3.8E+00	1.2E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
459	5.1E+00	1.2E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
460	4.8E+00	1.2E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
461	4.6E+00	1.2E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
462	7.6E+00	1.2E-07	1.0E-03	9.8E-10	1.6E-01	4.2E-02	6.5E-12	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12
463	8.8E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.6E-12	6.1E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.6E-12
464	8.1E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.1E-12
465	9.8E+00	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12	6.1E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.6E-12
466	1.2E+01	1.2E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	7.4E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11
467	1.5E+01	1.2E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	9.0E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
468	8.3E+00	1.2E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
469	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.4E-12
470	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
471	1.7E+01	1.2E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	9.0E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
472	1.0E+01	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12
473	1.4E+01	1.2E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	7.0E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
474	1.9E+01	1.2E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
475	9.7E+00	1.2E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
476	1.3E+01	1.2E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	6.5E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
477	1.8E+01	1.2E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	8.1E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
1	2.9E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.7E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
2	3.1E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.9E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.2E-12
3	3.3E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.9E-12
4	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	2.1E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
5	3.8E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.5E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
6	4.1E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11
7	4.4E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.1E-12	2.6E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
8	4.7E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.3E-12	2.8E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11
9	5.0E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.7E-12	3.0E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
10	5.3E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	4.9E-12	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11
11	5.7E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
12	6.0E+00	1.3E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.5E-12	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
13	6.2E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
14	6.3E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
15	5.0E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12	5.0E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
16	4.6E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12	5.0E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
17	3.0E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12
18	3.3E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.1E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
19	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	2.0E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
20	3.9E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.6E-12	2.1E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
21	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
22	4.6E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.3E-12	2.5E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
23	7.5E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
24	7.7E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12	4.8E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
25	6.3E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	5.8E+00	7.5E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
26	5.8E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12	5.9E+00	7.5E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11
27	5.4E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	4.9E-12	5.9E+00	7.5E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11
28	3.1E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
29	3.9E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	2.0E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
30	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
31	4.7E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.3E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11
32	5.2E+00	1.3E-07	1.0E-03	7.3E-10	1.6E-01	4.2E-02	4.8E-12	2.6E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
33	5.7E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	2.9E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
34	6.2E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11
35	6.9E+00	1.3E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.3E-12	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
36	7.5E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
37	8.9E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
38	9.4E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12	5.2E+00	7.5E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
39	9.8E+00	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12	5.6E+00	7.5E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
40	7.7E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.1E-12	7.0E+00	7.5E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11
41	7.0E+00	1.3E-07	1.0E-03	9.8E-10	1.6E-01	4.2E-02	6.5E-12	7.1E+00	7.5E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11
42	6.3E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	7.1E+00	7.5E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11
43	3.2E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
44	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
45	4.1E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.7E-12	2.0E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
46	5.1E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
47	5.8E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	2.7E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
48	6.4E+00	1.3E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	5.9E-12	3.0E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.6E-11
49	7.2E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.6E-12	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
50	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12	3.8E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	2.0E-11
51	9.0E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
52	1.1E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	5.4E+00	7.5E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
53	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	6.0E+00	7.5E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
54	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	6.7E+00	7.5E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.4E-11
55	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	7.3E+00	7.5E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11
56	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	7.8E+00	7.5E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.0E-11
57	9.6E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12	8.7E+00	7.5E-07	1.0E-03	6.7E-09	1.6E-01	4.2E-02	4.5E-11
58	8.5E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12	8.7E+00	7.5E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11
59	7.5E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12	8.7E+00	7.5E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11
60	3.2E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12
61	3.7E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
62	4.2E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	2.0E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
63	4.8E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
64	5.4E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	4.2E-02	5.0E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
65	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.6E-12	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
66	9.5E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
67	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
68	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	6.1E+00	7.5E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
69	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	7.1E+00	7.5E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.6E-11
70	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	8.1E+00	7.5E-07	1.0E-03	6.3E-09	1.6E-01	4.2E-02	4.2E-11
71	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	9.0E+00	7.5E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.7E-11
72	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	9.9E+00	7.5E-07	1.0E-03	7.7E-09	1.6E-01	4.2E-02	5.1E-11
73	3.2E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	1.6E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.1E-12
74	3.6E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12
75	4.2E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12
76	4.8E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.5E-12	2.1E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
77	5.7E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11
78	6.6E+00	1.3E-07	1.0E-03	9.2E-10	1.6E-01	4.2E-02	6.1E-12	2.7E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
79	7.8E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12	3.1E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
80	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.8E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
81	1.9E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11	7.0E+00	7.5E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11
82	2.3E+01	1.3E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11	8.4E+00	7.5E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11
83	2.6E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11	1.0E+01	7.5E-07	1.0E-03	7.8E-09	1.6E-01	4.2E-02	5.2E-11
84	2.7E+01	1.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11	1.2E+01	7.5E-07	1.0E-03	9.2E-09	1.6E-01	4.2E-02	6.1E-11
85	2.6E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11	1.3E+01	7.5E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.8E-11
86	3.1E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.8E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.8E-12
87	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.3E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12
88	4.1E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12	1.9E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.6E-12
89	4.8E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	4.2E-02	4.4E-12	2.1E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
90	5.7E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
91	6.8E+00	1.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.3E-12	2.6E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
92	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12	3.0E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
93	9.9E+00	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.2E-12	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
94	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
95	4.8E+01	1.3E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.7E-11
96	4.6E+01	1.3E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.2E-11	2.0E+01	7.5E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
97	3.0E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.7E-12
98	3.5E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12
99	4.0E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.7E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
100	6.7E+00	1.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12	2.5E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
101	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.6E-12	2.9E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
102	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
103	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
104	2.9E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	1.5E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
105	3.3E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	1.6E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12
106	3.8E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	1.7E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12
107	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11
108	1.3E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
109	2.8E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	4.2E-02	2.6E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12
110	3.2E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	4.2E-02	3.0E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
111	3.7E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12
112	9.5E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12	3.0E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
113	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
114	2.7E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	4.2E-02	2.5E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
115	3.0E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	4.2E-02	2.8E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.6E-12
116	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12
117	4.0E+00	1.3E-07	1.0E-03	5.6E-10	1.6E-01	4.2E-02	3.7E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.3E-12
118	8.7E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.1E-12	2.9E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11
119	1.1E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
120	2.6E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
121	2.9E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.7E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
122	3.3E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.1E-12	1.6E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.1E-12
123	3.8E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12
124	7.9E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12	2.7E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
125	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.4E-12	3.1E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
126	2.4E+00	1.3E-07	1.0E-03	3.4E-10	1.6E-01	4.2E-02	2.3E-12	1.3E+00	7.5E-07	1.0E-03	9.9E-10	1.6E-01	4.2E-02	6.6E-12
127	2.7E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.1E-12
128	3.1E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.8E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
129	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
130	4.2E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.4E-12
131	4.9E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
132	5.8E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	4.2E-02	5.4E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
133	7.2E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.6E-12	2.6E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
134	9.0E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12	2.9E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
135	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
136	2.3E+00	1.3E-07	1.0E-03	3.3E-10	1.6E-01	4.2E-02	2.2E-12	1.2E+00	7.5E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.4E-12
137	2.6E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	4.2E-02	2.4E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12
138	3.0E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	1.5E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
139	3.4E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	1.6E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12
140	3.9E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12
141	4.5E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
142	5.4E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	5.0E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
143	6.4E+00	1.3E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	5.9E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
144	7.9E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12	2.7E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
145	9.8E+00	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12	3.1E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
146	2.2E+00	1.3E-07	1.0E-03	3.1E-10	1.6E-01	4.2E-02	2.1E-12	1.2E+00	7.5E-07	1.0E-03	9.3E-10	1.6E-01	4.2E-02	6.2E-12
147	2.5E+00	1.3E-07	1.0E-03	3.5E-10	1.6E-01	4.2E-02	2.3E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
148	2.8E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	4.2E-02	2.6E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12
149	3.2E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
150	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.7E-12
151	4.2E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.8E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.5E-12
152	4.8E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
153	5.7E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
154	6.8E+00	1.3E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12	2.6E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
155	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12	2.9E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11
156	2.1E+00	1.3E-07	1.0E-03	3.0E-10	1.6E-01	4.2E-02	2.0E-12	1.2E+00	7.5E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	6.0E-12
157	2.4E+00	1.3E-07	1.0E-03	3.3E-10	1.6E-01	4.2E-02	2.2E-12	1.3E+00	7.5E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.5E-12
158	2.6E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	4.2E-02	2.4E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12
159	2.9E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	1.5E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.6E-12
160	3.3E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
161	3.8E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	4.2E-02	3.5E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
162	4.4E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.0E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
163	5.0E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.6E-12	2.1E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
164	5.8E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12	2.4E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
165	6.9E+00	1.3E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.3E-12	2.7E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
166	2.0E+00	1.3E-07	1.0E-03	2.8E-10	1.6E-01	4.2E-02	1.9E-12	1.1E+00	7.5E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.8E-12
167	2.2E+00	1.3E-07	1.0E-03	3.1E-10	1.6E-01	4.2E-02	2.0E-12	1.2E+00	7.5E-07	1.0E-03	9.4E-10	1.6E-01	4.2E-02	6.2E-12
168	2.5E+00	1.3E-07	1.0E-03	3.4E-10	1.6E-01	4.2E-02	2.3E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.7E-12
169	2.7E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12
170	3.1E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.8E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
171	3.5E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.6E-12
172	3.9E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.6E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.4E-12
173	4.4E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	4.2E-02	4.1E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
174	5.1E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
175	5.8E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
176	1.9E+00	1.3E-07	1.0E-03	2.7E-10	1.6E-01	4.2E-02	1.8E-12	1.1E+00	7.5E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.6E-12
177	2.1E+00	1.3E-07	1.0E-03	2.9E-10	1.6E-01	4.2E-02	1.9E-12	1.2E+00	7.5E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12
178	2.3E+00	1.3E-07	1.0E-03	3.2E-10	1.6E-01	4.2E-02	2.1E-12	1.2E+00	7.5E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12
179	2.5E+00	1.3E-07	1.0E-03	3.5E-10	1.6E-01	4.2E-02	2.3E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	7.0E-12
180	2.8E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	4.2E-02	2.6E-12	1.5E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.5E-12
181	3.1E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.6E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.2E-12
182	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	1.7E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.9E-12
183	3.9E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	4.2E-02	3.6E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.6E-12
184	4.4E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	4.2E-02	4.1E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
185	4.9E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	4.2E-02	4.6E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
186	5.0E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.7E-12	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
187	4.5E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	5.0E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
188	4.1E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.8E-12	5.2E+00	7.5E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11
189	1.8E+00	1.3E-07	1.0E-03	2.5E-10	1.6E-01	4.2E-02	1.7E-12	1.0E+00	7.5E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.4E-12
190	2.0E+00	1.3E-07	1.0E-03	2.7E-10	1.6E-01	4.2E-02	1.8E-12	1.1E+00	7.5E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.8E-12
191	2.1E+00	1.3E-07	1.0E-03	3.0E-10	1.6E-01	4.2E-02	2.0E-12	1.2E+00	7.5E-07	1.0E-03	9.3E-10	1.6E-01	4.2E-02	6.2E-12
192	2.4E+00	1.3E-07	1.0E-03	3.3E-10	1.6E-01	4.2E-02	2.2E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.6E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
193	2.6E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12
194	2.9E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.6E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.7E-12
195	3.2E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.3E-12
196	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.0E-12
197	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	2.1E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
198	5.1E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	4.2E-02	4.7E-12	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
199	4.8E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	4.2E-02	4.5E-12	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
200	4.6E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	4.2E-02	4.2E-12	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
201	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
202	3.9E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
203	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
204	1.7E+00	1.3E-07	1.0E-03	2.4E-10	1.6E-01	4.2E-02	1.6E-12	1.0E+00	7.5E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.2E-12
205	1.8E+00	1.3E-07	1.0E-03	2.6E-10	1.6E-01	4.2E-02	1.7E-12	1.1E+00	7.5E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.5E-12
206	2.0E+00	1.3E-07	1.0E-03	2.8E-10	1.6E-01	4.2E-02	1.8E-12	1.1E+00	7.5E-07	1.0E-03	8.9E-10	1.6E-01	4.2E-02	5.9E-12
207	2.2E+00	1.3E-07	1.0E-03	3.0E-10	1.6E-01	4.2E-02	2.0E-12	1.2E+00	7.5E-07	1.0E-03	9.6E-10	1.6E-01	4.2E-02	6.3E-12
208	2.4E+00	1.3E-07	1.0E-03	3.3E-10	1.6E-01	4.2E-02	2.2E-12	1.3E+00	7.5E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12
209	2.6E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12
210	2.8E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.6E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	7.9E-12
211	3.4E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
212	3.6E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	4.2E-02	3.3E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12
213	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	2.6E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
214	4.2E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	4.2E-02	3.9E-12	2.8E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11
215	4.2E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	4.2E-02	3.9E-12	3.0E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
216	4.1E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	4.2E-02	3.7E-12	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11
217	3.9E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	4.2E-02	3.6E-12	3.3E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
218	3.6E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	4.2E-02	3.4E-12	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
219	3.4E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	4.2E-02	3.1E-12	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
220	3.1E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	4.2E-02	2.8E-12	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
221	1.6E+00	1.3E-07	1.0E-03	2.2E-10	1.6E-01	4.2E-02	1.5E-12	9.7E-01	7.5E-07	1.0E-03	7.5E-10	1.6E-01	4.2E-02	5.0E-12
222	1.7E+00	1.3E-07	1.0E-03	2.4E-10	1.6E-01	4.2E-02	1.6E-12	1.0E+00	7.5E-07	1.0E-03	8.0E-10	1.6E-01	4.2E-02	5.3E-12
223	1.9E+00	1.3E-07	1.0E-03	2.6E-10	1.6E-01	4.2E-02	1.7E-12	1.1E+00	7.5E-07	1.0E-03	8.6E-10	1.6E-01	4.2E-02	5.7E-12
224	2.0E+00	1.3E-07	1.0E-03	2.8E-10	1.6E-01	4.2E-02	1.9E-12	1.2E+00	7.5E-07	1.0E-03	9.1E-10	1.6E-01	4.2E-02	6.0E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
225	2.2E+00	1.3E-07	1.0E-03	3.1E-10	1.6E-01	4.2E-02	2.0E-12	1.3E+00	7.5E-07	1.0E-03	9.8E-10	1.6E-01	4.2E-02	6.5E-12
226	2.6E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	4.2E-02	2.4E-12	1.4E+00	7.5E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.4E-12
227	2.8E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	4.2E-02	2.6E-12	1.5E+00	7.5E-07	1.0E-03	1.2E-09	1.6E-01	4.2E-02	8.0E-12
228	3.0E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	4.2E-02	2.7E-12	1.6E+00	7.5E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.5E-12
229	3.2E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	1.8E+00	7.5E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12
230	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
231	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	2.5E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
232	3.5E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	4.2E-02	3.2E-12	2.6E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11
233	3.4E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	4.2E-02	3.2E-12	2.8E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11
234	3.3E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	4.2E-02	3.0E-12	2.9E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11
235	3.1E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	4.2E-02	2.9E-12	3.0E+00	7.5E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.6E-11
236	2.9E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	4.2E-02	2.7E-12	3.1E+00	7.5E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11
237	2.7E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	4.2E-02	2.5E-12	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11
238	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	6.1E+00	7.5E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
239	1.9E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	6.4E+00	7.5E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
240	1.9E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11	6.6E+00	7.5E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.4E-11
241	2.0E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11	6.9E+00	7.5E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.5E-11
242	2.1E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	2.0E-11	7.2E+00	7.5E-07	1.0E-03	5.6E-09	1.6E-01	4.2E-02	3.7E-11
243	2.2E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11	7.5E+00	7.5E-07	1.0E-03	5.8E-09	1.6E-01	4.2E-02	3.8E-11
244	1.9E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	6.2E+00	7.5E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11
245	2.0E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11	6.4E+00	7.5E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
246	2.0E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11	6.7E+00	7.5E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.5E-11
247	2.1E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11	7.0E+00	7.5E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11
248	2.2E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11	7.3E+00	7.5E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11
249	2.3E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11	7.6E+00	7.5E-07	1.0E-03	5.9E-09	1.6E-01	4.2E-02	3.9E-11
250	2.4E+01	1.3E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11	8.0E+00	7.5E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11
251	2.5E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	8.3E+00	7.5E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11
252	2.0E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11	6.5E+00	7.5E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
253	2.1E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11	6.8E+00	7.5E-07	1.0E-03	5.3E-09	1.6E-01	4.2E-02	3.5E-11
254	2.3E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11	7.1E+00	7.5E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11
255	2.4E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11	7.4E+00	7.5E-07	1.0E-03	5.8E-09	1.6E-01	4.2E-02	3.8E-11
256	2.5E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	7.8E+00	7.5E-07	1.0E-03	6.0E-09	1.6E-01	4.2E-02	4.0E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
257	2.6E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11	8.1E+00	7.5E-07	1.0E-03	6.3E-09	1.6E-01	4.2E-02	4.2E-11
258	2.7E+01	1.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11	8.5E+00	7.5E-07	1.0E-03	6.6E-09	1.6E-01	4.2E-02	4.4E-11
259	2.8E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11	8.9E+00	7.5E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.6E-11
260	3.0E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11	9.4E+00	7.5E-07	1.0E-03	7.3E-09	1.6E-01	4.2E-02	4.8E-11
261	2.4E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11	7.1E+00	7.5E-07	1.0E-03	5.6E-09	1.6E-01	4.2E-02	3.7E-11
262	2.5E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11	7.5E+00	7.5E-07	1.0E-03	5.8E-09	1.6E-01	4.2E-02	3.9E-11
263	2.6E+01	1.3E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11	7.9E+00	7.5E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.1E-11
264	2.7E+01	1.3E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11	8.3E+00	7.5E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.3E-11
265	2.9E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.7E-11	8.7E+00	7.5E-07	1.0E-03	6.8E-09	1.6E-01	4.2E-02	4.5E-11
266	3.1E+01	1.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.8E-11	9.2E+00	7.5E-07	1.0E-03	7.1E-09	1.6E-01	4.2E-02	4.7E-11
267	3.2E+01	1.3E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11	9.7E+00	7.5E-07	1.0E-03	7.5E-09	1.6E-01	4.2E-02	5.0E-11
268	3.4E+01	1.3E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11	1.0E+01	7.5E-07	1.0E-03	7.9E-09	1.6E-01	4.2E-02	5.2E-11
269	3.5E+01	1.3E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11	1.1E+01	7.5E-07	1.0E-03	8.3E-09	1.6E-01	4.2E-02	5.5E-11
270	3.7E+01	1.3E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.4E-11	1.1E+01	7.5E-07	1.0E-03	8.8E-09	1.6E-01	4.2E-02	5.8E-11
271	2.8E+01	1.3E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11	8.0E+00	7.5E-07	1.0E-03	6.2E-09	1.6E-01	4.2E-02	4.1E-11
272	2.9E+01	1.3E-07	1.0E-03	4.1E-09	1.6E-01	4.2E-02	2.7E-11	8.4E+00	7.5E-07	1.0E-03	6.5E-09	1.6E-01	4.2E-02	4.3E-11
273	3.1E+01	1.3E-07	1.0E-03	4.3E-09	1.6E-01	4.2E-02	2.9E-11	8.8E+00	7.5E-07	1.0E-03	6.9E-09	1.6E-01	4.2E-02	4.6E-11
274	3.3E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11	9.4E+00	7.5E-07	1.0E-03	7.3E-09	1.6E-01	4.2E-02	4.8E-11
275	3.5E+01	1.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.2E-11	9.9E+00	7.5E-07	1.0E-03	7.7E-09	1.6E-01	4.2E-02	5.1E-11
276	3.7E+01	1.3E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.4E-11	1.0E+01	7.5E-07	1.0E-03	8.2E-09	1.6E-01	4.2E-02	5.4E-11
277	3.9E+01	1.3E-07	1.0E-03	5.4E-09	1.6E-01	4.2E-02	3.6E-11	1.1E+01	7.5E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
278	4.1E+01	1.3E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11	1.2E+01	7.5E-07	1.0E-03	9.2E-09	1.6E-01	4.2E-02	6.1E-11
279	4.3E+01	1.3E-07	1.0E-03	6.0E-09	1.6E-01	4.2E-02	4.0E-11	1.2E+01	7.5E-07	1.0E-03	9.7E-09	1.6E-01	4.2E-02	6.4E-11
280	4.5E+01	1.3E-07	1.0E-03	6.3E-09	1.6E-01	4.2E-02	4.2E-11	1.3E+01	7.5E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.9E-11
281	4.8E+01	1.3E-07	1.0E-03	6.7E-09	1.6E-01	4.2E-02	4.4E-11	1.4E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.3E-11
282	3.3E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	4.2E-02	3.0E-11	9.0E+00	7.5E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.6E-11
283	3.5E+01	1.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.2E-11	9.5E+00	7.5E-07	1.0E-03	7.4E-09	1.6E-01	4.2E-02	4.9E-11
284	3.7E+01	1.3E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.4E-11	1.0E+01	7.5E-07	1.0E-03	7.9E-09	1.6E-01	4.2E-02	5.2E-11
285	4.0E+01	1.3E-07	1.0E-03	5.5E-09	1.6E-01	4.2E-02	3.7E-11	1.1E+01	7.5E-07	1.0E-03	8.4E-09	1.6E-01	4.2E-02	5.5E-11
286	4.2E+01	1.3E-07	1.0E-03	5.9E-09	1.6E-01	4.2E-02	3.9E-11	1.1E+01	7.5E-07	1.0E-03	8.9E-09	1.6E-01	4.2E-02	5.9E-11
287	4.5E+01	1.3E-07	1.0E-03	6.3E-09	1.6E-01	4.2E-02	4.1E-11	1.2E+01	7.5E-07	1.0E-03	9.5E-09	1.6E-01	4.2E-02	6.3E-11
288	4.8E+01	1.3E-07	1.0E-03	6.6E-09	1.6E-01	4.2E-02	4.4E-11	1.3E+01	7.5E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
289	5.1E+01	1.3E-07	1.0E-03	7.1E-09	1.6E-01	4.2E-02	4.7E-11	1.4E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.2E-11
290	5.4E+01	1.3E-07	1.0E-03	7.5E-09	1.6E-01	4.2E-02	5.0E-11	1.5E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.7E-11
291	5.7E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	4.2E-02	5.2E-11	1.6E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.3E-11
292	5.9E+01	1.3E-07	1.0E-03	8.3E-09	1.6E-01	4.2E-02	5.5E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.9E-11
293	4.3E+01	1.3E-07	1.0E-03	6.0E-09	1.6E-01	4.2E-02	4.0E-11	1.1E+01	7.5E-07	1.0E-03	8.6E-09	1.6E-01	4.2E-02	5.7E-11
294	4.6E+01	1.3E-07	1.0E-03	6.4E-09	1.6E-01	4.2E-02	4.3E-11	1.2E+01	7.5E-07	1.0E-03	9.2E-09	1.6E-01	4.2E-02	6.1E-11
295	4.9E+01	1.3E-07	1.0E-03	6.9E-09	1.6E-01	4.2E-02	4.6E-11	1.3E+01	7.5E-07	1.0E-03	9.8E-09	1.6E-01	4.2E-02	6.5E-11
296	5.3E+01	1.3E-07	1.0E-03	7.4E-09	1.6E-01	4.2E-02	4.9E-11	1.4E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.0E-11
297	5.7E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	4.2E-02	5.2E-11	1.5E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.5E-11
298	6.1E+01	1.3E-07	1.0E-03	8.5E-09	1.6E-01	4.2E-02	5.6E-11	1.6E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.1E-11
299	6.5E+01	1.3E-07	1.0E-03	9.0E-09	1.6E-01	4.2E-02	6.0E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.8E-11
300	6.9E+01	1.3E-07	1.0E-03	9.6E-09	1.6E-01	4.2E-02	6.4E-11	1.8E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.5E-11
301	7.3E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.7E-11	2.0E+01	7.5E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10
302	7.6E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.1E-11	2.2E+01	7.5E-07	1.0E-03	1.7E-08	1.6E-01	4.2E-02	1.1E-10
303	7.9E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.3E-11	2.3E+01	7.5E-07	1.0E-03	1.8E-08	1.6E-01	4.2E-02	1.2E-10
304	5.4E+01	1.3E-07	1.0E-03	7.6E-09	1.6E-01	4.2E-02	5.0E-11	1.3E+01	7.5E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.7E-11
305	5.8E+01	1.3E-07	1.0E-03	8.2E-09	1.6E-01	4.2E-02	5.4E-11	1.4E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.2E-11
306	6.3E+01	1.3E-07	1.0E-03	8.9E-09	1.6E-01	4.2E-02	5.9E-11	1.5E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.9E-11
307	6.9E+01	1.3E-07	1.0E-03	9.6E-09	1.6E-01	4.2E-02	6.4E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.6E-11
308	7.4E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	4.2E-02	6.9E-11	1.8E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.4E-11
309	8.0E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.4E-11	2.0E+01	7.5E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10
310	8.7E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.0E-11	2.2E+01	7.5E-07	1.0E-03	1.7E-08	1.6E-01	4.2E-02	1.1E-10
311	9.2E+01	1.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.5E-11	2.4E+01	7.5E-07	1.0E-03	1.9E-08	1.6E-01	4.2E-02	1.2E-10
312	9.7E+01	1.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.0E-11	2.6E+01	7.5E-07	1.0E-03	2.1E-08	1.6E-01	4.2E-02	1.4E-10
313	1.0E+02	1.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.3E-11	2.9E+01	7.5E-07	1.0E-03	2.2E-08	1.6E-01	4.2E-02	1.5E-10
314	1.0E+02	1.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.3E-11	3.1E+01	7.5E-07	1.0E-03	2.4E-08	1.6E-01	4.2E-02	1.6E-10
315	9.7E+01	1.3E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.0E-11	3.3E+01	7.5E-07	1.0E-03	2.6E-08	1.6E-01	4.2E-02	1.7E-10
316	7.8E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.2E-11	1.7E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.0E-11
317	8.6E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.9E-11	1.9E+01	7.5E-07	1.0E-03	1.5E-08	1.6E-01	4.2E-02	9.9E-11
318	9.5E+01	1.3E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.7E-11	2.1E+01	7.5E-07	1.0E-03	1.7E-08	1.6E-01	4.2E-02	1.1E-10
319	1.0E+02	1.3E-07	1.0E-03	1.5E-08	1.6E-01	4.2E-02	9.6E-11	2.4E+01	7.5E-07	1.0E-03	1.9E-08	1.6E-01	4.2E-02	1.2E-10
320	1.1E+02	1.3E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10	2.7E+01	7.5E-07	1.0E-03	2.1E-08	1.6E-01	4.2E-02	1.4E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
321	3.7E+01	1.3E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.4E-11	3.0E+01	7.5E-07	1.0E-03	2.3E-08	1.6E-01	4.2E-02	1.6E-10
322	3.6E+01	1.3E-07	1.0E-03	5.1E-09	1.6E-01	4.2E-02	3.4E-11	1.6E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.2E-11
323	3.5E+01	1.3E-07	1.0E-03	4.9E-09	1.6E-01	4.2E-02	3.3E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.8E-11
324	3.4E+01	1.3E-07	1.0E-03	4.8E-09	1.6E-01	4.2E-02	3.2E-11	1.9E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.6E-11
325	1.1E+02	1.3E-07	1.0E-03	1.6E-08	1.6E-01	4.2E-02	1.0E-10	2.3E+01	7.5E-07	1.0E-03	1.8E-08	1.6E-01	4.2E-02	1.2E-10
326	4.4E+01	1.3E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.1E-11	2.6E+01	7.5E-07	1.0E-03	2.0E-08	1.6E-01	4.2E-02	1.3E-10
327	4.4E+01	1.3E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.1E-11	3.0E+01	7.5E-07	1.0E-03	2.3E-08	1.6E-01	4.2E-02	1.5E-10
328	4.3E+01	1.3E-07	1.0E-03	6.1E-09	1.6E-01	4.2E-02	4.0E-11	1.5E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	7.9E-11
329	4.2E+01	1.3E-07	1.0E-03	5.9E-09	1.6E-01	4.2E-02	3.9E-11	1.7E+01	7.5E-07	1.0E-03	1.3E-08	1.6E-01	4.2E-02	8.6E-11
330	4.1E+01	1.3E-07	1.0E-03	5.7E-09	1.6E-01	4.2E-02	3.8E-11	1.8E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.4E-11
331	5.2E+01	1.3E-07	1.0E-03	7.3E-09	1.6E-01	4.2E-02	4.8E-11	1.5E+01	7.5E-07	1.0E-03	1.1E-08	1.6E-01	4.2E-02	7.5E-11
332	5.2E+01	1.3E-07	1.0E-03	7.2E-09	1.6E-01	4.2E-02	4.8E-11	1.6E+01	7.5E-07	1.0E-03	1.2E-08	1.6E-01	4.2E-02	8.2E-11
333	5.0E+01	1.3E-07	1.0E-03	7.0E-09	1.6E-01	4.2E-02	4.6E-11	1.8E+01	7.5E-07	1.0E-03	1.4E-08	1.6E-01	4.2E-02	9.1E-11
334	4.8E+01	1.3E-07	1.0E-03	6.7E-09	1.6E-01	4.2E-02	4.5E-11	1.9E+01	7.5E-07	1.0E-03	1.5E-08	1.6E-01	4.2E-02	1.0E-10
335	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
336	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
337	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.8E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
338	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.9E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
339	1.3E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
340	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
341	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.8E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
342	1.5E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	4.9E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
343	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
344	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
345	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.8E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
346	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	5.0E+00	7.5E-07	1.0E-03	3.9E-09	1.6E-01	4.2E-02	2.6E-11
347	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
348	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
349	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
350	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.9E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
351	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
352	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
353	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
354	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.9E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
355	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
356	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
357	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
358	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.9E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
359	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
360	1.5E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
361	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.7E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
362	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.8E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
363	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.3E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
364	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
365	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
366	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11	4.8E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
367	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
368	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
369	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.6E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
370	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11	4.8E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
371	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
372	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
373	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
374	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.7E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.4E-11
375	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.2E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
376	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
377	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
378	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.7E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
379	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
380	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.3E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
381	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
382	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
383	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
384	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
385	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
386	1.8E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
387	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
388	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.2E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
389	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
390	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.5E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
391	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
392	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
393	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.3E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
394	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
395	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
396	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
397	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
398	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11	4.4E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.3E-11
399	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
400	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
401	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
402	1.8E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.6E-11	4.3E+00	7.5E-07	1.0E-03	3.4E-09	1.6E-01	4.2E-02	2.2E-11
403	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
404	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
405	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
406	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
407	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
408	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
409	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
410	1.7E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	4.2E-02	1.6E-11	4.2E+00	7.5E-07	1.0E-03	3.3E-09	1.6E-01	4.2E-02	2.2E-11
411	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
412	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
413	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
414	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
415	1.3E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
416	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
417	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
418	1.6E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	4.2E-02	1.5E-11	4.1E+00	7.5E-07	1.0E-03	3.2E-09	1.6E-01	4.2E-02	2.1E-11
419	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
420	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
421	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
422	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.5E-11	4.0E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.1E-11
423	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.5E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
424	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
425	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
426	1.5E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.1E-09	1.6E-01	4.2E-02	2.0E-11
427	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
428	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
429	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
430	1.5E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11	3.9E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
431	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.4E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
432	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
433	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
434	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.8E+00	7.5E-07	1.0E-03	3.0E-09	1.6E-01	4.2E-02	2.0E-11
435	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.8E-11
436	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
437	1.3E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
438	1.4E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
439	1.1E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.3E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
440	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
441	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
442	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11	3.7E+00	7.5E-07	1.0E-03	2.9E-09	1.6E-01	4.2E-02	1.9E-11
443	1.1E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11	3.3E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11
444	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.4E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.8E-11
445	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.2E-11	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
446	1.3E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.9E-11
447	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11	3.2E+00	7.5E-07	1.0E-03	2.5E-09	1.6E-01	4.2E-02	1.7E-11
448	1.1E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11	3.3E+00	7.5E-07	1.0E-03	2.6E-09	1.6E-01	4.2E-02	1.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	1.2E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11	3.5E+00	7.5E-07	1.0E-03	2.7E-09	1.6E-01	4.2E-02	1.8E-11
450	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11	3.6E+00	7.5E-07	1.0E-03	2.8E-09	1.6E-01	4.2E-02	1.8E-11
451	6.3E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	4.2E-02	5.8E-12	4.4E+00	7.5E-07	1.0E-03	3.5E-09	1.6E-01	4.2E-02	2.3E-11
452	6.2E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	4.2E-02	5.7E-12	4.6E+00	7.5E-07	1.0E-03	3.6E-09	1.6E-01	4.2E-02	2.4E-11
453	6.0E+00	1.3E-07	1.0E-03	8.4E-10	1.6E-01	4.2E-02	5.6E-12	4.8E+00	7.5E-07	1.0E-03	3.7E-09	1.6E-01	4.2E-02	2.5E-11
454	5.8E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	4.2E-02	5.3E-12	4.9E+00	7.5E-07	1.0E-03	3.8E-09	1.6E-01	4.2E-02	2.5E-11
455	7.8E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.2E-12	5.1E+00	7.5E-07	1.0E-03	4.0E-09	1.6E-01	4.2E-02	2.6E-11
456	7.6E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.0E-12	5.4E+00	7.5E-07	1.0E-03	4.2E-09	1.6E-01	4.2E-02	2.8E-11
457	7.3E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.8E-12	5.6E+00	7.5E-07	1.0E-03	4.4E-09	1.6E-01	4.2E-02	2.9E-11
458	6.9E+00	1.3E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12	5.8E+00	7.5E-07	1.0E-03	4.5E-09	1.6E-01	4.2E-02	3.0E-11
459	9.8E+00	1.3E-07	1.0E-03	1.4E-09	1.6E-01	4.2E-02	9.1E-12	6.0E+00	7.5E-07	1.0E-03	4.7E-09	1.6E-01	4.2E-02	3.1E-11
460	9.6E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.8E-12	6.4E+00	7.5E-07	1.0E-03	5.0E-09	1.6E-01	4.2E-02	3.3E-11
461	9.1E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	4.2E-02	8.4E-12	6.7E+00	7.5E-07	1.0E-03	5.2E-09	1.6E-01	4.2E-02	3.5E-11
462	4.7E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.3E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
463	5.6E+00	1.3E-07	1.0E-03	7.8E-10	1.6E-01	4.2E-02	5.1E-12	2.2E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
464	4.5E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	4.2E-02	4.2E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	1.0E-11
465	5.3E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
466	6.4E+00	1.3E-07	1.0E-03	9.0E-10	1.6E-01	4.2E-02	5.9E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.3E-11
467	7.9E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	4.2E-02	7.3E-12	2.8E+00	7.5E-07	1.0E-03	2.2E-09	1.6E-01	4.2E-02	1.4E-11
468	4.3E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	4.2E-02	4.0E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.6E-12
469	5.0E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	4.2E-02	4.7E-12	2.1E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.1E-11
470	6.1E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	4.2E-02	5.6E-12	2.3E+00	7.5E-07	1.0E-03	1.8E-09	1.6E-01	4.2E-02	1.2E-11
471	7.5E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	4.2E-02	6.9E-12	2.6E+00	7.5E-07	1.0E-03	2.1E-09	1.6E-01	4.2E-02	1.4E-11
472	4.8E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	4.2E-02	4.4E-12	2.0E+00	7.5E-07	1.0E-03	1.6E-09	1.6E-01	4.2E-02	1.0E-11
473	5.7E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	4.2E-02	5.2E-12	2.2E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
474	6.9E+00	1.3E-07	1.0E-03	9.7E-10	1.6E-01	4.2E-02	6.4E-12	2.5E+00	7.5E-07	1.0E-03	2.0E-09	1.6E-01	4.2E-02	1.3E-11
475	4.4E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	4.2E-02	4.1E-12	1.9E+00	7.5E-07	1.0E-03	1.5E-09	1.6E-01	4.2E-02	9.8E-12
476	5.3E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	4.2E-02	4.9E-12	2.1E+00	7.5E-07	1.0E-03	1.7E-09	1.6E-01	4.2E-02	1.1E-11
477	6.4E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	4.2E-02	5.9E-12	2.4E+00	7.5E-07	1.0E-03	1.9E-09	1.6E-01	4.2E-02	1.2E-11

5. Risk by Construction Phase

b. Risk From Site Prep - Mitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	7.3E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
2	3.0E-01	7.3E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	2.9E-09	4.4E-05	2.2E-04
3	3.1E-01	7.3E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.0E-09	4.6E-05	2.3E-04
4	3.2E-01	7.3E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.1E-09	4.7E-05	2.3E-04
5	3.3E-01	7.3E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.2E-09	4.8E-05	2.4E-04
6	3.4E-01	7.3E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.3E-09	5.0E-05	2.5E-04
7	3.5E-01	7.3E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.4E-09	5.1E-05	2.6E-04
8	3.6E-01	7.3E-04	1.0E-03	2.7E-07	1.6E-01	8.2E-02	3.5E-09	5.3E-05	2.6E-04
9	3.7E-01	7.3E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.6E-09	5.5E-05	2.7E-04
10	3.8E-01	7.3E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.8E-09	5.7E-05	2.8E-04
11	4.0E-01	7.3E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.9E-09	5.9E-05	3.0E-04
12	4.1E-01	7.3E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	4.1E-09	6.1E-05	3.1E-04
13	4.3E-01	7.3E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.2E-09	6.3E-05	3.1E-04
14	4.3E-01	7.3E-04	1.0E-03	3.3E-07	1.6E-01	8.2E-02	4.3E-09	6.4E-05	3.2E-04
15	4.3E-01	7.3E-04	1.0E-03	3.3E-07	1.6E-01	8.2E-02	4.2E-09	6.4E-05	3.2E-04
16	4.2E-01	7.3E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.1E-09	6.2E-05	3.1E-04
17	3.2E-01	7.3E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.1E-09	4.7E-05	2.3E-04
18	3.4E-01	7.3E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.3E-09	5.0E-05	2.5E-04
19	3.6E-01	7.3E-04	1.0E-03	2.7E-07	1.6E-01	8.2E-02	3.5E-09	5.2E-05	2.6E-04
20	3.7E-01	7.3E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.6E-09	5.5E-05	2.7E-04
21	3.9E-01	7.3E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.8E-09	5.7E-05	2.8E-04
22	4.0E-01	7.3E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.9E-09	5.9E-05	2.9E-04
23	5.2E-01	7.3E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.1E-09	7.7E-05	3.8E-04
24	5.3E-01	7.3E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.2E-09	7.9E-05	3.9E-04
25	5.3E-01	7.3E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.2E-09	7.8E-05	3.9E-04
26	5.2E-01	7.3E-04	1.0E-03	3.9E-07	1.6E-01	8.2E-02	5.1E-09	7.6E-05	3.8E-04
27	5.0E-01	7.3E-04	1.0E-03	3.8E-07	1.6E-01	8.2E-02	4.9E-09	7.3E-05	3.7E-04
28	3.5E-01	7.3E-04	1.0E-03	2.7E-07	1.6E-01	8.2E-02	3.4E-09	5.2E-05	2.6E-04
29	4.1E-01	7.3E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	4.0E-09	6.0E-05	3.0E-04
30	4.3E-01	7.3E-04	1.0E-03	3.3E-07	1.6E-01	8.2E-02	4.3E-09	6.4E-05	3.2E-04
31	4.6E-01	7.3E-04	1.0E-03	3.5E-07	1.6E-01	8.2E-02	4.5E-09	6.8E-05	3.4E-04
32	4.8E-01	7.3E-04	1.0E-03	3.7E-07	1.6E-01	8.2E-02	4.8E-09	7.1E-05	3.6E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	7.3E-04	1.0E-03	3.8E-07	1.6E-01	8.2E-02	4.9E-09	7.4E-05	3.7E-04
34	5.2E-01	7.3E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.1E-09	7.7E-05	3.8E-04
35	5.5E-01	7.3E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.4E-09	8.0E-05	4.0E-04
36	5.7E-01	7.3E-04	1.0E-03	4.3E-07	1.6E-01	8.2E-02	5.6E-09	8.4E-05	4.2E-04
37	6.3E-01	7.3E-04	1.0E-03	4.8E-07	1.6E-01	8.2E-02	6.2E-09	9.4E-05	4.7E-04
38	6.6E-01	7.3E-04	1.0E-03	5.0E-07	1.6E-01	8.2E-02	6.4E-09	9.7E-05	4.8E-04
39	6.7E-01	7.3E-04	1.0E-03	5.1E-07	1.6E-01	8.2E-02	6.6E-09	9.9E-05	5.0E-04
40	6.5E-01	7.3E-04	1.0E-03	4.9E-07	1.6E-01	8.2E-02	6.4E-09	9.6E-05	4.8E-04
41	6.2E-01	7.3E-04	1.0E-03	4.7E-07	1.6E-01	8.2E-02	6.1E-09	9.2E-05	4.6E-04
42	5.9E-01	7.3E-04	1.0E-03	4.5E-07	1.6E-01	8.2E-02	5.8E-09	8.7E-05	4.4E-04
43	3.9E-01	7.3E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.8E-09	5.7E-05	2.8E-04
44	4.3E-01	7.3E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.2E-09	6.3E-05	3.1E-04
45	4.7E-01	7.3E-04	1.0E-03	3.5E-07	1.6E-01	8.2E-02	4.6E-09	6.9E-05	3.4E-04
46	5.5E-01	7.3E-04	1.0E-03	4.2E-07	1.6E-01	8.2E-02	5.4E-09	8.1E-05	4.0E-04
47	5.9E-01	7.3E-04	1.0E-03	4.5E-07	1.6E-01	8.2E-02	5.8E-09	8.7E-05	4.3E-04
48	6.2E-01	7.3E-04	1.0E-03	4.7E-07	1.6E-01	8.2E-02	6.1E-09	9.1E-05	4.6E-04
49	6.5E-01	7.3E-04	1.0E-03	5.0E-07	1.6E-01	8.2E-02	6.4E-09	9.6E-05	4.8E-04
50	6.9E-01	7.3E-04	1.0E-03	5.3E-07	1.6E-01	8.2E-02	6.8E-09	1.0E-04	5.1E-04
51	7.3E-01	7.3E-04	1.0E-03	5.5E-07	1.6E-01	8.2E-02	7.2E-09	1.1E-04	5.4E-04
52	8.2E-01	7.3E-04	1.0E-03	6.3E-07	1.6E-01	8.2E-02	8.1E-09	1.2E-04	6.1E-04
53	8.6E-01	7.3E-04	1.0E-03	6.5E-07	1.6E-01	8.2E-02	8.4E-09	1.3E-04	6.3E-04
54	8.8E-01	7.3E-04	1.0E-03	6.7E-07	1.6E-01	8.2E-02	8.6E-09	1.3E-04	6.5E-04
55	8.9E-01	7.3E-04	1.0E-03	6.7E-07	1.6E-01	8.2E-02	8.7E-09	1.3E-04	6.6E-04
56	8.9E-01	7.3E-04	1.0E-03	6.8E-07	1.6E-01	8.2E-02	8.7E-09	1.3E-04	6.6E-04
57	8.1E-01	7.3E-04	1.0E-03	6.1E-07	1.6E-01	8.2E-02	7.9E-09	1.2E-04	6.0E-04
58	7.6E-01	7.3E-04	1.0E-03	5.8E-07	1.6E-01	8.2E-02	7.4E-09	1.1E-04	5.6E-04
59	7.0E-01	7.3E-04	1.0E-03	5.4E-07	1.6E-01	8.2E-02	6.9E-09	1.0E-04	5.2E-04
60	4.2E-01	7.3E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.1E-09	6.1E-05	3.1E-04
61	4.7E-01	7.3E-04	1.0E-03	3.6E-07	1.6E-01	8.2E-02	4.6E-09	6.9E-05	3.4E-04
62	5.3E-01	7.3E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.2E-09	7.7E-05	3.9E-04
63	5.9E-01	7.3E-04	1.0E-03	4.5E-07	1.6E-01	8.2E-02	5.8E-09	8.6E-05	4.3E-04
64	6.6E-01	7.3E-04	1.0E-03	5.0E-07	1.6E-01	8.2E-02	6.4E-09	9.6E-05	4.8E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	7.3E-04	1.0E-03	6.4E-07	1.6E-01	8.2E-02	8.3E-09	1.2E-04	6.2E-04
66	9.1E-01	7.3E-04	1.0E-03	6.9E-07	1.6E-01	8.2E-02	8.9E-09	1.3E-04	6.7E-04
67	9.7E-01	7.3E-04	1.0E-03	7.4E-07	1.6E-01	8.2E-02	9.5E-09	1.4E-04	7.1E-04
68	1.1E+00	7.3E-04	1.0E-03	8.5E-07	1.6E-01	8.2E-02	1.1E-08	1.6E-04	8.2E-04
69	1.2E+00	7.3E-04	1.0E-03	8.9E-07	1.6E-01	8.2E-02	1.1E-08	1.7E-04	8.6E-04
70	1.2E+00	7.3E-04	1.0E-03	9.1E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	8.9E-04
71	1.2E+00	7.3E-04	1.0E-03	9.2E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	8.9E-04
72	1.2E+00	7.3E-04	1.0E-03	9.1E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	8.8E-04
73	4.4E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.3E-09	6.5E-05	3.2E-04
74	5.0E-01	7.3E-04	1.0E-03	3.8E-07	1.6E-01	8.2E-02	4.9E-09	7.4E-05	3.7E-04
75	5.8E-01	7.3E-04	1.0E-03	4.4E-07	1.6E-01	8.2E-02	5.7E-09	8.5E-05	4.2E-04
76	6.7E-01	7.3E-04	1.0E-03	5.1E-07	1.6E-01	8.2E-02	6.5E-09	9.8E-05	4.9E-04
77	7.7E-01	7.3E-04	1.0E-03	5.9E-07	1.6E-01	8.2E-02	7.6E-09	1.1E-04	5.7E-04
78	8.8E-01	7.3E-04	1.0E-03	6.7E-07	1.6E-01	8.2E-02	8.6E-09	1.3E-04	6.5E-04
79	1.0E+00	7.3E-04	1.0E-03	7.6E-07	1.6E-01	8.2E-02	9.8E-09	1.5E-04	7.3E-04
80	1.4E+00	7.3E-04	1.0E-03	1.0E-06	1.6E-01	8.2E-02	1.3E-08	2.0E-04	1.0E-03
81	1.6E+00	7.3E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.6E-08	2.4E-04	1.2E-03
82	1.7E+00	7.3E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.5E-04	1.3E-03
83	1.7E+00	7.3E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
84	1.7E+00	7.3E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.5E-04	1.3E-03
85	1.7E+00	7.3E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.6E-08	2.5E-04	1.2E-03
86	4.5E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.5E-05	3.3E-04
87	5.2E-01	7.3E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.1E-09	7.7E-05	3.8E-04
88	6.2E-01	7.3E-04	1.0E-03	4.7E-07	1.6E-01	8.2E-02	6.1E-09	9.1E-05	4.5E-04
89	7.4E-01	7.3E-04	1.0E-03	5.6E-07	1.6E-01	8.2E-02	7.2E-09	1.1E-04	5.4E-04
90	8.8E-01	7.3E-04	1.0E-03	6.7E-07	1.6E-01	8.2E-02	8.6E-09	1.3E-04	6.4E-04
91	1.1E+00	7.3E-04	1.0E-03	8.0E-07	1.6E-01	8.2E-02	1.0E-08	1.5E-04	7.7E-04
92	1.3E+00	7.3E-04	1.0E-03	9.6E-07	1.6E-01	8.2E-02	1.2E-08	1.9E-04	9.3E-04
93	1.5E+00	7.3E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.5E-08	2.2E-04	1.1E-03
94	1.8E+00	7.3E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
95	2.6E+00	7.3E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	1.9E-03
96	2.4E+00	7.3E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	7.3E-04	1.0E-03	3.5E-07	1.6E-01	8.2E-02	4.5E-09	6.7E-05	3.3E-04
98	5.4E-01	7.3E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.2E-09	7.8E-05	3.9E-04
99	6.4E-01	7.3E-04	1.0E-03	4.8E-07	1.6E-01	8.2E-02	6.2E-09	9.3E-05	4.7E-04
100	1.2E+00	7.3E-04	1.0E-03	9.2E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	8.9E-04
101	1.5E+00	7.3E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.5E-08	2.3E-04	1.1E-03
102	2.0E+00	7.3E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	2.0E-08	2.9E-04	1.5E-03
103	2.6E+00	7.3E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	1.9E-03
104	4.5E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.5E-05	3.3E-04
105	5.3E-01	7.3E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.2E-09	7.8E-05	3.9E-04
106	6.4E-01	7.3E-04	1.0E-03	4.9E-07	1.6E-01	8.2E-02	6.3E-09	9.4E-05	4.7E-04
107	2.5E+00	7.3E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
108	3.8E+00	7.3E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.7E-08	5.5E-04	2.8E-03
109	4.3E-01	7.3E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.2E-09	6.2E-05	3.1E-04
110	5.1E-01	7.3E-04	1.0E-03	3.9E-07	1.6E-01	8.2E-02	5.0E-09	7.4E-05	3.7E-04
111	6.2E-01	7.3E-04	1.0E-03	4.7E-07	1.6E-01	8.2E-02	6.0E-09	9.0E-05	4.5E-04
112	2.8E+00	7.3E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
113	4.7E+00	7.3E-04	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.6E-08	6.8E-04	3.4E-03
114	4.0E-01	7.3E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.9E-09	5.9E-05	2.9E-04
115	4.8E-01	7.3E-04	1.0E-03	3.6E-07	1.6E-01	8.2E-02	4.7E-09	7.0E-05	3.5E-04
116	5.8E-01	7.3E-04	1.0E-03	4.4E-07	1.6E-01	8.2E-02	5.7E-09	8.5E-05	4.2E-04
117	7.2E-01	7.3E-04	1.0E-03	5.4E-07	1.6E-01	8.2E-02	7.0E-09	1.0E-04	5.2E-04
118	2.7E+00	7.3E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	2.0E-03
119	4.7E+00	7.3E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	6.9E-04	3.5E-03
120	3.7E-01	7.3E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.7E-09	5.5E-05	2.7E-04
121	4.4E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.3E-09	6.5E-05	3.2E-04
122	5.3E-01	7.3E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.2E-09	7.8E-05	3.9E-04
123	6.6E-01	7.3E-04	1.0E-03	5.0E-07	1.6E-01	8.2E-02	6.4E-09	9.6E-05	4.8E-04
124	2.3E+00	7.3E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.4E-04	1.7E-03
125	4.0E+00	7.3E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.9E-04	2.9E-03
126	3.5E-01	7.3E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.4E-09	5.1E-05	2.6E-04
127	4.1E-01	7.3E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	4.0E-09	6.0E-05	3.0E-04
128	4.9E-01	7.3E-04	1.0E-03	3.7E-07	1.6E-01	8.2E-02	4.8E-09	7.1E-05	3.6E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	7.3E-04	1.0E-03	4.5E-07	1.6E-01	8.2E-02	5.8E-09	8.7E-05	4.4E-04
130	7.4E-01	7.3E-04	1.0E-03	5.6E-07	1.6E-01	8.2E-02	7.3E-09	1.1E-04	5.4E-04
131	9.7E-01	7.3E-04	1.0E-03	7.3E-07	1.6E-01	8.2E-02	9.5E-09	1.4E-04	7.1E-04
132	1.3E+00	7.3E-04	1.0E-03	1.0E-06	1.6E-01	8.2E-02	1.3E-08	1.9E-04	9.6E-04
133	1.9E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
134	3.0E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	2.9E-08	4.4E-04	2.2E-03
135	5.4E+00	7.3E-04	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.8E-04	3.9E-03
136	3.2E-01	7.3E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.2E-09	4.8E-05	2.4E-04
137	3.8E-01	7.3E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.7E-09	5.5E-05	2.8E-04
138	4.5E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.5E-05	3.3E-04
139	5.4E-01	7.3E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.3E-09	7.9E-05	3.9E-04
140	6.6E-01	7.3E-04	1.0E-03	5.0E-07	1.6E-01	8.2E-02	6.5E-09	9.7E-05	4.9E-04
141	8.4E-01	7.3E-04	1.0E-03	6.4E-07	1.6E-01	8.2E-02	8.3E-09	1.2E-04	6.2E-04
142	1.1E+00	7.3E-04	1.0E-03	8.4E-07	1.6E-01	8.2E-02	1.1E-08	1.6E-04	8.1E-04
143	1.5E+00	7.3E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.5E-08	2.2E-04	1.1E-03
144	2.1E+00	7.3E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.1E-04	1.5E-03
145	3.1E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.5E-04	2.2E-03
146	3.0E-01	7.3E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	2.9E-09	4.4E-05	2.2E-04
147	3.5E-01	7.3E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.4E-09	5.1E-05	2.5E-04
148	4.1E-01	7.3E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	4.0E-09	6.0E-05	3.0E-04
149	4.8E-01	7.3E-04	1.0E-03	3.7E-07	1.6E-01	8.2E-02	4.7E-09	7.1E-05	3.5E-04
150	5.9E-01	7.3E-04	1.0E-03	4.4E-07	1.6E-01	8.2E-02	5.7E-09	8.6E-05	4.3E-04
151	7.2E-01	7.3E-04	1.0E-03	5.5E-07	1.6E-01	8.2E-02	7.1E-09	1.1E-04	5.3E-04
152	9.0E-01	7.3E-04	1.0E-03	6.8E-07	1.6E-01	8.2E-02	8.8E-09	1.3E-04	6.6E-04
153	1.2E+00	7.3E-04	1.0E-03	8.8E-07	1.6E-01	8.2E-02	1.1E-08	1.7E-04	8.5E-04
154	1.5E+00	7.3E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.1E-04	1.1E-03
155	1.9E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
156	2.8E-01	7.3E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.1E-05	2.0E-04
157	3.2E-01	7.3E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.1E-09	4.7E-05	2.4E-04
158	3.7E-01	7.3E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.6E-09	5.4E-05	2.7E-04
159	4.3E-01	7.3E-04	1.0E-03	3.3E-07	1.6E-01	8.2E-02	4.3E-09	6.4E-05	3.2E-04
160	5.2E-01	7.3E-04	1.0E-03	3.9E-07	1.6E-01	8.2E-02	5.1E-09	7.6E-05	3.8E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	7.3E-04	1.0E-03	4.7E-07	1.6E-01	8.2E-02	6.1E-09	9.1E-05	4.5E-04
162	7.4E-01	7.3E-04	1.0E-03	5.7E-07	1.6E-01	8.2E-02	7.3E-09	1.1E-04	5.5E-04
163	9.0E-01	7.3E-04	1.0E-03	6.8E-07	1.6E-01	8.2E-02	8.8E-09	1.3E-04	6.6E-04
164	1.1E+00	7.3E-04	1.0E-03	8.1E-07	1.6E-01	8.2E-02	1.0E-08	1.6E-04	7.8E-04
165	1.3E+00	7.3E-04	1.0E-03	9.9E-07	1.6E-01	8.2E-02	1.3E-08	1.9E-04	9.6E-04
166	2.6E-01	7.3E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.5E-09	3.8E-05	1.9E-04
167	2.9E-01	7.3E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.9E-09	4.3E-05	2.2E-04
168	3.4E-01	7.3E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.3E-09	4.9E-05	2.5E-04
169	3.9E-01	7.3E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.8E-09	5.7E-05	2.8E-04
170	4.5E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.6E-05	3.3E-04
171	5.3E-01	7.3E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.2E-09	7.7E-05	3.9E-04
172	6.1E-01	7.3E-04	1.0E-03	4.6E-07	1.6E-01	8.2E-02	6.0E-09	8.9E-05	4.5E-04
173	7.1E-01	7.3E-04	1.0E-03	5.4E-07	1.6E-01	8.2E-02	6.9E-09	1.0E-04	5.2E-04
174	8.2E-01	7.3E-04	1.0E-03	6.2E-07	1.6E-01	8.2E-02	8.0E-09	1.2E-04	6.0E-04
175	9.5E-01	7.3E-04	1.0E-03	7.2E-07	1.6E-01	8.2E-02	9.3E-09	1.4E-04	7.0E-04
176	2.4E-01	7.3E-04	1.0E-03	1.8E-07	1.6E-01	8.2E-02	2.4E-09	3.5E-05	1.8E-04
177	2.7E-01	7.3E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.6E-09	4.0E-05	2.0E-04
178	3.0E-01	7.3E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	3.0E-09	4.5E-05	2.2E-04
179	3.5E-01	7.3E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.4E-09	5.1E-05	2.5E-04
180	3.9E-01	7.3E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.9E-09	5.8E-05	2.9E-04
181	4.5E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.6E-05	3.3E-04
182	5.1E-01	7.3E-04	1.0E-03	3.9E-07	1.6E-01	8.2E-02	5.0E-09	7.5E-05	3.7E-04
183	5.7E-01	7.3E-04	1.0E-03	4.3E-07	1.6E-01	8.2E-02	5.6E-09	8.4E-05	4.2E-04
184	6.4E-01	7.3E-04	1.0E-03	4.9E-07	1.6E-01	8.2E-02	6.3E-09	9.4E-05	4.7E-04
185	7.2E-01	7.3E-04	1.0E-03	5.5E-07	1.6E-01	8.2E-02	7.1E-09	1.1E-04	5.3E-04
186	5.9E-01	7.3E-04	1.0E-03	4.5E-07	1.6E-01	8.2E-02	5.8E-09	8.6E-05	4.3E-04
187	5.2E-01	7.3E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.1E-09	7.7E-05	3.9E-04
188	4.7E-01	7.3E-04	1.0E-03	3.5E-07	1.6E-01	8.2E-02	4.6E-09	6.9E-05	3.4E-04
189	2.2E-01	7.3E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.3E-05	1.6E-04
190	2.5E-01	7.3E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.4E-09	3.6E-05	1.8E-04
191	2.7E-01	7.3E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.0E-05	2.0E-04
192	3.1E-01	7.3E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	3.0E-09	4.5E-05	2.3E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	7.3E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.4E-09	5.1E-05	2.5E-04
194	3.8E-01	7.3E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.8E-09	5.6E-05	2.8E-04
195	4.3E-01	7.3E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.2E-09	6.3E-05	3.1E-04
196	4.7E-01	7.3E-04	1.0E-03	3.6E-07	1.6E-01	8.2E-02	4.6E-09	6.9E-05	3.4E-04
197	5.6E-01	7.3E-04	1.0E-03	4.3E-07	1.6E-01	8.2E-02	5.5E-09	8.3E-05	4.1E-04
198	6.1E-01	7.3E-04	1.0E-03	4.6E-07	1.6E-01	8.2E-02	5.9E-09	8.9E-05	4.5E-04
199	5.7E-01	7.3E-04	1.0E-03	4.4E-07	1.6E-01	8.2E-02	5.6E-09	8.4E-05	4.2E-04
200	5.3E-01	7.3E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.2E-09	7.9E-05	3.9E-04
201	4.9E-01	7.3E-04	1.0E-03	3.7E-07	1.6E-01	8.2E-02	4.8E-09	7.3E-05	3.6E-04
202	4.5E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.6E-05	3.3E-04
203	4.1E-01	7.3E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	4.0E-09	6.0E-05	3.0E-04
204	2.0E-01	7.3E-04	1.0E-03	1.6E-07	1.6E-01	8.2E-02	2.0E-09	3.0E-05	1.5E-04
205	2.3E-01	7.3E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.3E-05	1.7E-04
206	2.5E-01	7.3E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.4E-09	3.6E-05	1.8E-04
207	2.7E-01	7.3E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.0E-05	2.0E-04
208	3.0E-01	7.3E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	3.0E-09	4.4E-05	2.2E-04
209	3.3E-01	7.3E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.3E-09	4.9E-05	2.4E-04
210	3.6E-01	7.3E-04	1.0E-03	2.7E-07	1.6E-01	8.2E-02	3.5E-09	5.3E-05	2.7E-04
211	4.2E-01	7.3E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.2E-09	6.2E-05	3.1E-04
212	4.5E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.6E-05	3.3E-04
213	5.0E-01	7.3E-04	1.0E-03	3.8E-07	1.6E-01	8.2E-02	4.9E-09	7.3E-05	3.7E-04
214	5.0E-01	7.3E-04	1.0E-03	3.8E-07	1.6E-01	8.2E-02	4.9E-09	7.3E-05	3.6E-04
215	4.9E-01	7.3E-04	1.0E-03	3.7E-07	1.6E-01	8.2E-02	4.8E-09	7.2E-05	3.6E-04
216	4.7E-01	7.3E-04	1.0E-03	3.6E-07	1.6E-01	8.2E-02	4.6E-09	6.9E-05	3.4E-04
217	4.4E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.3E-09	6.5E-05	3.3E-04
218	4.2E-01	7.3E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.1E-09	6.1E-05	3.1E-04
219	3.9E-01	7.3E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.8E-09	5.7E-05	2.9E-04
220	3.5E-01	7.3E-04	1.0E-03	2.7E-07	1.6E-01	8.2E-02	3.5E-09	5.2E-05	2.6E-04
221	1.9E-01	7.3E-04	1.0E-03	1.4E-07	1.6E-01	8.2E-02	1.9E-09	2.8E-05	1.4E-04
222	2.1E-01	7.3E-04	1.0E-03	1.6E-07	1.6E-01	8.2E-02	2.0E-09	3.0E-05	1.5E-04
223	2.2E-01	7.3E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.3E-05	1.7E-04
224	2.5E-01	7.3E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.4E-09	3.6E-05	1.8E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	7.3E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.6E-09	3.9E-05	2.0E-04
226	3.1E-01	7.3E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.1E-09	4.6E-05	2.3E-04
227	3.3E-01	7.3E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.3E-09	4.9E-05	2.5E-04
228	3.5E-01	7.3E-04	1.0E-03	2.7E-07	1.6E-01	8.2E-02	3.4E-09	5.2E-05	2.6E-04
229	3.7E-01	7.3E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.6E-09	5.5E-05	2.7E-04
230	4.0E-01	7.3E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	3.9E-09	5.9E-05	3.0E-04
231	4.0E-01	7.3E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.9E-09	5.9E-05	3.0E-04
232	4.0E-01	7.3E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.9E-09	5.9E-05	2.9E-04
233	3.9E-01	7.3E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.8E-09	5.7E-05	2.8E-04
234	3.7E-01	7.3E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.6E-09	5.5E-05	2.7E-04
235	3.5E-01	7.3E-04	1.0E-03	2.7E-07	1.6E-01	8.2E-02	3.5E-09	5.2E-05	2.6E-04
236	3.3E-01	7.3E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.2E-09	4.9E-05	2.4E-04
237	3.1E-01	7.3E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.0E-09	4.6E-05	2.3E-04
238	1.8E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.6E-04	1.3E-03
239	1.8E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.7E-04	1.3E-03
240	1.9E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.7E-04	1.4E-03
241	1.9E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.8E-04	1.4E-03
242	1.9E+00	7.3E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
243	1.9E+00	7.3E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
244	2.0E+00	7.3E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.9E-04	1.4E-03
245	2.0E+00	7.3E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	2.0E-08	2.9E-04	1.5E-03
246	2.0E+00	7.3E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	2.0E-08	3.0E-04	1.5E-03
247	2.1E+00	7.3E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.0E-08	3.0E-04	1.5E-03
248	2.1E+00	7.3E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.1E-04	1.5E-03
249	2.1E+00	7.3E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.1E-04	1.6E-03
250	2.2E+00	7.3E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
251	2.2E+00	7.3E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
252	2.2E+00	7.3E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
253	2.2E+00	7.3E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.2E-08	3.3E-04	1.6E-03
254	2.3E+00	7.3E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.2E-08	3.3E-04	1.7E-03
255	2.3E+00	7.3E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.4E-04	1.7E-03
256	2.3E+00	7.3E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.4E-04	1.7E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	7.3E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.5E-04	1.7E-03
258	2.4E+00	7.3E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.4E-08	3.5E-04	1.8E-03
259	2.4E+00	7.3E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
260	2.5E+00	7.3E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
261	2.5E+00	7.3E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.5E-08	3.7E-04	1.8E-03
262	2.6E+00	7.3E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.5E-08	3.8E-04	1.9E-03
263	2.6E+00	7.3E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.8E-04	1.9E-03
264	2.6E+00	7.3E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	1.9E-03
265	2.7E+00	7.3E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	2.0E-03
266	2.7E+00	7.3E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
267	2.7E+00	7.3E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
268	2.7E+00	7.3E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
269	2.8E+00	7.3E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
270	2.8E+00	7.3E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
271	2.9E+00	7.3E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.9E-08	4.3E-04	2.1E-03
272	3.0E+00	7.3E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.9E-08	4.3E-04	2.2E-03
273	3.0E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	2.9E-08	4.4E-04	2.2E-03
274	3.0E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.4E-04	2.2E-03
275	3.0E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.5E-04	2.2E-03
276	3.1E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.5E-04	2.2E-03
277	3.1E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.5E-04	2.3E-03
278	3.1E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.5E-04	2.3E-03
279	3.1E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.5E-04	2.2E-03
280	3.0E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.4E-04	2.2E-03
281	3.0E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	2.9E-08	4.4E-04	2.2E-03
282	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	4.9E-04	2.5E-03
283	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	5.0E-04	2.5E-03
284	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.4E-08	5.0E-04	2.5E-03
285	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.4E-08	5.0E-04	2.5E-03
286	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.4E-08	5.0E-04	2.5E-03
287	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.4E-08	5.0E-04	2.5E-03
288	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	5.0E-04	2.5E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	7.3E-04	1.0E-03	2.5E-06	1.6E-01	8.2E-02	3.3E-08	4.9E-04	2.5E-03
290	3.3E+00	7.3E-04	1.0E-03	2.5E-06	1.6E-01	8.2E-02	3.3E-08	4.9E-04	2.4E-03
291	3.3E+00	7.3E-04	1.0E-03	2.5E-06	1.6E-01	8.2E-02	3.2E-08	4.8E-04	2.4E-03
292	3.3E+00	7.3E-04	1.0E-03	2.5E-06	1.6E-01	8.2E-02	3.2E-08	4.8E-04	2.4E-03
293	3.9E+00	7.3E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.8E-08	5.7E-04	2.8E-03
294	3.9E+00	7.3E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.8E-08	5.7E-04	2.8E-03
295	3.9E+00	7.3E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.8E-08	5.7E-04	2.8E-03
296	3.8E+00	7.3E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.7E-08	5.6E-04	2.8E-03
297	3.8E+00	7.3E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.7E-08	5.5E-04	2.8E-03
298	3.7E+00	7.3E-04	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.6E-08	5.5E-04	2.7E-03
299	3.7E+00	7.3E-04	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.6E-08	5.4E-04	2.7E-03
300	3.6E+00	7.3E-04	1.0E-03	2.7E-06	1.6E-01	8.2E-02	3.5E-08	5.3E-04	2.7E-03
301	3.5E+00	7.3E-04	1.0E-03	2.7E-06	1.6E-01	8.2E-02	3.5E-08	5.2E-04	2.6E-03
302	3.5E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.4E-08	5.1E-04	2.6E-03
303	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	5.0E-04	2.5E-03
304	4.4E+00	7.3E-04	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.3E-08	6.4E-04	3.2E-03
305	4.3E+00	7.3E-04	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.2E-08	6.3E-04	3.2E-03
306	4.2E+00	7.3E-04	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.2E-08	6.2E-04	3.1E-03
307	4.2E+00	7.3E-04	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.1E-08	6.1E-04	3.1E-03
308	4.1E+00	7.3E-04	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	6.0E-04	3.0E-03
309	4.0E+00	7.3E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.9E-04	2.9E-03
310	3.9E+00	7.3E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.8E-08	5.8E-04	2.9E-03
311	3.8E+00	7.3E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.8E-08	5.6E-04	2.8E-03
312	3.7E+00	7.3E-04	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.7E-08	5.5E-04	2.8E-03
313	3.6E+00	7.3E-04	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.6E-08	5.4E-04	2.7E-03
314	3.5E+00	7.3E-04	1.0E-03	2.7E-06	1.6E-01	8.2E-02	3.4E-08	5.2E-04	2.6E-03
315	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	5.0E-04	2.5E-03
316	4.7E+00	7.3E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.6E-08	6.9E-04	3.5E-03
317	4.6E+00	7.3E-04	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.8E-04	3.4E-03
318	4.5E+00	7.3E-04	1.0E-03	3.4E-06	1.6E-01	8.2E-02	4.4E-08	6.6E-04	3.3E-03
319	4.4E+00	7.3E-04	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.3E-08	6.4E-04	3.2E-03
320	4.2E+00	7.3E-04	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.2E-08	6.3E-04	3.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	7.3E-04	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	6.0E-04	3.0E-03
322	4.0E+00	7.3E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.8E-04	2.9E-03
323	3.8E+00	7.3E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.8E-08	5.6E-04	2.8E-03
324	3.7E+00	7.3E-04	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.6E-08	5.4E-04	2.7E-03
325	5.0E+00	7.3E-04	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.4E-04	3.7E-03
326	4.9E+00	7.3E-04	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.1E-04	3.6E-03
327	4.7E+00	7.3E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.6E-08	6.9E-04	3.5E-03
328	4.5E+00	7.3E-04	1.0E-03	3.4E-06	1.6E-01	8.2E-02	4.4E-08	6.6E-04	3.3E-03
329	4.4E+00	7.3E-04	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.3E-08	6.4E-04	3.2E-03
330	4.2E+00	7.3E-04	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.1E-08	6.2E-04	3.1E-03
331	5.2E+00	7.3E-04	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.1E-08	7.6E-04	3.8E-03
332	5.0E+00	7.3E-04	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.3E-04	3.7E-03
333	4.8E+00	7.3E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	7.0E-04	3.5E-03
334	4.6E+00	7.3E-04	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.7E-04	3.4E-03
335	1.7E+00	7.3E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.5E-04	1.3E-03
336	1.8E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
337	1.8E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.7E-04	1.3E-03
338	1.9E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.7E-04	1.4E-03
339	1.9E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.8E-04	1.4E-03
340	1.9E+00	7.3E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
341	2.0E+00	7.3E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	2.0E-08	2.9E-04	1.5E-03
342	2.0E+00	7.3E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.0E-08	3.0E-04	1.5E-03
343	2.0E+00	7.3E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	2.0E-08	3.0E-04	1.5E-03
344	2.1E+00	7.3E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.1E-04	1.5E-03
345	2.2E+00	7.3E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
346	2.2E+00	7.3E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.2E-08	3.3E-04	1.6E-03
347	2.2E+00	7.3E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.2E-08	3.2E-04	1.6E-03
348	2.3E+00	7.3E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.4E-04	1.7E-03
349	2.4E+00	7.3E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.5E-04	1.8E-03
350	2.5E+00	7.3E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
351	2.4E+00	7.3E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.4E-08	3.5E-04	1.8E-03
352	2.5E+00	7.3E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.5E-08	3.7E-04	1.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	7.3E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	1.9E-03
354	2.7E+00	7.3E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
355	2.6E+00	7.3E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	1.9E-03
356	2.8E+00	7.3E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.1E-04	2.0E-03
357	2.9E+00	7.3E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.9E-08	4.3E-04	2.1E-03
358	3.0E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.4E-04	2.2E-03
359	2.9E+00	7.3E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.9E-08	4.2E-04	2.1E-03
360	3.1E+00	7.3E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.5E-04	2.2E-03
361	3.2E+00	7.3E-04	1.0E-03	2.4E-06	1.6E-01	8.2E-02	3.2E-08	4.7E-04	2.4E-03
362	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	4.9E-04	2.5E-03
363	3.2E+00	7.3E-04	1.0E-03	2.4E-06	1.6E-01	8.2E-02	3.1E-08	4.7E-04	2.3E-03
364	3.4E+00	7.3E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	5.0E-04	2.5E-03
365	3.6E+00	7.3E-04	1.0E-03	2.7E-06	1.6E-01	8.2E-02	3.5E-08	5.3E-04	2.6E-03
366	3.8E+00	7.3E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.7E-08	5.6E-04	2.8E-03
367	3.5E+00	7.3E-04	1.0E-03	2.7E-06	1.6E-01	8.2E-02	3.4E-08	5.1E-04	2.6E-03
368	3.7E+00	7.3E-04	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.7E-08	5.5E-04	2.7E-03
369	4.0E+00	7.3E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.8E-04	2.9E-03
370	4.3E+00	7.3E-04	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.2E-08	6.3E-04	3.1E-03
371	3.8E+00	7.3E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.8E-08	5.6E-04	2.8E-03
372	4.1E+00	7.3E-04	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.1E-08	6.0E-04	3.0E-03
373	4.5E+00	7.3E-04	1.0E-03	3.4E-06	1.6E-01	8.2E-02	4.4E-08	6.5E-04	3.3E-03
374	4.8E+00	7.3E-04	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.1E-04	3.5E-03
375	4.2E+00	7.3E-04	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.1E-08	6.1E-04	3.1E-03
376	4.6E+00	7.3E-04	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.7E-04	3.3E-03
377	5.0E+00	7.3E-04	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.3E-04	3.6E-03
378	5.5E+00	7.3E-04	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.0E-04	4.0E-03
379	4.5E+00	7.3E-04	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.6E-04	3.3E-03
380	5.0E+00	7.3E-04	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.3E-04	3.7E-03
381	5.6E+00	7.3E-04	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.5E-08	8.1E-04	4.1E-03
382	6.2E+00	7.3E-04	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.0E-04	4.5E-03
383	4.9E+00	7.3E-04	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.2E-04	3.6E-03
384	5.5E+00	7.3E-04	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.0E-04	4.0E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	7.3E-04	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.0E-08	9.0E-04	4.5E-03
386	6.9E+00	7.3E-04	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.8E-08	1.0E-03	5.1E-03
387	5.2E+00	7.3E-04	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.1E-08	7.6E-04	3.8E-03
388	5.9E+00	7.3E-04	1.0E-03	4.5E-06	1.6E-01	8.2E-02	5.8E-08	8.6E-04	4.3E-03
389	6.7E+00	7.3E-04	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.6E-08	9.8E-04	4.9E-03
390	7.7E+00	7.3E-04	1.0E-03	5.8E-06	1.6E-01	8.2E-02	7.5E-08	1.1E-03	5.6E-03
391	5.6E+00	7.3E-04	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.5E-08	8.1E-04	4.0E-03
392	6.3E+00	7.3E-04	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.2E-08	9.2E-04	4.6E-03
393	7.2E+00	7.3E-04	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.1E-03	5.3E-03
394	8.4E+00	7.3E-04	1.0E-03	6.4E-06	1.6E-01	8.2E-02	8.2E-08	1.2E-03	6.1E-03
395	5.8E+00	7.3E-04	1.0E-03	4.4E-06	1.6E-01	8.2E-02	5.7E-08	8.5E-04	4.2E-03
396	6.7E+00	7.3E-04	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.5E-08	9.7E-04	4.9E-03
397	7.7E+00	7.3E-04	1.0E-03	5.9E-06	1.6E-01	8.2E-02	7.6E-08	1.1E-03	5.6E-03
398	9.1E+00	7.3E-04	1.0E-03	6.9E-06	1.6E-01	8.2E-02	8.9E-08	1.3E-03	6.6E-03
399	6.0E+00	7.3E-04	1.0E-03	4.6E-06	1.6E-01	8.2E-02	5.9E-08	8.8E-04	4.4E-03
400	7.0E+00	7.3E-04	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.8E-08	1.0E-03	5.1E-03
401	8.1E+00	7.3E-04	1.0E-03	6.2E-06	1.6E-01	8.2E-02	8.0E-08	1.2E-03	5.9E-03
402	9.6E+00	7.3E-04	1.0E-03	7.3E-06	1.6E-01	8.2E-02	9.4E-08	1.4E-03	7.0E-03
403	6.2E+00	7.3E-04	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.1E-04	4.5E-03
404	7.2E+00	7.3E-04	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.1E-08	1.0E-03	5.2E-03
405	8.4E+00	7.3E-04	1.0E-03	6.4E-06	1.6E-01	8.2E-02	8.3E-08	1.2E-03	6.1E-03
406	1.0E+01	7.3E-04	1.0E-03	7.6E-06	1.6E-01	8.2E-02	9.9E-08	1.5E-03	7.3E-03
407	6.3E+00	7.3E-04	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.2E-08	9.2E-04	4.6E-03
408	7.4E+00	7.3E-04	1.0E-03	5.6E-06	1.6E-01	8.2E-02	7.2E-08	1.1E-03	5.4E-03
409	8.7E+00	7.3E-04	1.0E-03	6.6E-06	1.6E-01	8.2E-02	8.5E-08	1.3E-03	6.3E-03
410	1.0E+01	7.3E-04	1.0E-03	7.9E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.6E-03
411	6.4E+00	7.3E-04	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.3E-08	9.3E-04	4.7E-03
412	7.5E+00	7.3E-04	1.0E-03	5.7E-06	1.6E-01	8.2E-02	7.3E-08	1.1E-03	5.4E-03
413	8.8E+00	7.3E-04	1.0E-03	6.7E-06	1.6E-01	8.2E-02	8.7E-08	1.3E-03	6.4E-03
414	1.1E+01	7.3E-04	1.0E-03	8.1E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.7E-03
415	6.4E+00	7.3E-04	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.3E-08	9.3E-04	4.7E-03
416	7.5E+00	7.3E-04	1.0E-03	5.7E-06	1.6E-01	8.2E-02	7.4E-08	1.1E-03	5.5E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	7.3E-04	1.0E-03	6.8E-06	1.6E-01	8.2E-02	8.7E-08	1.3E-03	6.5E-03
418	1.1E+01	7.3E-04	1.0E-03	8.2E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	7.8E-03
419	6.4E+00	7.3E-04	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.2E-08	9.3E-04	4.6E-03
420	7.5E+00	7.3E-04	1.0E-03	5.7E-06	1.6E-01	8.2E-02	7.3E-08	1.1E-03	5.4E-03
421	8.9E+00	7.3E-04	1.0E-03	6.7E-06	1.6E-01	8.2E-02	8.7E-08	1.3E-03	6.5E-03
422	1.1E+01	7.3E-04	1.0E-03	8.1E-06	1.6E-01	8.2E-02	1.1E-07	1.6E-03	7.8E-03
423	6.3E+00	7.3E-04	1.0E-03	4.7E-06	1.6E-01	8.2E-02	6.1E-08	9.1E-04	4.6E-03
424	7.4E+00	7.3E-04	1.0E-03	5.6E-06	1.6E-01	8.2E-02	7.2E-08	1.1E-03	5.4E-03
425	8.8E+00	7.3E-04	1.0E-03	6.7E-06	1.6E-01	8.2E-02	8.6E-08	1.3E-03	6.4E-03
426	1.1E+01	7.3E-04	1.0E-03	8.1E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.7E-03
427	6.1E+00	7.3E-04	1.0E-03	4.6E-06	1.6E-01	8.2E-02	6.0E-08	8.9E-04	4.4E-03
428	7.2E+00	7.3E-04	1.0E-03	5.5E-06	1.6E-01	8.2E-02	7.0E-08	1.0E-03	5.2E-03
429	8.6E+00	7.3E-04	1.0E-03	6.5E-06	1.6E-01	8.2E-02	8.4E-08	1.2E-03	6.2E-03
430	1.0E+01	7.3E-04	1.0E-03	7.9E-06	1.6E-01	8.2E-02	1.0E-07	1.5E-03	7.6E-03
431	5.9E+00	7.3E-04	1.0E-03	4.5E-06	1.6E-01	8.2E-02	5.8E-08	8.6E-04	4.3E-03
432	6.9E+00	7.3E-04	1.0E-03	5.3E-06	1.6E-01	8.2E-02	6.8E-08	1.0E-03	5.1E-03
433	8.3E+00	7.3E-04	1.0E-03	6.3E-06	1.6E-01	8.2E-02	8.1E-08	1.2E-03	6.0E-03
434	1.0E+01	7.3E-04	1.0E-03	7.6E-06	1.6E-01	8.2E-02	9.8E-08	1.5E-03	7.3E-03
435	5.6E+00	7.3E-04	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.5E-08	8.2E-04	4.1E-03
436	6.6E+00	7.3E-04	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.5E-08	9.7E-04	4.8E-03
437	7.9E+00	7.3E-04	1.0E-03	6.0E-06	1.6E-01	8.2E-02	7.7E-08	1.1E-03	5.7E-03
438	9.6E+00	7.3E-04	1.0E-03	7.3E-06	1.6E-01	8.2E-02	9.4E-08	1.4E-03	7.0E-03
439	5.4E+00	7.3E-04	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.8E-04	3.9E-03
440	6.3E+00	7.3E-04	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.1E-08	9.1E-04	4.6E-03
441	7.4E+00	7.3E-04	1.0E-03	5.6E-06	1.6E-01	8.2E-02	7.3E-08	1.1E-03	5.4E-03
442	9.0E+00	7.3E-04	1.0E-03	6.8E-06	1.6E-01	8.2E-02	8.8E-08	1.3E-03	6.6E-03
443	5.0E+00	7.3E-04	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.3E-04	3.7E-03
444	5.9E+00	7.3E-04	1.0E-03	4.5E-06	1.6E-01	8.2E-02	5.7E-08	8.6E-04	4.3E-03
445	6.9E+00	7.3E-04	1.0E-03	5.2E-06	1.6E-01	8.2E-02	6.8E-08	1.0E-03	5.0E-03
446	8.3E+00	7.3E-04	1.0E-03	6.3E-06	1.6E-01	8.2E-02	8.1E-08	1.2E-03	6.1E-03
447	4.7E+00	7.3E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.6E-08	6.9E-04	3.4E-03
448	5.4E+00	7.3E-04	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.9E-04	4.0E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	7.3E-04	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.2E-08	9.3E-04	4.6E-03
450	7.6E+00	7.3E-04	1.0E-03	5.7E-06	1.6E-01	8.2E-02	7.4E-08	1.1E-03	5.5E-03
451	4.4E-01	7.3E-04	1.0E-03	3.3E-07	1.6E-01	8.2E-02	4.3E-09	6.5E-05	3.3E-04
452	4.4E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.3E-09	6.5E-05	3.3E-04
453	4.4E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.6E-05	3.3E-04
454	4.5E-01	7.3E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.6E-05	3.3E-04
455	5.4E-01	7.3E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.3E-09	8.0E-05	4.0E-04
456	5.4E-01	7.3E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.3E-09	8.0E-05	4.0E-04
457	5.5E-01	7.3E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.4E-09	8.1E-05	4.0E-04
458	5.4E-01	7.3E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.3E-09	8.0E-05	4.0E-04
459	6.8E-01	7.3E-04	1.0E-03	5.2E-07	1.6E-01	8.2E-02	6.7E-09	1.0E-04	5.0E-04
460	6.8E-01	7.3E-04	1.0E-03	5.2E-07	1.6E-01	8.2E-02	6.7E-09	1.0E-04	5.1E-04
461	6.8E-01	7.3E-04	1.0E-03	5.2E-07	1.6E-01	8.2E-02	6.7E-09	1.0E-04	5.0E-04
462	7.8E-01	7.3E-04	1.0E-03	6.0E-07	1.6E-01	8.2E-02	7.7E-09	1.1E-04	5.7E-04
463	9.7E-01	7.3E-04	1.0E-03	7.3E-07	1.6E-01	8.2E-02	9.5E-09	1.4E-04	7.1E-04
464	7.9E-01	7.3E-04	1.0E-03	6.0E-07	1.6E-01	8.2E-02	7.8E-09	1.2E-04	5.8E-04
465	1.0E+00	7.3E-04	1.0E-03	7.6E-07	1.6E-01	8.2E-02	9.8E-09	1.5E-04	7.3E-04
466	1.3E+00	7.3E-04	1.0E-03	9.9E-07	1.6E-01	8.2E-02	1.3E-08	1.9E-04	9.5E-04
467	1.8E+00	7.3E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
468	7.7E-01	7.3E-04	1.0E-03	5.8E-07	1.6E-01	8.2E-02	7.5E-09	1.1E-04	5.6E-04
469	9.8E-01	7.3E-04	1.0E-03	7.5E-07	1.6E-01	8.2E-02	9.6E-09	1.4E-04	7.2E-04
470	1.3E+00	7.3E-04	1.0E-03	9.9E-07	1.6E-01	8.2E-02	1.3E-08	1.9E-04	9.5E-04
471	1.8E+00	7.3E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.7E-04	1.3E-03
472	9.2E-01	7.3E-04	1.0E-03	7.0E-07	1.6E-01	8.2E-02	9.0E-09	1.3E-04	6.7E-04
473	1.2E+00	7.3E-04	1.0E-03	9.3E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	9.0E-04
474	1.7E+00	7.3E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.5E-04	1.3E-03
475	8.3E-01	7.3E-04	1.0E-03	6.3E-07	1.6E-01	8.2E-02	8.2E-09	1.2E-04	6.1E-04
476	1.1E+00	7.3E-04	1.0E-03	8.4E-07	1.6E-01	8.2E-02	1.1E-08	1.6E-04	8.1E-04
477	1.5E+00	7.3E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.5E-08	2.2E-04	1.1E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
1	2.8E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	2.7E+00	2.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12
2	2.9E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12
3	3.1E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12
4	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
5	3.3E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.5E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
6	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
7	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
8	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	4.1E+00	2.3E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11
9	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
10	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
11	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.8E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
12	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.8E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
13	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
14	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
15	2.9E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	4.1E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
16	2.8E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
17	3.1E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.2E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12
18	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12
19	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
20	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	3.6E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11
21	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
22	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.1E+00	2.3E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
23	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
24	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
25	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
26	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
27	3.1E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
28	3.4E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12
29	3.8E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
30	4.1E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.9E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
31	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
32	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
33	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.2E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
34	5.0E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.5E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
35	5.3E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
36	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
37	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	7.1E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
38	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
39	5.3E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
40	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
41	3.7E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
42	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
43	3.7E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
44	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.8E-12	3.6E+00	2.3E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11
45	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
46	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
47	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	5.3E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
48	5.6E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
49	5.9E+00	1.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11	6.3E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
50	6.2E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11
51	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
52	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	8.8E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
53	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	9.2E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
54	6.3E+00	1.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	9.4E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
55	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	9.3E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11
56	5.7E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
57	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
58	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	6.5E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
59	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
60	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	6.9E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
61	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.7E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11
62	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	4.2E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
63	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
64	5.7E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.3E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
65	7.0E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11
66	7.5E+00	1.3E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11	8.2E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11
67	7.9E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
68	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
69	7.9E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
70	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	1.2E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
71	7.2E+00	1.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
72	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
73	4.4E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
74	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	3.8E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
75	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
76	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	4.9E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
77	6.7E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
78	7.3E+00	1.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	6.5E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
79	8.0E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
80	9.9E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
81	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	1.4E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
82	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
83	9.5E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
84	8.9E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
85	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
86	4.5E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	3.4E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
87	5.2E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.9E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
88	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
89	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
90	7.7E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
91	8.7E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
92	9.7E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	8.1E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11
93	1.1E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
94	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
95	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	2.6E+01	2.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
96	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
97	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.2E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
98	5.5E+00	1.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.4E-12	3.8E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
99	6.4E+00	1.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
100	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11
101	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
102	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.1E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
103	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
104	4.8E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	3.3E+00	2.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11
105	5.7E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
106	6.7E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
107	1.8E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
108	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.4E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
109	4.7E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	3.2E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	9.9E-12
110	5.6E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
111	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
112	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11	1.1E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
113	3.0E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
114	4.5E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12
115	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
116	6.6E+00	1.3E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11	4.1E+00	2.3E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11
117	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
118	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
119	4.2E+01	1.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
120	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12
121	5.1E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	3.3E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
122	6.2E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.1E-11	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
123	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
124	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.0E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
125	4.8E+01	1.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
126	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	6.9E-12	2.8E+00	2.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12
127	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	3.2E+00	2.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12
128	5.7E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
129	7.1E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
130	8.9E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
131	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
132	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
133	2.4E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
134	4.0E+01	1.3E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	3.9E-11
135	8.8E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
136	3.8E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12
137	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	3.0E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.4E-12
138	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12	3.4E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
139	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
140	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
141	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.6E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11
142	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
143	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	8.6E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
144	3.0E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
145	5.2E+01	1.3E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
146	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.5E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12
147	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.2E-12	2.9E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12
148	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	3.2E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
149	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	3.8E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11
150	7.3E+00	1.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11
151	9.2E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
152	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
153	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.6E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
154	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	9.5E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
155	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11	1.2E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
156	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	2.4E+00	2.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12
157	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	2.7E+00	2.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12
158	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.5E-12
159	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
160	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
161	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
162	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
163	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
164	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	8.1E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
165	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.0E+01	2.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
166	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.5E-12	2.3E+00	2.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12
167	3.7E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.9E-12
168	4.2E+00	1.3E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	2.9E+00	2.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12
169	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.5E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
170	5.9E+00	1.3E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	1.0E-11	3.7E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11
171	7.0E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
172	8.5E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
173	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
174	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
175	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	8.3E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
176	3.0E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.1E-12	2.2E+00	2.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12
177	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	2.4E+00	2.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12
178	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12
179	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.0E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12
180	5.2E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
181	6.1E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
182	7.2E+00	1.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
183	8.4E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
184	9.8E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
185	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	6.8E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
186	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.1E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
187	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	5.2E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
188	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
189	2.8E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	2.0E+00	2.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12
190	3.1E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	2.3E+00	2.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12
191	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	2.5E+00	2.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12
192	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.9E-12	2.8E+00	2.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
193	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12
194	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
195	6.1E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	3.9E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
196	6.9E+00	1.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
197	8.6E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
198	7.1E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
199	6.2E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
200	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
201	4.7E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
202	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
203	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
204	2.6E+00	1.3E-07	1.0E-03	3.4E-10	1.6E-01	8.2E-02	4.4E-12	1.9E+00	2.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12
205	2.9E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	2.1E+00	2.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12
206	3.2E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	2.3E+00	2.3E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12
207	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12
208	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.8E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12
209	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12
210	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
211	6.3E+00	1.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
212	6.7E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
213	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
214	6.2E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
215	5.8E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
216	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
217	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
218	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
219	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
220	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.4E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
221	2.4E+00	1.3E-07	1.0E-03	3.2E-10	1.6E-01	8.2E-02	4.1E-12	1.8E+00	2.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12
222	2.7E+00	1.3E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	2.0E+00	2.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12
223	3.0E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	2.2E+00	2.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12
224	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	2.4E+00	2.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
225	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12
226	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12
227	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
228	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	3.7E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11
229	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
230	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
231	5.0E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
232	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
233	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	4.2E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
234	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	3.9E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
235	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
236	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.3E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
237	2.9E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.5E-12
238	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
239	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
240	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
241	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
242	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
243	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
244	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
245	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
246	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
247	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
248	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
249	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
250	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
251	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
252	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
253	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
254	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
255	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
256	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
257	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
258	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
259	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11
260	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.4E-11
261	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
262	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
263	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
264	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.0E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
265	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
266	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.2E+01	2.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
267	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.2E+01	2.3E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	6.9E-11
268	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.3E+01	2.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
269	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.4E+01	2.3E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.3E-11
270	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
271	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
272	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.2E+01	2.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
273	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	2.2E+01	2.3E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	7.0E-11
274	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	2.3E+01	2.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
275	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
276	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.5E+01	2.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.7E-11
277	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.6E+01	2.3E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11
278	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.6E+01	2.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.2E-11
279	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.7E+01	2.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11
280	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.8E+01	2.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11
281	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.8E+01	2.3E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11
282	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
283	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.5E+01	2.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11
284	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.6E+01	2.3E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.1E-11
285	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.7E+01	2.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.3E-11
286	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.8E+01	2.3E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.6E-11
287	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.9E+01	2.3E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
288	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.0E+01	2.3E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
289	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.0E+01	2.3E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11
290	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.1E+01	2.3E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.6E-11
291	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.2E+01	2.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
292	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.2E+01	2.3E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	9.9E-11
293	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	2.9E+01	2.3E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.1E-11
294	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.0E+01	2.3E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11
295	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.2E+01	2.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
296	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.3E+01	2.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10
297	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.4E+01	2.3E-07	1.0E-03	8.1E-09	1.6E-01	8.2E-02	1.0E-10
298	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.5E+01	2.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
299	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.5E+01	2.3E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
300	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10
301	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
302	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.6E+01	2.3E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10
303	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
304	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.5E+01	2.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
305	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
306	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+01	2.3E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10
307	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.9E+01	2.3E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
308	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.0E+01	2.3E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
309	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.1E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10
310	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.1E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
311	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.2E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
312	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.2E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
313	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.1E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10
314	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.0E+01	2.3E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
315	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.9E+01	2.3E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
316	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.4E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
317	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.6E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
318	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10
319	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
320	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
321	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
322	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10
323	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
324	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.5E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
325	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
326	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	5.6E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
327	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
328	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
329	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
330	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
331	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	6.9E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.1E-10
332	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.0E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
333	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.9E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.1E-10
334	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.6E+01	2.3E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.1E-10
335	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
336	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
337	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
338	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
339	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
340	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
341	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
342	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
343	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
344	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
345	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11	1.4E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
346	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
347	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
348	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
349	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.3E-11
350	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
351	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
352	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
353	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
354	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
355	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
356	1.6E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
357	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
358	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.8E-11
359	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
360	1.7E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
361	1.7E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
362	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
363	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
364	1.8E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
365	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
366	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
367	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
368	1.9E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
369	1.9E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
370	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
371	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
372	2.0E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
373	2.1E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
374	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
375	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
376	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	1.6E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11
377	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
378	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
379	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
380	2.3E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
381	2.4E+01	1.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
382	2.5E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
383	2.4E+01	1.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
384	2.5E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
385	2.6E+01	1.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
386	2.7E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
387	2.6E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11
388	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
389	2.8E+01	1.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
390	2.9E+01	1.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
391	2.8E+01	1.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
392	3.0E+01	1.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
393	3.1E+01	1.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
394	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
395	3.1E+01	1.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
396	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
397	3.4E+01	1.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
398	3.5E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11	2.0E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
399	3.3E+01	1.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
400	3.5E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
401	3.7E+01	1.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
402	3.8E+01	1.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11
403	3.6E+01	1.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
404	3.8E+01	1.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
405	4.0E+01	1.3E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.9E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
406	4.3E+01	1.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
407	3.9E+01	1.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
408	4.2E+01	1.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
409	4.5E+01	1.3E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
410	4.7E+01	1.3E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
411	4.3E+01	1.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
412	4.6E+01	1.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
413	4.9E+01	1.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.1E-11
414	5.3E+01	1.3E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
415	4.6E+01	1.3E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
416	5.0E+01	1.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
417	5.4E+01	1.3E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.3E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
418	5.9E+01	1.3E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	1.0E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
419	5.0E+01	1.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.4E-11
420	5.5E+01	1.3E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.4E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
421	6.0E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
422	6.6E+01	1.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
423	5.4E+01	1.3E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
424	6.0E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
425	6.7E+01	1.3E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.1E-11
426	7.4E+01	1.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
427	5.8E+01	1.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
428	6.5E+01	1.3E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
429	7.3E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.2E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
430	8.3E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
431	6.1E+01	1.3E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
432	7.0E+01	1.3E-07	1.0E-03	9.2E-09	1.6E-01	8.2E-02	1.2E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
433	8.0E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11
434	9.3E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
435	6.3E+01	1.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
436	7.3E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.2E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
437	8.6E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
438	1.0E+02	1.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
439	6.4E+01	1.3E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
440	7.6E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11
441	9.0E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
442	1.1E+02	1.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11
443	6.4E+01	1.3E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
444	7.6E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.4E-11
445	9.2E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
446	1.1E+02	1.3E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
447	6.2E+01	1.3E-07	1.0E-03	8.2E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
448	7.4E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.3E-10	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	9.0E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
450	1.1E+02	1.3E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
451	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
452	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
453	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
454	3.3E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
455	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	6.0E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
456	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
457	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.8E-12	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
458	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
459	5.1E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
460	4.8E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
461	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11
462	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
463	8.8E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
464	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
465	9.8E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
466	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
467	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
468	8.3E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
469	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
470	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
471	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
472	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
473	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	7.0E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
474	1.9E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
475	9.7E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
476	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.5E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
477	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.0E-11	8.1E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
1	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
2	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
3	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
4	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
5	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
6	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
7	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
8	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
9	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
10	5.3E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
11	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
12	6.0E+00	1.4E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
13	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
14	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
15	5.0E+00	1.4E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
16	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
17	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
18	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
19	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	2.0E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
20	3.9E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
21	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
22	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
23	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
24	7.7E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
25	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	5.8E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
26	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	5.9E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
27	5.4E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.9E+00	7.6E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11
28	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
29	3.9E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
30	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
31	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
32	5.2E+00	1.4E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
33	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
34	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
35	6.9E+00	1.4E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
36	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
37	8.9E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
38	9.4E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.2E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
39	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.6E+00	7.6E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
40	7.7E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
41	7.0E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11
42	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
43	3.2E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
44	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
45	4.1E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
46	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.4E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
47	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
48	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
49	7.2E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
50	8.1E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
51	9.0E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	4.2E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.3E-11
52	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	5.4E+00	7.6E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
53	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.0E+00	7.6E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
54	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
55	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	7.3E+00	7.6E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.4E-11
56	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	7.8E+00	7.6E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11
57	9.6E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	8.7E+00	7.6E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11
58	8.5E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
59	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
60	3.2E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
61	3.7E+00	1.4E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
62	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	2.0E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
63	4.8E+00	1.4E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
64	5.4E+00	1.4E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	1.0E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
65	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
66	9.5E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
67	1.1E+01	1.4E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
68	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.1E+00	7.6E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
69	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
70	1.7E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	8.1E+00	7.6E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.2E-11
71	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	9.0E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11
72	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	9.9E+00	7.6E-07	1.0E-03	7.8E-09	1.6E-01	8.2E-02	1.0E-10
73	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
74	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
75	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
76	4.8E+00	1.4E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
77	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
78	6.6E+00	1.4E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
79	7.8E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	3.1E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
80	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
81	1.9E+01	1.4E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
82	2.3E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	8.4E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11
83	2.6E+01	1.4E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11	1.0E+01	7.6E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10
84	2.7E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
85	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
86	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
87	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
88	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
89	4.8E+00	1.4E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
90	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
91	6.8E+00	1.4E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
92	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
93	9.9E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
94	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
95	4.8E+01	1.4E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.8E-11	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
96	4.6E+01	1.4E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
97	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
98	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
99	4.0E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
100	6.7E+00	1.4E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
101	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
102	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
103	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
104	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
105	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
106	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
107	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
108	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
109	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.1E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
110	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
111	3.7E+00	1.4E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
112	9.5E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
113	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
114	2.7E+00	1.4E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
115	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
116	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.4E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
117	4.0E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
118	8.7E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
119	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
120	2.6E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
121	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
122	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
123	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
124	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
125	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11	3.1E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
126	2.4E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
127	2.7E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
128	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
129	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
130	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
131	4.9E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
132	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
133	7.2E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
134	9.0E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
135	1.2E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
136	2.3E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.2E+00	7.6E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
137	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.3E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
138	3.0E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
139	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
140	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
141	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
142	5.4E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
143	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
144	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.7E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
145	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.1E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
146	2.2E+00	1.4E-07	1.0E-03	3.2E-10	1.6E-01	8.2E-02	4.1E-12	1.2E+00	7.6E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
147	2.5E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
148	2.8E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.1E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
149	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
150	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
151	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.8E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
152	4.8E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
153	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
154	6.8E+00	1.4E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
155	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
156	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.9E-12	1.2E+00	7.6E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
157	2.4E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.3E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
158	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
159	2.9E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
160	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
161	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
162	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
163	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
164	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
165	6.9E+00	1.4E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
166	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.7E-12	1.1E+00	7.6E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11
167	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.1E-12	1.2E+00	7.6E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
168	2.5E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
169	2.7E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
170	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
171	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
172	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
173	4.4E+00	1.4E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
174	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.2E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
175	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
176	1.9E+00	1.4E-07	1.0E-03	2.7E-10	1.6E-01	8.2E-02	3.5E-12	1.1E+00	7.6E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11
177	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.8E-12	1.2E+00	7.6E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
178	2.3E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.2E-12	1.2E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
179	2.5E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.6E-12	1.3E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
180	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
181	3.1E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.7E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
182	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
183	3.9E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
184	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.1E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
185	4.9E+00	1.4E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
186	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
187	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
188	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	5.2E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
189	1.8E+00	1.4E-07	1.0E-03	2.5E-10	1.6E-01	8.2E-02	3.3E-12	1.0E+00	7.6E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
190	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.6E-12	1.1E+00	7.6E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
191	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.9E-12	1.2E+00	7.6E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
192	2.4E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
193	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.7E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
194	2.9E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
195	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
196	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.4E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
197	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
198	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.2E-12	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
199	4.8E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
200	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
201	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
202	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
203	3.6E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
204	1.7E+00	1.4E-07	1.0E-03	2.4E-10	1.6E-01	8.2E-02	3.1E-12	1.0E+00	7.6E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
205	1.8E+00	1.4E-07	1.0E-03	2.6E-10	1.6E-01	8.2E-02	3.4E-12	1.1E+00	7.6E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11
206	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.7E-12	1.1E+00	7.6E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
207	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.0E-12	1.2E+00	7.6E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
208	2.4E+00	1.4E-07	1.0E-03	3.4E-10	1.6E-01	8.2E-02	4.4E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
209	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
210	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
211	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
212	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
213	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
214	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
215	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	3.0E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
216	4.1E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
217	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
218	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
219	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
220	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
221	1.6E+00	1.4E-07	1.0E-03	2.3E-10	1.6E-01	8.2E-02	2.9E-12	9.7E-01	7.6E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.9E-12
222	1.7E+00	1.4E-07	1.0E-03	2.4E-10	1.6E-01	8.2E-02	3.2E-12	1.0E+00	7.6E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.1E-11
223	1.9E+00	1.4E-07	1.0E-03	2.6E-10	1.6E-01	8.2E-02	3.4E-12	1.1E+00	7.6E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11
224	2.0E+00	1.4E-07	1.0E-03	2.9E-10	1.6E-01	8.2E-02	3.7E-12	1.2E+00	7.6E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
225	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.0E-12	1.3E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
226	2.6E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
227	2.8E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.1E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
228	3.0E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
229	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
230	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
231	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.5E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
232	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
233	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
234	3.3E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
235	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
236	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	3.1E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
237	2.7E+00	1.4E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	5.0E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
238	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	6.1E+00	7.6E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
239	1.9E+01	1.4E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11	6.4E+00	7.6E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
240	1.9E+01	1.4E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	6.6E+00	7.6E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
241	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.9E+00	7.6E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	7.0E-11
242	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	7.2E+00	7.6E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.3E-11
243	2.2E+01	1.4E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	7.5E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
244	1.9E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	6.2E+00	7.6E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
245	2.0E+01	1.4E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	6.4E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
246	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
247	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
248	2.2E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	7.3E+00	7.6E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.4E-11
249	2.3E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.6E+00	7.6E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11
250	2.4E+01	1.4E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11	8.0E+00	7.6E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
251	2.5E+01	1.4E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	8.3E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11
252	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.5E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
253	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	6.8E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.9E-11
254	2.3E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
255	2.4E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.4E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
256	2.5E+01	1.4E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	7.8E+00	7.6E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
257	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11	8.1E+00	7.6E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.3E-11
258	2.7E+01	1.4E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11	8.5E+00	7.6E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11
259	2.8E+01	1.4E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11	8.9E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.1E-11
260	3.0E+01	1.4E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11	9.4E+00	7.6E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.6E-11
261	2.4E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11
262	2.5E+01	1.4E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	7.5E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
263	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	7.9E+00	7.6E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11
264	2.7E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	8.3E+00	7.6E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11
265	2.9E+01	1.4E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
266	3.1E+01	1.4E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11	9.2E+00	7.6E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.4E-11
267	3.2E+01	1.4E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11	9.7E+00	7.6E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
268	3.4E+01	1.4E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11	1.0E+01	7.6E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10
269	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.1E+01	7.6E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
270	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.1E+01	7.6E-07	1.0E-03	8.9E-09	1.6E-01	8.2E-02	1.2E-10
271	2.8E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11	8.0E+00	7.6E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
272	2.9E+01	1.4E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11	8.4E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11
273	3.1E+01	1.4E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11	8.8E+00	7.6E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.0E-11
274	3.3E+01	1.4E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11	9.4E+00	7.6E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.6E-11
275	3.5E+01	1.4E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11	9.9E+00	7.6E-07	1.0E-03	7.8E-09	1.6E-01	8.2E-02	1.0E-10
276	3.7E+01	1.4E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.0E+01	7.6E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
277	3.9E+01	1.4E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.1E+01	7.6E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10
278	4.1E+01	1.4E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
279	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.2E+01	7.6E-07	1.0E-03	9.9E-09	1.6E-01	8.2E-02	1.3E-10
280	4.5E+01	1.4E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.3E-11	1.3E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
281	4.8E+01	1.4E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
282	3.3E+01	1.4E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11	9.0E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11
283	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.4E-11	9.5E+00	7.6E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.7E-11
284	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.0E+01	7.6E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10
285	4.0E+01	1.4E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11	1.1E+01	7.6E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
286	4.2E+01	1.4E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.7E-11	1.1E+01	7.6E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10
287	4.5E+01	1.4E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.2E-11	1.2E+01	7.6E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
288	4.8E+01	1.4E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
289	5.1E+01	1.4E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.3E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
290	5.4E+01	1.4E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
291	5.7E+01	1.4E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.6E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.6E-10
292	5.9E+01	1.4E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
293	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.8E-11	1.1E+01	7.6E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
294	4.6E+01	1.4E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
295	4.9E+01	1.4E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.0E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
296	5.3E+01	1.4E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.7E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
297	5.7E+01	1.4E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
298	6.1E+01	1.4E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
299	6.5E+01	1.4E-07	1.0E-03	9.2E-09	1.6E-01	8.2E-02	1.2E-10	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
300	6.9E+01	1.4E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10	1.8E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10
301	7.3E+01	1.4E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10
302	7.6E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.2E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
303	7.9E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.3E+01	7.6E-07	1.0E-03	1.8E-08	1.6E-01	8.2E-02	2.4E-10
304	5.4E+01	1.4E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	9.9E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
305	5.8E+01	1.4E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
306	6.3E+01	1.4E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
307	6.9E+01	1.4E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.3E-10	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
308	7.4E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10
309	8.0E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10
310	8.7E+01	1.4E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	2.2E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
311	9.2E+01	1.4E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.4E+01	7.6E-07	1.0E-03	1.9E-08	1.6E-01	8.2E-02	2.5E-10
312	9.7E+01	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	2.6E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10
313	1.0E+02	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	2.9E+01	7.6E-07	1.0E-03	2.3E-08	1.6E-01	8.2E-02	2.9E-10
314	1.0E+02	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	3.1E+01	7.6E-07	1.0E-03	2.5E-08	1.6E-01	8.2E-02	3.2E-10
315	9.7E+01	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	3.3E+01	7.6E-07	1.0E-03	2.6E-08	1.6E-01	8.2E-02	3.4E-10
316	7.8E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
317	8.6E+01	1.4E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	2.0E-10
318	9.5E+01	1.4E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.1E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
319	1.0E+02	1.4E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.4E+01	7.6E-07	1.0E-03	1.9E-08	1.6E-01	8.2E-02	2.4E-10
320	1.1E+02	1.4E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.1E-10	2.7E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
321	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	3.0E+01	7.6E-07	1.0E-03	2.4E-08	1.6E-01	8.2E-02	3.1E-10
322	3.6E+01	1.4E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.6E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
323	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.7E-10
324	3.4E+01	1.4E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10
325	1.1E+02	1.4E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10	2.3E+01	7.6E-07	1.0E-03	1.8E-08	1.6E-01	8.2E-02	2.3E-10
326	4.4E+01	1.4E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	2.6E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10
327	4.4E+01	1.4E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	3.0E+01	7.6E-07	1.0E-03	2.4E-08	1.6E-01	8.2E-02	3.1E-10
328	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
329	4.2E+01	1.4E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
330	4.1E+01	1.4E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10
331	5.2E+01	1.4E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.5E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
332	5.2E+01	1.4E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11	1.6E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.6E-10
333	5.0E+01	1.4E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
334	4.8E+01	1.4E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	2.0E-10
335	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
336	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
337	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
338	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
339	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
340	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
341	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
342	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
343	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
344	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
345	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
346	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
347	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
348	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
349	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.7E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.8E-11
350	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
351	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.4E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11
352	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
353	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
354	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
355	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
356	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
357	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
358	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
359	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
360	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.5E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
361	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
362	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
363	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
364	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
365	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.0E-11	4.6E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
366	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
367	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
368	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
369	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
370	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
371	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
372	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11
373	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
374	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
375	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
376	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
377	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.5E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
378	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
379	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
380	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
381	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
382	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
383	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
384	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
385	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
386	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
387	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
388	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
389	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
390	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
391	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
392	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
393	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
394	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
395	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
396	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
397	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
398	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
399	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.9E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
400	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
401	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
402	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
403	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
404	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
405	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
406	1.7E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
407	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
408	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
409	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
410	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
411	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
412	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
413	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
414	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
415	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
416	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
417	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
418	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
419	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
420	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
421	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
422	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.1E-11
423	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
424	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
425	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
426	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
427	1.2E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
428	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
429	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
430	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	3.9E-11
431	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
432	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
433	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
434	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
435	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
436	1.2E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
437	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
438	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.7E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
439	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
440	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
441	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
442	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
443	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
444	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
445	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
446	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
447	1.1E+01	1.4E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	3.2E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11
448	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
450	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
451	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
452	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.6E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
453	6.0E+00	1.4E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
454	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
455	7.8E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.1E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
456	7.6E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.4E+00	7.6E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
457	7.3E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.6E+00	7.6E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
458	6.9E+00	1.4E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11	5.8E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
459	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	6.0E+00	7.6E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
460	9.6E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	6.4E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
461	9.1E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
462	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
463	5.6E+00	1.4E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
464	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
465	5.3E+00	1.4E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
466	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
467	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
468	4.3E+00	1.4E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
469	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
470	6.1E+00	1.4E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
471	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
472	4.8E+00	1.4E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
473	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
474	6.9E+00	1.4E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
475	4.4E+00	1.4E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
476	5.3E+00	1.4E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
477	6.4E+00	1.4E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11

5. Risk by Construction Phase

c. Risk From Grading - Mitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	4.6E-04	1.0E-03	1.4E-07	1.6E-01	8.2E-02	1.8E-09	2.7E-05	1.3E-04
2	3.0E-01	4.6E-04	1.0E-03	1.4E-07	1.6E-01	8.2E-02	1.9E-09	2.8E-05	1.4E-04
3	3.1E-01	4.6E-04	1.0E-03	1.5E-07	1.6E-01	8.2E-02	1.9E-09	2.9E-05	1.5E-04
4	3.2E-01	4.6E-04	1.0E-03	1.5E-07	1.6E-01	8.2E-02	2.0E-09	3.0E-05	1.5E-04
5	3.3E-01	4.6E-04	1.0E-03	1.6E-07	1.6E-01	8.2E-02	2.0E-09	3.1E-05	1.5E-04
6	3.4E-01	4.6E-04	1.0E-03	1.6E-07	1.6E-01	8.2E-02	2.1E-09	3.2E-05	1.6E-04
7	3.5E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.3E-05	1.6E-04
8	3.6E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.4E-05	1.7E-04
9	3.7E-01	4.6E-04	1.0E-03	1.8E-07	1.6E-01	8.2E-02	2.3E-09	3.5E-05	1.8E-04
10	3.8E-01	4.6E-04	1.0E-03	1.8E-07	1.6E-01	8.2E-02	2.4E-09	3.6E-05	1.8E-04
11	4.0E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.5E-09	3.8E-05	1.9E-04
12	4.1E-01	4.6E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.6E-09	3.9E-05	2.0E-04
13	4.3E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.0E-05	2.0E-04
14	4.3E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.1E-05	2.1E-04
15	4.3E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.1E-05	2.0E-04
16	4.2E-01	4.6E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.6E-09	4.0E-05	2.0E-04
17	3.2E-01	4.6E-04	1.0E-03	1.5E-07	1.6E-01	8.2E-02	2.0E-09	3.0E-05	1.5E-04
18	3.4E-01	4.6E-04	1.0E-03	1.6E-07	1.6E-01	8.2E-02	2.1E-09	3.2E-05	1.6E-04
19	3.6E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.3E-05	1.7E-04
20	3.7E-01	4.6E-04	1.0E-03	1.8E-07	1.6E-01	8.2E-02	2.3E-09	3.5E-05	1.8E-04
21	3.9E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.4E-09	3.6E-05	1.8E-04
22	4.0E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.5E-09	3.8E-05	1.9E-04
23	5.2E-01	4.6E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.2E-09	4.9E-05	2.5E-04
24	5.3E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.3E-09	5.1E-05	2.5E-04
25	5.3E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.3E-09	5.0E-05	2.5E-04
26	5.2E-01	4.6E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.2E-09	4.9E-05	2.4E-04
27	5.0E-01	4.6E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.1E-09	4.7E-05	2.4E-04
28	3.5E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.3E-05	1.7E-04
29	4.1E-01	4.6E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.5E-09	3.8E-05	1.9E-04
30	4.3E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.1E-05	2.0E-04
31	4.6E-01	4.6E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.9E-09	4.3E-05	2.2E-04
32	4.8E-01	4.6E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	3.0E-09	4.6E-05	2.3E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	4.6E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.1E-09	4.8E-05	2.4E-04
34	5.2E-01	4.6E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.2E-09	4.9E-05	2.5E-04
35	5.5E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.4E-09	5.2E-05	2.6E-04
36	5.7E-01	4.6E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.6E-09	5.4E-05	2.7E-04
37	6.3E-01	4.6E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	4.0E-09	6.0E-05	3.0E-04
38	6.6E-01	4.6E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.1E-09	6.2E-05	3.1E-04
39	6.7E-01	4.6E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.2E-09	6.4E-05	3.2E-04
40	6.5E-01	4.6E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	4.0E-09	6.2E-05	3.1E-04
41	6.2E-01	4.6E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.9E-09	5.9E-05	3.0E-04
42	5.9E-01	4.6E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.7E-09	5.6E-05	2.8E-04
43	3.9E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.4E-09	3.6E-05	1.8E-04
44	4.3E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.0E-05	2.0E-04
45	4.7E-01	4.6E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	2.9E-09	4.4E-05	2.2E-04
46	5.5E-01	4.6E-04	1.0E-03	2.7E-07	1.6E-01	8.2E-02	3.4E-09	5.2E-05	2.6E-04
47	5.9E-01	4.6E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.7E-09	5.5E-05	2.8E-04
48	6.2E-01	4.6E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.9E-09	5.9E-05	2.9E-04
49	6.5E-01	4.6E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.1E-09	6.1E-05	3.1E-04
50	6.9E-01	4.6E-04	1.0E-03	3.3E-07	1.6E-01	8.2E-02	4.3E-09	6.5E-05	3.3E-04
51	7.3E-01	4.6E-04	1.0E-03	3.5E-07	1.6E-01	8.2E-02	4.6E-09	6.9E-05	3.4E-04
52	8.2E-01	4.6E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.1E-09	7.8E-05	3.9E-04
53	8.6E-01	4.6E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.3E-09	8.1E-05	4.0E-04
54	8.8E-01	4.6E-04	1.0E-03	4.2E-07	1.6E-01	8.2E-02	5.5E-09	8.3E-05	4.2E-04
55	8.9E-01	4.6E-04	1.0E-03	4.3E-07	1.6E-01	8.2E-02	5.5E-09	8.4E-05	4.2E-04
56	8.9E-01	4.6E-04	1.0E-03	4.3E-07	1.6E-01	8.2E-02	5.5E-09	8.4E-05	4.2E-04
57	8.1E-01	4.6E-04	1.0E-03	3.9E-07	1.6E-01	8.2E-02	5.0E-09	7.7E-05	3.8E-04
58	7.6E-01	4.6E-04	1.0E-03	3.7E-07	1.6E-01	8.2E-02	4.7E-09	7.2E-05	3.6E-04
59	7.0E-01	4.6E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.7E-05	3.4E-04
60	4.2E-01	4.6E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.6E-09	3.9E-05	2.0E-04
61	4.7E-01	4.6E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	2.9E-09	4.4E-05	2.2E-04
62	5.3E-01	4.6E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.3E-09	4.9E-05	2.5E-04
63	5.9E-01	4.6E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.7E-09	5.5E-05	2.8E-04
64	6.6E-01	4.6E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.1E-09	6.1E-05	3.1E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	4.6E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.2E-09	7.9E-05	4.0E-04
66	9.1E-01	4.6E-04	1.0E-03	4.4E-07	1.6E-01	8.2E-02	5.7E-09	8.5E-05	4.3E-04
67	9.7E-01	4.6E-04	1.0E-03	4.7E-07	1.6E-01	8.2E-02	6.1E-09	9.1E-05	4.6E-04
68	1.1E+00	4.6E-04	1.0E-03	5.4E-07	1.6E-01	8.2E-02	7.0E-09	1.1E-04	5.3E-04
69	1.2E+00	4.6E-04	1.0E-03	5.7E-07	1.6E-01	8.2E-02	7.3E-09	1.1E-04	5.5E-04
70	1.2E+00	4.6E-04	1.0E-03	5.8E-07	1.6E-01	8.2E-02	7.5E-09	1.1E-04	5.7E-04
71	1.2E+00	4.6E-04	1.0E-03	5.8E-07	1.6E-01	8.2E-02	7.5E-09	1.1E-04	5.7E-04
72	1.2E+00	4.6E-04	1.0E-03	5.8E-07	1.6E-01	8.2E-02	7.4E-09	1.1E-04	5.7E-04
73	4.4E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.8E-09	4.1E-05	2.1E-04
74	5.0E-01	4.6E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.1E-09	4.7E-05	2.4E-04
75	5.8E-01	4.6E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.6E-09	5.4E-05	2.7E-04
76	6.7E-01	4.6E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.2E-09	6.2E-05	3.1E-04
77	7.7E-01	4.6E-04	1.0E-03	3.7E-07	1.6E-01	8.2E-02	4.8E-09	7.2E-05	3.6E-04
78	8.8E-01	4.6E-04	1.0E-03	4.3E-07	1.6E-01	8.2E-02	5.5E-09	8.3E-05	4.1E-04
79	1.0E+00	4.6E-04	1.0E-03	4.8E-07	1.6E-01	8.2E-02	6.2E-09	9.4E-05	4.7E-04
80	1.4E+00	4.6E-04	1.0E-03	6.6E-07	1.6E-01	8.2E-02	8.5E-09	1.3E-04	6.4E-04
81	1.6E+00	4.6E-04	1.0E-03	7.9E-07	1.6E-01	8.2E-02	1.0E-08	1.5E-04	7.6E-04
82	1.7E+00	4.6E-04	1.0E-03	8.3E-07	1.6E-01	8.2E-02	1.1E-08	1.6E-04	8.1E-04
83	1.7E+00	4.6E-04	1.0E-03	8.4E-07	1.6E-01	8.2E-02	1.1E-08	1.6E-04	8.2E-04
84	1.7E+00	4.6E-04	1.0E-03	8.4E-07	1.6E-01	8.2E-02	1.1E-08	1.6E-04	8.2E-04
85	1.7E+00	4.6E-04	1.0E-03	8.0E-07	1.6E-01	8.2E-02	1.0E-08	1.6E-04	7.9E-04
86	4.5E-01	4.6E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
87	5.2E-01	4.6E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.3E-09	4.9E-05	2.5E-04
88	6.2E-01	4.6E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.9E-09	5.8E-05	2.9E-04
89	7.4E-01	4.6E-04	1.0E-03	3.6E-07	1.6E-01	8.2E-02	4.6E-09	6.9E-05	3.4E-04
90	8.8E-01	4.6E-04	1.0E-03	4.3E-07	1.6E-01	8.2E-02	5.5E-09	8.2E-05	4.1E-04
91	1.1E+00	4.6E-04	1.0E-03	5.1E-07	1.6E-01	8.2E-02	6.6E-09	9.9E-05	4.9E-04
92	1.3E+00	4.6E-04	1.0E-03	6.1E-07	1.6E-01	8.2E-02	7.9E-09	1.2E-04	5.9E-04
93	1.5E+00	4.6E-04	1.0E-03	7.3E-07	1.6E-01	8.2E-02	9.4E-09	1.4E-04	7.0E-04
94	1.8E+00	4.6E-04	1.0E-03	8.6E-07	1.6E-01	8.2E-02	1.1E-08	1.7E-04	8.3E-04
95	2.6E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.6E-08	2.5E-04	1.2E-03
96	2.4E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.5E-08	2.3E-04	1.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	4.6E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.8E-09	4.3E-05	2.1E-04
98	5.4E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.3E-09	5.0E-05	2.5E-04
99	6.4E-01	4.6E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	4.0E-09	6.0E-05	3.0E-04
100	1.2E+00	4.6E-04	1.0E-03	5.9E-07	1.6E-01	8.2E-02	7.6E-09	1.1E-04	5.7E-04
101	1.5E+00	4.6E-04	1.0E-03	7.5E-07	1.6E-01	8.2E-02	9.7E-09	1.4E-04	7.2E-04
102	2.0E+00	4.6E-04	1.0E-03	9.7E-07	1.6E-01	8.2E-02	1.3E-08	1.9E-04	9.3E-04
103	2.6E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.6E-08	2.5E-04	1.2E-03
104	4.5E-01	4.6E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
105	5.3E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.3E-09	5.0E-05	2.5E-04
106	6.4E-01	4.6E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	4.0E-09	6.0E-05	3.0E-04
107	2.5E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.6E-08	2.3E-04	1.2E-03
108	3.8E+00	4.6E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.4E-08	3.5E-04	1.8E-03
109	4.3E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.0E-05	2.0E-04
110	5.1E-01	4.6E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.2E-09	4.8E-05	2.4E-04
111	6.2E-01	4.6E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.8E-09	5.8E-05	2.9E-04
112	2.8E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
113	4.7E+00	4.6E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	2.9E-08	4.3E-04	2.2E-03
114	4.0E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.5E-09	3.8E-05	1.9E-04
115	4.8E-01	4.6E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	3.0E-09	4.5E-05	2.2E-04
116	5.8E-01	4.6E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.6E-09	5.4E-05	2.7E-04
117	7.2E-01	4.6E-04	1.0E-03	3.5E-07	1.6E-01	8.2E-02	4.5E-09	6.7E-05	3.4E-04
118	2.7E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.5E-04	1.2E-03
119	4.7E+00	4.6E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.4E-04	2.2E-03
120	3.7E-01	4.6E-04	1.0E-03	1.8E-07	1.6E-01	8.2E-02	2.3E-09	3.5E-05	1.8E-04
121	4.4E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.8E-09	4.1E-05	2.1E-04
122	5.3E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.3E-09	5.0E-05	2.5E-04
123	6.6E-01	4.6E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.1E-09	6.1E-05	3.1E-04
124	2.3E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.2E-04	1.1E-03
125	4.0E+00	4.6E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.5E-08	3.7E-04	1.9E-03
126	3.5E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.3E-05	1.6E-04
127	4.1E-01	4.6E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.5E-09	3.8E-05	1.9E-04
128	4.9E-01	4.6E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.0E-09	4.6E-05	2.3E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	4.6E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.7E-09	5.6E-05	2.8E-04
130	7.4E-01	4.6E-04	1.0E-03	3.6E-07	1.6E-01	8.2E-02	4.6E-09	7.0E-05	3.5E-04
131	9.7E-01	4.6E-04	1.0E-03	4.7E-07	1.6E-01	8.2E-02	6.0E-09	9.0E-05	4.5E-04
132	1.3E+00	4.6E-04	1.0E-03	6.3E-07	1.6E-01	8.2E-02	8.2E-09	1.2E-04	6.1E-04
133	1.9E+00	4.6E-04	1.0E-03	9.2E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	8.9E-04
134	3.0E+00	4.6E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
135	5.4E+00	4.6E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	5.0E-04	2.5E-03
136	3.2E-01	4.6E-04	1.0E-03	1.6E-07	1.6E-01	8.2E-02	2.0E-09	3.0E-05	1.5E-04
137	3.8E-01	4.6E-04	1.0E-03	1.8E-07	1.6E-01	8.2E-02	2.4E-09	3.5E-05	1.8E-04
138	4.5E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
139	5.4E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.3E-09	5.0E-05	2.5E-04
140	6.6E-01	4.6E-04	1.0E-03	3.2E-07	1.6E-01	8.2E-02	4.1E-09	6.2E-05	3.1E-04
141	8.4E-01	4.6E-04	1.0E-03	4.1E-07	1.6E-01	8.2E-02	5.3E-09	7.9E-05	3.9E-04
142	1.1E+00	4.6E-04	1.0E-03	5.3E-07	1.6E-01	8.2E-02	6.9E-09	1.0E-04	5.2E-04
143	1.5E+00	4.6E-04	1.0E-03	7.3E-07	1.6E-01	8.2E-02	9.4E-09	1.4E-04	7.0E-04
144	2.1E+00	4.6E-04	1.0E-03	1.0E-06	1.6E-01	8.2E-02	1.3E-08	2.0E-04	9.8E-04
145	3.1E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.9E-04	1.4E-03
146	3.0E-01	4.6E-04	1.0E-03	1.5E-07	1.6E-01	8.2E-02	1.9E-09	2.8E-05	1.4E-04
147	3.5E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.3E-05	1.6E-04
148	4.1E-01	4.6E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.5E-09	3.8E-05	1.9E-04
149	4.8E-01	4.6E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	3.0E-09	4.5E-05	2.3E-04
150	5.9E-01	4.6E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.7E-09	5.5E-05	2.7E-04
151	7.2E-01	4.6E-04	1.0E-03	3.5E-07	1.6E-01	8.2E-02	4.5E-09	6.8E-05	3.4E-04
152	9.0E-01	4.6E-04	1.0E-03	4.3E-07	1.6E-01	8.2E-02	5.6E-09	8.4E-05	4.2E-04
153	1.2E+00	4.6E-04	1.0E-03	5.6E-07	1.6E-01	8.2E-02	7.2E-09	1.1E-04	5.4E-04
154	1.5E+00	4.6E-04	1.0E-03	7.1E-07	1.6E-01	8.2E-02	9.1E-09	1.4E-04	6.8E-04
155	1.9E+00	4.6E-04	1.0E-03	9.1E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	8.8E-04
156	2.8E-01	4.6E-04	1.0E-03	1.3E-07	1.6E-01	8.2E-02	1.7E-09	2.6E-05	1.3E-04
157	3.2E-01	4.6E-04	1.0E-03	1.5E-07	1.6E-01	8.2E-02	2.0E-09	3.0E-05	1.5E-04
158	3.7E-01	4.6E-04	1.0E-03	1.8E-07	1.6E-01	8.2E-02	2.3E-09	3.5E-05	1.7E-04
159	4.3E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.1E-05	2.0E-04
160	5.2E-01	4.6E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.2E-09	4.8E-05	2.4E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	4.6E-04	1.0E-03	3.0E-07	1.6E-01	8.2E-02	3.9E-09	5.8E-05	2.9E-04
162	7.4E-01	4.6E-04	1.0E-03	3.6E-07	1.6E-01	8.2E-02	4.6E-09	7.0E-05	3.5E-04
163	9.0E-01	4.6E-04	1.0E-03	4.3E-07	1.6E-01	8.2E-02	5.6E-09	8.4E-05	4.2E-04
164	1.1E+00	4.6E-04	1.0E-03	5.2E-07	1.6E-01	8.2E-02	6.7E-09	1.0E-04	5.0E-04
165	1.3E+00	4.6E-04	1.0E-03	6.3E-07	1.6E-01	8.2E-02	8.2E-09	1.2E-04	6.1E-04
166	2.6E-01	4.6E-04	1.0E-03	1.3E-07	1.6E-01	8.2E-02	1.6E-09	2.4E-05	1.2E-04
167	2.9E-01	4.6E-04	1.0E-03	1.4E-07	1.6E-01	8.2E-02	1.8E-09	2.8E-05	1.4E-04
168	3.4E-01	4.6E-04	1.0E-03	1.6E-07	1.6E-01	8.2E-02	2.1E-09	3.2E-05	1.6E-04
169	3.9E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.4E-09	3.6E-05	1.8E-04
170	4.5E-01	4.6E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
171	5.3E-01	4.6E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.3E-09	4.9E-05	2.5E-04
172	6.1E-01	4.6E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.8E-09	5.7E-05	2.9E-04
173	7.1E-01	4.6E-04	1.0E-03	3.4E-07	1.6E-01	8.2E-02	4.4E-09	6.6E-05	3.3E-04
174	8.2E-01	4.6E-04	1.0E-03	3.9E-07	1.6E-01	8.2E-02	5.1E-09	7.6E-05	3.8E-04
175	9.5E-01	4.6E-04	1.0E-03	4.6E-07	1.6E-01	8.2E-02	5.9E-09	8.9E-05	4.5E-04
176	2.4E-01	4.6E-04	1.0E-03	1.2E-07	1.6E-01	8.2E-02	1.5E-09	2.3E-05	1.1E-04
177	2.7E-01	4.6E-04	1.0E-03	1.3E-07	1.6E-01	8.2E-02	1.7E-09	2.5E-05	1.3E-04
178	3.0E-01	4.6E-04	1.0E-03	1.5E-07	1.6E-01	8.2E-02	1.9E-09	2.9E-05	1.4E-04
179	3.5E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.2E-05	1.6E-04
180	3.9E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.5E-09	3.7E-05	1.9E-04
181	4.5E-01	4.6E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
182	5.1E-01	4.6E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.2E-09	4.8E-05	2.4E-04
183	5.7E-01	4.6E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.6E-09	5.4E-05	2.7E-04
184	6.4E-01	4.6E-04	1.0E-03	3.1E-07	1.6E-01	8.2E-02	4.0E-09	6.0E-05	3.0E-04
185	7.2E-01	4.6E-04	1.0E-03	3.5E-07	1.6E-01	8.2E-02	4.5E-09	6.8E-05	3.4E-04
186	5.9E-01	4.6E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.7E-09	5.5E-05	2.8E-04
187	5.2E-01	4.6E-04	1.0E-03	2.5E-07	1.6E-01	8.2E-02	3.3E-09	5.0E-05	2.5E-04
188	4.7E-01	4.6E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.9E-09	4.4E-05	2.2E-04
189	2.2E-01	4.6E-04	1.0E-03	1.1E-07	1.6E-01	8.2E-02	1.4E-09	2.1E-05	1.0E-04
190	2.5E-01	4.6E-04	1.0E-03	1.2E-07	1.6E-01	8.2E-02	1.5E-09	2.3E-05	1.2E-04
191	2.7E-01	4.6E-04	1.0E-03	1.3E-07	1.6E-01	8.2E-02	1.7E-09	2.6E-05	1.3E-04
192	3.1E-01	4.6E-04	1.0E-03	1.5E-07	1.6E-01	8.2E-02	1.9E-09	2.9E-05	1.4E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.2E-05	1.6E-04
194	3.8E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.4E-09	3.6E-05	1.8E-04
195	4.3E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.0E-05	2.0E-04
196	4.7E-01	4.6E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	2.9E-09	4.4E-05	2.2E-04
197	5.6E-01	4.6E-04	1.0E-03	2.7E-07	1.6E-01	8.2E-02	3.5E-09	5.3E-05	2.7E-04
198	6.1E-01	4.6E-04	1.0E-03	2.9E-07	1.6E-01	8.2E-02	3.8E-09	5.7E-05	2.9E-04
199	5.7E-01	4.6E-04	1.0E-03	2.8E-07	1.6E-01	8.2E-02	3.6E-09	5.4E-05	2.7E-04
200	5.3E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.3E-09	5.0E-05	2.5E-04
201	4.9E-01	4.6E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.1E-09	4.7E-05	2.3E-04
202	4.5E-01	4.6E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.8E-09	4.3E-05	2.1E-04
203	4.1E-01	4.6E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.5E-09	3.9E-05	1.9E-04
204	2.0E-01	4.6E-04	1.0E-03	9.9E-08	1.6E-01	8.2E-02	1.3E-09	1.9E-05	9.6E-05
205	2.3E-01	4.6E-04	1.0E-03	1.1E-07	1.6E-01	8.2E-02	1.4E-09	2.1E-05	1.1E-04
206	2.5E-01	4.6E-04	1.0E-03	1.2E-07	1.6E-01	8.2E-02	1.5E-09	2.3E-05	1.2E-04
207	2.7E-01	4.6E-04	1.0E-03	1.3E-07	1.6E-01	8.2E-02	1.7E-09	2.6E-05	1.3E-04
208	3.0E-01	4.6E-04	1.0E-03	1.5E-07	1.6E-01	8.2E-02	1.9E-09	2.8E-05	1.4E-04
209	3.3E-01	4.6E-04	1.0E-03	1.6E-07	1.6E-01	8.2E-02	2.1E-09	3.1E-05	1.6E-04
210	3.6E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.3E-09	3.4E-05	1.7E-04
211	4.2E-01	4.6E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.6E-09	4.0E-05	2.0E-04
212	4.5E-01	4.6E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
213	5.0E-01	4.6E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.1E-09	4.7E-05	2.4E-04
214	5.0E-01	4.6E-04	1.0E-03	2.4E-07	1.6E-01	8.2E-02	3.1E-09	4.7E-05	2.3E-04
215	4.9E-01	4.6E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	3.0E-09	4.6E-05	2.3E-04
216	4.7E-01	4.6E-04	1.0E-03	2.3E-07	1.6E-01	8.2E-02	2.9E-09	4.4E-05	2.2E-04
217	4.4E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
218	4.2E-01	4.6E-04	1.0E-03	2.0E-07	1.6E-01	8.2E-02	2.6E-09	3.9E-05	2.0E-04
219	3.9E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.4E-09	3.7E-05	1.8E-04
220	3.5E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.4E-05	1.7E-04
221	1.9E-01	4.6E-04	1.0E-03	9.1E-08	1.6E-01	8.2E-02	1.2E-09	1.8E-05	8.9E-05
222	2.1E-01	4.6E-04	1.0E-03	9.9E-08	1.6E-01	8.2E-02	1.3E-09	1.9E-05	9.7E-05
223	2.2E-01	4.6E-04	1.0E-03	1.1E-07	1.6E-01	8.2E-02	1.4E-09	2.1E-05	1.1E-04
224	2.5E-01	4.6E-04	1.0E-03	1.2E-07	1.6E-01	8.2E-02	1.5E-09	2.3E-05	1.2E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	4.6E-04	1.0E-03	1.3E-07	1.6E-01	8.2E-02	1.7E-09	2.5E-05	1.3E-04
226	3.1E-01	4.6E-04	1.0E-03	1.5E-07	1.6E-01	8.2E-02	1.9E-09	2.9E-05	1.5E-04
227	3.3E-01	4.6E-04	1.0E-03	1.6E-07	1.6E-01	8.2E-02	2.1E-09	3.1E-05	1.6E-04
228	3.5E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.3E-05	1.7E-04
229	3.7E-01	4.6E-04	1.0E-03	1.8E-07	1.6E-01	8.2E-02	2.3E-09	3.5E-05	1.7E-04
230	4.0E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.5E-09	3.8E-05	1.9E-04
231	4.0E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.5E-09	3.8E-05	1.9E-04
232	4.0E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.5E-09	3.8E-05	1.9E-04
233	3.9E-01	4.6E-04	1.0E-03	1.9E-07	1.6E-01	8.2E-02	2.4E-09	3.7E-05	1.8E-04
234	3.7E-01	4.6E-04	1.0E-03	1.8E-07	1.6E-01	8.2E-02	2.3E-09	3.5E-05	1.8E-04
235	3.5E-01	4.6E-04	1.0E-03	1.7E-07	1.6E-01	8.2E-02	2.2E-09	3.3E-05	1.7E-04
236	3.3E-01	4.6E-04	1.0E-03	1.6E-07	1.6E-01	8.2E-02	2.1E-09	3.1E-05	1.6E-04
237	3.1E-01	4.6E-04	1.0E-03	1.5E-07	1.6E-01	8.2E-02	1.9E-09	2.9E-05	1.5E-04
238	1.8E+00	4.6E-04	1.0E-03	8.7E-07	1.6E-01	8.2E-02	1.1E-08	1.7E-04	8.4E-04
239	1.8E+00	4.6E-04	1.0E-03	8.8E-07	1.6E-01	8.2E-02	1.1E-08	1.7E-04	8.6E-04
240	1.9E+00	4.6E-04	1.0E-03	9.0E-07	1.6E-01	8.2E-02	1.2E-08	1.7E-04	8.7E-04
241	1.9E+00	4.6E-04	1.0E-03	9.1E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	8.8E-04
242	1.9E+00	4.6E-04	1.0E-03	9.2E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	9.0E-04
243	1.9E+00	4.6E-04	1.0E-03	9.4E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	9.1E-04
244	2.0E+00	4.6E-04	1.0E-03	9.4E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	9.2E-04
245	2.0E+00	4.6E-04	1.0E-03	9.6E-07	1.6E-01	8.2E-02	1.2E-08	1.9E-04	9.3E-04
246	2.0E+00	4.6E-04	1.0E-03	9.8E-07	1.6E-01	8.2E-02	1.3E-08	1.9E-04	9.5E-04
247	2.1E+00	4.6E-04	1.0E-03	1.0E-06	1.6E-01	8.2E-02	1.3E-08	1.9E-04	9.7E-04
248	2.1E+00	4.6E-04	1.0E-03	1.0E-06	1.6E-01	8.2E-02	1.3E-08	2.0E-04	9.8E-04
249	2.1E+00	4.6E-04	1.0E-03	1.0E-06	1.6E-01	8.2E-02	1.3E-08	2.0E-04	1.0E-03
250	2.2E+00	4.6E-04	1.0E-03	1.0E-06	1.6E-01	8.2E-02	1.3E-08	2.0E-04	1.0E-03
251	2.2E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.0E-04	1.0E-03
252	2.2E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.0E-04	1.0E-03
253	2.2E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.1E-04	1.0E-03
254	2.3E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.1E-04	1.1E-03
255	2.3E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.2E-04	1.1E-03
256	2.3E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.5E-08	2.2E-04	1.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.5E-08	2.2E-04	1.1E-03
258	2.4E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.5E-08	2.3E-04	1.1E-03
259	2.4E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.5E-08	2.3E-04	1.1E-03
260	2.5E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.5E-08	2.3E-04	1.2E-03
261	2.5E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.6E-08	2.4E-04	1.2E-03
262	2.6E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.6E-08	2.4E-04	1.2E-03
263	2.6E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.6E-08	2.4E-04	1.2E-03
264	2.6E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.6E-08	2.5E-04	1.2E-03
265	2.7E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.5E-04	1.3E-03
266	2.7E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.5E-04	1.3E-03
267	2.7E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
268	2.7E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
269	2.8E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
270	2.8E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
271	2.9E+00	4.6E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.7E-04	1.4E-03
272	3.0E+00	4.6E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.8E-04	1.4E-03
273	3.0E+00	4.6E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
274	3.0E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
275	3.0E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.9E-04	1.4E-03
276	3.1E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.9E-04	1.4E-03
277	3.1E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.9E-04	1.4E-03
278	3.1E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.9E-04	1.4E-03
279	3.1E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.9E-04	1.4E-03
280	3.0E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
281	3.0E+00	4.6E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
282	3.4E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.1E-04	1.6E-03
283	3.4E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
284	3.4E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
285	3.4E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
286	3.4E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
287	3.4E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
288	3.4E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
290	3.3E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.1E-04	1.6E-03
291	3.3E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.1E-04	1.6E-03
292	3.3E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.0E-08	3.1E-04	1.5E-03
293	3.9E+00	4.6E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
294	3.9E+00	4.6E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
295	3.9E+00	4.6E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
296	3.8E+00	4.6E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
297	3.8E+00	4.6E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.5E-04	1.8E-03
298	3.7E+00	4.6E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.5E-04	1.7E-03
299	3.7E+00	4.6E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.4E-04	1.7E-03
300	3.6E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.2E-08	3.4E-04	1.7E-03
301	3.5E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.2E-08	3.3E-04	1.7E-03
302	3.5E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.2E-08	3.3E-04	1.6E-03
303	3.4E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
304	4.4E+00	4.6E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.1E-04	2.0E-03
305	4.3E+00	4.6E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
306	4.2E+00	4.6E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	4.0E-04	2.0E-03
307	4.2E+00	4.6E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	2.0E-03
308	4.1E+00	4.6E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.5E-08	3.8E-04	1.9E-03
309	4.0E+00	4.6E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.5E-08	3.8E-04	1.9E-03
310	3.9E+00	4.6E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.4E-08	3.7E-04	1.9E-03
311	3.8E+00	4.6E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
312	3.7E+00	4.6E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.5E-04	1.8E-03
313	3.6E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.3E-08	3.4E-04	1.7E-03
314	3.5E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.2E-08	3.3E-04	1.7E-03
315	3.4E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
316	4.7E+00	4.6E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	2.9E-08	4.4E-04	2.2E-03
317	4.6E+00	4.6E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.9E-08	4.3E-04	2.2E-03
318	4.5E+00	4.6E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.8E-08	4.2E-04	2.1E-03
319	4.4E+00	4.6E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.1E-04	2.1E-03
320	4.2E+00	4.6E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	4.0E-04	2.0E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	4.6E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	1.9E-03
322	4.0E+00	4.6E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.5E-08	3.7E-04	1.9E-03
323	3.8E+00	4.6E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
324	3.7E+00	4.6E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.5E-04	1.7E-03
325	5.0E+00	4.6E-04	1.0E-03	2.4E-06	1.6E-01	8.2E-02	3.1E-08	4.7E-04	2.4E-03
326	4.9E+00	4.6E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.6E-04	2.3E-03
327	4.7E+00	4.6E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	2.9E-08	4.4E-04	2.2E-03
328	4.5E+00	4.6E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.8E-08	4.2E-04	2.1E-03
329	4.4E+00	4.6E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.1E-04	2.0E-03
330	4.2E+00	4.6E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	2.0E-03
331	5.2E+00	4.6E-04	1.0E-03	2.5E-06	1.6E-01	8.2E-02	3.2E-08	4.9E-04	2.4E-03
332	5.0E+00	4.6E-04	1.0E-03	2.4E-06	1.6E-01	8.2E-02	3.1E-08	4.7E-04	2.3E-03
333	4.8E+00	4.6E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.5E-04	2.3E-03
334	4.6E+00	4.6E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.9E-08	4.3E-04	2.2E-03
335	1.7E+00	4.6E-04	1.0E-03	8.4E-07	1.6E-01	8.2E-02	1.1E-08	1.6E-04	8.1E-04
336	1.8E+00	4.6E-04	1.0E-03	8.6E-07	1.6E-01	8.2E-02	1.1E-08	1.7E-04	8.3E-04
337	1.8E+00	4.6E-04	1.0E-03	8.8E-07	1.6E-01	8.2E-02	1.1E-08	1.7E-04	8.5E-04
338	1.9E+00	4.6E-04	1.0E-03	9.0E-07	1.6E-01	8.2E-02	1.2E-08	1.7E-04	8.7E-04
339	1.9E+00	4.6E-04	1.0E-03	9.1E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	8.8E-04
340	1.9E+00	4.6E-04	1.0E-03	9.3E-07	1.6E-01	8.2E-02	1.2E-08	1.8E-04	9.0E-04
341	2.0E+00	4.6E-04	1.0E-03	9.6E-07	1.6E-01	8.2E-02	1.2E-08	1.9E-04	9.3E-04
342	2.0E+00	4.6E-04	1.0E-03	9.9E-07	1.6E-01	8.2E-02	1.3E-08	1.9E-04	9.6E-04
343	2.0E+00	4.6E-04	1.0E-03	9.9E-07	1.6E-01	8.2E-02	1.3E-08	1.9E-04	9.5E-04
344	2.1E+00	4.6E-04	1.0E-03	1.0E-06	1.6E-01	8.2E-02	1.3E-08	2.0E-04	9.8E-04
345	2.2E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.0E-04	1.0E-03
346	2.2E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.1E-04	1.0E-03
347	2.2E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.1E-04	1.0E-03
348	2.3E+00	4.6E-04	1.0E-03	1.1E-06	1.6E-01	8.2E-02	1.4E-08	2.2E-04	1.1E-03
349	2.4E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.5E-08	2.2E-04	1.1E-03
350	2.5E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.5E-08	2.3E-04	1.2E-03
351	2.4E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.5E-08	2.3E-04	1.1E-03
352	2.5E+00	4.6E-04	1.0E-03	1.2E-06	1.6E-01	8.2E-02	1.6E-08	2.4E-04	1.2E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.6E-08	2.5E-04	1.2E-03
354	2.7E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
355	2.6E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.5E-04	1.2E-03
356	2.8E+00	4.6E-04	1.0E-03	1.3E-06	1.6E-01	8.2E-02	1.7E-08	2.6E-04	1.3E-03
357	2.9E+00	4.6E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.7E-04	1.4E-03
358	3.0E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.8E-04	1.4E-03
359	2.9E+00	4.6E-04	1.0E-03	1.4E-06	1.6E-01	8.2E-02	1.8E-08	2.7E-04	1.4E-03
360	3.1E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	1.9E-08	2.9E-04	1.4E-03
361	3.2E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.0E-08	3.0E-04	1.5E-03
362	3.4E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
363	3.2E+00	4.6E-04	1.0E-03	1.5E-06	1.6E-01	8.2E-02	2.0E-08	3.0E-04	1.5E-03
364	3.4E+00	4.6E-04	1.0E-03	1.6E-06	1.6E-01	8.2E-02	2.1E-08	3.2E-04	1.6E-03
365	3.6E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.2E-08	3.3E-04	1.7E-03
366	3.8E+00	4.6E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.4E-08	3.5E-04	1.8E-03
367	3.5E+00	4.6E-04	1.0E-03	1.7E-06	1.6E-01	8.2E-02	2.2E-08	3.3E-04	1.6E-03
368	3.7E+00	4.6E-04	1.0E-03	1.8E-06	1.6E-01	8.2E-02	2.3E-08	3.5E-04	1.7E-03
369	4.0E+00	4.6E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.5E-08	3.7E-04	1.9E-03
370	4.3E+00	4.6E-04	1.0E-03	2.1E-06	1.6E-01	8.2E-02	2.7E-08	4.0E-04	2.0E-03
371	3.8E+00	4.6E-04	1.0E-03	1.9E-06	1.6E-01	8.2E-02	2.4E-08	3.6E-04	1.8E-03
372	4.1E+00	4.6E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	1.9E-03
373	4.5E+00	4.6E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.8E-08	4.2E-04	2.1E-03
374	4.8E+00	4.6E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	3.0E-08	4.5E-04	2.3E-03
375	4.2E+00	4.6E-04	1.0E-03	2.0E-06	1.6E-01	8.2E-02	2.6E-08	3.9E-04	1.9E-03
376	4.6E+00	4.6E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.9E-08	4.2E-04	2.1E-03
377	5.0E+00	4.6E-04	1.0E-03	2.4E-06	1.6E-01	8.2E-02	3.1E-08	4.6E-04	2.3E-03
378	5.5E+00	4.6E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.4E-08	5.1E-04	2.5E-03
379	4.5E+00	4.6E-04	1.0E-03	2.2E-06	1.6E-01	8.2E-02	2.8E-08	4.2E-04	2.1E-03
380	5.0E+00	4.6E-04	1.0E-03	2.4E-06	1.6E-01	8.2E-02	3.1E-08	4.7E-04	2.3E-03
381	5.6E+00	4.6E-04	1.0E-03	2.7E-06	1.6E-01	8.2E-02	3.5E-08	5.2E-04	2.6E-03
382	6.2E+00	4.6E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.7E-04	2.9E-03
383	4.9E+00	4.6E-04	1.0E-03	2.4E-06	1.6E-01	8.2E-02	3.1E-08	4.6E-04	2.3E-03
384	5.5E+00	4.6E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.4E-08	5.1E-04	2.5E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	4.6E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.8E-08	5.7E-04	2.9E-03
386	6.9E+00	4.6E-04	1.0E-03	3.4E-06	1.6E-01	8.2E-02	4.3E-08	6.4E-04	3.2E-03
387	5.2E+00	4.6E-04	1.0E-03	2.5E-06	1.6E-01	8.2E-02	3.3E-08	4.9E-04	2.4E-03
388	5.9E+00	4.6E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.7E-08	5.5E-04	2.7E-03
389	6.7E+00	4.6E-04	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.2E-08	6.2E-04	3.1E-03
390	7.7E+00	4.6E-04	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.1E-04	3.6E-03
391	5.6E+00	4.6E-04	1.0E-03	2.7E-06	1.6E-01	8.2E-02	3.5E-08	5.2E-04	2.6E-03
392	6.3E+00	4.6E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.9E-04	2.9E-03
393	7.2E+00	4.6E-04	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.7E-04	3.4E-03
394	8.4E+00	4.6E-04	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.2E-08	7.8E-04	3.9E-03
395	5.8E+00	4.6E-04	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.6E-08	5.4E-04	2.7E-03
396	6.7E+00	4.6E-04	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.2E-08	6.2E-04	3.1E-03
397	7.7E+00	4.6E-04	1.0E-03	3.7E-06	1.6E-01	8.2E-02	4.8E-08	7.2E-04	3.6E-03
398	9.1E+00	4.6E-04	1.0E-03	4.4E-06	1.6E-01	8.2E-02	5.6E-08	8.4E-04	4.2E-03
399	6.0E+00	4.6E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.8E-08	5.6E-04	2.8E-03
400	7.0E+00	4.6E-04	1.0E-03	3.4E-06	1.6E-01	8.2E-02	4.3E-08	6.5E-04	3.2E-03
401	8.1E+00	4.6E-04	1.0E-03	3.9E-06	1.6E-01	8.2E-02	5.1E-08	7.5E-04	3.8E-03
402	9.6E+00	4.6E-04	1.0E-03	4.6E-06	1.6E-01	8.2E-02	6.0E-08	8.9E-04	4.5E-03
403	6.2E+00	4.6E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.8E-04	2.9E-03
404	7.2E+00	4.6E-04	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.7E-04	3.3E-03
405	8.4E+00	4.6E-04	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.8E-04	3.9E-03
406	1.0E+01	4.6E-04	1.0E-03	4.9E-06	1.6E-01	8.2E-02	6.3E-08	9.3E-04	4.7E-03
407	6.3E+00	4.6E-04	1.0E-03	3.1E-06	1.6E-01	8.2E-02	3.9E-08	5.9E-04	2.9E-03
408	7.4E+00	4.6E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.6E-08	6.8E-04	3.4E-03
409	8.7E+00	4.6E-04	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.4E-08	8.0E-04	4.0E-03
410	1.0E+01	4.6E-04	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.5E-08	9.6E-04	4.8E-03
411	6.4E+00	4.6E-04	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	5.9E-04	3.0E-03
412	7.5E+00	4.6E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	6.9E-04	3.5E-03
413	8.8E+00	4.6E-04	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.5E-08	8.2E-04	4.1E-03
414	1.1E+01	4.6E-04	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.6E-08	9.9E-04	4.9E-03
415	6.4E+00	4.6E-04	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	5.9E-04	3.0E-03
416	7.5E+00	4.6E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	7.0E-04	3.5E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	4.6E-04	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.6E-08	8.3E-04	4.1E-03
418	1.1E+01	4.6E-04	1.0E-03	5.2E-06	1.6E-01	8.2E-02	6.7E-08	1.0E-03	5.0E-03
419	6.4E+00	4.6E-04	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	5.9E-04	3.0E-03
420	7.5E+00	4.6E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	6.9E-04	3.5E-03
421	8.9E+00	4.6E-04	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.5E-08	8.2E-04	4.1E-03
422	1.1E+01	4.6E-04	1.0E-03	5.2E-06	1.6E-01	8.2E-02	6.7E-08	9.9E-04	5.0E-03
423	6.3E+00	4.6E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.8E-04	2.9E-03
424	7.4E+00	4.6E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.6E-08	6.8E-04	3.4E-03
425	8.8E+00	4.6E-04	1.0E-03	4.2E-06	1.6E-01	8.2E-02	5.5E-08	8.1E-04	4.1E-03
426	1.1E+01	4.6E-04	1.0E-03	5.1E-06	1.6E-01	8.2E-02	6.6E-08	9.8E-04	4.9E-03
427	6.1E+00	4.6E-04	1.0E-03	2.9E-06	1.6E-01	8.2E-02	3.8E-08	5.7E-04	2.8E-03
428	7.2E+00	4.6E-04	1.0E-03	3.5E-06	1.6E-01	8.2E-02	4.5E-08	6.7E-04	3.3E-03
429	8.6E+00	4.6E-04	1.0E-03	4.1E-06	1.6E-01	8.2E-02	5.3E-08	7.9E-04	4.0E-03
430	1.0E+01	4.6E-04	1.0E-03	5.0E-06	1.6E-01	8.2E-02	6.5E-08	9.6E-04	4.8E-03
431	5.9E+00	4.6E-04	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.7E-08	5.5E-04	2.7E-03
432	6.9E+00	4.6E-04	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.3E-08	6.4E-04	3.2E-03
433	8.3E+00	4.6E-04	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.2E-08	7.7E-04	3.8E-03
434	1.0E+01	4.6E-04	1.0E-03	4.8E-06	1.6E-01	8.2E-02	6.3E-08	9.3E-04	4.7E-03
435	5.6E+00	4.6E-04	1.0E-03	2.7E-06	1.6E-01	8.2E-02	3.5E-08	5.2E-04	2.6E-03
436	6.6E+00	4.6E-04	1.0E-03	3.2E-06	1.6E-01	8.2E-02	4.1E-08	6.2E-04	3.1E-03
437	7.9E+00	4.6E-04	1.0E-03	3.8E-06	1.6E-01	8.2E-02	4.9E-08	7.3E-04	3.7E-03
438	9.6E+00	4.6E-04	1.0E-03	4.6E-06	1.6E-01	8.2E-02	6.0E-08	8.9E-04	4.4E-03
439	5.4E+00	4.6E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.3E-08	5.0E-04	2.5E-03
440	6.3E+00	4.6E-04	1.0E-03	3.0E-06	1.6E-01	8.2E-02	3.9E-08	5.8E-04	2.9E-03
441	7.4E+00	4.6E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.6E-08	6.9E-04	3.4E-03
442	9.0E+00	4.6E-04	1.0E-03	4.3E-06	1.6E-01	8.2E-02	5.6E-08	8.4E-04	4.2E-03
443	5.0E+00	4.6E-04	1.0E-03	2.4E-06	1.6E-01	8.2E-02	3.1E-08	4.7E-04	2.3E-03
444	5.9E+00	4.6E-04	1.0E-03	2.8E-06	1.6E-01	8.2E-02	3.7E-08	5.5E-04	2.7E-03
445	6.9E+00	4.6E-04	1.0E-03	3.3E-06	1.6E-01	8.2E-02	4.3E-08	6.4E-04	3.2E-03
446	8.3E+00	4.6E-04	1.0E-03	4.0E-06	1.6E-01	8.2E-02	5.2E-08	7.7E-04	3.9E-03
447	4.7E+00	4.6E-04	1.0E-03	2.3E-06	1.6E-01	8.2E-02	2.9E-08	4.4E-04	2.2E-03
448	5.4E+00	4.6E-04	1.0E-03	2.6E-06	1.6E-01	8.2E-02	3.4E-08	5.1E-04	2.5E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	4.6E-04	1.0E-03	3.1E-06	1.6E-01	8.2E-02	4.0E-08	5.9E-04	3.0E-03
450	7.6E+00	4.6E-04	1.0E-03	3.6E-06	1.6E-01	8.2E-02	4.7E-08	7.0E-04	3.5E-03
451	4.4E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.7E-09	4.2E-05	2.1E-04
452	4.4E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
453	4.4E-01	4.6E-04	1.0E-03	2.1E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
454	4.5E-01	4.6E-04	1.0E-03	2.2E-07	1.6E-01	8.2E-02	2.8E-09	4.2E-05	2.1E-04
455	5.4E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.4E-09	5.1E-05	2.6E-04
456	5.4E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.4E-09	5.1E-05	2.6E-04
457	5.5E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.4E-09	5.2E-05	2.6E-04
458	5.4E-01	4.6E-04	1.0E-03	2.6E-07	1.6E-01	8.2E-02	3.4E-09	5.1E-05	2.6E-04
459	6.8E-01	4.6E-04	1.0E-03	3.3E-07	1.6E-01	8.2E-02	4.3E-09	6.5E-05	3.2E-04
460	6.8E-01	4.6E-04	1.0E-03	3.3E-07	1.6E-01	8.2E-02	4.3E-09	6.5E-05	3.2E-04
461	6.8E-01	4.6E-04	1.0E-03	3.3E-07	1.6E-01	8.2E-02	4.3E-09	6.5E-05	3.2E-04
462	7.8E-01	4.6E-04	1.0E-03	3.8E-07	1.6E-01	8.2E-02	4.9E-09	7.3E-05	3.7E-04
463	9.7E-01	4.6E-04	1.0E-03	4.7E-07	1.6E-01	8.2E-02	6.0E-09	9.0E-05	4.5E-04
464	7.9E-01	4.6E-04	1.0E-03	3.8E-07	1.6E-01	8.2E-02	4.9E-09	7.4E-05	3.7E-04
465	1.0E+00	4.6E-04	1.0E-03	4.8E-07	1.6E-01	8.2E-02	6.2E-09	9.4E-05	4.7E-04
466	1.3E+00	4.6E-04	1.0E-03	6.3E-07	1.6E-01	8.2E-02	8.1E-09	1.2E-04	6.1E-04
467	1.8E+00	4.6E-04	1.0E-03	8.5E-07	1.6E-01	8.2E-02	1.1E-08	1.6E-04	8.2E-04
468	7.7E-01	4.6E-04	1.0E-03	3.7E-07	1.6E-01	8.2E-02	4.8E-09	7.2E-05	3.6E-04
469	9.8E-01	4.6E-04	1.0E-03	4.7E-07	1.6E-01	8.2E-02	6.1E-09	9.2E-05	4.6E-04
470	1.3E+00	4.6E-04	1.0E-03	6.3E-07	1.6E-01	8.2E-02	8.1E-09	1.2E-04	6.1E-04
471	1.8E+00	4.6E-04	1.0E-03	8.9E-07	1.6E-01	8.2E-02	1.1E-08	1.7E-04	8.5E-04
472	9.2E-01	4.6E-04	1.0E-03	4.4E-07	1.6E-01	8.2E-02	5.7E-09	8.6E-05	4.3E-04
473	1.2E+00	4.6E-04	1.0E-03	5.9E-07	1.6E-01	8.2E-02	7.7E-09	1.1E-04	5.7E-04
474	1.7E+00	4.6E-04	1.0E-03	8.4E-07	1.6E-01	8.2E-02	1.1E-08	1.6E-04	8.1E-04
475	8.3E-01	4.6E-04	1.0E-03	4.0E-07	1.6E-01	8.2E-02	5.2E-09	7.8E-05	3.9E-04
476	1.1E+00	4.6E-04	1.0E-03	5.3E-07	1.6E-01	8.2E-02	6.9E-09	1.0E-04	5.1E-04
477	1.5E+00	4.6E-04	1.0E-03	7.4E-07	1.6E-01	8.2E-02	9.6E-09	1.4E-04	7.2E-04

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
1	2.8E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	2.7E+00	2.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12
2	2.9E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12
3	3.1E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12
4	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
5	3.3E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.5E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
6	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
7	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
8	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	4.1E+00	2.3E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11
9	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
10	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
11	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.8E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
12	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.8E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
13	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
14	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
15	2.9E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	4.1E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
16	2.8E+00	1.3E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
17	3.1E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.2E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12
18	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12
19	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
20	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	3.6E+00	2.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11
21	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
22	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.1E+00	2.3E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
23	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
24	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
25	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
26	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
27	3.1E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
28	3.4E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12
29	3.8E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
30	4.1E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.9E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
31	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
32	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
33	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.2E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
34	5.0E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.5E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
35	5.3E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
36	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
37	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	7.1E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
38	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
39	5.3E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
40	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
41	3.7E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
42	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
43	3.7E+00	1.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
44	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.8E-12	3.6E+00	2.3E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11
45	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	4.0E+00	2.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
46	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
47	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	5.3E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
48	5.6E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
49	5.9E+00	1.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11	6.3E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
50	6.2E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11
51	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
52	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	8.8E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
53	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	9.2E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
54	6.3E+00	1.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	9.4E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
55	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	9.3E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11
56	5.7E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
57	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
58	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	6.5E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
59	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
60	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	6.9E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
61	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.7E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11
62	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	4.2E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
63	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
64	5.7E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.3E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
65	7.0E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11
66	7.5E+00	1.3E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11	8.2E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11
67	7.9E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
68	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
69	7.9E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
70	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	1.2E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
71	7.2E+00	1.3E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
72	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
73	4.4E+00	1.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
74	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	3.8E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
75	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
76	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	4.9E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
77	6.7E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
78	7.3E+00	1.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	6.5E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
79	8.0E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
80	9.9E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
81	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	1.4E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
82	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
83	9.5E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
84	8.9E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
85	8.2E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
86	4.5E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	3.4E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
87	5.2E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.9E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
88	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
89	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
90	7.7E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
91	8.7E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
92	9.7E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	8.1E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11
93	1.1E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
94	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
95	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	2.6E+01	2.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
96	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
97	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.2E-12	3.4E+00	2.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11
98	5.5E+00	1.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.4E-12	3.8E+00	2.3E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
99	6.4E+00	1.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
100	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	7.3E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11
101	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
102	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.1E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
103	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
104	4.8E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	3.3E+00	2.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11
105	5.7E+00	1.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12	3.8E+00	2.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
106	6.7E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
107	1.8E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
108	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.4E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
109	4.7E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	3.2E+00	2.3E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	9.9E-12
110	5.6E+00	1.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.6E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
111	6.8E+00	1.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
112	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11	1.1E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
113	3.0E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
114	4.5E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	3.1E+00	2.3E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12
115	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
116	6.6E+00	1.3E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11	4.1E+00	2.3E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11
117	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.8E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
118	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
119	4.2E+01	1.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
120	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12	2.9E+00	2.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12
121	5.1E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	3.3E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
122	6.2E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.1E-11	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
123	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
124	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.0E+01	2.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
125	4.8E+01	1.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
126	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	6.9E-12	2.8E+00	2.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12
127	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	3.2E+00	2.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12
128	5.7E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
129	7.1E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
130	8.9E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
131	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
132	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.5E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
133	2.4E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	9.6E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
134	4.0E+01	1.3E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	3.9E-11
135	8.8E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
136	3.8E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12
137	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	3.0E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.4E-12
138	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12	3.4E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
139	6.5E+00	1.3E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
140	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
141	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.6E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11
142	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
143	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	8.6E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
144	3.0E+01	1.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11	1.1E+01	2.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
145	5.2E+01	1.3E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
146	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.5E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12
147	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.2E-12	2.9E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12
148	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	3.2E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
149	6.0E+00	1.3E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	3.8E+00	2.3E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11
150	7.3E+00	1.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.4E-11
151	9.2E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
152	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
153	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.6E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
154	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	9.5E+00	2.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
155	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11	1.2E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
156	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	2.4E+00	2.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12
157	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	2.7E+00	2.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12
158	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.5E-12
159	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
160	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	2.3E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
161	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
162	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
163	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
164	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	8.1E+00	2.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
165	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.0E+01	2.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
166	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.5E-12	2.3E+00	2.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12
167	3.7E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.9E-12
168	4.2E+00	1.3E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	2.9E+00	2.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12
169	5.0E+00	1.3E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.5E-12	3.3E+00	2.3E-07	1.0E-03	7.8E-10	1.6E-01	8.2E-02	1.0E-11
170	5.9E+00	1.3E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	1.0E-11	3.7E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11
171	7.0E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
172	8.5E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
173	1.0E+01	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.8E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
174	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	6.9E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
175	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	8.3E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
176	3.0E+00	1.3E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.1E-12	2.2E+00	2.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12
177	3.4E+00	1.3E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	2.4E+00	2.3E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12
178	3.9E+00	1.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	2.7E+00	2.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12
179	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.0E+00	2.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12
180	5.2E+00	1.3E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
181	6.1E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
182	7.2E+00	1.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
183	8.4E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
184	9.8E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
185	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	6.8E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
186	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.1E-12	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
187	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	5.2E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
188	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
189	2.8E+00	1.3E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	2.0E+00	2.3E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12
190	3.1E+00	1.3E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	2.3E+00	2.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12
191	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	2.5E+00	2.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12
192	4.0E+00	1.3E-07	1.0E-03	5.3E-10	1.6E-01	8.2E-02	6.9E-12	2.8E+00	2.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
193	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12
194	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
195	6.1E+00	1.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	3.9E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
196	6.9E+00	1.3E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
197	8.6E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
198	7.1E+00	1.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	6.7E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
199	6.2E+00	1.3E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	6.2E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
200	5.4E+00	1.3E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	5.6E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
201	4.7E+00	1.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
202	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
203	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
204	2.6E+00	1.3E-07	1.0E-03	3.4E-10	1.6E-01	8.2E-02	4.4E-12	1.9E+00	2.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12
205	2.9E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	2.1E+00	2.3E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12
206	3.2E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	2.3E+00	2.3E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12
207	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12
208	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.8E+00	2.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12
209	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	3.1E+00	2.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12
210	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	3.5E+00	2.3E-07	1.0E-03	8.4E-10	1.6E-01	8.2E-02	1.1E-11
211	6.3E+00	1.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
212	6.7E+00	1.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
213	6.6E+00	1.3E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
214	6.2E+00	1.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	5.5E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
215	5.8E+00	1.3E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
216	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
217	4.6E+00	1.3E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	4.7E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
218	4.1E+00	1.3E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	4.3E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
219	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.9E+00	2.3E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11
220	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.4E+00	2.3E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11
221	2.4E+00	1.3E-07	1.0E-03	3.2E-10	1.6E-01	8.2E-02	4.1E-12	1.8E+00	2.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12
222	2.7E+00	1.3E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	2.0E+00	2.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12
223	3.0E+00	1.3E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	2.2E+00	2.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12
224	3.3E+00	1.3E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	2.4E+00	2.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.3E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
225	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.6E+00	2.3E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12
226	4.5E+00	1.3E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	3.1E+00	2.3E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12
227	4.9E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	3.4E+00	2.3E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
228	5.2E+00	1.3E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	3.7E+00	2.3E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11
229	5.5E+00	1.3E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.3E-12	4.0E+00	2.3E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11
230	5.3E+00	1.3E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	4.5E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
231	5.0E+00	1.3E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
232	4.8E+00	1.3E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	4.4E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
233	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	4.2E+00	2.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
234	3.9E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	3.9E+00	2.3E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
235	3.6E+00	1.3E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	3.7E+00	2.3E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
236	3.2E+00	1.3E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	3.3E+00	2.3E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
237	2.9E+00	1.3E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	3.1E+00	2.3E-07	1.0E-03	7.3E-10	1.6E-01	8.2E-02	9.5E-12
238	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
239	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
240	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
241	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
242	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
243	1.1E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
244	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
245	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
246	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
247	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
248	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
249	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
250	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
251	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
252	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
253	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
254	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
255	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
256	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
257	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
258	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
259	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11
260	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.4E-11
261	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
262	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
263	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
264	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.0E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
265	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
266	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.2E+01	2.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
267	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.2E+01	2.3E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	6.9E-11
268	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.3E+01	2.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
269	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.4E+01	2.3E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.3E-11
270	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
271	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
272	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.2E+01	2.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
273	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	2.2E+01	2.3E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	7.0E-11
274	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	2.3E+01	2.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
275	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
276	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.5E+01	2.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.7E-11
277	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.6E+01	2.3E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11
278	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	2.6E+01	2.3E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.2E-11
279	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.7E+01	2.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11
280	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.8E+01	2.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11
281	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	2.8E+01	2.3E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11
282	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	2.4E+01	2.3E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11
283	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.5E+01	2.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11
284	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.6E+01	2.3E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.1E-11
285	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	2.7E+01	2.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.3E-11
286	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.8E+01	2.3E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.6E-11
287	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	2.9E+01	2.3E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
288	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.0E+01	2.3E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
289	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.0E+01	2.3E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11
290	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.1E+01	2.3E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.6E-11
291	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.2E+01	2.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
292	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.2E+01	2.3E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	9.9E-11
293	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	2.9E+01	2.3E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.1E-11
294	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.0E+01	2.3E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11
295	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.2E+01	2.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
296	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.3E+01	2.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10
297	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.4E+01	2.3E-07	1.0E-03	8.1E-09	1.6E-01	8.2E-02	1.0E-10
298	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.5E+01	2.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
299	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.5E+01	2.3E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
300	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+01	2.3E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10
301	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
302	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.6E+01	2.3E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10
303	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
304	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.5E+01	2.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
305	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.6E+01	2.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
306	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+01	2.3E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10
307	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.9E+01	2.3E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
308	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.0E+01	2.3E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
309	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.1E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10
310	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.1E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
311	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.2E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
312	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.2E+01	2.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
313	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.1E+01	2.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10
314	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.0E+01	2.3E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
315	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.9E+01	2.3E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
316	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.4E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
317	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.6E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
318	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10
319	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
320	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
321	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+01	2.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
322	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10
323	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	4.7E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
324	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.5E+01	2.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
325	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
326	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	5.6E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
327	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
328	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
329	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	5.7E+01	2.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
330	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	5.5E+01	2.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
331	1.6E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	6.9E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.1E-10
332	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	7.0E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
333	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.9E+01	2.3E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.1E-10
334	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.6E+01	2.3E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.1E-10
335	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	1.2E+01	2.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
336	1.2E+01	1.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
337	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
338	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
339	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	1.2E+01	2.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
340	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
341	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
342	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
343	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
344	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
345	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.3E-11	1.4E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
346	1.3E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
347	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	1.3E+01	2.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
348	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
349	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.3E-11
350	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
351	1.4E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	1.3E+01	2.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
352	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
353	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
354	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
355	1.5E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.4E+01	2.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
356	1.6E+01	1.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
357	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
358	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.8E-11
359	1.6E+01	1.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	1.4E+01	2.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
360	1.7E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
361	1.7E+01	1.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
362	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
363	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	1.5E+01	2.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
364	1.8E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
365	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
366	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
367	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	1.5E+01	2.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
368	1.9E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
369	1.9E+01	1.3E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
370	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
371	2.0E+01	1.3E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	1.5E+01	2.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
372	2.0E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
373	2.1E+01	1.3E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
374	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
375	2.1E+01	1.3E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
376	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	1.6E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11
377	2.2E+01	1.3E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
378	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
379	2.3E+01	1.3E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11
380	2.3E+01	1.3E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
381	2.4E+01	1.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
382	2.5E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
383	2.4E+01	1.3E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
384	2.5E+01	1.3E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
385	2.6E+01	1.3E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
386	2.7E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
387	2.6E+01	1.3E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.1E-11
388	2.7E+01	1.3E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
389	2.8E+01	1.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
390	2.9E+01	1.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
391	2.8E+01	1.3E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
392	3.0E+01	1.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
393	3.1E+01	1.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
394	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
395	3.1E+01	1.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
396	3.2E+01	1.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
397	3.4E+01	1.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
398	3.5E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11	2.0E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
399	3.3E+01	1.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
400	3.5E+01	1.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
401	3.7E+01	1.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
402	3.8E+01	1.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11
403	3.6E+01	1.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
404	3.8E+01	1.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
405	4.0E+01	1.3E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.9E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
406	4.3E+01	1.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
407	3.9E+01	1.3E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
408	4.2E+01	1.3E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
409	4.5E+01	1.3E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
410	4.7E+01	1.3E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
411	4.3E+01	1.3E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
412	4.6E+01	1.3E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
413	4.9E+01	1.3E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.1E-11
414	5.3E+01	1.3E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
415	4.6E+01	1.3E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.7E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.4E-11
416	5.0E+01	1.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
417	5.4E+01	1.3E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.3E-11	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
418	5.9E+01	1.3E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	1.0E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
419	5.0E+01	1.3E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.4E-11
420	5.5E+01	1.3E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.4E-11	1.9E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
421	6.0E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
422	6.6E+01	1.3E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
423	5.4E+01	1.3E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
424	6.0E+01	1.3E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
425	6.7E+01	1.3E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.1E-11
426	7.4E+01	1.3E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
427	5.8E+01	1.3E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
428	6.5E+01	1.3E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
429	7.3E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.2E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
430	8.3E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
431	6.1E+01	1.3E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
432	7.0E+01	1.3E-07	1.0E-03	9.2E-09	1.6E-01	8.2E-02	1.2E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11
433	8.0E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11
434	9.3E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	2.1E+01	2.3E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
435	6.3E+01	1.3E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10	1.7E+01	2.3E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11
436	7.3E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.2E-10	1.8E+01	2.3E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
437	8.6E+01	1.3E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
438	1.0E+02	1.3E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.1E+01	2.3E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
439	6.4E+01	1.3E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
440	7.6E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	1.8E+01	2.3E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11
441	9.0E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.9E+01	2.3E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
442	1.1E+02	1.3E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10	2.1E+01	2.3E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11
443	6.4E+01	1.3E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
444	7.6E+01	1.3E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.4E-11
445	9.2E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	1.9E+01	2.3E-07	1.0E-03	4.5E-09	1.6E-01	8.2E-02	5.8E-11
446	1.1E+02	1.3E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.0E+01	2.3E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
447	6.2E+01	1.3E-07	1.0E-03	8.2E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	2.3E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
448	7.4E+01	1.3E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.3E-10	1.7E+01	2.3E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	9.0E+01	1.3E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10	1.8E+01	2.3E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11
450	1.1E+02	1.3E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.0E+01	2.3E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
451	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	5.1E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
452	3.6E+00	1.3E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
453	3.5E+00	1.3E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12	4.8E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
454	3.3E+00	1.3E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	4.6E+00	2.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
455	4.3E+00	1.3E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	6.0E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
456	4.2E+00	1.3E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	5.9E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
457	4.0E+00	1.3E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.8E-12	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
458	3.8E+00	1.3E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
459	5.1E+00	1.3E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.6E-12	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
460	4.8E+00	1.3E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
461	4.6E+00	1.3E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	6.9E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11
462	7.6E+00	1.3E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
463	8.8E+00	1.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
464	8.1E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.2E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
465	9.8E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	6.1E+00	2.3E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
466	1.2E+01	1.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	7.4E+00	2.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
467	1.5E+01	1.3E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
468	8.3E+00	1.3E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.0E+00	2.3E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
469	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	6.0E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
470	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	7.2E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
471	1.7E+01	1.3E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	9.0E+00	2.3E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
472	1.0E+01	1.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.7E+00	2.3E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
473	1.4E+01	1.3E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	7.0E+00	2.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
474	1.9E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	8.7E+00	2.3E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
475	9.7E+00	1.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	5.4E+00	2.3E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
476	1.3E+01	1.3E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.5E+00	2.3E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
477	1.8E+01	1.3E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.0E-11	8.1E+00	2.3E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
1	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
2	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
3	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
4	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.5E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
5	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
6	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
7	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
8	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
9	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
10	5.3E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
11	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
12	6.0E+00	1.4E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
13	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
14	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
15	5.0E+00	1.4E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.1E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
16	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
17	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.5E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
18	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
19	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	2.0E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
20	3.9E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
21	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
22	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
23	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
24	7.7E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
25	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	5.8E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
26	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	5.9E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	6.0E-11
27	5.4E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	5.9E+00	7.6E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11
28	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
29	3.9E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
30	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
31	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
32	5.2E+00	1.4E-07	1.0E-03	7.4E-10	1.6E-01	8.2E-02	9.5E-12	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
33	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
34	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
35	6.9E+00	1.4E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
36	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
37	8.9E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
38	9.4E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	5.2E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
39	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	5.6E+00	7.6E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
40	7.7E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
41	7.0E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11
42	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
43	3.2E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
44	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
45	4.1E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
46	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.4E-12	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
47	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
48	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
49	7.2E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
50	8.1E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
51	9.0E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	4.2E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.3E-11
52	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	5.4E+00	7.6E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
53	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	6.0E+00	7.6E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.1E-11
54	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
55	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	7.3E+00	7.6E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.4E-11
56	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	7.8E+00	7.6E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11
57	9.6E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	8.7E+00	7.6E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11
58	8.5E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
59	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
60	3.2E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
61	3.7E+00	1.4E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
62	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	2.0E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
63	4.8E+00	1.4E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
64	5.4E+00	1.4E-07	1.0E-03	7.7E-10	1.6E-01	8.2E-02	1.0E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
65	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
66	9.5E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
67	1.1E+01	1.4E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
68	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	6.1E+00	7.6E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
69	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
70	1.7E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	8.1E+00	7.6E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.2E-11
71	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	9.0E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11
72	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	9.9E+00	7.6E-07	1.0E-03	7.8E-09	1.6E-01	8.2E-02	1.0E-10
73	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.9E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
74	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
75	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
76	4.8E+00	1.4E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
77	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
78	6.6E+00	1.4E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
79	7.8E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	3.1E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
80	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
81	1.9E+01	1.4E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
82	2.3E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	8.4E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11
83	2.6E+01	1.4E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11	1.0E+01	7.6E-07	1.0E-03	7.9E-09	1.6E-01	8.2E-02	1.0E-10
84	2.7E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
85	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
86	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
87	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
88	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
89	4.8E+00	1.4E-07	1.0E-03	6.8E-10	1.6E-01	8.2E-02	8.8E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
90	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
91	6.8E+00	1.4E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
92	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
93	9.9E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
94	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
95	4.8E+01	1.4E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.8E-11	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
96	4.6E+01	1.4E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
97	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
98	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
99	4.0E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
100	6.7E+00	1.4E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
101	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
102	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
103	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
104	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
105	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
106	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
107	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11
108	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
109	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.1E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
110	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
111	3.7E+00	1.4E-07	1.0E-03	5.2E-10	1.6E-01	8.2E-02	6.7E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
112	9.5E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
113	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
114	2.7E+00	1.4E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	4.9E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
115	3.0E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
116	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.4E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
117	4.0E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
118	8.7E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
119	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
120	2.6E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
121	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
122	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.0E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
123	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
124	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11
125	1.0E+01	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11	3.1E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
126	2.4E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
127	2.7E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
128	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
129	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
130	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
131	4.9E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
132	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
133	7.2E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
134	9.0E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
135	1.2E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
136	2.3E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.2E+00	7.6E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
137	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.3E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
138	3.0E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
139	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11
140	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
141	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
142	5.4E+00	1.4E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.8E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
143	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
144	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.7E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
145	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	3.1E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
146	2.2E+00	1.4E-07	1.0E-03	3.2E-10	1.6E-01	8.2E-02	4.1E-12	1.2E+00	7.6E-07	1.0E-03	9.4E-10	1.6E-01	8.2E-02	1.2E-11
147	2.5E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
148	2.8E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.1E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
149	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
150	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
151	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.6E-12	1.8E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
152	4.8E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
153	5.7E+00	1.4E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.0E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
154	6.8E+00	1.4E-07	1.0E-03	9.6E-10	1.6E-01	8.2E-02	1.2E-11	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
155	8.2E+00	1.4E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11
156	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.9E-12	1.2E+00	7.6E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
157	2.4E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.3E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
158	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
159	2.9E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
160	3.3E+00	1.4E-07	1.0E-03	4.7E-10	1.6E-01	8.2E-02	6.1E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.6E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
161	3.8E+00	1.4E-07	1.0E-03	5.4E-10	1.6E-01	8.2E-02	7.0E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
162	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.0E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
163	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
164	5.8E+00	1.4E-07	1.0E-03	8.3E-10	1.6E-01	8.2E-02	1.1E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11
165	6.9E+00	1.4E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11	2.7E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
166	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.7E-12	1.1E+00	7.6E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.1E-11
167	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.1E-12	1.2E+00	7.6E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
168	2.5E+00	1.4E-07	1.0E-03	3.5E-10	1.6E-01	8.2E-02	4.5E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
169	2.7E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.0E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
170	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
171	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.3E-12	1.7E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
172	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.9E-11
173	4.4E+00	1.4E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
174	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.2E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
175	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
176	1.9E+00	1.4E-07	1.0E-03	2.7E-10	1.6E-01	8.2E-02	3.5E-12	1.1E+00	7.6E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11
177	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.8E-12	1.2E+00	7.6E-07	1.0E-03	9.2E-10	1.6E-01	8.2E-02	1.2E-11
178	2.3E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.2E-12	1.2E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
179	2.5E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.6E-12	1.3E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
180	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
181	3.1E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.7E-12	1.6E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
182	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	1.7E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
183	3.9E+00	1.4E-07	1.0E-03	5.6E-10	1.6E-01	8.2E-02	7.2E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
184	4.4E+00	1.4E-07	1.0E-03	6.2E-10	1.6E-01	8.2E-02	8.1E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
185	4.9E+00	1.4E-07	1.0E-03	7.0E-10	1.6E-01	8.2E-02	9.0E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
186	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
187	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.3E-12	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11
188	4.1E+00	1.4E-07	1.0E-03	5.8E-10	1.6E-01	8.2E-02	7.5E-12	5.2E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11
189	1.8E+00	1.4E-07	1.0E-03	2.5E-10	1.6E-01	8.2E-02	3.3E-12	1.0E+00	7.6E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11
190	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.6E-12	1.1E+00	7.6E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11
191	2.1E+00	1.4E-07	1.0E-03	3.0E-10	1.6E-01	8.2E-02	3.9E-12	1.2E+00	7.6E-07	1.0E-03	9.5E-10	1.6E-01	8.2E-02	1.2E-11
192	2.4E+00	1.4E-07	1.0E-03	3.3E-10	1.6E-01	8.2E-02	4.3E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
193	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.7E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
194	2.9E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.5E-11
195	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
196	3.5E+00	1.4E-07	1.0E-03	4.9E-10	1.6E-01	8.2E-02	6.4E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
197	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.7E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
198	5.1E+00	1.4E-07	1.0E-03	7.2E-10	1.6E-01	8.2E-02	9.2E-12	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11
199	4.8E+00	1.4E-07	1.0E-03	6.9E-10	1.6E-01	8.2E-02	8.9E-12	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
200	4.6E+00	1.4E-07	1.0E-03	6.5E-10	1.6E-01	8.2E-02	8.4E-12	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
201	4.2E+00	1.4E-07	1.0E-03	6.0E-10	1.6E-01	8.2E-02	7.8E-12	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
202	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
203	3.6E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.5E-12	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
204	1.7E+00	1.4E-07	1.0E-03	2.4E-10	1.6E-01	8.2E-02	3.1E-12	1.0E+00	7.6E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11
205	1.8E+00	1.4E-07	1.0E-03	2.6E-10	1.6E-01	8.2E-02	3.4E-12	1.1E+00	7.6E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11
206	2.0E+00	1.4E-07	1.0E-03	2.8E-10	1.6E-01	8.2E-02	3.7E-12	1.1E+00	7.6E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11
207	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.0E-12	1.2E+00	7.6E-07	1.0E-03	9.7E-10	1.6E-01	8.2E-02	1.3E-11
208	2.4E+00	1.4E-07	1.0E-03	3.4E-10	1.6E-01	8.2E-02	4.4E-12	1.3E+00	7.6E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11
209	2.6E+00	1.4E-07	1.0E-03	3.7E-10	1.6E-01	8.2E-02	4.8E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11
210	2.8E+00	1.4E-07	1.0E-03	4.0E-10	1.6E-01	8.2E-02	5.2E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
211	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.1E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
212	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
213	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	2.6E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
214	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
215	4.2E+00	1.4E-07	1.0E-03	5.9E-10	1.6E-01	8.2E-02	7.7E-12	3.0E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
216	4.1E+00	1.4E-07	1.0E-03	5.7E-10	1.6E-01	8.2E-02	7.4E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
217	3.9E+00	1.4E-07	1.0E-03	5.5E-10	1.6E-01	8.2E-02	7.1E-12	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
218	3.6E+00	1.4E-07	1.0E-03	5.1E-10	1.6E-01	8.2E-02	6.6E-12	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
219	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
220	3.1E+00	1.4E-07	1.0E-03	4.3E-10	1.6E-01	8.2E-02	5.6E-12	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
221	1.6E+00	1.4E-07	1.0E-03	2.3E-10	1.6E-01	8.2E-02	2.9E-12	9.7E-01	7.6E-07	1.0E-03	7.6E-10	1.6E-01	8.2E-02	9.9E-12
222	1.7E+00	1.4E-07	1.0E-03	2.4E-10	1.6E-01	8.2E-02	3.2E-12	1.0E+00	7.6E-07	1.0E-03	8.1E-10	1.6E-01	8.2E-02	1.1E-11
223	1.9E+00	1.4E-07	1.0E-03	2.6E-10	1.6E-01	8.2E-02	3.4E-12	1.1E+00	7.6E-07	1.0E-03	8.7E-10	1.6E-01	8.2E-02	1.1E-11
224	2.0E+00	1.4E-07	1.0E-03	2.9E-10	1.6E-01	8.2E-02	3.7E-12	1.2E+00	7.6E-07	1.0E-03	9.3E-10	1.6E-01	8.2E-02	1.2E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
225	2.2E+00	1.4E-07	1.0E-03	3.1E-10	1.6E-01	8.2E-02	4.0E-12	1.3E+00	7.6E-07	1.0E-03	9.9E-10	1.6E-01	8.2E-02	1.3E-11
226	2.6E+00	1.4E-07	1.0E-03	3.6E-10	1.6E-01	8.2E-02	4.7E-12	1.4E+00	7.6E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11
227	2.8E+00	1.4E-07	1.0E-03	3.9E-10	1.6E-01	8.2E-02	5.1E-12	1.5E+00	7.6E-07	1.0E-03	1.2E-09	1.6E-01	8.2E-02	1.6E-11
228	3.0E+00	1.4E-07	1.0E-03	4.2E-10	1.6E-01	8.2E-02	5.4E-12	1.6E+00	7.6E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11
229	3.2E+00	1.4E-07	1.0E-03	4.5E-10	1.6E-01	8.2E-02	5.8E-12	1.8E+00	7.6E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11
230	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
231	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.5E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
232	3.5E+00	1.4E-07	1.0E-03	5.0E-10	1.6E-01	8.2E-02	6.4E-12	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
233	3.4E+00	1.4E-07	1.0E-03	4.8E-10	1.6E-01	8.2E-02	6.2E-12	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
234	3.3E+00	1.4E-07	1.0E-03	4.6E-10	1.6E-01	8.2E-02	6.0E-12	2.9E+00	7.6E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11
235	3.1E+00	1.4E-07	1.0E-03	4.4E-10	1.6E-01	8.2E-02	5.7E-12	3.0E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
236	2.9E+00	1.4E-07	1.0E-03	4.1E-10	1.6E-01	8.2E-02	5.3E-12	3.1E+00	7.6E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11
237	2.7E+00	1.4E-07	1.0E-03	3.8E-10	1.6E-01	8.2E-02	5.0E-12	3.2E+00	7.6E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11
238	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	6.1E+00	7.6E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
239	1.9E+01	1.4E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.4E-11	6.4E+00	7.6E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11
240	1.9E+01	1.4E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	6.6E+00	7.6E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11
241	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.9E+00	7.6E-07	1.0E-03	5.4E-09	1.6E-01	8.2E-02	7.0E-11
242	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	7.2E+00	7.6E-07	1.0E-03	5.7E-09	1.6E-01	8.2E-02	7.3E-11
243	2.2E+01	1.4E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11	7.5E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
244	1.9E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11	6.2E+00	7.6E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.3E-11
245	2.0E+01	1.4E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11	6.4E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
246	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
247	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	7.0E+00	7.6E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11
248	2.2E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	7.3E+00	7.6E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.4E-11
249	2.3E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.6E+00	7.6E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11
250	2.4E+01	1.4E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11	8.0E+00	7.6E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
251	2.5E+01	1.4E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11	8.3E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.5E-11
252	2.0E+01	1.4E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11	6.5E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.6E-11
253	2.1E+01	1.4E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11	6.8E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.9E-11
254	2.3E+01	1.4E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.2E-11
255	2.4E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.4E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
256	2.5E+01	1.4E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	7.8E+00	7.6E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
257	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11	8.1E+00	7.6E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.3E-11
258	2.7E+01	1.4E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	5.0E-11	8.5E+00	7.6E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11
259	2.8E+01	1.4E-07	1.0E-03	4.0E-09	1.6E-01	8.2E-02	5.2E-11	8.9E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.1E-11
260	3.0E+01	1.4E-07	1.0E-03	4.2E-09	1.6E-01	8.2E-02	5.5E-11	9.4E+00	7.6E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.6E-11
261	2.4E+01	1.4E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11	7.1E+00	7.6E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11
262	2.5E+01	1.4E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11	7.5E+00	7.6E-07	1.0E-03	5.9E-09	1.6E-01	8.2E-02	7.6E-11
263	2.6E+01	1.4E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11	7.9E+00	7.6E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11
264	2.7E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11	8.3E+00	7.6E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11
265	2.9E+01	1.4E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11	8.7E+00	7.6E-07	1.0E-03	6.9E-09	1.6E-01	8.2E-02	8.9E-11
266	3.1E+01	1.4E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.6E-11	9.2E+00	7.6E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.4E-11
267	3.2E+01	1.4E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11	9.7E+00	7.6E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11
268	3.4E+01	1.4E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11	1.0E+01	7.6E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10
269	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.1E+01	7.6E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
270	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.1E+01	7.6E-07	1.0E-03	8.9E-09	1.6E-01	8.2E-02	1.2E-10
271	2.8E+01	1.4E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.1E-11	8.0E+00	7.6E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.1E-11
272	2.9E+01	1.4E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.3E-11	8.4E+00	7.6E-07	1.0E-03	6.6E-09	1.6E-01	8.2E-02	8.6E-11
273	3.1E+01	1.4E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.6E-11	8.8E+00	7.6E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.0E-11
274	3.3E+01	1.4E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11	9.4E+00	7.6E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.6E-11
275	3.5E+01	1.4E-07	1.0E-03	4.9E-09	1.6E-01	8.2E-02	6.4E-11	9.9E+00	7.6E-07	1.0E-03	7.8E-09	1.6E-01	8.2E-02	1.0E-10
276	3.7E+01	1.4E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.0E+01	7.6E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10
277	3.9E+01	1.4E-07	1.0E-03	5.5E-09	1.6E-01	8.2E-02	7.1E-11	1.1E+01	7.6E-07	1.0E-03	8.8E-09	1.6E-01	8.2E-02	1.1E-10
278	4.1E+01	1.4E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
279	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.2E+01	7.6E-07	1.0E-03	9.9E-09	1.6E-01	8.2E-02	1.3E-10
280	4.5E+01	1.4E-07	1.0E-03	6.4E-09	1.6E-01	8.2E-02	8.3E-11	1.3E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
281	4.8E+01	1.4E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
282	3.3E+01	1.4E-07	1.0E-03	4.7E-09	1.6E-01	8.2E-02	6.0E-11	9.0E+00	7.6E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11
283	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.4E-11	9.5E+00	7.6E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.7E-11
284	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	1.0E+01	7.6E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10
285	4.0E+01	1.4E-07	1.0E-03	5.6E-09	1.6E-01	8.2E-02	7.3E-11	1.1E+01	7.6E-07	1.0E-03	8.5E-09	1.6E-01	8.2E-02	1.1E-10
286	4.2E+01	1.4E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.7E-11	1.1E+01	7.6E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10
287	4.5E+01	1.4E-07	1.0E-03	6.3E-09	1.6E-01	8.2E-02	8.2E-11	1.2E+01	7.6E-07	1.0E-03	9.6E-09	1.6E-01	8.2E-02	1.2E-10
288	4.8E+01	1.4E-07	1.0E-03	6.7E-09	1.6E-01	8.2E-02	8.7E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
289	5.1E+01	1.4E-07	1.0E-03	7.2E-09	1.6E-01	8.2E-02	9.3E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
290	5.4E+01	1.4E-07	1.0E-03	7.6E-09	1.6E-01	8.2E-02	9.8E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
291	5.7E+01	1.4E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.6E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.6E-10
292	5.9E+01	1.4E-07	1.0E-03	8.4E-09	1.6E-01	8.2E-02	1.1E-10	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
293	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.8E-11	1.1E+01	7.6E-07	1.0E-03	8.7E-09	1.6E-01	8.2E-02	1.1E-10
294	4.6E+01	1.4E-07	1.0E-03	6.5E-09	1.6E-01	8.2E-02	8.4E-11	1.2E+01	7.6E-07	1.0E-03	9.3E-09	1.6E-01	8.2E-02	1.2E-10
295	4.9E+01	1.4E-07	1.0E-03	7.0E-09	1.6E-01	8.2E-02	9.0E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
296	5.3E+01	1.4E-07	1.0E-03	7.5E-09	1.6E-01	8.2E-02	9.7E-11	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
297	5.7E+01	1.4E-07	1.0E-03	8.0E-09	1.6E-01	8.2E-02	1.0E-10	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
298	6.1E+01	1.4E-07	1.0E-03	8.6E-09	1.6E-01	8.2E-02	1.1E-10	1.6E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
299	6.5E+01	1.4E-07	1.0E-03	9.2E-09	1.6E-01	8.2E-02	1.2E-10	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
300	6.9E+01	1.4E-07	1.0E-03	9.8E-09	1.6E-01	8.2E-02	1.3E-10	1.8E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10
301	7.3E+01	1.4E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10
302	7.6E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.2E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
303	7.9E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	2.3E+01	7.6E-07	1.0E-03	1.8E-08	1.6E-01	8.2E-02	2.4E-10
304	5.4E+01	1.4E-07	1.0E-03	7.7E-09	1.6E-01	8.2E-02	9.9E-11	1.3E+01	7.6E-07	1.0E-03	1.0E-08	1.6E-01	8.2E-02	1.3E-10
305	5.8E+01	1.4E-07	1.0E-03	8.3E-09	1.6E-01	8.2E-02	1.1E-10	1.4E+01	7.6E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10
306	6.3E+01	1.4E-07	1.0E-03	9.0E-09	1.6E-01	8.2E-02	1.2E-10	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
307	6.9E+01	1.4E-07	1.0E-03	9.7E-09	1.6E-01	8.2E-02	1.3E-10	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
308	7.4E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10
309	8.0E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.5E-10	2.0E+01	7.6E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10
310	8.7E+01	1.4E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	2.2E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
311	9.2E+01	1.4E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.4E+01	7.6E-07	1.0E-03	1.9E-08	1.6E-01	8.2E-02	2.5E-10
312	9.7E+01	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	2.6E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10
313	1.0E+02	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	2.9E+01	7.6E-07	1.0E-03	2.3E-08	1.6E-01	8.2E-02	2.9E-10
314	1.0E+02	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	3.1E+01	7.6E-07	1.0E-03	2.5E-08	1.6E-01	8.2E-02	3.2E-10
315	9.7E+01	1.4E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10	3.3E+01	7.6E-07	1.0E-03	2.6E-08	1.6E-01	8.2E-02	3.4E-10
316	7.8E+01	1.4E-07	1.0E-03	1.1E-08	1.6E-01	8.2E-02	1.4E-10	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
317	8.6E+01	1.4E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	2.0E-10
318	9.5E+01	1.4E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10	2.1E+01	7.6E-07	1.0E-03	1.7E-08	1.6E-01	8.2E-02	2.2E-10
319	1.0E+02	1.4E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10	2.4E+01	7.6E-07	1.0E-03	1.9E-08	1.6E-01	8.2E-02	2.4E-10
320	1.1E+02	1.4E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.1E-10	2.7E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
321	3.7E+01	1.4E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11	3.0E+01	7.6E-07	1.0E-03	2.4E-08	1.6E-01	8.2E-02	3.1E-10
322	3.6E+01	1.4E-07	1.0E-03	5.2E-09	1.6E-01	8.2E-02	6.7E-11	1.6E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
323	3.5E+01	1.4E-07	1.0E-03	5.0E-09	1.6E-01	8.2E-02	6.5E-11	1.7E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.7E-10
324	3.4E+01	1.4E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.3E-11	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	1.9E-10
325	1.1E+02	1.4E-07	1.0E-03	1.6E-08	1.6E-01	8.2E-02	2.0E-10	2.3E+01	7.6E-07	1.0E-03	1.8E-08	1.6E-01	8.2E-02	2.3E-10
326	4.4E+01	1.4E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	2.6E+01	7.6E-07	1.0E-03	2.1E-08	1.6E-01	8.2E-02	2.7E-10
327	4.4E+01	1.4E-07	1.0E-03	6.2E-09	1.6E-01	8.2E-02	8.0E-11	3.0E+01	7.6E-07	1.0E-03	2.4E-08	1.6E-01	8.2E-02	3.1E-10
328	4.3E+01	1.4E-07	1.0E-03	6.1E-09	1.6E-01	8.2E-02	7.9E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.6E-10
329	4.2E+01	1.4E-07	1.0E-03	6.0E-09	1.6E-01	8.2E-02	7.8E-11	1.7E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.7E-10
330	4.1E+01	1.4E-07	1.0E-03	5.8E-09	1.6E-01	8.2E-02	7.5E-11	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.9E-10
331	5.2E+01	1.4E-07	1.0E-03	7.4E-09	1.6E-01	8.2E-02	9.5E-11	1.5E+01	7.6E-07	1.0E-03	1.2E-08	1.6E-01	8.2E-02	1.5E-10
332	5.2E+01	1.4E-07	1.0E-03	7.3E-09	1.6E-01	8.2E-02	9.4E-11	1.6E+01	7.6E-07	1.0E-03	1.3E-08	1.6E-01	8.2E-02	1.6E-10
333	5.0E+01	1.4E-07	1.0E-03	7.1E-09	1.6E-01	8.2E-02	9.2E-11	1.8E+01	7.6E-07	1.0E-03	1.4E-08	1.6E-01	8.2E-02	1.8E-10
334	4.8E+01	1.4E-07	1.0E-03	6.8E-09	1.6E-01	8.2E-02	8.8E-11	1.9E+01	7.6E-07	1.0E-03	1.5E-08	1.6E-01	8.2E-02	2.0E-10
335	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
336	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
337	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
338	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
339	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
340	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
341	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
342	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
343	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
344	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
345	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
346	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	5.0E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
347	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
348	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
349	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.7E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.8E-11
350	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
351	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.4E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11
352	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
353	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
354	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
355	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
356	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
357	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
358	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
359	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
360	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.5E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
361	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
362	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.2E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
363	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
364	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
365	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.0E-11	4.6E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
366	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
367	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
368	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
369	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
370	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
371	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
372	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.4E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.5E-11
373	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
374	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
375	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
376	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
377	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.5E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.6E-11
378	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.7E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.8E-11
379	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
380	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
381	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
382	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.7E-11
383	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
384	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
385	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
386	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.6E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
387	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
388	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
389	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
390	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.5E+00	7.6E-07	1.0E-03	3.6E-09	1.6E-01	8.2E-02	4.6E-11
391	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
392	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
393	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
394	1.8E+01	1.4E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
395	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
396	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
397	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
398	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.3E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
399	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.9E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
400	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
401	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.2E-11
402	1.8E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.3E+00	7.6E-07	1.0E-03	3.4E-09	1.6E-01	8.2E-02	4.4E-11
403	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
404	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
405	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
406	1.7E+01	1.4E-07	1.0E-03	2.5E-09	1.6E-01	8.2E-02	3.2E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
407	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
408	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
409	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.9E-11	4.0E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
410	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.2E+00	7.6E-07	1.0E-03	3.3E-09	1.6E-01	8.2E-02	4.3E-11
411	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
412	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
413	1.6E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
414	1.7E+01	1.4E-07	1.0E-03	2.4E-09	1.6E-01	8.2E-02	3.1E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.2E-11
415	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
416	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
417	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
418	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	3.0E-11	4.1E+00	7.6E-07	1.0E-03	3.2E-09	1.6E-01	8.2E-02	4.1E-11
419	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.7E-11
420	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
421	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
422	1.6E+01	1.4E-07	1.0E-03	2.3E-09	1.6E-01	8.2E-02	2.9E-11	4.0E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.1E-11
423	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
424	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
425	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
426	1.5E+01	1.4E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	4.0E-11
427	1.2E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
428	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
429	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
430	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.9E+00	7.6E-07	1.0E-03	3.1E-09	1.6E-01	8.2E-02	3.9E-11
431	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
432	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
433	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
434	1.5E+01	1.4E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11	3.8E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.9E-11
435	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.1E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
436	1.2E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
437	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
438	1.4E+01	1.4E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11	3.7E+00	7.6E-07	1.0E-03	3.0E-09	1.6E-01	8.2E-02	3.8E-11
439	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
440	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
441	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
442	1.4E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11	3.7E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.8E-11
443	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11
444	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.4E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
445	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11	3.5E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
446	1.3E+01	1.4E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.9E-09	1.6E-01	8.2E-02	3.7E-11
447	1.1E+01	1.4E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11	3.2E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.3E-11
448	1.1E+01	1.4E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11	3.3E+00	7.6E-07	1.0E-03	2.6E-09	1.6E-01	8.2E-02	3.4E-11

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
449	1.2E+01	1.4E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11	3.5E+00	7.6E-07	1.0E-03	2.7E-09	1.6E-01	8.2E-02	3.5E-11
450	1.3E+01	1.4E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11	3.6E+00	7.6E-07	1.0E-03	2.8E-09	1.6E-01	8.2E-02	3.6E-11
451	6.3E+00	1.4E-07	1.0E-03	8.9E-10	1.6E-01	8.2E-02	1.2E-11	4.4E+00	7.6E-07	1.0E-03	3.5E-09	1.6E-01	8.2E-02	4.5E-11
452	6.2E+00	1.4E-07	1.0E-03	8.8E-10	1.6E-01	8.2E-02	1.1E-11	4.6E+00	7.6E-07	1.0E-03	3.7E-09	1.6E-01	8.2E-02	4.7E-11
453	6.0E+00	1.4E-07	1.0E-03	8.5E-10	1.6E-01	8.2E-02	1.1E-11	4.8E+00	7.6E-07	1.0E-03	3.8E-09	1.6E-01	8.2E-02	4.9E-11
454	5.8E+00	1.4E-07	1.0E-03	8.2E-10	1.6E-01	8.2E-02	1.1E-11	4.9E+00	7.6E-07	1.0E-03	3.9E-09	1.6E-01	8.2E-02	5.0E-11
455	7.8E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.1E+00	7.6E-07	1.0E-03	4.1E-09	1.6E-01	8.2E-02	5.2E-11
456	7.6E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	5.4E+00	7.6E-07	1.0E-03	4.3E-09	1.6E-01	8.2E-02	5.5E-11
457	7.3E+00	1.4E-07	1.0E-03	1.0E-09	1.6E-01	8.2E-02	1.3E-11	5.6E+00	7.6E-07	1.0E-03	4.4E-09	1.6E-01	8.2E-02	5.7E-11
458	6.9E+00	1.4E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11	5.8E+00	7.6E-07	1.0E-03	4.6E-09	1.6E-01	8.2E-02	5.9E-11
459	9.8E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.8E-11	6.0E+00	7.6E-07	1.0E-03	4.8E-09	1.6E-01	8.2E-02	6.2E-11
460	9.6E+00	1.4E-07	1.0E-03	1.4E-09	1.6E-01	8.2E-02	1.7E-11	6.4E+00	7.6E-07	1.0E-03	5.1E-09	1.6E-01	8.2E-02	6.5E-11
461	9.1E+00	1.4E-07	1.0E-03	1.3E-09	1.6E-01	8.2E-02	1.7E-11	6.7E+00	7.6E-07	1.0E-03	5.3E-09	1.6E-01	8.2E-02	6.8E-11
462	4.7E+00	1.4E-07	1.0E-03	6.6E-10	1.6E-01	8.2E-02	8.6E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
463	5.6E+00	1.4E-07	1.0E-03	7.9E-10	1.6E-01	8.2E-02	1.0E-11	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
464	4.5E+00	1.4E-07	1.0E-03	6.4E-10	1.6E-01	8.2E-02	8.2E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	2.0E-11
465	5.3E+00	1.4E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.7E-12	2.2E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
466	6.4E+00	1.4E-07	1.0E-03	9.1E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.5E-11
467	7.9E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.5E-11	2.8E+00	7.6E-07	1.0E-03	2.2E-09	1.6E-01	8.2E-02	2.8E-11
468	4.3E+00	1.4E-07	1.0E-03	6.1E-10	1.6E-01	8.2E-02	7.8E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
469	5.0E+00	1.4E-07	1.0E-03	7.1E-10	1.6E-01	8.2E-02	9.2E-12	2.1E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.1E-11
470	6.1E+00	1.4E-07	1.0E-03	8.6E-10	1.6E-01	8.2E-02	1.1E-11	2.3E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.4E-11
471	7.5E+00	1.4E-07	1.0E-03	1.1E-09	1.6E-01	8.2E-02	1.4E-11	2.6E+00	7.6E-07	1.0E-03	2.1E-09	1.6E-01	8.2E-02	2.7E-11
472	4.8E+00	1.4E-07	1.0E-03	6.7E-10	1.6E-01	8.2E-02	8.7E-12	2.0E+00	7.6E-07	1.0E-03	1.6E-09	1.6E-01	8.2E-02	2.0E-11
473	5.7E+00	1.4E-07	1.0E-03	8.0E-10	1.6E-01	8.2E-02	1.0E-11	2.2E+00	7.6E-07	1.0E-03	1.8E-09	1.6E-01	8.2E-02	2.3E-11
474	6.9E+00	1.4E-07	1.0E-03	9.8E-10	1.6E-01	8.2E-02	1.3E-11	2.5E+00	7.6E-07	1.0E-03	2.0E-09	1.6E-01	8.2E-02	2.6E-11
475	4.4E+00	1.4E-07	1.0E-03	6.3E-10	1.6E-01	8.2E-02	8.1E-12	1.9E+00	7.6E-07	1.0E-03	1.5E-09	1.6E-01	8.2E-02	1.9E-11
476	5.3E+00	1.4E-07	1.0E-03	7.5E-10	1.6E-01	8.2E-02	9.6E-12	2.1E+00	7.6E-07	1.0E-03	1.7E-09	1.6E-01	8.2E-02	2.2E-11
477	6.4E+00	1.4E-07	1.0E-03	9.0E-10	1.6E-01	8.2E-02	1.2E-11	2.4E+00	7.6E-07	1.0E-03	1.9E-09	1.6E-01	8.2E-02	2.4E-11

5. Risk by Construction Phase

d. Risk From Trenching - Mitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Trenching - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	3.9E-04	1.0E-03	1.1E-07	1.6E-01	7.9E-02	1.4E-09	2.2E-05	1.1E-04
2	3.0E-01	3.9E-04	1.0E-03	1.2E-07	1.6E-01	7.9E-02	1.5E-09	2.3E-05	1.1E-04
3	3.1E-01	3.9E-04	1.0E-03	1.2E-07	1.6E-01	7.9E-02	1.6E-09	2.4E-05	1.2E-04
4	3.2E-01	3.9E-04	1.0E-03	1.3E-07	1.6E-01	7.9E-02	1.6E-09	2.5E-05	1.2E-04
5	3.3E-01	3.9E-04	1.0E-03	1.3E-07	1.6E-01	7.9E-02	1.6E-09	2.5E-05	1.3E-04
6	3.4E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.7E-09	2.6E-05	1.3E-04
7	3.5E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.7E-09	2.7E-05	1.3E-04
8	3.6E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.8E-09	2.7E-05	1.4E-04
9	3.7E-01	3.9E-04	1.0E-03	1.5E-07	1.6E-01	7.9E-02	1.9E-09	2.8E-05	1.4E-04
10	3.8E-01	3.9E-04	1.0E-03	1.5E-07	1.6E-01	7.9E-02	1.9E-09	2.9E-05	1.5E-04
11	4.0E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.0E-09	3.1E-05	1.5E-04
12	4.1E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.1E-09	3.2E-05	1.6E-04
13	4.3E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.1E-09	3.3E-05	1.6E-04
14	4.3E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.2E-09	3.3E-05	1.7E-04
15	4.3E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.2E-09	3.3E-05	1.7E-04
16	4.2E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.1E-09	3.2E-05	1.6E-04
17	3.2E-01	3.9E-04	1.0E-03	1.3E-07	1.6E-01	7.9E-02	1.6E-09	2.5E-05	1.2E-04
18	3.4E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.7E-09	2.6E-05	1.3E-04
19	3.6E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.8E-09	2.7E-05	1.4E-04
20	3.7E-01	3.9E-04	1.0E-03	1.5E-07	1.6E-01	7.9E-02	1.9E-09	2.9E-05	1.4E-04
21	3.9E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	1.9E-09	3.0E-05	1.5E-04
22	4.0E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.0E-09	3.1E-05	1.5E-04
23	5.2E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.6E-09	4.0E-05	2.0E-04
24	5.3E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.7E-09	4.1E-05	2.1E-04
25	5.3E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.7E-09	4.1E-05	2.0E-04
26	5.2E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.6E-09	4.0E-05	2.0E-04
27	5.0E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.5E-09	3.8E-05	1.9E-04
28	3.5E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.8E-09	2.7E-05	1.4E-04
29	4.1E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.1E-09	3.1E-05	1.6E-04
30	4.3E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.2E-09	3.3E-05	1.7E-04
31	4.6E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.3E-09	3.5E-05	1.8E-04
32	4.8E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.4E-09	3.7E-05	1.9E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.5E-09	3.9E-05	1.9E-04
34	5.2E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.6E-09	4.0E-05	2.0E-04
35	5.5E-01	3.9E-04	1.0E-03	2.2E-07	1.6E-01	7.9E-02	2.7E-09	4.2E-05	2.1E-04
36	5.7E-01	3.9E-04	1.0E-03	2.3E-07	1.6E-01	7.9E-02	2.9E-09	4.4E-05	2.2E-04
37	6.3E-01	3.9E-04	1.0E-03	2.6E-07	1.6E-01	7.9E-02	3.2E-09	4.9E-05	2.4E-04
38	6.6E-01	3.9E-04	1.0E-03	2.6E-07	1.6E-01	7.9E-02	3.3E-09	5.1E-05	2.5E-04
39	6.7E-01	3.9E-04	1.0E-03	2.7E-07	1.6E-01	7.9E-02	3.4E-09	5.2E-05	2.6E-04
40	6.5E-01	3.9E-04	1.0E-03	2.6E-07	1.6E-01	7.9E-02	3.3E-09	5.0E-05	2.5E-04
41	6.2E-01	3.9E-04	1.0E-03	2.5E-07	1.6E-01	7.9E-02	3.1E-09	4.8E-05	2.4E-04
42	5.9E-01	3.9E-04	1.0E-03	2.4E-07	1.6E-01	7.9E-02	3.0E-09	4.6E-05	2.3E-04
43	3.9E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	1.9E-09	3.0E-05	1.5E-04
44	4.3E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.1E-09	3.3E-05	1.6E-04
45	4.7E-01	3.9E-04	1.0E-03	1.9E-07	1.6E-01	7.9E-02	2.4E-09	3.6E-05	1.8E-04
46	5.5E-01	3.9E-04	1.0E-03	2.2E-07	1.6E-01	7.9E-02	2.8E-09	4.2E-05	2.1E-04
47	5.9E-01	3.9E-04	1.0E-03	2.4E-07	1.6E-01	7.9E-02	3.0E-09	4.5E-05	2.3E-04
48	6.2E-01	3.9E-04	1.0E-03	2.5E-07	1.6E-01	7.9E-02	3.1E-09	4.8E-05	2.4E-04
49	6.5E-01	3.9E-04	1.0E-03	2.6E-07	1.6E-01	7.9E-02	3.3E-09	5.0E-05	2.5E-04
50	6.9E-01	3.9E-04	1.0E-03	2.8E-07	1.6E-01	7.9E-02	3.5E-09	5.3E-05	2.7E-04
51	7.3E-01	3.9E-04	1.0E-03	2.9E-07	1.6E-01	7.9E-02	3.7E-09	5.6E-05	2.8E-04
52	8.2E-01	3.9E-04	1.0E-03	3.3E-07	1.6E-01	7.9E-02	4.1E-09	6.3E-05	3.2E-04
53	8.6E-01	3.9E-04	1.0E-03	3.4E-07	1.6E-01	7.9E-02	4.3E-09	6.6E-05	3.3E-04
54	8.8E-01	3.9E-04	1.0E-03	3.5E-07	1.6E-01	7.9E-02	4.4E-09	6.8E-05	3.4E-04
55	8.9E-01	3.9E-04	1.0E-03	3.6E-07	1.6E-01	7.9E-02	4.5E-09	6.8E-05	3.4E-04
56	8.9E-01	3.9E-04	1.0E-03	3.6E-07	1.6E-01	7.9E-02	4.5E-09	6.9E-05	3.4E-04
57	8.1E-01	3.9E-04	1.0E-03	3.2E-07	1.6E-01	7.9E-02	4.1E-09	6.2E-05	3.1E-04
58	7.6E-01	3.9E-04	1.0E-03	3.1E-07	1.6E-01	7.9E-02	3.8E-09	5.8E-05	2.9E-04
59	7.0E-01	3.9E-04	1.0E-03	2.8E-07	1.6E-01	7.9E-02	3.5E-09	5.4E-05	2.7E-04
60	4.2E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.1E-09	3.2E-05	1.6E-04
61	4.7E-01	3.9E-04	1.0E-03	1.9E-07	1.6E-01	7.9E-02	2.4E-09	3.6E-05	1.8E-04
62	5.3E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.6E-09	4.1E-05	2.0E-04
63	5.9E-01	3.9E-04	1.0E-03	2.4E-07	1.6E-01	7.9E-02	3.0E-09	4.5E-05	2.3E-04
64	6.6E-01	3.9E-04	1.0E-03	2.6E-07	1.6E-01	7.9E-02	3.3E-09	5.1E-05	2.5E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	3.9E-04	1.0E-03	3.4E-07	1.6E-01	7.9E-02	4.2E-09	6.5E-05	3.2E-04
66	9.1E-01	3.9E-04	1.0E-03	3.7E-07	1.6E-01	7.9E-02	4.6E-09	7.0E-05	3.5E-04
67	9.7E-01	3.9E-04	1.0E-03	3.9E-07	1.6E-01	7.9E-02	4.9E-09	7.5E-05	3.7E-04
68	1.1E+00	3.9E-04	1.0E-03	4.5E-07	1.6E-01	7.9E-02	5.6E-09	8.6E-05	4.3E-04
69	1.2E+00	3.9E-04	1.0E-03	4.7E-07	1.6E-01	7.9E-02	5.9E-09	9.0E-05	4.5E-04
70	1.2E+00	3.9E-04	1.0E-03	4.8E-07	1.6E-01	7.9E-02	6.1E-09	9.3E-05	4.6E-04
71	1.2E+00	3.9E-04	1.0E-03	4.9E-07	1.6E-01	7.9E-02	6.1E-09	9.3E-05	4.7E-04
72	1.2E+00	3.9E-04	1.0E-03	4.8E-07	1.6E-01	7.9E-02	6.0E-09	9.2E-05	4.6E-04
73	4.4E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.2E-09	3.4E-05	1.7E-04
74	5.0E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.5E-09	3.9E-05	1.9E-04
75	5.8E-01	3.9E-04	1.0E-03	2.3E-07	1.6E-01	7.9E-02	2.9E-09	4.4E-05	2.2E-04
76	6.7E-01	3.9E-04	1.0E-03	2.7E-07	1.6E-01	7.9E-02	3.4E-09	5.1E-05	2.6E-04
77	7.7E-01	3.9E-04	1.0E-03	3.1E-07	1.6E-01	7.9E-02	3.9E-09	6.0E-05	3.0E-04
78	8.8E-01	3.9E-04	1.0E-03	3.6E-07	1.6E-01	7.9E-02	4.4E-09	6.8E-05	3.4E-04
79	1.0E+00	3.9E-04	1.0E-03	4.0E-07	1.6E-01	7.9E-02	5.0E-09	7.7E-05	3.9E-04
80	1.4E+00	3.9E-04	1.0E-03	5.5E-07	1.6E-01	7.9E-02	6.9E-09	1.1E-04	5.3E-04
81	1.6E+00	3.9E-04	1.0E-03	6.6E-07	1.6E-01	7.9E-02	8.2E-09	1.3E-04	6.3E-04
82	1.7E+00	3.9E-04	1.0E-03	6.9E-07	1.6E-01	7.9E-02	8.6E-09	1.3E-04	6.6E-04
83	1.7E+00	3.9E-04	1.0E-03	7.0E-07	1.6E-01	7.9E-02	8.7E-09	1.3E-04	6.7E-04
84	1.7E+00	3.9E-04	1.0E-03	7.0E-07	1.6E-01	7.9E-02	8.7E-09	1.3E-04	6.7E-04
85	1.7E+00	3.9E-04	1.0E-03	6.7E-07	1.6E-01	7.9E-02	8.4E-09	1.3E-04	6.4E-04
86	4.5E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.2E-09	3.4E-05	1.7E-04
87	5.2E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.6E-09	4.0E-05	2.0E-04
88	6.2E-01	3.9E-04	1.0E-03	2.5E-07	1.6E-01	7.9E-02	3.1E-09	4.8E-05	2.4E-04
89	7.4E-01	3.9E-04	1.0E-03	3.0E-07	1.6E-01	7.9E-02	3.7E-09	5.7E-05	2.8E-04
90	8.8E-01	3.9E-04	1.0E-03	3.5E-07	1.6E-01	7.9E-02	4.4E-09	6.8E-05	3.4E-04
91	1.1E+00	3.9E-04	1.0E-03	4.3E-07	1.6E-01	7.9E-02	5.3E-09	8.2E-05	4.1E-04
92	1.3E+00	3.9E-04	1.0E-03	5.1E-07	1.6E-01	7.9E-02	6.4E-09	9.8E-05	4.9E-04
93	1.5E+00	3.9E-04	1.0E-03	6.1E-07	1.6E-01	7.9E-02	7.6E-09	1.2E-04	5.8E-04
94	1.8E+00	3.9E-04	1.0E-03	7.2E-07	1.6E-01	7.9E-02	8.9E-09	1.4E-04	6.8E-04
95	2.6E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.3E-08	2.0E-04	1.0E-03
96	2.4E+00	3.9E-04	1.0E-03	9.7E-07	1.6E-01	7.9E-02	1.2E-08	1.9E-04	9.3E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.3E-09	3.5E-05	1.8E-04
98	5.4E-01	3.9E-04	1.0E-03	2.2E-07	1.6E-01	7.9E-02	2.7E-09	4.1E-05	2.1E-04
99	6.4E-01	3.9E-04	1.0E-03	2.6E-07	1.6E-01	7.9E-02	3.2E-09	4.9E-05	2.5E-04
100	1.2E+00	3.9E-04	1.0E-03	4.9E-07	1.6E-01	7.9E-02	6.1E-09	9.4E-05	4.7E-04
101	1.5E+00	3.9E-04	1.0E-03	6.2E-07	1.6E-01	7.9E-02	7.8E-09	1.2E-04	6.0E-04
102	2.0E+00	3.9E-04	1.0E-03	8.1E-07	1.6E-01	7.9E-02	1.0E-08	1.5E-04	7.7E-04
103	2.6E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.3E-08	2.0E-04	1.0E-03
104	4.5E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.2E-09	3.4E-05	1.7E-04
105	5.3E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.7E-09	4.1E-05	2.0E-04
106	6.4E-01	3.9E-04	1.0E-03	2.6E-07	1.6E-01	7.9E-02	3.2E-09	4.9E-05	2.5E-04
107	2.5E+00	3.9E-04	1.0E-03	1.0E-06	1.6E-01	7.9E-02	1.3E-08	1.9E-04	9.6E-04
108	3.8E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	2.9E-04	1.5E-03
109	4.3E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.1E-09	3.3E-05	1.6E-04
110	5.1E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.6E-09	3.9E-05	2.0E-04
111	6.2E-01	3.9E-04	1.0E-03	2.5E-07	1.6E-01	7.9E-02	3.1E-09	4.7E-05	2.4E-04
112	2.8E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.4E-08	2.1E-04	1.1E-03
113	4.7E+00	3.9E-04	1.0E-03	1.9E-06	1.6E-01	7.9E-02	2.3E-08	3.6E-04	1.8E-03
114	4.0E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.0E-09	3.1E-05	1.5E-04
115	4.8E-01	3.9E-04	1.0E-03	1.9E-07	1.6E-01	7.9E-02	2.4E-09	3.7E-05	1.8E-04
116	5.8E-01	3.9E-04	1.0E-03	2.3E-07	1.6E-01	7.9E-02	2.9E-09	4.5E-05	2.2E-04
117	7.2E-01	3.9E-04	1.0E-03	2.9E-07	1.6E-01	7.9E-02	3.6E-09	5.5E-05	2.8E-04
118	2.7E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.3E-08	2.1E-04	1.0E-03
119	4.7E+00	3.9E-04	1.0E-03	1.9E-06	1.6E-01	7.9E-02	2.4E-08	3.7E-04	1.8E-03
120	3.7E-01	3.9E-04	1.0E-03	1.5E-07	1.6E-01	7.9E-02	1.9E-09	2.9E-05	1.4E-04
121	4.4E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.2E-09	3.4E-05	1.7E-04
122	5.3E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.7E-09	4.1E-05	2.1E-04
123	6.6E-01	3.9E-04	1.0E-03	2.6E-07	1.6E-01	7.9E-02	3.3E-09	5.0E-05	2.5E-04
124	2.3E+00	3.9E-04	1.0E-03	9.4E-07	1.6E-01	7.9E-02	1.2E-08	1.8E-04	9.0E-04
125	4.0E+00	3.9E-04	1.0E-03	1.6E-06	1.6E-01	7.9E-02	2.0E-08	3.1E-04	1.5E-03
126	3.5E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.8E-09	2.7E-05	1.3E-04
127	4.1E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.1E-09	3.1E-05	1.6E-04
128	4.9E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.4E-09	3.8E-05	1.9E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	3.9E-04	1.0E-03	2.4E-07	1.6E-01	7.9E-02	3.0E-09	4.6E-05	2.3E-04
130	7.4E-01	3.9E-04	1.0E-03	3.0E-07	1.6E-01	7.9E-02	3.7E-09	5.7E-05	2.9E-04
131	9.7E-01	3.9E-04	1.0E-03	3.9E-07	1.6E-01	7.9E-02	4.9E-09	7.4E-05	3.7E-04
132	1.3E+00	3.9E-04	1.0E-03	5.3E-07	1.6E-01	7.9E-02	6.6E-09	1.0E-04	5.1E-04
133	1.9E+00	3.9E-04	1.0E-03	7.6E-07	1.6E-01	7.9E-02	9.5E-09	1.5E-04	7.3E-04
134	3.0E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.3E-04	1.2E-03
135	5.4E+00	3.9E-04	1.0E-03	2.2E-06	1.6E-01	7.9E-02	2.7E-08	4.1E-04	2.1E-03
136	3.2E-01	3.9E-04	1.0E-03	1.3E-07	1.6E-01	7.9E-02	1.6E-09	2.5E-05	1.2E-04
137	3.8E-01	3.9E-04	1.0E-03	1.5E-07	1.6E-01	7.9E-02	1.9E-09	2.9E-05	1.5E-04
138	4.5E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.2E-09	3.4E-05	1.7E-04
139	5.4E-01	3.9E-04	1.0E-03	2.2E-07	1.6E-01	7.9E-02	2.7E-09	4.1E-05	2.1E-04
140	6.6E-01	3.9E-04	1.0E-03	2.7E-07	1.6E-01	7.9E-02	3.3E-09	5.1E-05	2.6E-04
141	8.4E-01	3.9E-04	1.0E-03	3.4E-07	1.6E-01	7.9E-02	4.2E-09	6.5E-05	3.2E-04
142	1.1E+00	3.9E-04	1.0E-03	4.4E-07	1.6E-01	7.9E-02	5.5E-09	8.5E-05	4.3E-04
143	1.5E+00	3.9E-04	1.0E-03	6.1E-07	1.6E-01	7.9E-02	7.6E-09	1.2E-04	5.8E-04
144	2.1E+00	3.9E-04	1.0E-03	8.5E-07	1.6E-01	7.9E-02	1.1E-08	1.6E-04	8.1E-04
145	3.1E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.4E-04	1.2E-03
146	3.0E-01	3.9E-04	1.0E-03	1.2E-07	1.6E-01	7.9E-02	1.5E-09	2.3E-05	1.2E-04
147	3.5E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.7E-09	2.7E-05	1.3E-04
148	4.1E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.0E-09	3.1E-05	1.6E-04
149	4.8E-01	3.9E-04	1.0E-03	1.9E-07	1.6E-01	7.9E-02	2.4E-09	3.7E-05	1.9E-04
150	5.9E-01	3.9E-04	1.0E-03	2.4E-07	1.6E-01	7.9E-02	2.9E-09	4.5E-05	2.3E-04
151	7.2E-01	3.9E-04	1.0E-03	2.9E-07	1.6E-01	7.9E-02	3.6E-09	5.6E-05	2.8E-04
152	9.0E-01	3.9E-04	1.0E-03	3.6E-07	1.6E-01	7.9E-02	4.5E-09	6.9E-05	3.5E-04
153	1.2E+00	3.9E-04	1.0E-03	4.7E-07	1.6E-01	7.9E-02	5.8E-09	8.9E-05	4.5E-04
154	1.5E+00	3.9E-04	1.0E-03	5.9E-07	1.6E-01	7.9E-02	7.4E-09	1.1E-04	5.6E-04
155	1.9E+00	3.9E-04	1.0E-03	7.6E-07	1.6E-01	7.9E-02	9.5E-09	1.5E-04	7.3E-04
156	2.8E-01	3.9E-04	1.0E-03	1.1E-07	1.6E-01	7.9E-02	1.4E-09	2.2E-05	1.1E-04
157	3.2E-01	3.9E-04	1.0E-03	1.3E-07	1.6E-01	7.9E-02	1.6E-09	2.5E-05	1.2E-04
158	3.7E-01	3.9E-04	1.0E-03	1.5E-07	1.6E-01	7.9E-02	1.9E-09	2.9E-05	1.4E-04
159	4.3E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.2E-09	3.3E-05	1.7E-04
160	5.2E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.6E-09	4.0E-05	2.0E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	3.9E-04	1.0E-03	2.5E-07	1.6E-01	7.9E-02	3.1E-09	4.8E-05	2.4E-04
162	7.4E-01	3.9E-04	1.0E-03	3.0E-07	1.6E-01	7.9E-02	3.7E-09	5.7E-05	2.9E-04
163	9.0E-01	3.9E-04	1.0E-03	3.6E-07	1.6E-01	7.9E-02	4.5E-09	6.9E-05	3.5E-04
164	1.1E+00	3.9E-04	1.0E-03	4.3E-07	1.6E-01	7.9E-02	5.4E-09	8.2E-05	4.1E-04
165	1.3E+00	3.9E-04	1.0E-03	5.3E-07	1.6E-01	7.9E-02	6.6E-09	1.0E-04	5.0E-04
166	2.6E-01	3.9E-04	1.0E-03	1.0E-07	1.6E-01	7.9E-02	1.3E-09	2.0E-05	1.0E-04
167	2.9E-01	3.9E-04	1.0E-03	1.2E-07	1.6E-01	7.9E-02	1.5E-09	2.3E-05	1.1E-04
168	3.4E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.7E-09	2.6E-05	1.3E-04
169	3.9E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.0E-09	3.0E-05	1.5E-04
170	4.5E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.3E-09	3.5E-05	1.7E-04
171	5.3E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.7E-09	4.1E-05	2.0E-04
172	6.1E-01	3.9E-04	1.0E-03	2.5E-07	1.6E-01	7.9E-02	3.1E-09	4.7E-05	2.3E-04
173	7.1E-01	3.9E-04	1.0E-03	2.8E-07	1.6E-01	7.9E-02	3.6E-09	5.4E-05	2.7E-04
174	8.2E-01	3.9E-04	1.0E-03	3.3E-07	1.6E-01	7.9E-02	4.1E-09	6.3E-05	3.1E-04
175	9.5E-01	3.9E-04	1.0E-03	3.8E-07	1.6E-01	7.9E-02	4.8E-09	7.3E-05	3.7E-04
176	2.4E-01	3.9E-04	1.0E-03	9.7E-08	1.6E-01	7.9E-02	1.2E-09	1.9E-05	9.3E-05
177	2.7E-01	3.9E-04	1.0E-03	1.1E-07	1.6E-01	7.9E-02	1.4E-09	2.1E-05	1.0E-04
178	3.0E-01	3.9E-04	1.0E-03	1.2E-07	1.6E-01	7.9E-02	1.5E-09	2.3E-05	1.2E-04
179	3.5E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.7E-09	2.7E-05	1.3E-04
180	3.9E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.0E-09	3.0E-05	1.5E-04
181	4.5E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.3E-09	3.5E-05	1.7E-04
182	5.1E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.6E-09	3.9E-05	2.0E-04
183	5.7E-01	3.9E-04	1.0E-03	2.3E-07	1.6E-01	7.9E-02	2.9E-09	4.4E-05	2.2E-04
184	6.4E-01	3.9E-04	1.0E-03	2.6E-07	1.6E-01	7.9E-02	3.2E-09	4.9E-05	2.5E-04
185	7.2E-01	3.9E-04	1.0E-03	2.9E-07	1.6E-01	7.9E-02	3.6E-09	5.6E-05	2.8E-04
186	5.9E-01	3.9E-04	1.0E-03	2.4E-07	1.6E-01	7.9E-02	2.9E-09	4.5E-05	2.3E-04
187	5.2E-01	3.9E-04	1.0E-03	2.1E-07	1.6E-01	7.9E-02	2.6E-09	4.0E-05	2.0E-04
188	4.7E-01	3.9E-04	1.0E-03	1.9E-07	1.6E-01	7.9E-02	2.3E-09	3.6E-05	1.8E-04
189	2.2E-01	3.9E-04	1.0E-03	8.9E-08	1.6E-01	7.9E-02	1.1E-09	1.7E-05	8.5E-05
190	2.5E-01	3.9E-04	1.0E-03	9.9E-08	1.6E-01	7.9E-02	1.2E-09	1.9E-05	9.5E-05
191	2.7E-01	3.9E-04	1.0E-03	1.1E-07	1.6E-01	7.9E-02	1.4E-09	2.1E-05	1.1E-04
192	3.1E-01	3.9E-04	1.0E-03	1.2E-07	1.6E-01	7.9E-02	1.5E-09	2.4E-05	1.2E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.7E-09	2.7E-05	1.3E-04
194	3.8E-01	3.9E-04	1.0E-03	1.5E-07	1.6E-01	7.9E-02	1.9E-09	3.0E-05	1.5E-04
195	4.3E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.1E-09	3.3E-05	1.6E-04
196	4.7E-01	3.9E-04	1.0E-03	1.9E-07	1.6E-01	7.9E-02	2.4E-09	3.6E-05	1.8E-04
197	5.6E-01	3.9E-04	1.0E-03	2.3E-07	1.6E-01	7.9E-02	2.8E-09	4.4E-05	2.2E-04
198	6.1E-01	3.9E-04	1.0E-03	2.4E-07	1.6E-01	7.9E-02	3.0E-09	4.7E-05	2.3E-04
199	5.7E-01	3.9E-04	1.0E-03	2.3E-07	1.6E-01	7.9E-02	2.9E-09	4.4E-05	2.2E-04
200	5.3E-01	3.9E-04	1.0E-03	2.2E-07	1.6E-01	7.9E-02	2.7E-09	4.1E-05	2.1E-04
201	4.9E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.5E-09	3.8E-05	1.9E-04
202	4.5E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.3E-09	3.5E-05	1.7E-04
203	4.1E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.1E-09	3.1E-05	1.6E-04
204	2.0E-01	3.9E-04	1.0E-03	8.3E-08	1.6E-01	7.9E-02	1.0E-09	1.6E-05	7.9E-05
205	2.3E-01	3.9E-04	1.0E-03	9.1E-08	1.6E-01	7.9E-02	1.1E-09	1.7E-05	8.7E-05
206	2.5E-01	3.9E-04	1.0E-03	1.0E-07	1.6E-01	7.9E-02	1.2E-09	1.9E-05	9.6E-05
207	2.7E-01	3.9E-04	1.0E-03	1.1E-07	1.6E-01	7.9E-02	1.4E-09	2.1E-05	1.1E-04
208	3.0E-01	3.9E-04	1.0E-03	1.2E-07	1.6E-01	7.9E-02	1.5E-09	2.3E-05	1.2E-04
209	3.3E-01	3.9E-04	1.0E-03	1.3E-07	1.6E-01	7.9E-02	1.7E-09	2.6E-05	1.3E-04
210	3.6E-01	3.9E-04	1.0E-03	1.5E-07	1.6E-01	7.9E-02	1.8E-09	2.8E-05	1.4E-04
211	4.2E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.1E-09	3.3E-05	1.6E-04
212	4.5E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.3E-09	3.5E-05	1.7E-04
213	5.0E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.5E-09	3.8E-05	1.9E-04
214	5.0E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.5E-09	3.8E-05	1.9E-04
215	4.9E-01	3.9E-04	1.0E-03	2.0E-07	1.6E-01	7.9E-02	2.4E-09	3.7E-05	1.9E-04
216	4.7E-01	3.9E-04	1.0E-03	1.9E-07	1.6E-01	7.9E-02	2.4E-09	3.6E-05	1.8E-04
217	4.4E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.2E-09	3.4E-05	1.7E-04
218	4.2E-01	3.9E-04	1.0E-03	1.7E-07	1.6E-01	7.9E-02	2.1E-09	3.2E-05	1.6E-04
219	3.9E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	1.9E-09	3.0E-05	1.5E-04
220	3.5E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.8E-09	2.7E-05	1.4E-04
221	1.9E-01	3.9E-04	1.0E-03	7.6E-08	1.6E-01	7.9E-02	9.5E-10	1.5E-05	7.3E-05
222	2.1E-01	3.9E-04	1.0E-03	8.3E-08	1.6E-01	7.9E-02	1.0E-09	1.6E-05	7.9E-05
223	2.2E-01	3.9E-04	1.0E-03	9.1E-08	1.6E-01	7.9E-02	1.1E-09	1.7E-05	8.7E-05
224	2.5E-01	3.9E-04	1.0E-03	9.9E-08	1.6E-01	7.9E-02	1.2E-09	1.9E-05	9.4E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	3.9E-04	1.0E-03	1.1E-07	1.6E-01	7.9E-02	1.3E-09	2.1E-05	1.0E-04
226	3.1E-01	3.9E-04	1.0E-03	1.3E-07	1.6E-01	7.9E-02	1.6E-09	2.4E-05	1.2E-04
227	3.3E-01	3.9E-04	1.0E-03	1.3E-07	1.6E-01	7.9E-02	1.7E-09	2.6E-05	1.3E-04
228	3.5E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.8E-09	2.7E-05	1.4E-04
229	3.7E-01	3.9E-04	1.0E-03	1.5E-07	1.6E-01	7.9E-02	1.9E-09	2.9E-05	1.4E-04
230	4.0E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.0E-09	3.1E-05	1.6E-04
231	4.0E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.0E-09	3.1E-05	1.5E-04
232	4.0E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	2.0E-09	3.1E-05	1.5E-04
233	3.9E-01	3.9E-04	1.0E-03	1.6E-07	1.6E-01	7.9E-02	1.9E-09	3.0E-05	1.5E-04
234	3.7E-01	3.9E-04	1.0E-03	1.5E-07	1.6E-01	7.9E-02	1.9E-09	2.9E-05	1.4E-04
235	3.5E-01	3.9E-04	1.0E-03	1.4E-07	1.6E-01	7.9E-02	1.8E-09	2.7E-05	1.4E-04
236	3.3E-01	3.9E-04	1.0E-03	1.3E-07	1.6E-01	7.9E-02	1.7E-09	2.5E-05	1.3E-04
237	3.1E-01	3.9E-04	1.0E-03	1.3E-07	1.6E-01	7.9E-02	1.6E-09	2.4E-05	1.2E-04
238	1.8E+00	3.9E-04	1.0E-03	7.2E-07	1.6E-01	7.9E-02	9.0E-09	1.4E-04	6.9E-04
239	1.8E+00	3.9E-04	1.0E-03	7.3E-07	1.6E-01	7.9E-02	9.2E-09	1.4E-04	7.0E-04
240	1.9E+00	3.9E-04	1.0E-03	7.5E-07	1.6E-01	7.9E-02	9.3E-09	1.4E-04	7.1E-04
241	1.9E+00	3.9E-04	1.0E-03	7.6E-07	1.6E-01	7.9E-02	9.5E-09	1.5E-04	7.3E-04
242	1.9E+00	3.9E-04	1.0E-03	7.7E-07	1.6E-01	7.9E-02	9.6E-09	1.5E-04	7.4E-04
243	1.9E+00	3.9E-04	1.0E-03	7.8E-07	1.6E-01	7.9E-02	9.7E-09	1.5E-04	7.5E-04
244	2.0E+00	3.9E-04	1.0E-03	7.9E-07	1.6E-01	7.9E-02	9.8E-09	1.5E-04	7.5E-04
245	2.0E+00	3.9E-04	1.0E-03	8.0E-07	1.6E-01	7.9E-02	1.0E-08	1.5E-04	7.7E-04
246	2.0E+00	3.9E-04	1.0E-03	8.2E-07	1.6E-01	7.9E-02	1.0E-08	1.6E-04	7.8E-04
247	2.1E+00	3.9E-04	1.0E-03	8.3E-07	1.6E-01	7.9E-02	1.0E-08	1.6E-04	8.0E-04
248	2.1E+00	3.9E-04	1.0E-03	8.5E-07	1.6E-01	7.9E-02	1.1E-08	1.6E-04	8.1E-04
249	2.1E+00	3.9E-04	1.0E-03	8.6E-07	1.6E-01	7.9E-02	1.1E-08	1.6E-04	8.2E-04
250	2.2E+00	3.9E-04	1.0E-03	8.7E-07	1.6E-01	7.9E-02	1.1E-08	1.7E-04	8.3E-04
251	2.2E+00	3.9E-04	1.0E-03	8.8E-07	1.6E-01	7.9E-02	1.1E-08	1.7E-04	8.4E-04
252	2.2E+00	3.9E-04	1.0E-03	8.8E-07	1.6E-01	7.9E-02	1.1E-08	1.7E-04	8.4E-04
253	2.2E+00	3.9E-04	1.0E-03	9.0E-07	1.6E-01	7.9E-02	1.1E-08	1.7E-04	8.6E-04
254	2.3E+00	3.9E-04	1.0E-03	9.2E-07	1.6E-01	7.9E-02	1.1E-08	1.8E-04	8.8E-04
255	2.3E+00	3.9E-04	1.0E-03	9.3E-07	1.6E-01	7.9E-02	1.2E-08	1.8E-04	8.9E-04
256	2.3E+00	3.9E-04	1.0E-03	9.5E-07	1.6E-01	7.9E-02	1.2E-08	1.8E-04	9.1E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	3.9E-04	1.0E-03	9.6E-07	1.6E-01	7.9E-02	1.2E-08	1.8E-04	9.2E-04
258	2.4E+00	3.9E-04	1.0E-03	9.7E-07	1.6E-01	7.9E-02	1.2E-08	1.9E-04	9.3E-04
259	2.4E+00	3.9E-04	1.0E-03	9.8E-07	1.6E-01	7.9E-02	1.2E-08	1.9E-04	9.4E-04
260	2.5E+00	3.9E-04	1.0E-03	9.9E-07	1.6E-01	7.9E-02	1.2E-08	1.9E-04	9.5E-04
261	2.5E+00	3.9E-04	1.0E-03	1.0E-06	1.6E-01	7.9E-02	1.3E-08	1.9E-04	9.7E-04
262	2.6E+00	3.9E-04	1.0E-03	1.0E-06	1.6E-01	7.9E-02	1.3E-08	2.0E-04	9.9E-04
263	2.6E+00	3.9E-04	1.0E-03	1.0E-06	1.6E-01	7.9E-02	1.3E-08	2.0E-04	1.0E-03
264	2.6E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.3E-08	2.0E-04	1.0E-03
265	2.7E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.3E-08	2.1E-04	1.0E-03
266	2.7E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.4E-08	2.1E-04	1.0E-03
267	2.7E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.4E-08	2.1E-04	1.1E-03
268	2.7E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.4E-08	2.1E-04	1.1E-03
269	2.8E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.4E-08	2.1E-04	1.1E-03
270	2.8E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.4E-08	2.1E-04	1.1E-03
271	2.9E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.2E-04	1.1E-03
272	3.0E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.3E-04	1.1E-03
273	3.0E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.3E-04	1.2E-03
274	3.0E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.3E-04	1.2E-03
275	3.0E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.3E-04	1.2E-03
276	3.1E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.4E-04	1.2E-03
277	3.1E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.4E-04	1.2E-03
278	3.1E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.4E-04	1.2E-03
279	3.1E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.4E-04	1.2E-03
280	3.0E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.3E-04	1.2E-03
281	3.0E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.3E-04	1.2E-03
282	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
283	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
284	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
285	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
286	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
287	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
288	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
290	3.3E+00	3.9E-04	1.0E-03	1.3E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
291	3.3E+00	3.9E-04	1.0E-03	1.3E-06	1.6E-01	7.9E-02	1.7E-08	2.5E-04	1.3E-03
292	3.3E+00	3.9E-04	1.0E-03	1.3E-06	1.6E-01	7.9E-02	1.6E-08	2.5E-04	1.3E-03
293	3.9E+00	3.9E-04	1.0E-03	1.6E-06	1.6E-01	7.9E-02	2.0E-08	3.0E-04	1.5E-03
294	3.9E+00	3.9E-04	1.0E-03	1.6E-06	1.6E-01	7.9E-02	1.9E-08	3.0E-04	1.5E-03
295	3.9E+00	3.9E-04	1.0E-03	1.6E-06	1.6E-01	7.9E-02	1.9E-08	3.0E-04	1.5E-03
296	3.8E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	2.9E-04	1.5E-03
297	3.8E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	2.9E-04	1.4E-03
298	3.7E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	2.9E-04	1.4E-03
299	3.7E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.8E-08	2.8E-04	1.4E-03
300	3.6E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.8E-08	2.8E-04	1.4E-03
301	3.5E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.8E-08	2.7E-04	1.4E-03
302	3.5E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.7E-04	1.3E-03
303	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
304	4.4E+00	3.9E-04	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.2E-08	3.4E-04	1.7E-03
305	4.3E+00	3.9E-04	1.0E-03	1.7E-06	1.6E-01	7.9E-02	2.2E-08	3.3E-04	1.7E-03
306	4.2E+00	3.9E-04	1.0E-03	1.7E-06	1.6E-01	7.9E-02	2.1E-08	3.3E-04	1.6E-03
307	4.2E+00	3.9E-04	1.0E-03	1.7E-06	1.6E-01	7.9E-02	2.1E-08	3.2E-04	1.6E-03
308	4.1E+00	3.9E-04	1.0E-03	1.6E-06	1.6E-01	7.9E-02	2.1E-08	3.2E-04	1.6E-03
309	4.0E+00	3.9E-04	1.0E-03	1.6E-06	1.6E-01	7.9E-02	2.0E-08	3.1E-04	1.5E-03
310	3.9E+00	3.9E-04	1.0E-03	1.6E-06	1.6E-01	7.9E-02	2.0E-08	3.0E-04	1.5E-03
311	3.8E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	2.9E-04	1.5E-03
312	3.7E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	2.9E-04	1.4E-03
313	3.6E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.8E-08	2.8E-04	1.4E-03
314	3.5E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.8E-08	2.7E-04	1.4E-03
315	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
316	4.7E+00	3.9E-04	1.0E-03	1.9E-06	1.6E-01	7.9E-02	2.4E-08	3.6E-04	1.8E-03
317	4.6E+00	3.9E-04	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.3E-08	3.5E-04	1.8E-03
318	4.5E+00	3.9E-04	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.3E-08	3.4E-04	1.7E-03
319	4.4E+00	3.9E-04	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.2E-08	3.4E-04	1.7E-03
320	4.2E+00	3.9E-04	1.0E-03	1.7E-06	1.6E-01	7.9E-02	2.1E-08	3.3E-04	1.6E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	3.9E-04	1.0E-03	1.7E-06	1.6E-01	7.9E-02	2.1E-08	3.2E-04	1.6E-03
322	4.0E+00	3.9E-04	1.0E-03	1.6E-06	1.6E-01	7.9E-02	2.0E-08	3.1E-04	1.5E-03
323	3.8E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	3.0E-04	1.5E-03
324	3.7E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	2.9E-04	1.4E-03
325	5.0E+00	3.9E-04	1.0E-03	2.0E-06	1.6E-01	7.9E-02	2.5E-08	3.9E-04	1.9E-03
326	4.9E+00	3.9E-04	1.0E-03	2.0E-06	1.6E-01	7.9E-02	2.4E-08	3.7E-04	1.9E-03
327	4.7E+00	3.9E-04	1.0E-03	1.9E-06	1.6E-01	7.9E-02	2.4E-08	3.6E-04	1.8E-03
328	4.5E+00	3.9E-04	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.3E-08	3.5E-04	1.7E-03
329	4.4E+00	3.9E-04	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.2E-08	3.4E-04	1.7E-03
330	4.2E+00	3.9E-04	1.0E-03	1.7E-06	1.6E-01	7.9E-02	2.1E-08	3.2E-04	1.6E-03
331	5.2E+00	3.9E-04	1.0E-03	2.1E-06	1.6E-01	7.9E-02	2.6E-08	4.0E-04	2.0E-03
332	5.0E+00	3.9E-04	1.0E-03	2.0E-06	1.6E-01	7.9E-02	2.5E-08	3.9E-04	1.9E-03
333	4.8E+00	3.9E-04	1.0E-03	1.9E-06	1.6E-01	7.9E-02	2.4E-08	3.7E-04	1.8E-03
334	4.6E+00	3.9E-04	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.3E-08	3.5E-04	1.8E-03
335	1.7E+00	3.9E-04	1.0E-03	7.0E-07	1.6E-01	7.9E-02	8.7E-09	1.3E-04	6.7E-04
336	1.8E+00	3.9E-04	1.0E-03	7.2E-07	1.6E-01	7.9E-02	9.0E-09	1.4E-04	6.9E-04
337	1.8E+00	3.9E-04	1.0E-03	7.4E-07	1.6E-01	7.9E-02	9.2E-09	1.4E-04	7.0E-04
338	1.9E+00	3.9E-04	1.0E-03	7.5E-07	1.6E-01	7.9E-02	9.4E-09	1.4E-04	7.2E-04
339	1.9E+00	3.9E-04	1.0E-03	7.6E-07	1.6E-01	7.9E-02	9.5E-09	1.4E-04	7.2E-04
340	1.9E+00	3.9E-04	1.0E-03	7.8E-07	1.6E-01	7.9E-02	9.7E-09	1.5E-04	7.5E-04
341	2.0E+00	3.9E-04	1.0E-03	8.0E-07	1.6E-01	7.9E-02	1.0E-08	1.5E-04	7.7E-04
342	2.0E+00	3.9E-04	1.0E-03	8.2E-07	1.6E-01	7.9E-02	1.0E-08	1.6E-04	7.9E-04
343	2.0E+00	3.9E-04	1.0E-03	8.2E-07	1.6E-01	7.9E-02	1.0E-08	1.6E-04	7.9E-04
344	2.1E+00	3.9E-04	1.0E-03	8.5E-07	1.6E-01	7.9E-02	1.1E-08	1.6E-04	8.1E-04
345	2.2E+00	3.9E-04	1.0E-03	8.8E-07	1.6E-01	7.9E-02	1.1E-08	1.7E-04	8.4E-04
346	2.2E+00	3.9E-04	1.0E-03	9.1E-07	1.6E-01	7.9E-02	1.1E-08	1.7E-04	8.7E-04
347	2.2E+00	3.9E-04	1.0E-03	8.9E-07	1.6E-01	7.9E-02	1.1E-08	1.7E-04	8.5E-04
348	2.3E+00	3.9E-04	1.0E-03	9.3E-07	1.6E-01	7.9E-02	1.2E-08	1.8E-04	8.9E-04
349	2.4E+00	3.9E-04	1.0E-03	9.6E-07	1.6E-01	7.9E-02	1.2E-08	1.8E-04	9.2E-04
350	2.5E+00	3.9E-04	1.0E-03	1.0E-06	1.6E-01	7.9E-02	1.2E-08	1.9E-04	9.6E-04
351	2.4E+00	3.9E-04	1.0E-03	9.8E-07	1.6E-01	7.9E-02	1.2E-08	1.9E-04	9.3E-04
352	2.5E+00	3.9E-04	1.0E-03	1.0E-06	1.6E-01	7.9E-02	1.3E-08	2.0E-04	9.8E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.3E-08	2.0E-04	1.0E-03
354	2.7E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.4E-08	2.1E-04	1.1E-03
355	2.6E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.3E-08	2.0E-04	1.0E-03
356	2.8E+00	3.9E-04	1.0E-03	1.1E-06	1.6E-01	7.9E-02	1.4E-08	2.1E-04	1.1E-03
357	2.9E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.2E-04	1.1E-03
358	3.0E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.3E-04	1.2E-03
359	2.9E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.2E-04	1.1E-03
360	3.1E+00	3.9E-04	1.0E-03	1.2E-06	1.6E-01	7.9E-02	1.5E-08	2.4E-04	1.2E-03
361	3.2E+00	3.9E-04	1.0E-03	1.3E-06	1.6E-01	7.9E-02	1.6E-08	2.5E-04	1.2E-03
362	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
363	3.2E+00	3.9E-04	1.0E-03	1.3E-06	1.6E-01	7.9E-02	1.6E-08	2.5E-04	1.2E-03
364	3.4E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.7E-08	2.6E-04	1.3E-03
365	3.6E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.8E-08	2.8E-04	1.4E-03
366	3.8E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	2.9E-04	1.5E-03
367	3.5E+00	3.9E-04	1.0E-03	1.4E-06	1.6E-01	7.9E-02	1.8E-08	2.7E-04	1.3E-03
368	3.7E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	2.9E-04	1.4E-03
369	4.0E+00	3.9E-04	1.0E-03	1.6E-06	1.6E-01	7.9E-02	2.0E-08	3.1E-04	1.5E-03
370	4.3E+00	3.9E-04	1.0E-03	1.7E-06	1.6E-01	7.9E-02	2.2E-08	3.3E-04	1.7E-03
371	3.8E+00	3.9E-04	1.0E-03	1.5E-06	1.6E-01	7.9E-02	1.9E-08	3.0E-04	1.5E-03
372	4.1E+00	3.9E-04	1.0E-03	1.7E-06	1.6E-01	7.9E-02	2.1E-08	3.2E-04	1.6E-03
373	4.5E+00	3.9E-04	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.3E-08	3.5E-04	1.7E-03
374	4.8E+00	3.9E-04	1.0E-03	2.0E-06	1.6E-01	7.9E-02	2.4E-08	3.7E-04	1.9E-03
375	4.2E+00	3.9E-04	1.0E-03	1.7E-06	1.6E-01	7.9E-02	2.1E-08	3.2E-04	1.6E-03
376	4.6E+00	3.9E-04	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.3E-08	3.5E-04	1.8E-03
377	5.0E+00	3.9E-04	1.0E-03	2.0E-06	1.6E-01	7.9E-02	2.5E-08	3.9E-04	1.9E-03
378	5.5E+00	3.9E-04	1.0E-03	2.2E-06	1.6E-01	7.9E-02	2.8E-08	4.2E-04	2.1E-03
379	4.5E+00	3.9E-04	1.0E-03	1.8E-06	1.6E-01	7.9E-02	2.3E-08	3.5E-04	1.8E-03
380	5.0E+00	3.9E-04	1.0E-03	2.0E-06	1.6E-01	7.9E-02	2.5E-08	3.9E-04	1.9E-03
381	5.6E+00	3.9E-04	1.0E-03	2.2E-06	1.6E-01	7.9E-02	2.8E-08	4.3E-04	2.1E-03
382	6.2E+00	3.9E-04	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.1E-08	4.8E-04	2.4E-03
383	4.9E+00	3.9E-04	1.0E-03	2.0E-06	1.6E-01	7.9E-02	2.5E-08	3.8E-04	1.9E-03
384	5.5E+00	3.9E-04	1.0E-03	2.2E-06	1.6E-01	7.9E-02	2.8E-08	4.2E-04	2.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	3.9E-04	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.1E-08	4.7E-04	2.4E-03
386	6.9E+00	3.9E-04	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.5E-08	5.3E-04	2.7E-03
387	5.2E+00	3.9E-04	1.0E-03	2.1E-06	1.6E-01	7.9E-02	2.6E-08	4.0E-04	2.0E-03
388	5.9E+00	3.9E-04	1.0E-03	2.4E-06	1.6E-01	7.9E-02	3.0E-08	4.6E-04	2.3E-03
389	6.7E+00	3.9E-04	1.0E-03	2.7E-06	1.6E-01	7.9E-02	3.4E-08	5.2E-04	2.6E-03
390	7.7E+00	3.9E-04	1.0E-03	3.1E-06	1.6E-01	7.9E-02	3.9E-08	5.9E-04	3.0E-03
391	5.6E+00	3.9E-04	1.0E-03	2.2E-06	1.6E-01	7.9E-02	2.8E-08	4.3E-04	2.1E-03
392	6.3E+00	3.9E-04	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.2E-08	4.9E-04	2.4E-03
393	7.2E+00	3.9E-04	1.0E-03	2.9E-06	1.6E-01	7.9E-02	3.6E-08	5.6E-04	2.8E-03
394	8.4E+00	3.9E-04	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.2E-08	6.5E-04	3.2E-03
395	5.8E+00	3.9E-04	1.0E-03	2.3E-06	1.6E-01	7.9E-02	2.9E-08	4.5E-04	2.2E-03
396	6.7E+00	3.9E-04	1.0E-03	2.7E-06	1.6E-01	7.9E-02	3.4E-08	5.1E-04	2.6E-03
397	7.7E+00	3.9E-04	1.0E-03	3.1E-06	1.6E-01	7.9E-02	3.9E-08	5.9E-04	3.0E-03
398	9.1E+00	3.9E-04	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.6E-08	7.0E-04	3.5E-03
399	6.0E+00	3.9E-04	1.0E-03	2.4E-06	1.6E-01	7.9E-02	3.0E-08	4.7E-04	2.3E-03
400	7.0E+00	3.9E-04	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.5E-08	5.4E-04	2.7E-03
401	8.1E+00	3.9E-04	1.0E-03	3.3E-06	1.6E-01	7.9E-02	4.1E-08	6.3E-04	3.1E-03
402	9.6E+00	3.9E-04	1.0E-03	3.9E-06	1.6E-01	7.9E-02	4.8E-08	7.4E-04	3.7E-03
403	6.2E+00	3.9E-04	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.1E-08	4.8E-04	2.4E-03
404	7.2E+00	3.9E-04	1.0E-03	2.9E-06	1.6E-01	7.9E-02	3.6E-08	5.6E-04	2.8E-03
405	8.4E+00	3.9E-04	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.2E-08	6.5E-04	3.3E-03
406	1.0E+01	3.9E-04	1.0E-03	4.0E-06	1.6E-01	7.9E-02	5.1E-08	7.7E-04	3.9E-03
407	6.3E+00	3.9E-04	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.2E-08	4.9E-04	2.4E-03
408	7.4E+00	3.9E-04	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.7E-08	5.7E-04	2.8E-03
409	8.7E+00	3.9E-04	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.7E-04	3.3E-03
410	1.0E+01	3.9E-04	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.2E-08	8.0E-04	4.0E-03
411	6.4E+00	3.9E-04	1.0E-03	2.6E-06	1.6E-01	7.9E-02	3.2E-08	4.9E-04	2.5E-03
412	7.5E+00	3.9E-04	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.8E-08	5.8E-04	2.9E-03
413	8.8E+00	3.9E-04	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.4E-08	6.8E-04	3.4E-03
414	1.1E+01	3.9E-04	1.0E-03	4.3E-06	1.6E-01	7.9E-02	5.3E-08	8.2E-04	4.1E-03
415	6.4E+00	3.9E-04	1.0E-03	2.6E-06	1.6E-01	7.9E-02	3.2E-08	4.9E-04	2.5E-03
416	7.5E+00	3.9E-04	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.8E-08	5.8E-04	2.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	3.9E-04	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.5E-08	6.9E-04	3.4E-03
418	1.1E+01	3.9E-04	1.0E-03	4.3E-06	1.6E-01	7.9E-02	5.4E-08	8.3E-04	4.1E-03
419	6.4E+00	3.9E-04	1.0E-03	2.6E-06	1.6E-01	7.9E-02	3.2E-08	4.9E-04	2.4E-03
420	7.5E+00	3.9E-04	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.8E-08	5.8E-04	2.9E-03
421	8.9E+00	3.9E-04	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.5E-08	6.8E-04	3.4E-03
422	1.1E+01	3.9E-04	1.0E-03	4.3E-06	1.6E-01	7.9E-02	5.4E-08	8.3E-04	4.1E-03
423	6.3E+00	3.9E-04	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.1E-08	4.8E-04	2.4E-03
424	7.4E+00	3.9E-04	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.7E-08	5.7E-04	2.8E-03
425	8.8E+00	3.9E-04	1.0E-03	3.5E-06	1.6E-01	7.9E-02	4.4E-08	6.8E-04	3.4E-03
426	1.1E+01	3.9E-04	1.0E-03	4.3E-06	1.6E-01	7.9E-02	5.3E-08	8.2E-04	4.1E-03
427	6.1E+00	3.9E-04	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.1E-08	4.7E-04	2.3E-03
428	7.2E+00	3.9E-04	1.0E-03	2.9E-06	1.6E-01	7.9E-02	3.6E-08	5.5E-04	2.8E-03
429	8.6E+00	3.9E-04	1.0E-03	3.4E-06	1.6E-01	7.9E-02	4.3E-08	6.6E-04	3.3E-03
430	1.0E+01	3.9E-04	1.0E-03	4.2E-06	1.6E-01	7.9E-02	5.2E-08	8.0E-04	4.0E-03
431	5.9E+00	3.9E-04	1.0E-03	2.4E-06	1.6E-01	7.9E-02	3.0E-08	4.5E-04	2.3E-03
432	6.9E+00	3.9E-04	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.5E-08	5.3E-04	2.7E-03
433	8.3E+00	3.9E-04	1.0E-03	3.3E-06	1.6E-01	7.9E-02	4.2E-08	6.4E-04	3.2E-03
434	1.0E+01	3.9E-04	1.0E-03	4.0E-06	1.6E-01	7.9E-02	5.0E-08	7.7E-04	3.9E-03
435	5.6E+00	3.9E-04	1.0E-03	2.3E-06	1.6E-01	7.9E-02	2.8E-08	4.3E-04	2.2E-03
436	6.6E+00	3.9E-04	1.0E-03	2.7E-06	1.6E-01	7.9E-02	3.3E-08	5.1E-04	2.6E-03
437	7.9E+00	3.9E-04	1.0E-03	3.2E-06	1.6E-01	7.9E-02	4.0E-08	6.1E-04	3.0E-03
438	9.6E+00	3.9E-04	1.0E-03	3.9E-06	1.6E-01	7.9E-02	4.8E-08	7.4E-04	3.7E-03
439	5.4E+00	3.9E-04	1.0E-03	2.2E-06	1.6E-01	7.9E-02	2.7E-08	4.1E-04	2.1E-03
440	6.3E+00	3.9E-04	1.0E-03	2.5E-06	1.6E-01	7.9E-02	3.2E-08	4.8E-04	2.4E-03
441	7.4E+00	3.9E-04	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.7E-08	5.7E-04	2.9E-03
442	9.0E+00	3.9E-04	1.0E-03	3.6E-06	1.6E-01	7.9E-02	4.5E-08	6.9E-04	3.5E-03
443	5.0E+00	3.9E-04	1.0E-03	2.0E-06	1.6E-01	7.9E-02	2.5E-08	3.9E-04	1.9E-03
444	5.9E+00	3.9E-04	1.0E-03	2.4E-06	1.6E-01	7.9E-02	2.9E-08	4.5E-04	2.3E-03
445	6.9E+00	3.9E-04	1.0E-03	2.8E-06	1.6E-01	7.9E-02	3.5E-08	5.3E-04	2.7E-03
446	8.3E+00	3.9E-04	1.0E-03	3.3E-06	1.6E-01	7.9E-02	4.2E-08	6.4E-04	3.2E-03
447	4.7E+00	3.9E-04	1.0E-03	1.9E-06	1.6E-01	7.9E-02	2.4E-08	3.6E-04	1.8E-03
448	5.4E+00	3.9E-04	1.0E-03	2.2E-06	1.6E-01	7.9E-02	2.7E-08	4.2E-04	2.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	3.9E-04	1.0E-03	2.6E-06	1.6E-01	7.9E-02	3.2E-08	4.9E-04	2.4E-03
450	7.6E+00	3.9E-04	1.0E-03	3.0E-06	1.6E-01	7.9E-02	3.8E-08	5.8E-04	2.9E-03
451	4.4E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.2E-09	3.4E-05	1.7E-04
452	4.4E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.2E-09	3.4E-05	1.7E-04
453	4.4E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.2E-09	3.4E-05	1.7E-04
454	4.5E-01	3.9E-04	1.0E-03	1.8E-07	1.6E-01	7.9E-02	2.2E-09	3.4E-05	1.7E-04
455	5.4E-01	3.9E-04	1.0E-03	2.2E-07	1.6E-01	7.9E-02	2.7E-09	4.1E-05	2.1E-04
456	5.4E-01	3.9E-04	1.0E-03	2.2E-07	1.6E-01	7.9E-02	2.7E-09	4.2E-05	2.1E-04
457	5.5E-01	3.9E-04	1.0E-03	2.2E-07	1.6E-01	7.9E-02	2.7E-09	4.2E-05	2.1E-04
458	5.4E-01	3.9E-04	1.0E-03	2.2E-07	1.6E-01	7.9E-02	2.7E-09	4.2E-05	2.1E-04
459	6.8E-01	3.9E-04	1.0E-03	2.7E-07	1.6E-01	7.9E-02	3.4E-09	5.3E-05	2.6E-04
460	6.8E-01	3.9E-04	1.0E-03	2.8E-07	1.6E-01	7.9E-02	3.4E-09	5.3E-05	2.6E-04
461	6.8E-01	3.9E-04	1.0E-03	2.7E-07	1.6E-01	7.9E-02	3.4E-09	5.3E-05	2.6E-04
462	7.8E-01	3.9E-04	1.0E-03	3.2E-07	1.6E-01	7.9E-02	3.9E-09	6.0E-05	3.0E-04
463	9.7E-01	3.9E-04	1.0E-03	3.9E-07	1.6E-01	7.9E-02	4.9E-09	7.5E-05	3.7E-04
464	7.9E-01	3.9E-04	1.0E-03	3.2E-07	1.6E-01	7.9E-02	4.0E-09	6.1E-05	3.1E-04
465	1.0E+00	3.9E-04	1.0E-03	4.0E-07	1.6E-01	7.9E-02	5.0E-09	7.7E-05	3.9E-04
466	1.3E+00	3.9E-04	1.0E-03	5.3E-07	1.6E-01	7.9E-02	6.6E-09	1.0E-04	5.0E-04
467	1.8E+00	3.9E-04	1.0E-03	7.1E-07	1.6E-01	7.9E-02	8.9E-09	1.4E-04	6.8E-04
468	7.7E-01	3.9E-04	1.0E-03	3.1E-07	1.6E-01	7.9E-02	3.9E-09	5.9E-05	3.0E-04
469	9.8E-01	3.9E-04	1.0E-03	4.0E-07	1.6E-01	7.9E-02	4.9E-09	7.6E-05	3.8E-04
470	1.3E+00	3.9E-04	1.0E-03	5.3E-07	1.6E-01	7.9E-02	6.6E-09	1.0E-04	5.0E-04
471	1.8E+00	3.9E-04	1.0E-03	7.4E-07	1.6E-01	7.9E-02	9.2E-09	1.4E-04	7.1E-04
472	9.2E-01	3.9E-04	1.0E-03	3.7E-07	1.6E-01	7.9E-02	4.6E-09	7.1E-05	3.5E-04
473	1.2E+00	3.9E-04	1.0E-03	4.9E-07	1.6E-01	7.9E-02	6.2E-09	9.5E-05	4.7E-04
474	1.7E+00	3.9E-04	1.0E-03	7.0E-07	1.6E-01	7.9E-02	8.7E-09	1.3E-04	6.7E-04
475	8.3E-01	3.9E-04	1.0E-03	3.4E-07	1.6E-01	7.9E-02	4.2E-09	6.4E-05	3.2E-04
476	1.1E+00	3.9E-04	1.0E-03	4.4E-07	1.6E-01	7.9E-02	5.5E-09	8.5E-05	4.2E-04
477	1.5E+00	3.9E-04	1.0E-03	6.2E-07	1.6E-01	7.9E-02	7.7E-09	1.2E-04	5.9E-04

5. Risk by Construction Phase

e. Risk From Foundation - Mitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	1.4E-04	1.0E-03	4.3E-08	1.6E-01	1.3E-01	8.9E-10	8.6E-06	4.3E-05
2	3.0E-01	1.4E-04	1.0E-03	4.5E-08	1.6E-01	1.3E-01	9.3E-10	9.0E-06	4.5E-05
3	3.1E-01	1.4E-04	1.0E-03	4.7E-08	1.6E-01	1.3E-01	9.7E-10	9.4E-06	4.7E-05
4	3.2E-01	1.4E-04	1.0E-03	4.8E-08	1.6E-01	1.3E-01	1.0E-09	9.7E-06	4.8E-05
5	3.3E-01	1.4E-04	1.0E-03	5.0E-08	1.6E-01	1.3E-01	1.0E-09	1.0E-05	5.0E-05
6	3.4E-01	1.4E-04	1.0E-03	5.1E-08	1.6E-01	1.3E-01	1.1E-09	1.0E-05	5.1E-05
7	3.5E-01	1.4E-04	1.0E-03	5.2E-08	1.6E-01	1.3E-01	1.1E-09	1.1E-05	5.3E-05
8	3.6E-01	1.4E-04	1.0E-03	5.4E-08	1.6E-01	1.3E-01	1.1E-09	1.1E-05	5.4E-05
9	3.7E-01	1.4E-04	1.0E-03	5.6E-08	1.6E-01	1.3E-01	1.2E-09	1.1E-05	5.7E-05
10	3.8E-01	1.4E-04	1.0E-03	5.8E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	5.9E-05
11	4.0E-01	1.4E-04	1.0E-03	6.0E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	6.1E-05
12	4.1E-01	1.4E-04	1.0E-03	6.3E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.4E-05
13	4.3E-01	1.4E-04	1.0E-03	6.4E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.6E-05
14	4.3E-01	1.4E-04	1.0E-03	6.6E-08	1.6E-01	1.3E-01	1.4E-09	1.3E-05	6.7E-05
15	4.3E-01	1.4E-04	1.0E-03	6.5E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.6E-05
16	4.2E-01	1.4E-04	1.0E-03	6.4E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.5E-05
17	3.2E-01	1.4E-04	1.0E-03	4.8E-08	1.6E-01	1.3E-01	1.0E-09	9.6E-06	4.8E-05
18	3.4E-01	1.4E-04	1.0E-03	5.1E-08	1.6E-01	1.3E-01	1.1E-09	1.0E-05	5.1E-05
19	3.6E-01	1.4E-04	1.0E-03	5.4E-08	1.6E-01	1.3E-01	1.1E-09	1.1E-05	5.4E-05
20	3.7E-01	1.4E-04	1.0E-03	5.6E-08	1.6E-01	1.3E-01	1.2E-09	1.1E-05	5.6E-05
21	3.9E-01	1.4E-04	1.0E-03	5.8E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	5.8E-05
22	4.0E-01	1.4E-04	1.0E-03	6.0E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	6.1E-05
23	5.2E-01	1.4E-04	1.0E-03	7.9E-08	1.6E-01	1.3E-01	1.6E-09	1.6E-05	8.0E-05
24	5.3E-01	1.4E-04	1.0E-03	8.1E-08	1.6E-01	1.3E-01	1.7E-09	1.6E-05	8.2E-05
25	5.3E-01	1.4E-04	1.0E-03	8.0E-08	1.6E-01	1.3E-01	1.7E-09	1.6E-05	8.1E-05
26	5.2E-01	1.4E-04	1.0E-03	7.8E-08	1.6E-01	1.3E-01	1.6E-09	1.6E-05	7.9E-05
27	5.0E-01	1.4E-04	1.0E-03	7.5E-08	1.6E-01	1.3E-01	1.6E-09	1.5E-05	7.7E-05
28	3.5E-01	1.4E-04	1.0E-03	5.3E-08	1.6E-01	1.3E-01	1.1E-09	1.1E-05	5.3E-05
29	4.1E-01	1.4E-04	1.0E-03	6.2E-08	1.6E-01	1.3E-01	1.3E-09	1.2E-05	6.2E-05
30	4.3E-01	1.4E-04	1.0E-03	6.6E-08	1.6E-01	1.3E-01	1.4E-09	1.3E-05	6.5E-05
31	4.6E-01	1.4E-04	1.0E-03	7.0E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.9E-05
32	4.8E-01	1.4E-04	1.0E-03	7.3E-08	1.6E-01	1.3E-01	1.5E-09	1.5E-05	7.3E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	1.4E-04	1.0E-03	7.6E-08	1.6E-01	1.3E-01	1.6E-09	1.5E-05	7.6E-05
34	5.2E-01	1.4E-04	1.0E-03	7.9E-08	1.6E-01	1.3E-01	1.6E-09	1.6E-05	7.9E-05
35	5.5E-01	1.4E-04	1.0E-03	8.3E-08	1.6E-01	1.3E-01	1.7E-09	1.7E-05	8.3E-05
36	5.7E-01	1.4E-04	1.0E-03	8.7E-08	1.6E-01	1.3E-01	1.8E-09	1.7E-05	8.7E-05
37	6.3E-01	1.4E-04	1.0E-03	9.6E-08	1.6E-01	1.3E-01	2.0E-09	1.9E-05	9.7E-05
38	6.6E-01	1.4E-04	1.0E-03	9.9E-08	1.6E-01	1.3E-01	2.1E-09	2.0E-05	1.0E-04
39	6.7E-01	1.4E-04	1.0E-03	1.0E-07	1.6E-01	1.3E-01	2.1E-09	2.1E-05	1.0E-04
40	6.5E-01	1.4E-04	1.0E-03	9.8E-08	1.6E-01	1.3E-01	2.0E-09	2.0E-05	1.0E-04
41	6.2E-01	1.4E-04	1.0E-03	9.4E-08	1.6E-01	1.3E-01	2.0E-09	1.9E-05	9.6E-05
42	5.9E-01	1.4E-04	1.0E-03	8.9E-08	1.6E-01	1.3E-01	1.8E-09	1.8E-05	9.1E-05
43	3.9E-01	1.4E-04	1.0E-03	5.9E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	5.8E-05
44	4.3E-01	1.4E-04	1.0E-03	6.5E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.4E-05
45	4.7E-01	1.4E-04	1.0E-03	7.1E-08	1.6E-01	1.3E-01	1.5E-09	1.4E-05	7.0E-05
46	5.5E-01	1.4E-04	1.0E-03	8.3E-08	1.6E-01	1.3E-01	1.7E-09	1.7E-05	8.3E-05
47	5.9E-01	1.4E-04	1.0E-03	8.9E-08	1.6E-01	1.3E-01	1.8E-09	1.8E-05	8.9E-05
48	6.2E-01	1.4E-04	1.0E-03	9.4E-08	1.6E-01	1.3E-01	1.9E-09	1.9E-05	9.4E-05
49	6.5E-01	1.4E-04	1.0E-03	9.9E-08	1.6E-01	1.3E-01	2.0E-09	2.0E-05	9.9E-05
50	6.9E-01	1.4E-04	1.0E-03	1.0E-07	1.6E-01	1.3E-01	2.2E-09	2.1E-05	1.0E-04
51	7.3E-01	1.4E-04	1.0E-03	1.1E-07	1.6E-01	1.3E-01	2.3E-09	2.2E-05	1.1E-04
52	8.2E-01	1.4E-04	1.0E-03	1.2E-07	1.6E-01	1.3E-01	2.6E-09	2.5E-05	1.3E-04
53	8.6E-01	1.4E-04	1.0E-03	1.3E-07	1.6E-01	1.3E-01	2.7E-09	2.6E-05	1.3E-04
54	8.8E-01	1.4E-04	1.0E-03	1.3E-07	1.6E-01	1.3E-01	2.7E-09	2.7E-05	1.3E-04
55	8.9E-01	1.4E-04	1.0E-03	1.3E-07	1.6E-01	1.3E-01	2.8E-09	2.7E-05	1.4E-04
56	8.9E-01	1.4E-04	1.0E-03	1.3E-07	1.6E-01	1.3E-01	2.8E-09	2.7E-05	1.4E-04
57	8.1E-01	1.4E-04	1.0E-03	1.2E-07	1.6E-01	1.3E-01	2.5E-09	2.5E-05	1.2E-04
58	7.6E-01	1.4E-04	1.0E-03	1.1E-07	1.6E-01	1.3E-01	2.4E-09	2.3E-05	1.2E-04
59	7.0E-01	1.4E-04	1.0E-03	1.1E-07	1.6E-01	1.3E-01	2.2E-09	2.2E-05	1.1E-04
60	4.2E-01	1.4E-04	1.0E-03	6.3E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.3E-05
61	4.7E-01	1.4E-04	1.0E-03	7.1E-08	1.6E-01	1.3E-01	1.5E-09	1.4E-05	7.0E-05
62	5.3E-01	1.4E-04	1.0E-03	8.0E-08	1.6E-01	1.3E-01	1.6E-09	1.6E-05	7.9E-05
63	5.9E-01	1.4E-04	1.0E-03	8.9E-08	1.6E-01	1.3E-01	1.8E-09	1.8E-05	8.8E-05
64	6.6E-01	1.4E-04	1.0E-03	9.9E-08	1.6E-01	1.3E-01	2.1E-09	2.0E-05	9.8E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	1.4E-04	1.0E-03	1.3E-07	1.6E-01	1.3E-01	2.6E-09	2.5E-05	1.3E-04
66	9.1E-01	1.4E-04	1.0E-03	1.4E-07	1.6E-01	1.3E-01	2.8E-09	2.7E-05	1.4E-04
67	9.7E-01	1.4E-04	1.0E-03	1.5E-07	1.6E-01	1.3E-01	3.0E-09	2.9E-05	1.5E-04
68	1.1E+00	1.4E-04	1.0E-03	1.7E-07	1.6E-01	1.3E-01	3.5E-09	3.4E-05	1.7E-04
69	1.2E+00	1.4E-04	1.0E-03	1.8E-07	1.6E-01	1.3E-01	3.7E-09	3.6E-05	1.8E-04
70	1.2E+00	1.4E-04	1.0E-03	1.8E-07	1.6E-01	1.3E-01	3.8E-09	3.7E-05	1.8E-04
71	1.2E+00	1.4E-04	1.0E-03	1.8E-07	1.6E-01	1.3E-01	3.8E-09	3.7E-05	1.8E-04
72	1.2E+00	1.4E-04	1.0E-03	1.8E-07	1.6E-01	1.3E-01	3.7E-09	3.6E-05	1.8E-04
73	4.4E-01	1.4E-04	1.0E-03	6.7E-08	1.6E-01	1.3E-01	1.4E-09	1.3E-05	6.6E-05
74	5.0E-01	1.4E-04	1.0E-03	7.6E-08	1.6E-01	1.3E-01	1.6E-09	1.5E-05	7.5E-05
75	5.8E-01	1.4E-04	1.0E-03	8.7E-08	1.6E-01	1.3E-01	1.8E-09	1.7E-05	8.6E-05
76	6.7E-01	1.4E-04	1.0E-03	1.0E-07	1.6E-01	1.3E-01	2.1E-09	2.0E-05	1.0E-04
77	7.7E-01	1.4E-04	1.0E-03	1.2E-07	1.6E-01	1.3E-01	2.4E-09	2.3E-05	1.2E-04
78	8.8E-01	1.4E-04	1.0E-03	1.3E-07	1.6E-01	1.3E-01	2.8E-09	2.6E-05	1.3E-04
79	1.0E+00	1.4E-04	1.0E-03	1.5E-07	1.6E-01	1.3E-01	3.1E-09	3.0E-05	1.5E-04
80	1.4E+00	1.4E-04	1.0E-03	2.1E-07	1.6E-01	1.3E-01	4.3E-09	4.1E-05	2.0E-04
81	1.6E+00	1.4E-04	1.0E-03	2.5E-07	1.6E-01	1.3E-01	5.1E-09	4.9E-05	2.4E-04
82	1.7E+00	1.4E-04	1.0E-03	2.6E-07	1.6E-01	1.3E-01	5.4E-09	5.2E-05	2.6E-04
83	1.7E+00	1.4E-04	1.0E-03	2.6E-07	1.6E-01	1.3E-01	5.4E-09	5.3E-05	2.6E-04
84	1.7E+00	1.4E-04	1.0E-03	2.6E-07	1.6E-01	1.3E-01	5.4E-09	5.3E-05	2.6E-04
85	1.7E+00	1.4E-04	1.0E-03	2.5E-07	1.6E-01	1.3E-01	5.2E-09	5.1E-05	2.5E-04
86	4.5E-01	1.4E-04	1.0E-03	6.8E-08	1.6E-01	1.3E-01	1.4E-09	1.3E-05	6.7E-05
87	5.2E-01	1.4E-04	1.0E-03	7.9E-08	1.6E-01	1.3E-01	1.6E-09	1.6E-05	7.8E-05
88	6.2E-01	1.4E-04	1.0E-03	9.4E-08	1.6E-01	1.3E-01	1.9E-09	1.9E-05	9.3E-05
89	7.4E-01	1.4E-04	1.0E-03	1.1E-07	1.6E-01	1.3E-01	2.3E-09	2.2E-05	1.1E-04
90	8.8E-01	1.4E-04	1.0E-03	1.3E-07	1.6E-01	1.3E-01	2.8E-09	2.6E-05	1.3E-04
91	1.1E+00	1.4E-04	1.0E-03	1.6E-07	1.6E-01	1.3E-01	3.3E-09	3.1E-05	1.6E-04
92	1.3E+00	1.4E-04	1.0E-03	1.9E-07	1.6E-01	1.3E-01	4.0E-09	3.8E-05	1.9E-04
93	1.5E+00	1.4E-04	1.0E-03	2.3E-07	1.6E-01	1.3E-01	4.7E-09	4.5E-05	2.2E-04
94	1.8E+00	1.4E-04	1.0E-03	2.7E-07	1.6E-01	1.3E-01	5.6E-09	5.3E-05	2.6E-04
95	2.6E+00	1.4E-04	1.0E-03	4.0E-07	1.6E-01	1.3E-01	8.2E-09	8.0E-05	4.0E-04
96	2.4E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	1.3E-01	7.5E-09	7.4E-05	3.7E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	1.4E-04	1.0E-03	6.9E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.8E-05
98	5.4E-01	1.4E-04	1.0E-03	8.1E-08	1.6E-01	1.3E-01	1.7E-09	1.6E-05	8.0E-05
99	6.4E-01	1.4E-04	1.0E-03	9.6E-08	1.6E-01	1.3E-01	2.0E-09	1.9E-05	9.5E-05
100	1.2E+00	1.4E-04	1.0E-03	1.8E-07	1.6E-01	1.3E-01	3.8E-09	3.6E-05	1.8E-04
101	1.5E+00	1.4E-04	1.0E-03	2.3E-07	1.6E-01	1.3E-01	4.8E-09	4.6E-05	2.3E-04
102	2.0E+00	1.4E-04	1.0E-03	3.0E-07	1.6E-01	1.3E-01	6.3E-09	5.9E-05	3.0E-04
103	2.6E+00	1.4E-04	1.0E-03	4.0E-07	1.6E-01	1.3E-01	8.3E-09	7.8E-05	3.9E-04
104	4.5E-01	1.4E-04	1.0E-03	6.8E-08	1.6E-01	1.3E-01	1.4E-09	1.3E-05	6.7E-05
105	5.3E-01	1.4E-04	1.0E-03	8.0E-08	1.6E-01	1.3E-01	1.7E-09	1.6E-05	7.9E-05
106	6.4E-01	1.4E-04	1.0E-03	9.7E-08	1.6E-01	1.3E-01	2.0E-09	1.9E-05	9.5E-05
107	2.5E+00	1.4E-04	1.0E-03	3.8E-07	1.6E-01	1.3E-01	7.8E-09	7.3E-05	3.7E-04
108	3.8E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	1.3E-01	1.2E-08	1.1E-04	5.6E-04
109	4.3E-01	1.4E-04	1.0E-03	6.5E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.4E-05
110	5.1E-01	1.4E-04	1.0E-03	7.7E-08	1.6E-01	1.3E-01	1.6E-09	1.5E-05	7.6E-05
111	6.2E-01	1.4E-04	1.0E-03	9.3E-08	1.6E-01	1.3E-01	1.9E-09	1.8E-05	9.2E-05
112	2.8E+00	1.4E-04	1.0E-03	4.2E-07	1.6E-01	1.3E-01	8.6E-09	8.1E-05	4.1E-04
113	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	6.8E-04
114	4.0E-01	1.4E-04	1.0E-03	6.1E-08	1.6E-01	1.3E-01	1.3E-09	1.2E-05	6.0E-05
115	4.8E-01	1.4E-04	1.0E-03	7.2E-08	1.6E-01	1.3E-01	1.5E-09	1.4E-05	7.1E-05
116	5.8E-01	1.4E-04	1.0E-03	8.7E-08	1.6E-01	1.3E-01	1.8E-09	1.7E-05	8.6E-05
117	7.2E-01	1.4E-04	1.0E-03	1.1E-07	1.6E-01	1.3E-01	2.2E-09	2.1E-05	1.1E-04
118	2.7E+00	1.4E-04	1.0E-03	4.1E-07	1.6E-01	1.3E-01	8.4E-09	7.9E-05	3.9E-04
119	4.7E+00	1.4E-04	1.0E-03	7.2E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	7.0E-04
120	3.7E-01	1.4E-04	1.0E-03	5.7E-08	1.6E-01	1.3E-01	1.2E-09	1.1E-05	5.6E-05
121	4.4E-01	1.4E-04	1.0E-03	6.7E-08	1.6E-01	1.3E-01	1.4E-09	1.3E-05	6.6E-05
122	5.3E-01	1.4E-04	1.0E-03	8.1E-08	1.6E-01	1.3E-01	1.7E-09	1.6E-05	8.0E-05
123	6.6E-01	1.4E-04	1.0E-03	9.9E-08	1.6E-01	1.3E-01	2.0E-09	2.0E-05	9.8E-05
124	2.3E+00	1.4E-04	1.0E-03	3.5E-07	1.6E-01	1.3E-01	7.3E-09	6.9E-05	3.4E-04
125	4.0E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	1.3E-01	1.3E-08	1.2E-04	5.9E-04
126	3.5E-01	1.4E-04	1.0E-03	5.3E-08	1.6E-01	1.3E-01	1.1E-09	1.0E-05	5.2E-05
127	4.1E-01	1.4E-04	1.0E-03	6.2E-08	1.6E-01	1.3E-01	1.3E-09	1.2E-05	6.1E-05
128	4.9E-01	1.4E-04	1.0E-03	7.4E-08	1.6E-01	1.3E-01	1.5E-09	1.5E-05	7.3E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	1.4E-04	1.0E-03	9.0E-08	1.6E-01	1.3E-01	1.9E-09	1.8E-05	8.9E-05
130	7.4E-01	1.4E-04	1.0E-03	1.1E-07	1.6E-01	1.3E-01	2.3E-09	2.2E-05	1.1E-04
131	9.7E-01	1.4E-04	1.0E-03	1.5E-07	1.6E-01	1.3E-01	3.0E-09	2.9E-05	1.4E-04
132	1.3E+00	1.4E-04	1.0E-03	2.0E-07	1.6E-01	1.3E-01	4.1E-09	3.9E-05	1.9E-04
133	1.9E+00	1.4E-04	1.0E-03	2.9E-07	1.6E-01	1.3E-01	5.9E-09	5.6E-05	2.8E-04
134	3.0E+00	1.4E-04	1.0E-03	4.5E-07	1.6E-01	1.3E-01	9.3E-09	8.8E-05	4.4E-04
135	5.4E+00	1.4E-04	1.0E-03	8.1E-07	1.6E-01	1.3E-01	1.7E-08	1.6E-04	7.9E-04
136	3.2E-01	1.4E-04	1.0E-03	4.9E-08	1.6E-01	1.3E-01	1.0E-09	9.7E-06	4.9E-05
137	3.8E-01	1.4E-04	1.0E-03	5.7E-08	1.6E-01	1.3E-01	1.2E-09	1.1E-05	5.7E-05
138	4.5E-01	1.4E-04	1.0E-03	6.7E-08	1.6E-01	1.3E-01	1.4E-09	1.3E-05	6.7E-05
139	5.4E-01	1.4E-04	1.0E-03	8.1E-08	1.6E-01	1.3E-01	1.7E-09	1.6E-05	8.0E-05
140	6.6E-01	1.4E-04	1.0E-03	1.0E-07	1.6E-01	1.3E-01	2.1E-09	2.0E-05	9.9E-05
141	8.4E-01	1.4E-04	1.0E-03	1.3E-07	1.6E-01	1.3E-01	2.6E-09	2.5E-05	1.3E-04
142	1.1E+00	1.4E-04	1.0E-03	1.7E-07	1.6E-01	1.3E-01	3.5E-09	3.3E-05	1.6E-04
143	1.5E+00	1.4E-04	1.0E-03	2.3E-07	1.6E-01	1.3E-01	4.7E-09	4.5E-05	2.2E-04
144	2.1E+00	1.4E-04	1.0E-03	3.2E-07	1.6E-01	1.3E-01	6.6E-09	6.2E-05	3.1E-04
145	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	1.3E-01	9.6E-09	9.1E-05	4.5E-04
146	3.0E-01	1.4E-04	1.0E-03	4.6E-08	1.6E-01	1.3E-01	9.4E-10	9.0E-06	4.5E-05
147	3.5E-01	1.4E-04	1.0E-03	5.3E-08	1.6E-01	1.3E-01	1.1E-09	1.0E-05	5.2E-05
148	4.1E-01	1.4E-04	1.0E-03	6.1E-08	1.6E-01	1.3E-01	1.3E-09	1.2E-05	6.1E-05
149	4.8E-01	1.4E-04	1.0E-03	7.3E-08	1.6E-01	1.3E-01	1.5E-09	1.4E-05	7.2E-05
150	5.9E-01	1.4E-04	1.0E-03	8.9E-08	1.6E-01	1.3E-01	1.8E-09	1.7E-05	8.7E-05
151	7.2E-01	1.4E-04	1.0E-03	1.1E-07	1.6E-01	1.3E-01	2.3E-09	2.2E-05	1.1E-04
152	9.0E-01	1.4E-04	1.0E-03	1.4E-07	1.6E-01	1.3E-01	2.8E-09	2.7E-05	1.3E-04
153	1.2E+00	1.4E-04	1.0E-03	1.8E-07	1.6E-01	1.3E-01	3.6E-09	3.4E-05	1.7E-04
154	1.5E+00	1.4E-04	1.0E-03	2.2E-07	1.6E-01	1.3E-01	4.6E-09	4.3E-05	2.2E-04
155	1.9E+00	1.4E-04	1.0E-03	2.9E-07	1.6E-01	1.3E-01	5.9E-09	5.6E-05	2.8E-04
156	2.8E-01	1.4E-04	1.0E-03	4.2E-08	1.6E-01	1.3E-01	8.7E-10	8.4E-06	4.2E-05
157	3.2E-01	1.4E-04	1.0E-03	4.8E-08	1.6E-01	1.3E-01	1.0E-09	9.6E-06	4.8E-05
158	3.7E-01	1.4E-04	1.0E-03	5.6E-08	1.6E-01	1.3E-01	1.2E-09	1.1E-05	5.5E-05
159	4.3E-01	1.4E-04	1.0E-03	6.6E-08	1.6E-01	1.3E-01	1.4E-09	1.3E-05	6.5E-05
160	5.2E-01	1.4E-04	1.0E-03	7.8E-08	1.6E-01	1.3E-01	1.6E-09	1.5E-05	7.7E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	1.4E-04	1.0E-03	9.4E-08	1.6E-01	1.3E-01	1.9E-09	1.9E-05	9.3E-05
162	7.4E-01	1.4E-04	1.0E-03	1.1E-07	1.6E-01	1.3E-01	2.3E-09	2.2E-05	1.1E-04
163	9.0E-01	1.4E-04	1.0E-03	1.4E-07	1.6E-01	1.3E-01	2.8E-09	2.7E-05	1.3E-04
164	1.1E+00	1.4E-04	1.0E-03	1.6E-07	1.6E-01	1.3E-01	3.3E-09	3.2E-05	1.6E-04
165	1.3E+00	1.4E-04	1.0E-03	2.0E-07	1.6E-01	1.3E-01	4.1E-09	3.9E-05	1.9E-04
166	2.6E-01	1.4E-04	1.0E-03	3.9E-08	1.6E-01	1.3E-01	8.1E-10	7.8E-06	3.9E-05
167	2.9E-01	1.4E-04	1.0E-03	4.4E-08	1.6E-01	1.3E-01	9.2E-10	8.8E-06	4.4E-05
168	3.4E-01	1.4E-04	1.0E-03	5.1E-08	1.6E-01	1.3E-01	1.1E-09	1.0E-05	5.0E-05
169	3.9E-01	1.4E-04	1.0E-03	5.9E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	5.8E-05
170	4.5E-01	1.4E-04	1.0E-03	6.8E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.8E-05
171	5.3E-01	1.4E-04	1.0E-03	8.0E-08	1.6E-01	1.3E-01	1.7E-09	1.6E-05	7.9E-05
172	6.1E-01	1.4E-04	1.0E-03	9.2E-08	1.6E-01	1.3E-01	1.9E-09	1.8E-05	9.1E-05
173	7.1E-01	1.4E-04	1.0E-03	1.1E-07	1.6E-01	1.3E-01	2.2E-09	2.1E-05	1.1E-04
174	8.2E-01	1.4E-04	1.0E-03	1.2E-07	1.6E-01	1.3E-01	2.6E-09	2.4E-05	1.2E-04
175	9.5E-01	1.4E-04	1.0E-03	1.4E-07	1.6E-01	1.3E-01	3.0E-09	2.8E-05	1.4E-04
176	2.4E-01	1.4E-04	1.0E-03	3.6E-08	1.6E-01	1.3E-01	7.5E-10	7.2E-06	3.6E-05
177	2.7E-01	1.4E-04	1.0E-03	4.1E-08	1.6E-01	1.3E-01	8.4E-10	8.1E-06	4.1E-05
178	3.0E-01	1.4E-04	1.0E-03	4.6E-08	1.6E-01	1.3E-01	9.5E-10	9.1E-06	4.6E-05
179	3.5E-01	1.4E-04	1.0E-03	5.2E-08	1.6E-01	1.3E-01	1.1E-09	1.0E-05	5.2E-05
180	3.9E-01	1.4E-04	1.0E-03	6.0E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	5.9E-05
181	4.5E-01	1.4E-04	1.0E-03	6.8E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.8E-05
182	5.1E-01	1.4E-04	1.0E-03	7.7E-08	1.6E-01	1.3E-01	1.6E-09	1.5E-05	7.6E-05
183	5.7E-01	1.4E-04	1.0E-03	8.6E-08	1.6E-01	1.3E-01	1.8E-09	1.7E-05	8.6E-05
184	6.4E-01	1.4E-04	1.0E-03	9.7E-08	1.6E-01	1.3E-01	2.0E-09	1.9E-05	9.6E-05
185	7.2E-01	1.4E-04	1.0E-03	1.1E-07	1.6E-01	1.3E-01	2.3E-09	2.2E-05	1.1E-04
186	5.9E-01	1.4E-04	1.0E-03	8.9E-08	1.6E-01	1.3E-01	1.8E-09	1.8E-05	8.9E-05
187	5.2E-01	1.4E-04	1.0E-03	7.9E-08	1.6E-01	1.3E-01	1.6E-09	1.6E-05	8.0E-05
188	4.7E-01	1.4E-04	1.0E-03	7.0E-08	1.6E-01	1.3E-01	1.5E-09	1.4E-05	7.2E-05
189	2.2E-01	1.4E-04	1.0E-03	3.4E-08	1.6E-01	1.3E-01	6.9E-10	6.7E-06	3.3E-05
190	2.5E-01	1.4E-04	1.0E-03	3.7E-08	1.6E-01	1.3E-01	7.7E-10	7.4E-06	3.7E-05
191	2.7E-01	1.4E-04	1.0E-03	4.2E-08	1.6E-01	1.3E-01	8.6E-10	8.3E-06	4.1E-05
192	3.1E-01	1.4E-04	1.0E-03	4.7E-08	1.6E-01	1.3E-01	9.6E-10	9.3E-06	4.6E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	1.4E-04	1.0E-03	5.2E-08	1.6E-01	1.3E-01	1.1E-09	1.0E-05	5.2E-05
194	3.8E-01	1.4E-04	1.0E-03	5.8E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	5.8E-05
195	4.3E-01	1.4E-04	1.0E-03	6.4E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.4E-05
196	4.7E-01	1.4E-04	1.0E-03	7.1E-08	1.6E-01	1.3E-01	1.5E-09	1.4E-05	7.0E-05
197	5.6E-01	1.4E-04	1.0E-03	8.6E-08	1.6E-01	1.3E-01	1.8E-09	1.7E-05	8.5E-05
198	6.1E-01	1.4E-04	1.0E-03	9.2E-08	1.6E-01	1.3E-01	1.9E-09	1.8E-05	9.2E-05
199	5.7E-01	1.4E-04	1.0E-03	8.7E-08	1.6E-01	1.3E-01	1.8E-09	1.7E-05	8.7E-05
200	5.3E-01	1.4E-04	1.0E-03	8.1E-08	1.6E-01	1.3E-01	1.7E-09	1.6E-05	8.1E-05
201	4.9E-01	1.4E-04	1.0E-03	7.5E-08	1.6E-01	1.3E-01	1.5E-09	1.5E-05	7.5E-05
202	4.5E-01	1.4E-04	1.0E-03	6.8E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.9E-05
203	4.1E-01	1.4E-04	1.0E-03	6.2E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.3E-05
204	2.0E-01	1.4E-04	1.0E-03	3.1E-08	1.6E-01	1.3E-01	6.4E-10	6.2E-06	3.1E-05
205	2.3E-01	1.4E-04	1.0E-03	3.4E-08	1.6E-01	1.3E-01	7.0E-10	6.8E-06	3.4E-05
206	2.5E-01	1.4E-04	1.0E-03	3.8E-08	1.6E-01	1.3E-01	7.8E-10	7.5E-06	3.7E-05
207	2.7E-01	1.4E-04	1.0E-03	4.2E-08	1.6E-01	1.3E-01	8.6E-10	8.3E-06	4.1E-05
208	3.0E-01	1.4E-04	1.0E-03	4.6E-08	1.6E-01	1.3E-01	9.5E-10	9.1E-06	4.6E-05
209	3.3E-01	1.4E-04	1.0E-03	5.0E-08	1.6E-01	1.3E-01	1.0E-09	1.0E-05	5.0E-05
210	3.6E-01	1.4E-04	1.0E-03	5.5E-08	1.6E-01	1.3E-01	1.1E-09	1.1E-05	5.5E-05
211	4.2E-01	1.4E-04	1.0E-03	6.4E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.4E-05
212	4.5E-01	1.4E-04	1.0E-03	6.8E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.8E-05
213	5.0E-01	1.4E-04	1.0E-03	7.6E-08	1.6E-01	1.3E-01	1.6E-09	1.5E-05	7.6E-05
214	5.0E-01	1.4E-04	1.0E-03	7.5E-08	1.6E-01	1.3E-01	1.5E-09	1.5E-05	7.5E-05
215	4.9E-01	1.4E-04	1.0E-03	7.4E-08	1.6E-01	1.3E-01	1.5E-09	1.5E-05	7.4E-05
216	4.7E-01	1.4E-04	1.0E-03	7.1E-08	1.6E-01	1.3E-01	1.5E-09	1.4E-05	7.1E-05
217	4.4E-01	1.4E-04	1.0E-03	6.7E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.8E-05
218	4.2E-01	1.4E-04	1.0E-03	6.3E-08	1.6E-01	1.3E-01	1.3E-09	1.3E-05	6.3E-05
219	3.9E-01	1.4E-04	1.0E-03	5.9E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	5.9E-05
220	3.5E-01	1.4E-04	1.0E-03	5.4E-08	1.6E-01	1.3E-01	1.1E-09	1.1E-05	5.4E-05
221	1.9E-01	1.4E-04	1.0E-03	2.9E-08	1.6E-01	1.3E-01	5.9E-10	5.7E-06	2.8E-05
222	2.1E-01	1.4E-04	1.0E-03	3.1E-08	1.6E-01	1.3E-01	6.4E-10	6.2E-06	3.1E-05
223	2.2E-01	1.4E-04	1.0E-03	3.4E-08	1.6E-01	1.3E-01	7.0E-10	6.8E-06	3.4E-05
224	2.5E-01	1.4E-04	1.0E-03	3.7E-08	1.6E-01	1.3E-01	7.7E-10	7.4E-06	3.7E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	1.4E-04	1.0E-03	4.0E-08	1.6E-01	1.3E-01	8.3E-10	8.0E-06	4.0E-05
226	3.1E-01	1.4E-04	1.0E-03	4.7E-08	1.6E-01	1.3E-01	9.8E-10	9.4E-06	4.7E-05
227	3.3E-01	1.4E-04	1.0E-03	5.1E-08	1.6E-01	1.3E-01	1.0E-09	1.0E-05	5.1E-05
228	3.5E-01	1.4E-04	1.0E-03	5.3E-08	1.6E-01	1.3E-01	1.1E-09	1.1E-05	5.3E-05
229	3.7E-01	1.4E-04	1.0E-03	5.6E-08	1.6E-01	1.3E-01	1.2E-09	1.1E-05	5.6E-05
230	4.0E-01	1.4E-04	1.0E-03	6.1E-08	1.6E-01	1.3E-01	1.3E-09	1.2E-05	6.1E-05
231	4.0E-01	1.4E-04	1.0E-03	6.1E-08	1.6E-01	1.3E-01	1.3E-09	1.2E-05	6.1E-05
232	4.0E-01	1.4E-04	1.0E-03	6.0E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	6.1E-05
233	3.9E-01	1.4E-04	1.0E-03	5.9E-08	1.6E-01	1.3E-01	1.2E-09	1.2E-05	5.9E-05
234	3.7E-01	1.4E-04	1.0E-03	5.6E-08	1.6E-01	1.3E-01	1.2E-09	1.1E-05	5.7E-05
235	3.5E-01	1.4E-04	1.0E-03	5.3E-08	1.6E-01	1.3E-01	1.1E-09	1.1E-05	5.4E-05
236	3.3E-01	1.4E-04	1.0E-03	5.0E-08	1.6E-01	1.3E-01	1.0E-09	1.0E-05	5.1E-05
237	3.1E-01	1.4E-04	1.0E-03	4.7E-08	1.6E-01	1.3E-01	9.7E-10	9.5E-06	4.8E-05
238	1.8E+00	1.4E-04	1.0E-03	2.7E-07	1.6E-01	1.3E-01	5.6E-09	5.4E-05	2.7E-04
239	1.8E+00	1.4E-04	1.0E-03	2.8E-07	1.6E-01	1.3E-01	5.7E-09	5.5E-05	2.7E-04
240	1.9E+00	1.4E-04	1.0E-03	2.8E-07	1.6E-01	1.3E-01	5.8E-09	5.6E-05	2.8E-04
241	1.9E+00	1.4E-04	1.0E-03	2.9E-07	1.6E-01	1.3E-01	5.9E-09	5.6E-05	2.8E-04
242	1.9E+00	1.4E-04	1.0E-03	2.9E-07	1.6E-01	1.3E-01	6.0E-09	5.7E-05	2.9E-04
243	1.9E+00	1.4E-04	1.0E-03	2.9E-07	1.6E-01	1.3E-01	6.1E-09	5.8E-05	2.9E-04
244	2.0E+00	1.4E-04	1.0E-03	3.0E-07	1.6E-01	1.3E-01	6.1E-09	5.8E-05	2.9E-04
245	2.0E+00	1.4E-04	1.0E-03	3.0E-07	1.6E-01	1.3E-01	6.2E-09	6.0E-05	3.0E-04
246	2.0E+00	1.4E-04	1.0E-03	3.1E-07	1.6E-01	1.3E-01	6.4E-09	6.1E-05	3.0E-04
247	2.1E+00	1.4E-04	1.0E-03	3.1E-07	1.6E-01	1.3E-01	6.5E-09	6.2E-05	3.1E-04
248	2.1E+00	1.4E-04	1.0E-03	3.2E-07	1.6E-01	1.3E-01	6.6E-09	6.3E-05	3.1E-04
249	2.1E+00	1.4E-04	1.0E-03	3.2E-07	1.6E-01	1.3E-01	6.7E-09	6.4E-05	3.2E-04
250	2.2E+00	1.4E-04	1.0E-03	3.3E-07	1.6E-01	1.3E-01	6.7E-09	6.5E-05	3.2E-04
251	2.2E+00	1.4E-04	1.0E-03	3.3E-07	1.6E-01	1.3E-01	6.8E-09	6.5E-05	3.3E-04
252	2.2E+00	1.4E-04	1.0E-03	3.3E-07	1.6E-01	1.3E-01	6.8E-09	6.5E-05	3.3E-04
253	2.2E+00	1.4E-04	1.0E-03	3.4E-07	1.6E-01	1.3E-01	7.0E-09	6.7E-05	3.3E-04
254	2.3E+00	1.4E-04	1.0E-03	3.4E-07	1.6E-01	1.3E-01	7.1E-09	6.8E-05	3.4E-04
255	2.3E+00	1.4E-04	1.0E-03	3.5E-07	1.6E-01	1.3E-01	7.2E-09	6.9E-05	3.5E-04
256	2.3E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	1.3E-01	7.4E-09	7.0E-05	3.5E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	1.3E-01	7.4E-09	7.1E-05	3.6E-04
258	2.4E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	1.3E-01	7.5E-09	7.2E-05	3.6E-04
259	2.4E+00	1.4E-04	1.0E-03	3.7E-07	1.6E-01	1.3E-01	7.6E-09	7.3E-05	3.6E-04
260	2.5E+00	1.4E-04	1.0E-03	3.7E-07	1.6E-01	1.3E-01	7.7E-09	7.4E-05	3.7E-04
261	2.5E+00	1.4E-04	1.0E-03	3.8E-07	1.6E-01	1.3E-01	7.9E-09	7.5E-05	3.7E-04
262	2.6E+00	1.4E-04	1.0E-03	3.9E-07	1.6E-01	1.3E-01	8.0E-09	7.6E-05	3.8E-04
263	2.6E+00	1.4E-04	1.0E-03	3.9E-07	1.6E-01	1.3E-01	8.2E-09	7.8E-05	3.9E-04
264	2.6E+00	1.4E-04	1.0E-03	4.0E-07	1.6E-01	1.3E-01	8.3E-09	7.9E-05	3.9E-04
265	2.7E+00	1.4E-04	1.0E-03	4.1E-07	1.6E-01	1.3E-01	8.4E-09	8.0E-05	4.0E-04
266	2.7E+00	1.4E-04	1.0E-03	4.1E-07	1.6E-01	1.3E-01	8.5E-09	8.1E-05	4.0E-04
267	2.7E+00	1.4E-04	1.0E-03	4.1E-07	1.6E-01	1.3E-01	8.5E-09	8.2E-05	4.1E-04
268	2.7E+00	1.4E-04	1.0E-03	4.2E-07	1.6E-01	1.3E-01	8.6E-09	8.2E-05	4.1E-04
269	2.8E+00	1.4E-04	1.0E-03	4.2E-07	1.6E-01	1.3E-01	8.6E-09	8.3E-05	4.1E-04
270	2.8E+00	1.4E-04	1.0E-03	4.2E-07	1.6E-01	1.3E-01	8.6E-09	8.3E-05	4.1E-04
271	2.9E+00	1.4E-04	1.0E-03	4.4E-07	1.6E-01	1.3E-01	9.1E-09	8.7E-05	4.3E-04
272	3.0E+00	1.4E-04	1.0E-03	4.5E-07	1.6E-01	1.3E-01	9.2E-09	8.8E-05	4.4E-04
273	3.0E+00	1.4E-04	1.0E-03	4.5E-07	1.6E-01	1.3E-01	9.4E-09	8.9E-05	4.5E-04
274	3.0E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	1.3E-01	9.5E-09	9.0E-05	4.5E-04
275	3.0E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	1.3E-01	9.5E-09	9.1E-05	4.6E-04
276	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	1.3E-01	9.6E-09	9.2E-05	4.6E-04
277	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	1.3E-01	9.6E-09	9.2E-05	4.6E-04
278	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	1.3E-01	9.6E-09	9.2E-05	4.6E-04
279	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	1.3E-01	9.6E-09	9.2E-05	4.6E-04
280	3.0E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	1.3E-01	9.5E-09	9.1E-05	4.6E-04
281	3.0E+00	1.4E-04	1.0E-03	4.5E-07	1.6E-01	1.3E-01	9.4E-09	9.1E-05	4.5E-04
282	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.0E-04
283	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.1E-04
284	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.1E-04
285	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.1E-04
286	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.1E-04
287	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.1E-04
288	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.1E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.0E-04
290	3.3E+00	1.4E-04	1.0E-03	5.0E-07	1.6E-01	1.3E-01	1.0E-08	1.0E-04	5.0E-04
291	3.3E+00	1.4E-04	1.0E-03	5.0E-07	1.6E-01	1.3E-01	1.0E-08	9.9E-05	5.0E-04
292	3.3E+00	1.4E-04	1.0E-03	4.9E-07	1.6E-01	1.3E-01	1.0E-08	9.8E-05	4.9E-04
293	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	1.3E-01	1.2E-08	1.2E-04	5.8E-04
294	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	1.3E-01	1.2E-08	1.2E-04	5.8E-04
295	3.9E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	1.3E-01	1.2E-08	1.2E-04	5.8E-04
296	3.8E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	1.3E-01	1.2E-08	1.1E-04	5.7E-04
297	3.8E+00	1.4E-04	1.0E-03	5.7E-07	1.6E-01	1.3E-01	1.2E-08	1.1E-04	5.6E-04
298	3.7E+00	1.4E-04	1.0E-03	5.6E-07	1.6E-01	1.3E-01	1.2E-08	1.1E-04	5.6E-04
299	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	1.3E-01	1.1E-08	1.1E-04	5.5E-04
300	3.6E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	1.3E-01	1.1E-08	1.1E-04	5.5E-04
301	3.5E+00	1.4E-04	1.0E-03	5.4E-07	1.6E-01	1.3E-01	1.1E-08	1.1E-04	5.4E-04
302	3.5E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	1.3E-01	1.1E-08	1.1E-04	5.3E-04
303	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.2E-04
304	4.4E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	1.3E-01	1.4E-08	1.3E-04	6.5E-04
305	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	1.3E-01	1.4E-08	1.3E-04	6.5E-04
306	4.2E+00	1.4E-04	1.0E-03	6.4E-07	1.6E-01	1.3E-01	1.3E-08	1.3E-04	6.4E-04
307	4.2E+00	1.4E-04	1.0E-03	6.3E-07	1.6E-01	1.3E-01	1.3E-08	1.3E-04	6.3E-04
308	4.1E+00	1.4E-04	1.0E-03	6.2E-07	1.6E-01	1.3E-01	1.3E-08	1.2E-04	6.2E-04
309	4.0E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	1.3E-01	1.3E-08	1.2E-04	6.1E-04
310	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	1.3E-01	1.2E-08	1.2E-04	6.0E-04
311	3.8E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	1.3E-01	1.2E-08	1.2E-04	5.8E-04
312	3.7E+00	1.4E-04	1.0E-03	5.6E-07	1.6E-01	1.3E-01	1.2E-08	1.1E-04	5.7E-04
313	3.6E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	1.3E-01	1.1E-08	1.1E-04	5.6E-04
314	3.5E+00	1.4E-04	1.0E-03	5.3E-07	1.6E-01	1.3E-01	1.1E-08	1.1E-04	5.4E-04
315	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	1.3E-01	1.1E-08	1.1E-04	5.3E-04
316	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	7.1E-04
317	4.6E+00	1.4E-04	1.0E-03	7.0E-07	1.6E-01	1.3E-01	1.4E-08	1.4E-04	6.9E-04
318	4.5E+00	1.4E-04	1.0E-03	6.8E-07	1.6E-01	1.3E-01	1.4E-08	1.4E-04	6.8E-04
319	4.4E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	1.3E-01	1.4E-08	1.3E-04	6.6E-04
320	4.2E+00	1.4E-04	1.0E-03	6.4E-07	1.6E-01	1.3E-01	1.3E-08	1.3E-04	6.5E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	1.4E-04	1.0E-03	6.2E-07	1.6E-01	1.3E-01	1.3E-08	1.2E-04	6.2E-04
322	4.0E+00	1.4E-04	1.0E-03	6.0E-07	1.6E-01	1.3E-01	1.2E-08	1.2E-04	6.0E-04
323	3.8E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	1.3E-01	1.2E-08	1.2E-04	5.8E-04
324	3.7E+00	1.4E-04	1.0E-03	5.6E-07	1.6E-01	1.3E-01	1.2E-08	1.1E-04	5.6E-04
325	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	1.3E-01	1.6E-08	1.5E-04	7.6E-04
326	4.9E+00	1.4E-04	1.0E-03	7.4E-07	1.6E-01	1.3E-01	1.5E-08	1.5E-04	7.3E-04
327	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	7.1E-04
328	4.5E+00	1.4E-04	1.0E-03	6.9E-07	1.6E-01	1.3E-01	1.4E-08	1.4E-04	6.8E-04
329	4.4E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	1.3E-01	1.4E-08	1.3E-04	6.6E-04
330	4.2E+00	1.4E-04	1.0E-03	6.4E-07	1.6E-01	1.3E-01	1.3E-08	1.3E-04	6.3E-04
331	5.2E+00	1.4E-04	1.0E-03	7.9E-07	1.6E-01	1.3E-01	1.6E-08	1.6E-04	7.8E-04
332	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	1.3E-01	1.6E-08	1.5E-04	7.5E-04
333	4.8E+00	1.4E-04	1.0E-03	7.3E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	7.2E-04
334	4.6E+00	1.4E-04	1.0E-03	7.0E-07	1.6E-01	1.3E-01	1.4E-08	1.4E-04	6.9E-04
335	1.7E+00	1.4E-04	1.0E-03	2.6E-07	1.6E-01	1.3E-01	5.4E-09	5.2E-05	2.6E-04
336	1.8E+00	1.4E-04	1.0E-03	2.7E-07	1.6E-01	1.3E-01	5.6E-09	5.3E-05	2.6E-04
337	1.8E+00	1.4E-04	1.0E-03	2.8E-07	1.6E-01	1.3E-01	5.7E-09	5.4E-05	2.7E-04
338	1.9E+00	1.4E-04	1.0E-03	2.8E-07	1.6E-01	1.3E-01	5.9E-09	5.6E-05	2.8E-04
339	1.9E+00	1.4E-04	1.0E-03	2.8E-07	1.6E-01	1.3E-01	5.9E-09	5.6E-05	2.8E-04
340	1.9E+00	1.4E-04	1.0E-03	2.9E-07	1.6E-01	1.3E-01	6.1E-09	5.7E-05	2.9E-04
341	2.0E+00	1.4E-04	1.0E-03	3.0E-07	1.6E-01	1.3E-01	6.2E-09	5.9E-05	3.0E-04
342	2.0E+00	1.4E-04	1.0E-03	3.1E-07	1.6E-01	1.3E-01	6.4E-09	6.1E-05	3.0E-04
343	2.0E+00	1.4E-04	1.0E-03	3.1E-07	1.6E-01	1.3E-01	6.4E-09	6.1E-05	3.0E-04
344	2.1E+00	1.4E-04	1.0E-03	3.2E-07	1.6E-01	1.3E-01	6.6E-09	6.3E-05	3.1E-04
345	2.2E+00	1.4E-04	1.0E-03	3.3E-07	1.6E-01	1.3E-01	6.8E-09	6.4E-05	3.2E-04
346	2.2E+00	1.4E-04	1.0E-03	3.4E-07	1.6E-01	1.3E-01	7.0E-09	6.7E-05	3.3E-04
347	2.2E+00	1.4E-04	1.0E-03	3.4E-07	1.6E-01	1.3E-01	6.9E-09	6.6E-05	3.3E-04
348	2.3E+00	1.4E-04	1.0E-03	3.5E-07	1.6E-01	1.3E-01	7.2E-09	6.8E-05	3.4E-04
349	2.4E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	1.3E-01	7.5E-09	7.1E-05	3.5E-04
350	2.5E+00	1.4E-04	1.0E-03	3.8E-07	1.6E-01	1.3E-01	7.8E-09	7.3E-05	3.7E-04
351	2.4E+00	1.4E-04	1.0E-03	3.7E-07	1.6E-01	1.3E-01	7.6E-09	7.2E-05	3.6E-04
352	2.5E+00	1.4E-04	1.0E-03	3.8E-07	1.6E-01	1.3E-01	7.9E-09	7.5E-05	3.7E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	1.4E-04	1.0E-03	4.0E-07	1.6E-01	1.3E-01	8.3E-09	7.8E-05	3.9E-04
354	2.7E+00	1.4E-04	1.0E-03	4.2E-07	1.6E-01	1.3E-01	8.6E-09	8.1E-05	4.1E-04
355	2.6E+00	1.4E-04	1.0E-03	4.0E-07	1.6E-01	1.3E-01	8.3E-09	7.8E-05	3.9E-04
356	2.8E+00	1.4E-04	1.0E-03	4.2E-07	1.6E-01	1.3E-01	8.7E-09	8.2E-05	4.1E-04
357	2.9E+00	1.4E-04	1.0E-03	4.4E-07	1.6E-01	1.3E-01	9.1E-09	8.6E-05	4.3E-04
358	3.0E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	1.3E-01	9.5E-09	9.0E-05	4.5E-04
359	2.9E+00	1.4E-04	1.0E-03	4.4E-07	1.6E-01	1.3E-01	9.1E-09	8.6E-05	4.3E-04
360	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	1.3E-01	9.6E-09	9.0E-05	4.5E-04
361	3.2E+00	1.4E-04	1.0E-03	4.9E-07	1.6E-01	1.3E-01	1.0E-08	9.5E-05	4.7E-04
362	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.0E-04
363	3.2E+00	1.4E-04	1.0E-03	4.8E-07	1.6E-01	1.3E-01	1.0E-08	9.4E-05	4.7E-04
364	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.0E-04
365	3.6E+00	1.4E-04	1.0E-03	5.4E-07	1.6E-01	1.3E-01	1.1E-08	1.1E-04	5.3E-04
366	3.8E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	1.3E-01	1.2E-08	1.1E-04	5.6E-04
367	3.5E+00	1.4E-04	1.0E-03	5.3E-07	1.6E-01	1.3E-01	1.1E-08	1.0E-04	5.1E-04
368	3.7E+00	1.4E-04	1.0E-03	5.7E-07	1.6E-01	1.3E-01	1.2E-08	1.1E-04	5.5E-04
369	4.0E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	1.3E-01	1.3E-08	1.2E-04	5.9E-04
370	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	1.3E-01	1.3E-08	1.3E-04	6.3E-04
371	3.8E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	1.3E-01	1.2E-08	1.1E-04	5.6E-04
372	4.1E+00	1.4E-04	1.0E-03	6.3E-07	1.6E-01	1.3E-01	1.3E-08	1.2E-04	6.1E-04
373	4.5E+00	1.4E-04	1.0E-03	6.8E-07	1.6E-01	1.3E-01	1.4E-08	1.3E-04	6.6E-04
374	4.8E+00	1.4E-04	1.0E-03	7.3E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	7.1E-04
375	4.2E+00	1.4E-04	1.0E-03	6.3E-07	1.6E-01	1.3E-01	1.3E-08	1.2E-04	6.1E-04
376	4.6E+00	1.4E-04	1.0E-03	6.9E-07	1.6E-01	1.3E-01	1.4E-08	1.3E-04	6.7E-04
377	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	1.3E-01	1.6E-08	1.5E-04	7.3E-04
378	5.5E+00	1.4E-04	1.0E-03	8.3E-07	1.6E-01	1.3E-01	1.7E-08	1.6E-04	8.0E-04
379	4.5E+00	1.4E-04	1.0E-03	6.9E-07	1.6E-01	1.3E-01	1.4E-08	1.3E-04	6.7E-04
380	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	1.3E-01	1.6E-08	1.5E-04	7.4E-04
381	5.6E+00	1.4E-04	1.0E-03	8.4E-07	1.6E-01	1.3E-01	1.7E-08	1.6E-04	8.1E-04
382	6.2E+00	1.4E-04	1.0E-03	9.4E-07	1.6E-01	1.3E-01	1.9E-08	1.8E-04	9.1E-04
383	4.9E+00	1.4E-04	1.0E-03	7.4E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	7.2E-04
384	5.5E+00	1.4E-04	1.0E-03	8.3E-07	1.6E-01	1.3E-01	1.7E-08	1.6E-04	8.0E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	1.4E-04	1.0E-03	9.3E-07	1.6E-01	1.3E-01	1.9E-08	1.8E-04	9.0E-04
386	6.9E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.2E-08	2.0E-04	1.0E-03
387	5.2E+00	1.4E-04	1.0E-03	7.9E-07	1.6E-01	1.3E-01	1.6E-08	1.5E-04	7.7E-04
388	5.9E+00	1.4E-04	1.0E-03	9.0E-07	1.6E-01	1.3E-01	1.8E-08	1.7E-04	8.7E-04
389	6.7E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.1E-08	2.0E-04	9.8E-04
390	7.7E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.4E-08	2.2E-04	1.1E-03
391	5.6E+00	1.4E-04	1.0E-03	8.4E-07	1.6E-01	1.3E-01	1.7E-08	1.6E-04	8.1E-04
392	6.3E+00	1.4E-04	1.0E-03	9.6E-07	1.6E-01	1.3E-01	2.0E-08	1.8E-04	9.2E-04
393	7.2E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.1E-04	1.1E-03
394	8.4E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.5E-04	1.2E-03
395	5.8E+00	1.4E-04	1.0E-03	8.8E-07	1.6E-01	1.3E-01	1.8E-08	1.7E-04	8.5E-04
396	6.7E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.1E-08	2.0E-04	9.8E-04
397	7.7E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.4E-08	2.3E-04	1.1E-03
398	9.1E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
399	6.0E+00	1.4E-04	1.0E-03	9.1E-07	1.6E-01	1.3E-01	1.9E-08	1.8E-04	8.8E-04
400	7.0E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.2E-08	2.0E-04	1.0E-03
401	8.1E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.5E-08	2.4E-04	1.2E-03
402	9.6E+00	1.4E-04	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
403	6.2E+00	1.4E-04	1.0E-03	9.4E-07	1.6E-01	1.3E-01	1.9E-08	1.8E-04	9.1E-04
404	7.2E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.1E-04	1.1E-03
405	8.4E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.5E-04	1.2E-03
406	1.0E+01	1.4E-04	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.1E-08	2.9E-04	1.5E-03
407	6.3E+00	1.4E-04	1.0E-03	9.6E-07	1.6E-01	1.3E-01	2.0E-08	1.9E-04	9.3E-04
408	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.2E-04	1.1E-03
409	8.7E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.7E-08	2.5E-04	1.3E-03
410	1.0E+01	1.4E-04	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.3E-08	3.0E-04	1.5E-03
411	6.4E+00	1.4E-04	1.0E-03	9.7E-07	1.6E-01	1.3E-01	2.0E-08	1.9E-04	9.4E-04
412	7.5E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.2E-04	1.1E-03
413	8.8E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
414	1.1E+01	1.4E-04	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.3E-08	3.1E-04	1.6E-03
415	6.4E+00	1.4E-04	1.0E-03	9.7E-07	1.6E-01	1.3E-01	2.0E-08	1.9E-04	9.4E-04
416	7.5E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.2E-04	1.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
418	1.1E+01	1.4E-04	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.4E-08	3.1E-04	1.6E-03
419	6.4E+00	1.4E-04	1.0E-03	9.6E-07	1.6E-01	1.3E-01	2.0E-08	1.9E-04	9.3E-04
420	7.5E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.2E-04	1.1E-03
421	8.9E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
422	1.1E+01	1.4E-04	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.4E-08	3.1E-04	1.6E-03
423	6.3E+00	1.4E-04	1.0E-03	9.5E-07	1.6E-01	1.3E-01	2.0E-08	1.8E-04	9.2E-04
424	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.2E-04	1.1E-03
425	8.8E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.7E-08	2.6E-04	1.3E-03
426	1.1E+01	1.4E-04	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.3E-08	3.1E-04	1.6E-03
427	6.1E+00	1.4E-04	1.0E-03	9.2E-07	1.6E-01	1.3E-01	1.9E-08	1.8E-04	8.9E-04
428	7.2E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.2E-08	2.1E-04	1.1E-03
429	8.6E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.7E-08	2.5E-04	1.3E-03
430	1.0E+01	1.4E-04	1.0E-03	1.6E-06	1.6E-01	1.3E-01	3.3E-08	3.0E-04	1.5E-03
431	5.9E+00	1.4E-04	1.0E-03	8.9E-07	1.6E-01	1.3E-01	1.8E-08	1.7E-04	8.6E-04
432	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.2E-08	2.0E-04	1.0E-03
433	8.3E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.4E-04	1.2E-03
434	1.0E+01	1.4E-04	1.0E-03	1.5E-06	1.6E-01	1.3E-01	3.1E-08	2.9E-04	1.5E-03
435	5.6E+00	1.4E-04	1.0E-03	8.5E-07	1.6E-01	1.3E-01	1.8E-08	1.7E-04	8.3E-04
436	6.6E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.1E-08	1.9E-04	9.7E-04
437	7.9E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	1.3E-01	2.5E-08	2.3E-04	1.2E-03
438	9.6E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	1.3E-01	3.0E-08	2.8E-04	1.4E-03
439	5.4E+00	1.4E-04	1.0E-03	8.1E-07	1.6E-01	1.3E-01	1.7E-08	1.6E-04	7.9E-04
440	6.3E+00	1.4E-04	1.0E-03	9.5E-07	1.6E-01	1.3E-01	2.0E-08	1.8E-04	9.2E-04
441	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.3E-08	2.2E-04	1.1E-03
442	9.0E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	1.3E-01	2.8E-08	2.6E-04	1.3E-03
443	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	1.3E-01	1.6E-08	1.5E-04	7.4E-04
444	5.9E+00	1.4E-04	1.0E-03	8.9E-07	1.6E-01	1.3E-01	1.8E-08	1.7E-04	8.6E-04
445	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	1.3E-01	2.2E-08	2.0E-04	1.0E-03
446	8.3E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	1.3E-01	2.6E-08	2.4E-04	1.2E-03
447	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	1.3E-01	1.5E-08	1.4E-04	6.9E-04
448	5.4E+00	1.4E-04	1.0E-03	8.2E-07	1.6E-01	1.3E-01	1.7E-08	1.6E-04	8.0E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	1.4E-04	1.0E-03	9.6E-07	1.6E-01	1.3E-01	2.0E-08	1.9E-04	9.3E-04
450	7.6E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	1.3E-01	2.4E-08	2.2E-04	1.1E-03
451	4.4E-01	1.4E-04	1.0E-03	6.7E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.8E-05
452	4.4E-01	1.4E-04	1.0E-03	6.7E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.8E-05
453	4.4E-01	1.4E-04	1.0E-03	6.7E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.9E-05
454	4.5E-01	1.4E-04	1.0E-03	6.7E-08	1.6E-01	1.3E-01	1.4E-09	1.4E-05	6.9E-05
455	5.4E-01	1.4E-04	1.0E-03	8.1E-08	1.6E-01	1.3E-01	1.7E-09	1.7E-05	8.3E-05
456	5.4E-01	1.4E-04	1.0E-03	8.2E-08	1.6E-01	1.3E-01	1.7E-09	1.7E-05	8.3E-05
457	5.5E-01	1.4E-04	1.0E-03	8.3E-08	1.6E-01	1.3E-01	1.7E-09	1.7E-05	8.4E-05
458	5.4E-01	1.4E-04	1.0E-03	8.2E-08	1.6E-01	1.3E-01	1.7E-09	1.7E-05	8.3E-05
459	6.8E-01	1.4E-04	1.0E-03	1.0E-07	1.6E-01	1.3E-01	2.1E-09	2.1E-05	1.0E-04
460	6.8E-01	1.4E-04	1.0E-03	1.0E-07	1.6E-01	1.3E-01	2.1E-09	2.1E-05	1.1E-04
461	6.8E-01	1.4E-04	1.0E-03	1.0E-07	1.6E-01	1.3E-01	2.1E-09	2.1E-05	1.0E-04
462	7.8E-01	1.4E-04	1.0E-03	1.2E-07	1.6E-01	1.3E-01	2.5E-09	2.3E-05	1.2E-04
463	9.7E-01	1.4E-04	1.0E-03	1.5E-07	1.6E-01	1.3E-01	3.0E-09	2.9E-05	1.4E-04
464	7.9E-01	1.4E-04	1.0E-03	1.2E-07	1.6E-01	1.3E-01	2.5E-09	2.4E-05	1.2E-04
465	1.0E+00	1.4E-04	1.0E-03	1.5E-07	1.6E-01	1.3E-01	3.1E-09	3.0E-05	1.5E-04
466	1.3E+00	1.4E-04	1.0E-03	2.0E-07	1.6E-01	1.3E-01	4.1E-09	3.9E-05	1.9E-04
467	1.8E+00	1.4E-04	1.0E-03	2.7E-07	1.6E-01	1.3E-01	5.5E-09	5.2E-05	2.6E-04
468	7.7E-01	1.4E-04	1.0E-03	1.2E-07	1.6E-01	1.3E-01	2.4E-09	2.3E-05	1.1E-04
469	9.8E-01	1.4E-04	1.0E-03	1.5E-07	1.6E-01	1.3E-01	3.1E-09	2.9E-05	1.5E-04
470	1.3E+00	1.4E-04	1.0E-03	2.0E-07	1.6E-01	1.3E-01	4.1E-09	3.9E-05	1.9E-04
471	1.8E+00	1.4E-04	1.0E-03	2.8E-07	1.6E-01	1.3E-01	5.7E-09	5.4E-05	2.7E-04
472	9.2E-01	1.4E-04	1.0E-03	1.4E-07	1.6E-01	1.3E-01	2.9E-09	2.7E-05	1.4E-04
473	1.2E+00	1.4E-04	1.0E-03	1.9E-07	1.6E-01	1.3E-01	3.8E-09	3.6E-05	1.8E-04
474	1.7E+00	1.4E-04	1.0E-03	2.6E-07	1.6E-01	1.3E-01	5.4E-09	5.1E-05	2.6E-04
475	8.3E-01	1.4E-04	1.0E-03	1.3E-07	1.6E-01	1.3E-01	2.6E-09	2.5E-05	1.2E-04
476	1.1E+00	1.4E-04	1.0E-03	1.7E-07	1.6E-01	1.3E-01	3.4E-09	3.3E-05	1.6E-04
477	1.5E+00	1.4E-04	1.0E-03	2.3E-07	1.6E-01	1.3E-01	4.8E-09	4.5E-05	2.3E-04

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
1	2.8E+00	8.8E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.3E-12	2.7E+00	1.6E-07	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.5E-12
2	2.9E+00	8.8E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	2.9E+00	1.6E-07	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11
3	3.1E+00	8.8E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.8E-12	3.1E+00	1.6E-07	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11
4	3.2E+00	8.8E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.1E-12	3.3E+00	1.6E-07	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11
5	3.3E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	3.5E+00	1.6E-07	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11
6	3.5E+00	8.8E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.6E-12	3.7E+00	1.6E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
7	3.6E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	6.9E-12	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
8	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	4.1E+00	1.6E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
9	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	4.3E+00	1.6E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
10	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.6E-12	4.6E+00	1.6E-07	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11
11	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.6E-12	4.8E+00	1.6E-07	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11
12	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.6E-12	5.0E+00	1.6E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
13	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
14	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.3E-12	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
15	2.9E+00	8.8E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	4.1E+00	1.6E-07	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11
16	2.8E+00	8.8E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.2E-12	3.8E+00	1.6E-07	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11
17	3.1E+00	8.8E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.9E-12	2.9E+00	1.6E-07	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11
18	3.3E+00	8.8E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	3.1E+00	1.6E-07	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11
19	3.4E+00	8.8E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.5E-12	3.4E+00	1.6E-07	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11
20	3.6E+00	8.8E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	3.6E+00	1.6E-07	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11
21	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
22	4.0E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	4.1E+00	1.6E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
23	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	6.0E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
24	4.5E+00	8.8E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	6.1E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
25	3.5E+00	8.8E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.6E-12	5.0E+00	1.6E-07	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11
26	3.3E+00	8.8E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
27	3.1E+00	8.8E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.8E-12	4.3E+00	1.6E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
28	3.4E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	3.1E+00	1.6E-07	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11
29	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	3.7E+00	1.6E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
30	4.1E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.7E-12	4.0E+00	1.6E-07	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11
31	4.3E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.2E-12	4.3E+00	1.6E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
32	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
33	4.8E+00	8.8E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.2E-12	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
34	5.0E+00	8.8E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.6E-12	5.4E+00	1.6E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
35	5.3E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	1.0E-11	5.8E+00	1.6E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
36	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	6.2E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11
37	5.5E+00	8.8E-08	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.0E-11	7.1E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
38	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	7.4E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
39	5.3E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	1.0E-11	7.5E+00	1.6E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
40	4.0E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	6.0E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
41	3.7E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.0E-12	5.5E+00	1.6E-07	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11
42	3.4E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	5.0E+00	1.6E-07	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11
43	3.7E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.1E-12	3.3E+00	1.6E-07	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11
44	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.7E-12	3.6E+00	1.6E-07	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11
45	4.3E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.2E-12	4.0E+00	1.6E-07	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11
46	5.0E+00	8.8E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.4E-12	4.8E+00	1.6E-07	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11
47	5.3E+00	8.8E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	5.3E+00	1.6E-07	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11
48	5.6E+00	8.8E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	5.8E+00	1.6E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
49	5.9E+00	8.8E-08	1.0E-03	5.4E-10	1.6E-01	1.3E-01	1.1E-11	6.3E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
50	6.2E+00	8.8E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	6.9E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
51	6.5E+00	8.8E-08	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11	7.5E+00	1.6E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
52	6.6E+00	8.8E-08	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11	8.8E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
53	6.5E+00	8.8E-08	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11	9.2E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11
54	6.3E+00	8.8E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	9.4E+00	1.6E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
55	6.0E+00	8.8E-08	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11	9.3E+00	1.6E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11
56	5.7E+00	8.8E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	9.0E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
57	4.5E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.6E-12	7.2E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
58	4.2E+00	8.8E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.9E-12	6.5E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
59	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	5.9E+00	1.6E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
60	4.1E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.7E-12	3.4E+00	1.6E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11
61	4.5E+00	8.8E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	3.7E+00	1.6E-07	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11
62	4.9E+00	8.8E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.2E-12	4.2E+00	1.6E-07	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.5E-11
63	5.3E+00	8.8E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
64	5.7E+00	8.8E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	5.3E+00	1.6E-07	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
65	7.0E+00	8.8E-08	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11	7.3E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
66	7.5E+00	8.8E-08	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11	8.2E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11
67	7.9E+00	8.8E-08	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11	9.0E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
68	8.1E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11
69	7.9E+00	8.8E-08	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11	1.2E+01	1.6E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
70	7.6E+00	8.8E-08	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.5E-11	1.2E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
71	7.2E+00	8.8E-08	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11	1.2E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
72	6.8E+00	8.8E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	1.2E+01	1.6E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
73	4.4E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.4E-12	3.4E+00	1.6E-07	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11
74	4.9E+00	8.8E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.3E-12	3.8E+00	1.6E-07	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11
75	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	4.3E+00	1.6E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
76	6.0E+00	8.8E-08	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11	4.9E+00	1.6E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
77	6.7E+00	8.8E-08	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11	5.7E+00	1.6E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
78	7.3E+00	8.8E-08	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11	6.5E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
79	8.0E+00	8.8E-08	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11	7.4E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
80	9.9E+00	8.8E-08	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11
81	1.0E+01	8.8E-08	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
82	1.0E+01	8.8E-08	1.0E-03	9.2E-10	1.6E-01	1.3E-01	1.9E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
83	9.5E+00	8.8E-08	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
84	8.9E+00	8.8E-08	1.0E-03	8.2E-10	1.6E-01	1.3E-01	1.7E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
85	8.2E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.6E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
86	4.5E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.6E-12	3.4E+00	1.6E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11
87	5.2E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
88	6.0E+00	8.8E-08	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11	4.4E+00	1.6E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11
89	6.8E+00	8.8E-08	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11	5.1E+00	1.6E-07	1.0E-03	8.6E-10	1.6E-01	1.3E-01	1.8E-11
90	7.7E+00	8.8E-08	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11	5.9E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
91	8.7E+00	8.8E-08	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.7E-11	6.9E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
92	9.7E+00	8.8E-08	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11	8.1E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11
93	1.1E+01	8.8E-08	1.0E-03	9.9E-10	1.6E-01	1.3E-01	2.0E-11	9.6E+00	1.6E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
94	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
95	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11	2.6E+01	1.6E-07	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.1E-11
96	1.0E+01	8.8E-08	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11	2.4E+01	1.6E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
97	4.8E+00	8.8E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.2E-12	3.4E+00	1.6E-07	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11
98	5.5E+00	8.8E-08	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.1E-11	3.8E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
99	6.4E+00	8.8E-08	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11	4.4E+00	1.6E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
100	1.0E+01	8.8E-08	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11	7.3E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
101	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	8.7E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
102	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	1.1E+01	1.6E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11
103	1.6E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
104	4.8E+00	8.8E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.2E-12	3.3E+00	1.6E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.1E-11
105	5.7E+00	8.8E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	3.8E+00	1.6E-07	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11
106	6.7E+00	8.8E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	4.4E+00	1.6E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
107	1.8E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
108	2.1E+01	8.8E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
109	4.7E+00	8.8E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.0E-12	3.2E+00	1.6E-07	1.0E-03	5.4E-10	1.6E-01	1.3E-01	1.1E-11
110	5.6E+00	8.8E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	3.7E+00	1.6E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
111	6.8E+00	8.8E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	4.3E+00	1.6E-07	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11
112	2.3E+01	8.8E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
113	3.0E+01	8.8E-08	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
114	4.5E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	3.1E+00	1.6E-07	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.1E-11
115	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	3.5E+00	1.6E-07	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11
116	6.6E+00	8.8E-08	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11	4.1E+00	1.6E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
117	8.1E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	4.8E+00	1.6E-07	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.7E-11
118	2.7E+01	8.8E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
119	4.2E+01	8.8E-08	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.0E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
120	4.3E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.2E-12	2.9E+00	1.6E-07	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11
121	5.1E+00	8.8E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.7E-12	3.3E+00	1.6E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11
122	6.2E+00	8.8E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
123	7.6E+00	8.8E-08	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.4E-11	4.5E+00	1.6E-07	1.0E-03	7.6E-10	1.6E-01	1.3E-01	1.6E-11
124	2.7E+01	8.8E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11	1.0E+01	1.6E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.6E-11
125	4.8E+01	8.8E-08	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.1E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
126	4.1E+00	8.8E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	2.8E+00	1.6E-07	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.7E-12
127	4.8E+00	8.8E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.1E-12	3.2E+00	1.6E-07	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11
128	5.7E+00	8.8E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	3.7E+00	1.6E-07	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
129	7.1E+00	8.8E-08	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11	4.3E+00	1.6E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
130	8.9E+00	8.8E-08	1.0E-03	8.2E-10	1.6E-01	1.3E-01	1.7E-11	5.0E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.7E-11
131	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	6.1E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
132	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	7.5E+00	1.6E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
133	2.4E+01	8.8E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11	9.6E+00	1.6E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
134	4.0E+01	8.8E-08	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.7E-11	1.3E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
135	8.8E+01	8.8E-08	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.3E-11
136	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	2.7E+00	1.6E-07	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.2E-12
137	4.5E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.6E-12	3.0E+00	1.6E-07	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.0E-11
138	5.3E+00	8.8E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	3.4E+00	1.6E-07	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11
139	6.5E+00	8.8E-08	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11	4.0E+00	1.6E-07	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11
140	8.1E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
141	1.0E+01	8.8E-08	1.0E-03	9.6E-10	1.6E-01	1.3E-01	2.0E-11	5.6E+00	1.6E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
142	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	6.9E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
143	2.0E+01	8.8E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11	8.6E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11
144	3.0E+01	8.8E-08	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11	1.1E+01	1.6E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
145	5.2E+01	8.8E-08	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.8E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
146	3.6E+00	8.8E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.9E-12	2.5E+00	1.6E-07	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.8E-12
147	4.2E+00	8.8E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	2.9E+00	1.6E-07	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12
148	5.0E+00	8.8E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.5E-12	3.2E+00	1.6E-07	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11
149	6.0E+00	8.8E-08	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11	3.8E+00	1.6E-07	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11
150	7.3E+00	8.8E-08	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11	4.4E+00	1.6E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
151	9.2E+00	8.8E-08	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11	5.2E+00	1.6E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
152	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	6.2E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11
153	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	7.6E+00	1.6E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
154	2.2E+01	8.8E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11	9.5E+00	1.6E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
155	3.2E+01	8.8E-08	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.1E-11	1.2E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
156	3.4E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	2.4E+00	1.6E-07	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.4E-12
157	4.0E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	2.7E+00	1.6E-07	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.4E-12
158	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.8E-12	3.1E+00	1.6E-07	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.1E-11
159	5.5E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	3.5E+00	1.6E-07	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11
160	6.6E+00	8.8E-08	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11	4.0E+00	1.6E-07	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
161	8.1E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
162	1.0E+01	8.8E-08	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11	5.6E+00	1.6E-07	1.0E-03	9.4E-10	1.6E-01	1.3E-01	1.9E-11
163	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	6.7E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
164	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	8.1E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11
165	2.1E+01	8.8E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11	1.0E+01	1.6E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11
166	3.2E+00	8.8E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.1E-12	2.3E+00	1.6E-07	1.0E-03	3.8E-10	1.6E-01	1.3E-01	8.0E-12
167	3.7E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.0E-12	2.6E+00	1.6E-07	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.9E-12
168	4.2E+00	8.8E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.1E-12	2.9E+00	1.6E-07	1.0E-03	4.8E-10	1.6E-01	1.3E-01	1.0E-11
169	5.0E+00	8.8E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.5E-12	3.3E+00	1.6E-07	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11
170	5.9E+00	8.8E-08	1.0E-03	5.4E-10	1.6E-01	1.3E-01	1.1E-11	3.7E+00	1.6E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
171	7.0E+00	8.8E-08	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11	4.3E+00	1.6E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
172	8.5E+00	8.8E-08	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11	5.0E+00	1.6E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
173	1.0E+01	8.8E-08	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11	5.8E+00	1.6E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
174	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	6.9E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
175	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	8.3E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
176	3.0E+00	8.8E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.7E-12	2.2E+00	1.6E-07	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12
177	3.4E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	2.4E+00	1.6E-07	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12
178	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	2.7E+00	1.6E-07	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.3E-12
179	4.5E+00	8.8E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	3.0E+00	1.6E-07	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.0E-11
180	5.2E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	3.4E+00	1.6E-07	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11
181	6.1E+00	8.8E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
182	7.2E+00	8.8E-08	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11	4.4E+00	1.6E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
183	8.4E+00	8.8E-08	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
184	9.8E+00	8.8E-08	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11	5.9E+00	1.6E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
185	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11	6.8E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11
186	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	6.0E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
187	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	5.2E+00	1.6E-07	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11
188	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	4.6E+00	1.6E-07	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11
189	2.8E+00	8.8E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.3E-12	2.0E+00	1.6E-07	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.1E-12
190	3.1E+00	8.8E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.0E-12	2.3E+00	1.6E-07	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12
191	3.6E+00	8.8E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	2.5E+00	1.6E-07	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12
192	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.7E-12	2.8E+00	1.6E-07	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.6E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
193	4.6E+00	8.8E-08	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.8E-12	3.1E+00	1.6E-07	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11
194	5.3E+00	8.8E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	3.5E+00	1.6E-07	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11
195	6.1E+00	8.8E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	3.9E+00	1.6E-07	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11
196	6.9E+00	8.8E-08	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11	4.4E+00	1.6E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
197	8.6E+00	8.8E-08	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.6E-11	5.7E+00	1.6E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
198	7.1E+00	8.8E-08	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11	6.7E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
199	6.2E+00	8.8E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	6.2E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
200	5.4E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	5.6E+00	1.6E-07	1.0E-03	9.4E-10	1.6E-01	1.3E-01	1.9E-11
201	4.7E+00	8.8E-08	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.9E-12	5.0E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.7E-11
202	4.1E+00	8.8E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	4.5E+00	1.6E-07	1.0E-03	7.6E-10	1.6E-01	1.3E-01	1.6E-11
203	3.6E+00	8.8E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	4.0E+00	1.6E-07	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11
204	2.6E+00	8.8E-08	1.0E-03	2.4E-10	1.6E-01	1.3E-01	5.0E-12	1.9E+00	1.6E-07	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.7E-12
205	2.9E+00	8.8E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.5E-12	2.1E+00	1.6E-07	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12
206	3.2E+00	8.8E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	2.3E+00	1.6E-07	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.1E-12
207	3.6E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	6.9E-12	2.6E+00	1.6E-07	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.9E-12
208	4.1E+00	8.8E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	2.8E+00	1.6E-07	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12
209	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.8E-12	3.1E+00	1.6E-07	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11
210	5.2E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	3.5E+00	1.6E-07	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11
211	6.3E+00	8.8E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	4.3E+00	1.6E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
212	6.7E+00	8.8E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
213	6.6E+00	8.8E-08	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11	5.5E+00	1.6E-07	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11
214	6.2E+00	8.8E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	5.5E+00	1.6E-07	1.0E-03	9.2E-10	1.6E-01	1.3E-01	1.9E-11
215	5.8E+00	8.8E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	5.4E+00	1.6E-07	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11
216	5.2E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.8E-12	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
217	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.8E-12	4.7E+00	1.6E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
218	4.1E+00	8.8E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	4.3E+00	1.6E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
219	3.6E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	6.9E-12	3.9E+00	1.6E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11
220	3.2E+00	8.8E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.1E-12	3.4E+00	1.6E-07	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11
221	2.4E+00	8.8E-08	1.0E-03	2.2E-10	1.6E-01	1.3E-01	4.6E-12	1.8E+00	1.6E-07	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.3E-12
222	2.7E+00	8.8E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.1E-12	2.0E+00	1.6E-07	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.9E-12
223	3.0E+00	8.8E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	2.2E+00	1.6E-07	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12
224	3.3E+00	8.8E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	2.4E+00	1.6E-07	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.2E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
225	3.6E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	6.9E-12	2.6E+00	1.6E-07	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.0E-12
226	4.5E+00	8.8E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	3.1E+00	1.6E-07	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11
227	4.9E+00	8.8E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.3E-12	3.4E+00	1.6E-07	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11
228	5.2E+00	8.8E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.8E-12	3.7E+00	1.6E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
229	5.5E+00	8.8E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	4.0E+00	1.6E-07	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11
230	5.3E+00	8.8E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	4.5E+00	1.6E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.6E-11
231	5.0E+00	8.8E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.6E-12	4.4E+00	1.6E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11
232	4.8E+00	8.8E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.0E-12	4.4E+00	1.6E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
233	4.3E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	4.2E+00	1.6E-07	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.4E-11
234	3.9E+00	8.8E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	3.9E+00	1.6E-07	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11
235	3.6E+00	8.8E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	3.7E+00	1.6E-07	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11
236	3.2E+00	8.8E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.1E-12	3.3E+00	1.6E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11
237	2.9E+00	8.8E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.5E-12	3.1E+00	1.6E-07	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.1E-11
238	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
239	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
240	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
241	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
242	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
243	1.1E+01	8.8E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.2E-11	1.6E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
244	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
245	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
246	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
247	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.6E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
248	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
249	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
250	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
251	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
252	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
253	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11
254	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
255	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
256	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
257	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
258	1.2E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
259	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11	2.0E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
260	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.2E-11
261	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
262	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
263	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
264	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.0E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
265	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
266	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.2E+01	1.6E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.5E-11
267	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.2E+01	1.6E-07	1.0E-03	3.8E-09	1.6E-01	1.3E-01	7.8E-11
268	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.3E+01	1.6E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.0E-11
269	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	2.4E+01	1.6E-07	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.2E-11
270	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	2.4E+01	1.6E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.4E-11
271	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
272	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.2E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.5E-11
273	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.2E+01	1.6E-07	1.0E-03	3.8E-09	1.6E-01	1.3E-01	7.8E-11
274	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.3E+01	1.6E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11
275	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	2.4E+01	1.6E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.4E-11
276	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	2.5E+01	1.6E-07	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.6E-11
277	1.4E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	2.6E+01	1.6E-07	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.9E-11
278	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.6E+01	1.6E-07	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.1E-11
279	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.7E+01	1.6E-07	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.4E-11
280	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	2.8E+01	1.6E-07	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.6E-11
281	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	2.8E+01	1.6E-07	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.8E-11
282	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	2.4E+01	1.6E-07	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.4E-11
283	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	2.5E+01	1.6E-07	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.7E-11
284	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	2.6E+01	1.6E-07	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.0E-11
285	1.5E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	2.7E+01	1.6E-07	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.4E-11
286	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.8E+01	1.6E-07	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.7E-11
287	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	2.9E+01	1.6E-07	1.0E-03	4.8E-09	1.6E-01	1.3E-01	1.0E-10
288	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.0E+01	1.6E-07	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
289	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.0E+01	1.6E-07	1.0E-03	5.1E-09	1.6E-01	1.3E-01	1.1E-10
290	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	3.1E+01	1.6E-07	1.0E-03	5.2E-09	1.6E-01	1.3E-01	1.1E-10
291	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.2E+01	1.6E-07	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10
292	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.2E+01	1.6E-07	1.0E-03	5.4E-09	1.6E-01	1.3E-01	1.1E-10
293	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	2.9E+01	1.6E-07	1.0E-03	4.9E-09	1.6E-01	1.3E-01	1.0E-10
294	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.0E+01	1.6E-07	1.0E-03	5.1E-09	1.6E-01	1.3E-01	1.1E-10
295	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.2E+01	1.6E-07	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10
296	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	3.3E+01	1.6E-07	1.0E-03	5.5E-09	1.6E-01	1.3E-01	1.1E-10
297	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	3.4E+01	1.6E-07	1.0E-03	5.7E-09	1.6E-01	1.3E-01	1.2E-10
298	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.5E+01	1.6E-07	1.0E-03	5.8E-09	1.6E-01	1.3E-01	1.2E-10
299	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.5E+01	1.6E-07	1.0E-03	6.0E-09	1.6E-01	1.3E-01	1.2E-10
300	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.6E+01	1.6E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
301	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.6E+01	1.6E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
302	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.6E+01	1.6E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
303	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	3.6E+01	1.6E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
304	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	3.5E+01	1.6E-07	1.0E-03	5.8E-09	1.6E-01	1.3E-01	1.2E-10
305	1.6E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	3.6E+01	1.6E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
306	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.8E+01	1.6E-07	1.0E-03	6.3E-09	1.6E-01	1.3E-01	1.3E-10
307	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.9E+01	1.6E-07	1.0E-03	6.5E-09	1.6E-01	1.3E-01	1.4E-10
308	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	4.0E+01	1.6E-07	1.0E-03	6.7E-09	1.6E-01	1.3E-01	1.4E-10
309	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	4.1E+01	1.6E-07	1.0E-03	6.9E-09	1.6E-01	1.3E-01	1.4E-10
310	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	4.1E+01	1.6E-07	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10
311	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	4.2E+01	1.6E-07	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10
312	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	4.2E+01	1.6E-07	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10
313	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	4.1E+01	1.6E-07	1.0E-03	6.9E-09	1.6E-01	1.3E-01	1.4E-10
314	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	4.0E+01	1.6E-07	1.0E-03	6.7E-09	1.6E-01	1.3E-01	1.4E-10
315	1.2E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	3.9E+01	1.6E-07	1.0E-03	6.5E-09	1.6E-01	1.3E-01	1.4E-10
316	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.4E+01	1.6E-07	1.0E-03	7.4E-09	1.6E-01	1.3E-01	1.5E-10
317	1.6E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	4.6E+01	1.6E-07	1.0E-03	7.7E-09	1.6E-01	1.3E-01	1.6E-10
318	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.7E+01	1.6E-07	1.0E-03	7.9E-09	1.6E-01	1.3E-01	1.6E-10
319	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.8E+01	1.6E-07	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10
320	1.5E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	4.8E+01	1.6E-07	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
321	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	4.8E+01	1.6E-07	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10
322	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	4.8E+01	1.6E-07	1.0E-03	8.0E-09	1.6E-01	1.3E-01	1.7E-10
323	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	4.7E+01	1.6E-07	1.0E-03	7.8E-09	1.6E-01	1.3E-01	1.6E-10
324	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	4.5E+01	1.6E-07	1.0E-03	7.5E-09	1.6E-01	1.3E-01	1.6E-10
325	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	5.5E+01	1.6E-07	1.0E-03	9.2E-09	1.6E-01	1.3E-01	1.9E-10
326	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	5.6E+01	1.6E-07	1.0E-03	9.4E-09	1.6E-01	1.3E-01	2.0E-10
327	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	5.7E+01	1.6E-07	1.0E-03	9.6E-09	1.6E-01	1.3E-01	2.0E-10
328	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	5.7E+01	1.6E-07	1.0E-03	9.7E-09	1.6E-01	1.3E-01	2.0E-10
329	1.5E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	5.7E+01	1.6E-07	1.0E-03	9.5E-09	1.6E-01	1.3E-01	2.0E-10
330	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	5.5E+01	1.6E-07	1.0E-03	9.2E-09	1.6E-01	1.3E-01	1.9E-10
331	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	6.9E+01	1.6E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.4E-10
332	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	7.0E+01	1.6E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.4E-10
333	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	6.9E+01	1.6E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.4E-10
334	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	6.6E+01	1.6E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10
335	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	1.2E+01	1.6E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
336	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	1.2E+01	1.6E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
337	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.3E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
338	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
339	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	1.2E+01	1.6E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
340	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11	1.3E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
341	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
342	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.3E+01	1.6E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
343	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	1.3E+01	1.6E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
344	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
345	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	1.4E+01	1.6E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
346	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
347	1.4E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
348	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	1.3E+01	1.6E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
349	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
350	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
351	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	1.3E+01	1.6E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
352	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	1.4E+01	1.6E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
353	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	1.5E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
354	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
355	1.5E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	1.4E+01	1.6E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
356	1.6E+01	8.8E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
357	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
358	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
359	1.6E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	1.4E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
360	1.7E+01	8.8E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
361	1.7E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11	1.5E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
362	1.7E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
363	1.7E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	1.5E+01	1.6E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.1E-11
364	1.8E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11	1.5E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
365	1.8E+01	8.8E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
366	1.8E+01	8.8E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11
367	1.8E+01	8.8E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	1.5E+01	1.6E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
368	1.9E+01	8.8E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
369	1.9E+01	8.8E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	1.6E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
370	2.0E+01	8.8E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
371	2.0E+01	8.8E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11	1.5E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
372	2.0E+01	8.8E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
373	2.1E+01	8.8E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
374	2.1E+01	8.8E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.0E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
375	2.1E+01	8.8E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
376	2.2E+01	8.8E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11	1.6E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
377	2.2E+01	8.8E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
378	2.3E+01	8.8E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11
379	2.3E+01	8.8E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
380	2.3E+01	8.8E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
381	2.4E+01	8.8E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
382	2.5E+01	8.8E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.5E-11
383	2.4E+01	8.8E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
384	2.5E+01	8.8E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
385	2.6E+01	8.8E-08	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11
386	2.7E+01	8.8E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.7E-11
387	2.6E+01	8.8E-08	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
388	2.7E+01	8.8E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11	1.8E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.1E-11
389	2.8E+01	8.8E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
390	2.9E+01	8.8E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
391	2.8E+01	8.8E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11
392	3.0E+01	8.8E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
393	3.1E+01	8.8E-08	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.5E-11
394	3.2E+01	8.8E-08	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.1E-11	2.0E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	6.9E-11
395	3.1E+01	8.8E-08	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
396	3.2E+01	8.8E-08	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.1E-11	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
397	3.4E+01	8.8E-08	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
398	3.5E+01	8.8E-08	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.7E-11	2.0E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.1E-11
399	3.3E+01	8.8E-08	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
400	3.5E+01	8.8E-08	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.7E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11
401	3.7E+01	8.8E-08	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11	1.9E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.7E-11
402	3.8E+01	8.8E-08	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.2E-11
403	3.6E+01	8.8E-08	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
404	3.8E+01	8.8E-08	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
405	4.0E+01	8.8E-08	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.7E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
406	4.3E+01	8.8E-08	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.2E-11
407	3.9E+01	8.8E-08	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.5E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
408	4.2E+01	8.8E-08	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.0E-11	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
409	4.5E+01	8.8E-08	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.5E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
410	4.7E+01	8.8E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	9.0E-11	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
411	4.3E+01	8.8E-08	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
412	4.6E+01	8.8E-08	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.7E-11	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
413	4.9E+01	8.8E-08	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.4E-11	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
414	5.3E+01	8.8E-08	1.0E-03	4.8E-09	1.6E-01	1.3E-01	1.0E-10	2.1E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
415	4.6E+01	8.8E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.8E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
416	5.0E+01	8.8E-08	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.6E-11	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
417	5.4E+01	8.8E-08	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
418	5.9E+01	8.8E-08	1.0E-03	5.4E-09	1.6E-01	1.3E-01	1.1E-10	2.1E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
419	5.0E+01	8.8E-08	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.5E-11	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
420	5.5E+01	8.8E-08	1.0E-03	5.1E-09	1.6E-01	1.3E-01	1.0E-10	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
421	6.0E+01	8.8E-08	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.1E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
422	6.6E+01	8.8E-08	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10	2.1E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
423	5.4E+01	8.8E-08	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
424	6.0E+01	8.8E-08	1.0E-03	5.5E-09	1.6E-01	1.3E-01	1.1E-10	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
425	6.7E+01	8.8E-08	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
426	7.4E+01	8.8E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	2.1E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
427	5.8E+01	8.8E-08	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
428	6.5E+01	8.8E-08	1.0E-03	6.0E-09	1.6E-01	1.3E-01	1.2E-10	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
429	7.3E+01	8.8E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
430	8.3E+01	8.8E-08	1.0E-03	7.7E-09	1.6E-01	1.3E-01	1.6E-10	2.1E+01	1.6E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
431	6.1E+01	8.8E-08	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.2E-10	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
432	7.0E+01	8.8E-08	1.0E-03	6.4E-09	1.6E-01	1.3E-01	1.3E-10	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.3E-11
433	8.0E+01	8.8E-08	1.0E-03	7.4E-09	1.6E-01	1.3E-01	1.5E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
434	9.3E+01	8.8E-08	1.0E-03	8.6E-09	1.6E-01	1.3E-01	1.8E-10	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
435	6.3E+01	8.8E-08	1.0E-03	5.8E-09	1.6E-01	1.3E-01	1.2E-10	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11
436	7.3E+01	8.8E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
437	8.6E+01	8.8E-08	1.0E-03	7.9E-09	1.6E-01	1.3E-01	1.6E-10	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.7E-11
438	1.0E+02	8.8E-08	1.0E-03	9.4E-09	1.6E-01	1.3E-01	1.9E-10	2.1E+01	1.6E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.2E-11
439	6.4E+01	8.8E-08	1.0E-03	5.9E-09	1.6E-01	1.3E-01	1.2E-10	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
440	7.6E+01	8.8E-08	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10	1.8E+01	1.6E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.1E-11
441	9.0E+01	8.8E-08	1.0E-03	8.3E-09	1.6E-01	1.3E-01	1.7E-10	1.9E+01	1.6E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
442	1.1E+02	8.8E-08	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10	2.1E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.1E-11
443	6.4E+01	8.8E-08	1.0E-03	5.9E-09	1.6E-01	1.3E-01	1.2E-10	1.6E+01	1.6E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
444	7.6E+01	8.8E-08	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10	1.7E+01	1.6E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11
445	9.2E+01	8.8E-08	1.0E-03	8.4E-09	1.6E-01	1.3E-01	1.7E-10	1.9E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.5E-11
446	1.1E+02	8.8E-08	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.2E-10	2.0E+01	1.6E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
447	6.2E+01	8.8E-08	1.0E-03	5.7E-09	1.6E-01	1.3E-01	1.2E-10	1.6E+01	1.6E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.5E-11
448	7.4E+01	8.8E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	1.7E+01	1.6E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	9.0E+01	8.8E-08	1.0E-03	8.3E-09	1.6E-01	1.3E-01	1.7E-10	1.8E+01	1.6E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11
450	1.1E+02	8.8E-08	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10	2.0E+01	1.6E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11
451	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	5.1E+00	1.6E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
452	3.6E+00	8.8E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	6.9E-12	5.0E+00	1.6E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
453	3.5E+00	8.8E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.7E-12	4.8E+00	1.6E-07	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11
454	3.3E+00	8.8E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	4.6E+00	1.6E-07	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11
455	4.3E+00	8.8E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	6.0E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
456	4.2E+00	8.8E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	5.9E+00	1.6E-07	1.0E-03	9.9E-10	1.6E-01	1.3E-01	2.0E-11
457	4.0E+00	8.8E-08	1.0E-03	3.7E-10	1.6E-01	1.3E-01	7.6E-12	5.7E+00	1.6E-07	1.0E-03	9.6E-10	1.6E-01	1.3E-01	2.0E-11
458	3.8E+00	8.8E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	5.4E+00	1.6E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
459	5.1E+00	8.8E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.7E-12	7.4E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
460	4.8E+00	8.8E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.2E-12	7.2E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
461	4.6E+00	8.8E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	6.9E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
462	7.6E+00	8.8E-08	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.4E-11	5.2E+00	1.6E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
463	8.8E+00	8.8E-08	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11	6.1E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
464	8.1E+00	8.8E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	5.2E+00	1.6E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
465	9.8E+00	8.8E-08	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11	6.1E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
466	1.2E+01	8.8E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	7.4E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
467	1.5E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	9.0E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
468	8.3E+00	8.8E-08	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11	5.0E+00	1.6E-07	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11
469	1.0E+01	8.8E-08	1.0E-03	9.6E-10	1.6E-01	1.3E-01	2.0E-11	6.0E+00	1.6E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
470	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	7.2E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
471	1.7E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	9.0E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
472	1.0E+01	8.8E-08	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11	5.7E+00	1.6E-07	1.0E-03	9.6E-10	1.6E-01	1.3E-01	2.0E-11
473	1.4E+01	8.8E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	7.0E+00	1.6E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
474	1.9E+01	8.8E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	8.7E+00	1.6E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
475	9.7E+00	8.8E-08	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11	5.4E+00	1.6E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
476	1.3E+01	8.8E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	6.5E+00	1.6E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
477	1.8E+01	8.8E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11	8.1E+00	1.6E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
1	2.9E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.9E-12	1.6E+00	5.3E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
2	3.1E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	1.8E+00	5.3E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
3	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
4	3.6E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	2.1E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11
5	3.8E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.9E-12	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
6	4.1E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.4E-12	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
7	4.4E+00	9.5E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.0E-12	2.6E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
8	4.7E+00	9.5E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.6E-12	2.8E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11
9	5.0E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	3.0E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11
10	5.3E+00	9.5E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	3.2E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11
11	5.7E+00	9.5E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
12	6.0E+00	9.5E-08	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11	3.7E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
13	6.2E+00	9.5E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
14	6.3E+00	9.5E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
15	5.0E+00	9.5E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	5.0E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
16	4.6E+00	9.5E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.4E-12	5.0E+00	5.3E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.7E-11
17	3.0E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	1.7E+00	5.3E-07	1.0E-03	9.2E-10	1.6E-01	1.3E-01	1.9E-11
18	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	1.8E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
19	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
20	3.9E+00	9.5E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	2.1E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
21	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
22	4.6E+00	9.5E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.4E-12	2.5E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
23	7.5E+00	9.5E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
24	7.7E+00	9.5E-08	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11	4.8E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
25	6.3E+00	9.5E-08	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11	5.8E+00	5.3E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
26	5.8E+00	9.5E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	5.9E+00	5.3E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.7E-11
27	5.4E+00	9.5E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	5.9E+00	5.3E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.7E-11
28	3.1E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	1.7E+00	5.3E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
29	3.9E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.9E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
30	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
31	4.7E+00	9.5E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.6E-12	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
32	5.2E+00	9.5E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	2.6E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
33	5.7E+00	9.5E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
34	6.2E+00	9.5E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	3.2E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.6E-11
35	6.9E+00	9.5E-08	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
36	7.5E+00	9.5E-08	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11	3.9E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
37	8.9E+00	9.5E-08	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
38	9.4E+00	9.5E-08	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11	5.2E+00	5.3E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
39	9.8E+00	9.5E-08	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11	5.6E+00	5.3E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
40	7.7E+00	9.5E-08	1.0E-03	7.6E-10	1.6E-01	1.3E-01	1.6E-11	7.0E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.0E-11
41	7.0E+00	9.5E-08	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.4E-11	7.1E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11
42	6.3E+00	9.5E-08	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11	7.1E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11
43	3.2E+00	9.5E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.6E-12	1.6E+00	5.3E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
44	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	1.8E+00	5.3E-07	1.0E-03	9.9E-10	1.6E-01	1.3E-01	2.1E-11
45	4.1E+00	9.5E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
46	5.1E+00	9.5E-08	1.0E-03	5.1E-10	1.6E-01	1.3E-01	1.0E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11
47	5.8E+00	9.5E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	2.7E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
48	6.4E+00	9.5E-08	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11	3.0E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11
49	7.2E+00	9.5E-08	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11
50	8.1E+00	9.5E-08	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.7E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
51	9.0E+00	9.5E-08	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.9E-11
52	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	5.4E+00	5.3E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
53	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	6.0E+00	5.3E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
54	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	6.7E+00	5.3E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.6E-11
55	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	7.3E+00	5.3E-07	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.3E-11
56	1.3E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	7.8E+00	5.3E-07	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.9E-11
57	9.6E+00	9.5E-08	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11	8.7E+00	5.3E-07	1.0E-03	4.8E-09	1.6E-01	1.3E-01	9.9E-11
58	8.5E+00	9.5E-08	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11	8.7E+00	5.3E-07	1.0E-03	4.8E-09	1.6E-01	1.3E-01	1.0E-10
59	7.5E+00	9.5E-08	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11	8.7E+00	5.3E-07	1.0E-03	4.8E-09	1.6E-01	1.3E-01	9.9E-11
60	3.2E+00	9.5E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.6E-12	1.6E+00	5.3E-07	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11
61	3.7E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	1.8E+00	5.3E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
62	4.2E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
63	4.8E+00	9.5E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.7E-12	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
64	5.4E+00	9.5E-08	1.0E-03	5.4E-10	1.6E-01	1.3E-01	1.1E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
65	8.2E+00	9.5E-08	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
66	9.5E+00	9.5E-08	1.0E-03	9.4E-10	1.6E-01	1.3E-01	1.9E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
67	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
68	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	6.1E+00	5.3E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
69	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	7.1E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11
70	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11	8.1E+00	5.3E-07	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.2E-11
71	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	9.0E+00	5.3E-07	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10
72	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	9.9E+00	5.3E-07	1.0E-03	5.4E-09	1.6E-01	1.3E-01	1.1E-10
73	3.2E+00	9.5E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.6E-12	1.6E+00	5.3E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
74	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	1.7E+00	5.3E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
75	4.2E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
76	4.8E+00	9.5E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	2.1E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
77	5.7E+00	9.5E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
78	6.6E+00	9.5E-08	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.4E-11	2.7E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
79	7.8E+00	9.5E-08	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11	3.1E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11
80	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	4.8E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
81	1.9E+01	9.5E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11	7.0E+00	5.3E-07	1.0E-03	3.8E-09	1.6E-01	1.3E-01	8.0E-11
82	2.3E+01	9.5E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11	8.4E+00	5.3E-07	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.6E-11
83	2.6E+01	9.5E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11	1.0E+01	5.3E-07	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.1E-10
84	2.7E+01	9.5E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11	1.2E+01	5.3E-07	1.0E-03	6.5E-09	1.6E-01	1.3E-01	1.3E-10
85	2.6E+01	9.5E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11	1.3E+01	5.3E-07	1.0E-03	7.3E-09	1.6E-01	1.3E-01	1.5E-10
86	3.1E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.3E-12	1.5E+00	5.3E-07	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11
87	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	1.7E+00	5.3E-07	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11
88	4.1E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.4E-12	1.9E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
89	4.8E+00	9.5E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.8E-12	2.1E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11
90	5.7E+00	9.5E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
91	6.8E+00	9.5E-08	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11	2.6E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
92	8.2E+00	9.5E-08	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11	3.0E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11
93	9.9E+00	9.5E-08	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
94	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
95	4.8E+01	9.5E-08	1.0E-03	4.8E-09	1.6E-01	1.3E-01	9.9E-11	1.7E+01	5.3E-07	1.0E-03	9.3E-09	1.6E-01	1.3E-01	1.9E-10
96	4.6E+01	9.5E-08	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.4E-11	2.0E+01	5.3E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
97	3.0E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	1.5E+00	5.3E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
98	3.5E+00	9.5E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.1E-12	1.6E+00	5.3E-07	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11
99	4.0E+00	9.5E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.1E-12	1.8E+00	5.3E-07	1.0E-03	9.9E-10	1.6E-01	1.3E-01	2.1E-11
100	6.7E+00	9.5E-08	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11	2.5E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
101	8.2E+00	9.5E-08	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
102	1.0E+01	9.5E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
103	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
104	2.9E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.0E-12	1.5E+00	5.3E-07	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.7E-11
105	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	1.6E+00	5.3E-07	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11
106	3.8E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.9E-12	1.7E+00	5.3E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
107	1.0E+01	9.5E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11	3.2E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11
108	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
109	2.8E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.7E-12	1.4E+00	5.3E-07	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11
110	3.2E+00	9.5E-08	1.0E-03	3.2E-10	1.6E-01	1.3E-01	6.5E-12	1.5E+00	5.3E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
111	3.7E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.5E-12	1.7E+00	5.3E-07	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11
112	9.5E+00	9.5E-08	1.0E-03	9.4E-10	1.6E-01	1.3E-01	1.9E-11	3.0E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11
113	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
114	2.7E+00	9.5E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.5E-12	1.4E+00	5.3E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.6E-11
115	3.0E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.2E-12	1.5E+00	5.3E-07	1.0E-03	8.2E-10	1.6E-01	1.3E-01	1.7E-11
116	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.1E-12	1.6E+00	5.3E-07	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11
117	4.0E+00	9.5E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	1.8E+00	5.3E-07	1.0E-03	9.9E-10	1.6E-01	1.3E-01	2.0E-11
118	8.7E+00	9.5E-08	1.0E-03	8.6E-10	1.6E-01	1.3E-01	1.8E-11	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
119	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11
120	2.6E+00	9.5E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.2E-12	1.3E+00	5.3E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
121	2.9E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	5.9E-12	1.4E+00	5.3E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
122	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	1.6E+00	5.3E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
123	3.8E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	1.7E+00	5.3E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
124	7.9E+00	9.5E-08	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11	2.7E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
125	1.0E+01	9.5E-08	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11	3.1E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11
126	2.4E+00	9.5E-08	1.0E-03	2.4E-10	1.6E-01	1.3E-01	5.0E-12	1.3E+00	5.3E-07	1.0E-03	7.0E-10	1.6E-01	1.3E-01	1.5E-11
127	2.7E+00	9.5E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	1.4E+00	5.3E-07	1.0E-03	7.6E-10	1.6E-01	1.3E-01	1.6E-11
128	3.1E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	1.5E+00	5.3E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
129	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.3E-12	1.7E+00	5.3E-07	1.0E-03	9.2E-10	1.6E-01	1.3E-01	1.9E-11
130	4.2E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	1.8E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
131	4.9E+00	9.5E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	1.0E-11	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
132	5.8E+00	9.5E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
133	7.2E+00	9.5E-08	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11	2.6E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
134	9.0E+00	9.5E-08	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
135	1.2E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
136	2.3E+00	9.5E-08	1.0E-03	2.3E-10	1.6E-01	1.3E-01	4.8E-12	1.2E+00	5.3E-07	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11
137	2.6E+00	9.5E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.4E-12	1.3E+00	5.3E-07	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11
138	3.0E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.0E-12	1.5E+00	5.3E-07	1.0E-03	8.0E-10	1.6E-01	1.3E-01	1.7E-11
139	3.4E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.9E-12	1.6E+00	5.3E-07	1.0E-03	8.8E-10	1.6E-01	1.3E-01	1.8E-11
140	3.9E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	8.0E-12	1.8E+00	5.3E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
141	4.5E+00	9.5E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.3E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
142	5.4E+00	9.5E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
143	6.4E+00	9.5E-08	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11
144	7.9E+00	9.5E-08	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11	2.7E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11
145	9.8E+00	9.5E-08	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11	3.1E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11
146	2.2E+00	9.5E-08	1.0E-03	2.2E-10	1.6E-01	1.3E-01	4.6E-12	1.2E+00	5.3E-07	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11
147	2.5E+00	9.5E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.1E-12	1.3E+00	5.3E-07	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11
148	2.8E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.7E-12	1.4E+00	5.3E-07	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11
149	3.2E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	1.5E+00	5.3E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
150	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	1.7E+00	5.3E-07	1.0E-03	9.3E-10	1.6E-01	1.3E-01	1.9E-11
151	4.2E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.5E-12	1.8E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
152	4.8E+00	9.5E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
153	5.7E+00	9.5E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
154	6.8E+00	9.5E-08	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11	2.6E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
155	8.2E+00	9.5E-08	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
156	2.1E+00	9.5E-08	1.0E-03	2.1E-10	1.6E-01	1.3E-01	4.3E-12	1.2E+00	5.3E-07	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11
157	2.4E+00	9.5E-08	1.0E-03	2.3E-10	1.6E-01	1.3E-01	4.8E-12	1.3E+00	5.3E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
158	2.6E+00	9.5E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.4E-12	1.4E+00	5.3E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11
159	2.9E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.0E-12	1.5E+00	5.3E-07	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11
160	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.8E-12	1.6E+00	5.3E-07	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
161	3.8E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.8E-12	1.8E+00	5.3E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
162	4.4E+00	9.5E-08	1.0E-03	4.3E-10	1.6E-01	1.3E-01	8.9E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
163	5.0E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	2.1E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
164	5.8E+00	9.5E-08	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
165	6.9E+00	9.5E-08	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11	2.7E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
166	2.0E+00	9.5E-08	1.0E-03	2.0E-10	1.6E-01	1.3E-01	4.1E-12	1.1E+00	5.3E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
167	2.2E+00	9.5E-08	1.0E-03	2.2E-10	1.6E-01	1.3E-01	4.5E-12	1.2E+00	5.3E-07	1.0E-03	6.7E-10	1.6E-01	1.3E-01	1.4E-11
168	2.5E+00	9.5E-08	1.0E-03	2.4E-10	1.6E-01	1.3E-01	5.0E-12	1.3E+00	5.3E-07	1.0E-03	7.2E-10	1.6E-01	1.3E-01	1.5E-11
169	2.7E+00	9.5E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	1.4E+00	5.3E-07	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11
170	3.1E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.3E-12	1.5E+00	5.3E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.7E-11
171	3.5E+00	9.5E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.1E-12	1.7E+00	5.3E-07	1.0E-03	9.2E-10	1.6E-01	1.3E-01	1.9E-11
172	3.9E+00	9.5E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	1.8E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
173	4.4E+00	9.5E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.1E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
174	5.1E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
175	5.8E+00	9.5E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	2.4E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11
176	1.9E+00	9.5E-08	1.0E-03	1.9E-10	1.6E-01	1.3E-01	3.9E-12	1.1E+00	5.3E-07	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11
177	2.1E+00	9.5E-08	1.0E-03	2.1E-10	1.6E-01	1.3E-01	4.3E-12	1.2E+00	5.3E-07	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11
178	2.3E+00	9.5E-08	1.0E-03	2.3E-10	1.6E-01	1.3E-01	4.7E-12	1.2E+00	5.3E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
179	2.5E+00	9.5E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.2E-12	1.3E+00	5.3E-07	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.5E-11
180	2.8E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.8E-12	1.5E+00	5.3E-07	1.0E-03	8.1E-10	1.6E-01	1.3E-01	1.7E-11
181	3.1E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	1.6E+00	5.3E-07	1.0E-03	8.7E-10	1.6E-01	1.3E-01	1.8E-11
182	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	1.7E+00	5.3E-07	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11
183	3.9E+00	9.5E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	1.9E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
184	4.4E+00	9.5E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.0E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
185	4.9E+00	9.5E-08	1.0E-03	4.9E-10	1.6E-01	1.3E-01	1.0E-11	2.3E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
186	5.0E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
187	4.5E+00	9.5E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.3E-12	5.0E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
188	4.1E+00	9.5E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	5.2E+00	5.3E-07	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11
189	1.8E+00	9.5E-08	1.0E-03	1.8E-10	1.6E-01	1.3E-01	3.7E-12	1.0E+00	5.3E-07	1.0E-03	5.8E-10	1.6E-01	1.3E-01	1.2E-11
190	2.0E+00	9.5E-08	1.0E-03	1.9E-10	1.6E-01	1.3E-01	4.0E-12	1.1E+00	5.3E-07	1.0E-03	6.2E-10	1.6E-01	1.3E-01	1.3E-11
191	2.1E+00	9.5E-08	1.0E-03	2.1E-10	1.6E-01	1.3E-01	4.4E-12	1.2E+00	5.3E-07	1.0E-03	6.6E-10	1.6E-01	1.3E-01	1.4E-11
192	2.4E+00	9.5E-08	1.0E-03	2.3E-10	1.6E-01	1.3E-01	4.8E-12	1.3E+00	5.3E-07	1.0E-03	7.1E-10	1.6E-01	1.3E-01	1.5E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
193	2.6E+00	9.5E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.3E-12	1.4E+00	5.3E-07	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11
194	2.9E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.9E-12	1.5E+00	5.3E-07	1.0E-03	8.3E-10	1.6E-01	1.3E-01	1.7E-11
195	3.2E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	1.6E+00	5.3E-07	1.0E-03	8.9E-10	1.6E-01	1.3E-01	1.8E-11
196	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.1E-12	1.8E+00	5.3E-07	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11
197	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	2.1E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
198	5.1E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
199	4.8E+00	9.5E-08	1.0E-03	4.8E-10	1.6E-01	1.3E-01	9.9E-12	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
200	4.6E+00	9.5E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.4E-12	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
201	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.7E-12	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
202	3.9E+00	9.5E-08	1.0E-03	3.9E-10	1.6E-01	1.3E-01	8.0E-12	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
203	3.6E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.3E-12	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
204	1.7E+00	9.5E-08	1.0E-03	1.7E-10	1.6E-01	1.3E-01	3.5E-12	1.0E+00	5.3E-07	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11
205	1.8E+00	9.5E-08	1.0E-03	1.8E-10	1.6E-01	1.3E-01	3.8E-12	1.1E+00	5.3E-07	1.0E-03	5.9E-10	1.6E-01	1.3E-01	1.2E-11
206	2.0E+00	9.5E-08	1.0E-03	2.0E-10	1.6E-01	1.3E-01	4.1E-12	1.1E+00	5.3E-07	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11
207	2.2E+00	9.5E-08	1.0E-03	2.2E-10	1.6E-01	1.3E-01	4.5E-12	1.2E+00	5.3E-07	1.0E-03	6.8E-10	1.6E-01	1.3E-01	1.4E-11
208	2.4E+00	9.5E-08	1.0E-03	2.4E-10	1.6E-01	1.3E-01	4.9E-12	1.3E+00	5.3E-07	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11
209	2.6E+00	9.5E-08	1.0E-03	2.6E-10	1.6E-01	1.3E-01	5.3E-12	1.4E+00	5.3E-07	1.0E-03	7.8E-10	1.6E-01	1.3E-01	1.6E-11
210	2.8E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.8E-12	1.5E+00	5.3E-07	1.0E-03	8.4E-10	1.6E-01	1.3E-01	1.7E-11
211	3.4E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.9E-12	1.8E+00	5.3E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
212	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
213	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.6E-12	2.6E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
214	4.2E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.6E-12	2.8E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11
215	4.2E+00	9.5E-08	1.0E-03	4.1E-10	1.6E-01	1.3E-01	8.6E-12	3.0E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11
216	4.1E+00	9.5E-08	1.0E-03	4.0E-10	1.6E-01	1.3E-01	8.3E-12	3.2E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11
217	3.9E+00	9.5E-08	1.0E-03	3.8E-10	1.6E-01	1.3E-01	7.9E-12	3.3E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11
218	3.6E+00	9.5E-08	1.0E-03	3.6E-10	1.6E-01	1.3E-01	7.4E-12	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
219	3.4E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.9E-12	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
220	3.1E+00	9.5E-08	1.0E-03	3.0E-10	1.6E-01	1.3E-01	6.3E-12	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
221	1.6E+00	9.5E-08	1.0E-03	1.6E-10	1.6E-01	1.3E-01	3.3E-12	9.7E-01	5.3E-07	1.0E-03	5.4E-10	1.6E-01	1.3E-01	1.1E-11
222	1.7E+00	9.5E-08	1.0E-03	1.7E-10	1.6E-01	1.3E-01	3.5E-12	1.0E+00	5.3E-07	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11
223	1.9E+00	9.5E-08	1.0E-03	1.8E-10	1.6E-01	1.3E-01	3.8E-12	1.1E+00	5.3E-07	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11
224	2.0E+00	9.5E-08	1.0E-03	2.0E-10	1.6E-01	1.3E-01	4.1E-12	1.2E+00	5.3E-07	1.0E-03	6.5E-10	1.6E-01	1.3E-01	1.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
225	2.2E+00	9.5E-08	1.0E-03	2.2E-10	1.6E-01	1.3E-01	4.5E-12	1.3E+00	5.3E-07	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11
226	2.6E+00	9.5E-08	1.0E-03	2.5E-10	1.6E-01	1.3E-01	5.3E-12	1.4E+00	5.3E-07	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11
227	2.8E+00	9.5E-08	1.0E-03	2.8E-10	1.6E-01	1.3E-01	5.7E-12	1.5E+00	5.3E-07	1.0E-03	8.5E-10	1.6E-01	1.3E-01	1.8E-11
228	3.0E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	6.0E-12	1.6E+00	5.3E-07	1.0E-03	9.1E-10	1.6E-01	1.3E-01	1.9E-11
229	3.2E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.5E-12	1.8E+00	5.3E-07	1.0E-03	9.8E-10	1.6E-01	1.3E-01	2.0E-11
230	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11
231	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	2.5E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11
232	3.5E+00	9.5E-08	1.0E-03	3.5E-10	1.6E-01	1.3E-01	7.2E-12	2.6E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
233	3.4E+00	9.5E-08	1.0E-03	3.4E-10	1.6E-01	1.3E-01	7.0E-12	2.8E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11
234	3.3E+00	9.5E-08	1.0E-03	3.3E-10	1.6E-01	1.3E-01	6.7E-12	2.9E+00	5.3E-07	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11
235	3.1E+00	9.5E-08	1.0E-03	3.1E-10	1.6E-01	1.3E-01	6.4E-12	3.0E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11
236	2.9E+00	9.5E-08	1.0E-03	2.9E-10	1.6E-01	1.3E-01	5.9E-12	3.1E+00	5.3E-07	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11
237	2.7E+00	9.5E-08	1.0E-03	2.7E-10	1.6E-01	1.3E-01	5.6E-12	3.2E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.6E-11
238	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	6.1E+00	5.3E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
239	1.9E+01	9.5E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11	6.4E+00	5.3E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
240	1.9E+01	9.5E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11	6.6E+00	5.3E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.6E-11
241	2.0E+01	9.5E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11	6.9E+00	5.3E-07	1.0E-03	3.8E-09	1.6E-01	1.3E-01	7.9E-11
242	2.1E+01	9.5E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11	7.2E+00	5.3E-07	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.2E-11
243	2.2E+01	9.5E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11	7.5E+00	5.3E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.5E-11
244	1.9E+01	9.5E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11	6.2E+00	5.3E-07	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11
245	2.0E+01	9.5E-08	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11	6.4E+00	5.3E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.3E-11
246	2.0E+01	9.5E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11	6.7E+00	5.3E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.7E-11
247	2.1E+01	9.5E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11	7.0E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.0E-11
248	2.2E+01	9.5E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11	7.3E+00	5.3E-07	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.3E-11
249	2.3E+01	9.5E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11	7.6E+00	5.3E-07	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.7E-11
250	2.4E+01	9.5E-08	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11	8.0E+00	5.3E-07	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.1E-11
251	2.5E+01	9.5E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11	8.3E+00	5.3E-07	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.5E-11
252	2.0E+01	9.5E-08	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11	6.5E+00	5.3E-07	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.4E-11
253	2.1E+01	9.5E-08	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11	6.8E+00	5.3E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.7E-11
254	2.3E+01	9.5E-08	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11	7.1E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11
255	2.4E+01	9.5E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11	7.4E+00	5.3E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.5E-11
256	2.5E+01	9.5E-08	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.1E-11	7.8E+00	5.3E-07	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.9E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
257	2.6E+01	9.5E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11	8.1E+00	5.3E-07	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.3E-11
258	2.7E+01	9.5E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11	8.5E+00	5.3E-07	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.7E-11
259	2.8E+01	9.5E-08	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.8E-11	8.9E+00	5.3E-07	1.0E-03	4.9E-09	1.6E-01	1.3E-01	1.0E-10
260	3.0E+01	9.5E-08	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.1E-11	9.4E+00	5.3E-07	1.0E-03	5.2E-09	1.6E-01	1.3E-01	1.1E-10
261	2.4E+01	9.5E-08	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11	7.1E+00	5.3E-07	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.2E-11
262	2.5E+01	9.5E-08	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11	7.5E+00	5.3E-07	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.6E-11
263	2.6E+01	9.5E-08	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11	7.9E+00	5.3E-07	1.0E-03	4.3E-09	1.6E-01	1.3E-01	9.0E-11
264	2.7E+01	9.5E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11	8.3E+00	5.3E-07	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.4E-11
265	2.9E+01	9.5E-08	1.0E-03	2.9E-09	1.6E-01	1.3E-01	5.9E-11	8.7E+00	5.3E-07	1.0E-03	4.8E-09	1.6E-01	1.3E-01	9.9E-11
266	3.1E+01	9.5E-08	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.3E-11	9.2E+00	5.3E-07	1.0E-03	5.1E-09	1.6E-01	1.3E-01	1.0E-10
267	3.2E+01	9.5E-08	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11	9.7E+00	5.3E-07	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10
268	3.4E+01	9.5E-08	1.0E-03	3.4E-09	1.6E-01	1.3E-01	6.9E-11	1.0E+01	5.3E-07	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.2E-10
269	3.5E+01	9.5E-08	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11	1.1E+01	5.3E-07	1.0E-03	5.9E-09	1.6E-01	1.3E-01	1.2E-10
270	3.7E+01	9.5E-08	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.6E-11	1.1E+01	5.3E-07	1.0E-03	6.3E-09	1.6E-01	1.3E-01	1.3E-10
271	2.8E+01	9.5E-08	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11	8.0E+00	5.3E-07	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.1E-11
272	2.9E+01	9.5E-08	1.0E-03	2.9E-09	1.6E-01	1.3E-01	6.0E-11	8.4E+00	5.3E-07	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.6E-11
273	3.1E+01	9.5E-08	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.3E-11	8.8E+00	5.3E-07	1.0E-03	4.9E-09	1.6E-01	1.3E-01	1.0E-10
274	3.3E+01	9.5E-08	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.7E-11	9.4E+00	5.3E-07	1.0E-03	5.2E-09	1.6E-01	1.3E-01	1.1E-10
275	3.5E+01	9.5E-08	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.1E-11	9.9E+00	5.3E-07	1.0E-03	5.5E-09	1.6E-01	1.3E-01	1.1E-10
276	3.7E+01	9.5E-08	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.5E-11	1.0E+01	5.3E-07	1.0E-03	5.8E-09	1.6E-01	1.3E-01	1.2E-10
277	3.9E+01	9.5E-08	1.0E-03	3.8E-09	1.6E-01	1.3E-01	7.9E-11	1.1E+01	5.3E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
278	4.1E+01	9.5E-08	1.0E-03	4.0E-09	1.6E-01	1.3E-01	8.4E-11	1.2E+01	5.3E-07	1.0E-03	6.5E-09	1.6E-01	1.3E-01	1.3E-10
279	4.3E+01	9.5E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.8E-11	1.2E+01	5.3E-07	1.0E-03	6.9E-09	1.6E-01	1.3E-01	1.4E-10
280	4.5E+01	9.5E-08	1.0E-03	4.5E-09	1.6E-01	1.3E-01	9.3E-11	1.3E+01	5.3E-07	1.0E-03	7.4E-09	1.6E-01	1.3E-01	1.5E-10
281	4.8E+01	9.5E-08	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.8E-11	1.4E+01	5.3E-07	1.0E-03	7.8E-09	1.6E-01	1.3E-01	1.6E-10
282	3.3E+01	9.5E-08	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.8E-11	9.0E+00	5.3E-07	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10
283	3.5E+01	9.5E-08	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.2E-11	9.5E+00	5.3E-07	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10
284	3.7E+01	9.5E-08	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.6E-11	1.0E+01	5.3E-07	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.2E-10
285	4.0E+01	9.5E-08	1.0E-03	3.9E-09	1.6E-01	1.3E-01	8.1E-11	1.1E+01	5.3E-07	1.0E-03	5.9E-09	1.6E-01	1.3E-01	1.2E-10
286	4.2E+01	9.5E-08	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.6E-11	1.1E+01	5.3E-07	1.0E-03	6.3E-09	1.6E-01	1.3E-01	1.3E-10
287	4.5E+01	9.5E-08	1.0E-03	4.4E-09	1.6E-01	1.3E-01	9.2E-11	1.2E+01	5.3E-07	1.0E-03	6.7E-09	1.6E-01	1.3E-01	1.4E-10
288	4.8E+01	9.5E-08	1.0E-03	4.7E-09	1.6E-01	1.3E-01	9.7E-11	1.3E+01	5.3E-07	1.0E-03	7.2E-09	1.6E-01	1.3E-01	1.5E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
289	5.1E+01	9.5E-08	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10	1.4E+01	5.3E-07	1.0E-03	7.7E-09	1.6E-01	1.3E-01	1.6E-10
290	5.4E+01	9.5E-08	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10	1.5E+01	5.3E-07	1.0E-03	8.3E-09	1.6E-01	1.3E-01	1.7E-10
291	5.7E+01	9.5E-08	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.2E-10	1.6E+01	5.3E-07	1.0E-03	8.9E-09	1.6E-01	1.3E-01	1.8E-10
292	5.9E+01	9.5E-08	1.0E-03	5.9E-09	1.6E-01	1.3E-01	1.2E-10	1.7E+01	5.3E-07	1.0E-03	9.5E-09	1.6E-01	1.3E-01	2.0E-10
293	4.3E+01	9.5E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.8E-11	1.1E+01	5.3E-07	1.0E-03	6.1E-09	1.6E-01	1.3E-01	1.3E-10
294	4.6E+01	9.5E-08	1.0E-03	4.6E-09	1.6E-01	1.3E-01	9.4E-11	1.2E+01	5.3E-07	1.0E-03	6.5E-09	1.6E-01	1.3E-01	1.3E-10
295	4.9E+01	9.5E-08	1.0E-03	4.9E-09	1.6E-01	1.3E-01	1.0E-10	1.3E+01	5.3E-07	1.0E-03	7.0E-09	1.6E-01	1.3E-01	1.4E-10
296	5.3E+01	9.5E-08	1.0E-03	5.3E-09	1.6E-01	1.3E-01	1.1E-10	1.4E+01	5.3E-07	1.0E-03	7.5E-09	1.6E-01	1.3E-01	1.6E-10
297	5.7E+01	9.5E-08	1.0E-03	5.6E-09	1.6E-01	1.3E-01	1.2E-10	1.5E+01	5.3E-07	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10
298	6.1E+01	9.5E-08	1.0E-03	6.0E-09	1.6E-01	1.3E-01	1.2E-10	1.6E+01	5.3E-07	1.0E-03	8.7E-09	1.6E-01	1.3E-01	1.8E-10
299	6.5E+01	9.5E-08	1.0E-03	6.4E-09	1.6E-01	1.3E-01	1.3E-10	1.7E+01	5.3E-07	1.0E-03	9.4E-09	1.6E-01	1.3E-01	2.0E-10
300	6.9E+01	9.5E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	1.8E+01	5.3E-07	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10
301	7.3E+01	9.5E-08	1.0E-03	7.2E-09	1.6E-01	1.3E-01	1.5E-10	2.0E+01	5.3E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10
302	7.6E+01	9.5E-08	1.0E-03	7.6E-09	1.6E-01	1.3E-01	1.6E-10	2.2E+01	5.3E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.5E-10
303	7.9E+01	9.5E-08	1.0E-03	7.8E-09	1.6E-01	1.3E-01	1.6E-10	2.3E+01	5.3E-07	1.0E-03	1.3E-08	1.6E-01	1.3E-01	2.7E-10
304	5.4E+01	9.5E-08	1.0E-03	5.4E-09	1.6E-01	1.3E-01	1.1E-10	1.3E+01	5.3E-07	1.0E-03	7.2E-09	1.6E-01	1.3E-01	1.5E-10
305	5.8E+01	9.5E-08	1.0E-03	5.8E-09	1.6E-01	1.3E-01	1.2E-10	1.4E+01	5.3E-07	1.0E-03	7.8E-09	1.6E-01	1.3E-01	1.6E-10
306	6.3E+01	9.5E-08	1.0E-03	6.3E-09	1.6E-01	1.3E-01	1.3E-10	1.5E+01	5.3E-07	1.0E-03	8.4E-09	1.6E-01	1.3E-01	1.7E-10
307	6.9E+01	9.5E-08	1.0E-03	6.8E-09	1.6E-01	1.3E-01	1.4E-10	1.7E+01	5.3E-07	1.0E-03	9.2E-09	1.6E-01	1.3E-01	1.9E-10
308	7.4E+01	9.5E-08	1.0E-03	7.4E-09	1.6E-01	1.3E-01	1.5E-10	1.8E+01	5.3E-07	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10
309	8.0E+01	9.5E-08	1.0E-03	8.0E-09	1.6E-01	1.3E-01	1.6E-10	2.0E+01	5.3E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10
310	8.7E+01	9.5E-08	1.0E-03	8.6E-09	1.6E-01	1.3E-01	1.8E-10	2.2E+01	5.3E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.5E-10
311	9.2E+01	9.5E-08	1.0E-03	9.2E-09	1.6E-01	1.3E-01	1.9E-10	2.4E+01	5.3E-07	1.0E-03	1.3E-08	1.6E-01	1.3E-01	2.8E-10
312	9.7E+01	9.5E-08	1.0E-03	9.6E-09	1.6E-01	1.3E-01	2.0E-10	2.6E+01	5.3E-07	1.0E-03	1.5E-08	1.6E-01	1.3E-01	3.0E-10
313	1.0E+02	9.5E-08	1.0E-03	9.9E-09	1.6E-01	1.3E-01	2.1E-10	2.9E+01	5.3E-07	1.0E-03	1.6E-08	1.6E-01	1.3E-01	3.3E-10
314	1.0E+02	9.5E-08	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10	3.1E+01	5.3E-07	1.0E-03	1.7E-08	1.6E-01	1.3E-01	3.6E-10
315	9.7E+01	9.5E-08	1.0E-03	9.6E-09	1.6E-01	1.3E-01	2.0E-10	3.3E+01	5.3E-07	1.0E-03	1.8E-08	1.6E-01	1.3E-01	3.8E-10
316	7.8E+01	9.5E-08	1.0E-03	7.7E-09	1.6E-01	1.3E-01	1.6E-10	1.7E+01	5.3E-07	1.0E-03	9.6E-09	1.6E-01	1.3E-01	2.0E-10
317	8.6E+01	9.5E-08	1.0E-03	8.5E-09	1.6E-01	1.3E-01	1.8E-10	1.9E+01	5.3E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.2E-10
318	9.5E+01	9.5E-08	1.0E-03	9.4E-09	1.6E-01	1.3E-01	1.9E-10	2.1E+01	5.3E-07	1.0E-03	1.2E-08	1.6E-01	1.3E-01	2.4E-10
319	1.0E+02	9.5E-08	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10	2.4E+01	5.3E-07	1.0E-03	1.3E-08	1.6E-01	1.3E-01	2.7E-10
320	1.1E+02	9.5E-08	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10	2.7E+01	5.3E-07	1.0E-03	1.5E-08	1.6E-01	1.3E-01	3.1E-10

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
321	3.7E+01	9.5E-08	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.6E-11	3.0E+01	5.3E-07	1.0E-03	1.7E-08	1.6E-01	1.3E-01	3.4E-10
322	3.6E+01	9.5E-08	1.0E-03	3.6E-09	1.6E-01	1.3E-01	7.5E-11	1.6E+01	5.3E-07	1.0E-03	8.7E-09	1.6E-01	1.3E-01	1.8E-10
323	3.5E+01	9.5E-08	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11	1.7E+01	5.3E-07	1.0E-03	9.5E-09	1.6E-01	1.3E-01	2.0E-10
324	3.4E+01	9.5E-08	1.0E-03	3.4E-09	1.6E-01	1.3E-01	7.0E-11	1.9E+01	5.3E-07	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10
325	1.1E+02	9.5E-08	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.3E-10	2.3E+01	5.3E-07	1.0E-03	1.3E-08	1.6E-01	1.3E-01	2.6E-10
326	4.4E+01	9.5E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	9.0E-11	2.6E+01	5.3E-07	1.0E-03	1.4E-08	1.6E-01	1.3E-01	3.0E-10
327	4.4E+01	9.5E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	9.0E-11	3.0E+01	5.3E-07	1.0E-03	1.7E-08	1.6E-01	1.3E-01	3.4E-10
328	4.3E+01	9.5E-08	1.0E-03	4.3E-09	1.6E-01	1.3E-01	8.9E-11	1.5E+01	5.3E-07	1.0E-03	8.5E-09	1.6E-01	1.3E-01	1.8E-10
329	4.2E+01	9.5E-08	1.0E-03	4.2E-09	1.6E-01	1.3E-01	8.7E-11	1.7E+01	5.3E-07	1.0E-03	9.2E-09	1.6E-01	1.3E-01	1.9E-10
330	4.1E+01	9.5E-08	1.0E-03	4.1E-09	1.6E-01	1.3E-01	8.4E-11	1.8E+01	5.3E-07	1.0E-03	1.0E-08	1.6E-01	1.3E-01	2.1E-10
331	5.2E+01	9.5E-08	1.0E-03	5.2E-09	1.6E-01	1.3E-01	1.1E-10	1.5E+01	5.3E-07	1.0E-03	8.1E-09	1.6E-01	1.3E-01	1.7E-10
332	5.2E+01	9.5E-08	1.0E-03	5.1E-09	1.6E-01	1.3E-01	1.1E-10	1.6E+01	5.3E-07	1.0E-03	8.8E-09	1.6E-01	1.3E-01	1.8E-10
333	5.0E+01	9.5E-08	1.0E-03	5.0E-09	1.6E-01	1.3E-01	1.0E-10	1.8E+01	5.3E-07	1.0E-03	9.7E-09	1.6E-01	1.3E-01	2.0E-10
334	4.8E+01	9.5E-08	1.0E-03	4.8E-09	1.6E-01	1.3E-01	9.9E-11	1.9E+01	5.3E-07	1.0E-03	1.1E-08	1.6E-01	1.3E-01	2.2E-10
335	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	4.4E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
336	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.3E-11
337	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.8E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
338	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
339	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.1E-11
340	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
341	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	4.8E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
342	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
343	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
344	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
345	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.8E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
346	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	5.0E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.7E-11
347	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
348	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
349	1.6E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
350	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
351	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
352	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
353	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
354	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
355	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
356	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
357	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
358	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
359	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
360	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
361	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
362	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.8E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
363	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
364	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11	4.4E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
365	1.7E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11	4.6E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
366	1.8E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11	4.8E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.5E-11
367	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
368	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
369	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
370	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.8E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
371	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
372	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
373	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
374	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.4E-11
375	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
376	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
377	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
378	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.7E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
379	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
380	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
381	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.4E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
382	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.6E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
383	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.1E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
384	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
385	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
386	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.6E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.2E-11
387	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
388	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
389	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
390	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.5E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
391	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
392	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.2E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
393	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
394	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.4E+00	5.3E-07	1.0E-03	2.5E-09	1.6E-01	1.3E-01	5.1E-11
395	1.5E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	3.9E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
396	1.6E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.1E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
397	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
398	1.8E+01	9.5E-08	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.0E-11
399	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.9E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
400	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
401	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.4E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
402	1.8E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11	4.3E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	4.9E-11
403	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
404	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	3.9E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
405	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
406	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.6E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
407	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
408	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	3.9E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
409	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
410	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.5E-11	4.2E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.8E-11
411	1.4E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
412	1.5E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
413	1.6E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
414	1.7E+01	9.5E-08	1.0E-03	1.7E-09	1.6E-01	1.3E-01	3.4E-11	4.1E+00	5.3E-07	1.0E-03	2.3E-09	1.6E-01	1.3E-01	4.7E-11
415	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
416	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
417	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	3.9E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
418	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.1E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
419	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
420	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.2E-11
421	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
422	1.6E+01	9.5E-08	1.0E-03	1.6E-09	1.6E-01	1.3E-01	3.3E-11	4.0E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.6E-11
423	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.5E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.0E-11
424	1.4E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
425	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
426	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11	3.9E+00	5.3E-07	1.0E-03	2.2E-09	1.6E-01	1.3E-01	4.5E-11
427	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
428	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
429	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.7E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
430	1.5E+01	9.5E-08	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.1E-11	3.9E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.4E-11
431	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
432	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
433	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
434	1.5E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	3.0E-11	3.8E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
435	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
436	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
437	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
438	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11	3.7E+00	5.3E-07	1.0E-03	2.1E-09	1.6E-01	1.3E-01	4.3E-11
439	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	3.3E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11
440	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
441	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
442	1.4E+01	9.5E-08	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.8E-11	3.7E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.2E-11
443	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	3.3E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.8E-11
444	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11	3.4E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
445	1.3E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	4.0E-11
446	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
447	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11	3.2E+00	5.3E-07	1.0E-03	1.8E-09	1.6E-01	1.3E-01	3.7E-11
448	1.1E+01	9.5E-08	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11	3.3E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.8E-11

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	1.2E+01	9.5E-08	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11	3.5E+00	5.3E-07	1.0E-03	1.9E-09	1.6E-01	1.3E-01	3.9E-11
450	1.3E+01	9.5E-08	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.6E-11	3.6E+00	5.3E-07	1.0E-03	2.0E-09	1.6E-01	1.3E-01	4.1E-11
451	6.3E+00	9.5E-08	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11	4.4E+00	5.3E-07	1.0E-03	2.4E-09	1.6E-01	1.3E-01	5.1E-11
452	6.2E+00	9.5E-08	1.0E-03	6.1E-10	1.6E-01	1.3E-01	1.3E-11	4.6E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.3E-11
453	6.0E+00	9.5E-08	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11	4.8E+00	5.3E-07	1.0E-03	2.6E-09	1.6E-01	1.3E-01	5.5E-11
454	5.8E+00	9.5E-08	1.0E-03	5.7E-10	1.6E-01	1.3E-01	1.2E-11	4.9E+00	5.3E-07	1.0E-03	2.7E-09	1.6E-01	1.3E-01	5.6E-11
455	7.8E+00	9.5E-08	1.0E-03	7.7E-10	1.6E-01	1.3E-01	1.6E-11	5.1E+00	5.3E-07	1.0E-03	2.8E-09	1.6E-01	1.3E-01	5.9E-11
456	7.6E+00	9.5E-08	1.0E-03	7.5E-10	1.6E-01	1.3E-01	1.6E-11	5.4E+00	5.3E-07	1.0E-03	3.0E-09	1.6E-01	1.3E-01	6.2E-11
457	7.3E+00	9.5E-08	1.0E-03	7.3E-10	1.6E-01	1.3E-01	1.5E-11	5.6E+00	5.3E-07	1.0E-03	3.1E-09	1.6E-01	1.3E-01	6.4E-11
458	6.9E+00	9.5E-08	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11	5.8E+00	5.3E-07	1.0E-03	3.2E-09	1.6E-01	1.3E-01	6.6E-11
459	9.8E+00	9.5E-08	1.0E-03	9.7E-10	1.6E-01	1.3E-01	2.0E-11	6.0E+00	5.3E-07	1.0E-03	3.3E-09	1.6E-01	1.3E-01	6.9E-11
460	9.6E+00	9.5E-08	1.0E-03	9.5E-10	1.6E-01	1.3E-01	2.0E-11	6.4E+00	5.3E-07	1.0E-03	3.5E-09	1.6E-01	1.3E-01	7.3E-11
461	9.1E+00	9.5E-08	1.0E-03	9.0E-10	1.6E-01	1.3E-01	1.9E-11	6.7E+00	5.3E-07	1.0E-03	3.7E-09	1.6E-01	1.3E-01	7.7E-11
462	4.7E+00	9.5E-08	1.0E-03	4.6E-10	1.6E-01	1.3E-01	9.6E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
463	5.6E+00	9.5E-08	1.0E-03	5.5E-10	1.6E-01	1.3E-01	1.1E-11	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.6E-11
464	4.5E+00	9.5E-08	1.0E-03	4.5E-10	1.6E-01	1.3E-01	9.2E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
465	5.3E+00	9.5E-08	1.0E-03	5.3E-10	1.6E-01	1.3E-01	1.1E-11	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
466	6.4E+00	9.5E-08	1.0E-03	6.4E-10	1.6E-01	1.3E-01	1.3E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.8E-11
467	7.9E+00	9.5E-08	1.0E-03	7.9E-10	1.6E-01	1.3E-01	1.6E-11	2.8E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.2E-11
468	4.3E+00	9.5E-08	1.0E-03	4.2E-10	1.6E-01	1.3E-01	8.8E-12	1.9E+00	5.3E-07	1.0E-03	1.0E-09	1.6E-01	1.3E-01	2.1E-11
469	5.0E+00	9.5E-08	1.0E-03	5.0E-10	1.6E-01	1.3E-01	1.0E-11	2.1E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.4E-11
470	6.1E+00	9.5E-08	1.0E-03	6.0E-10	1.6E-01	1.3E-01	1.2E-11	2.3E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11
471	7.5E+00	9.5E-08	1.0E-03	7.4E-10	1.6E-01	1.3E-01	1.5E-11	2.6E+00	5.3E-07	1.0E-03	1.5E-09	1.6E-01	1.3E-01	3.0E-11
472	4.8E+00	9.5E-08	1.0E-03	4.7E-10	1.6E-01	1.3E-01	9.7E-12	2.0E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.3E-11
473	5.7E+00	9.5E-08	1.0E-03	5.6E-10	1.6E-01	1.3E-01	1.2E-11	2.2E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.5E-11
474	6.9E+00	9.5E-08	1.0E-03	6.9E-10	1.6E-01	1.3E-01	1.4E-11	2.5E+00	5.3E-07	1.0E-03	1.4E-09	1.6E-01	1.3E-01	2.9E-11
475	4.4E+00	9.5E-08	1.0E-03	4.4E-10	1.6E-01	1.3E-01	9.1E-12	1.9E+00	5.3E-07	1.0E-03	1.1E-09	1.6E-01	1.3E-01	2.2E-11
476	5.3E+00	9.5E-08	1.0E-03	5.2E-10	1.6E-01	1.3E-01	1.1E-11	2.1E+00	5.3E-07	1.0E-03	1.2E-09	1.6E-01	1.3E-01	2.4E-11
477	6.4E+00	9.5E-08	1.0E-03	6.3E-10	1.6E-01	1.3E-01	1.3E-11	2.4E+00	5.3E-07	1.0E-03	1.3E-09	1.6E-01	1.3E-01	2.7E-11

5. **Risk by Construction Phase**

f. Risk From BC - Mitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	2.2E-04	1.0E-03	6.7E-08	1.6E-01	7.0E-01	7.4E-09	3.4E-04	1.7E-03
2	3.0E-01	2.2E-04	1.0E-03	7.0E-08	1.6E-01	7.0E-01	7.7E-09	3.7E-04	1.8E-03
3	3.1E-01	2.2E-04	1.0E-03	7.3E-08	1.6E-01	7.0E-01	8.0E-09	3.9E-04	2.0E-03
4	3.2E-01	2.2E-04	1.0E-03	7.5E-08	1.6E-01	7.0E-01	8.3E-09	4.2E-04	2.1E-03
5	3.3E-01	2.2E-04	1.0E-03	7.7E-08	1.6E-01	7.0E-01	8.5E-09	4.4E-04	2.2E-03
6	3.4E-01	2.2E-04	1.0E-03	7.9E-08	1.6E-01	7.0E-01	8.7E-09	4.7E-04	2.4E-03
7	3.5E-01	2.2E-04	1.0E-03	8.1E-08	1.6E-01	7.0E-01	9.0E-09	5.1E-04	2.5E-03
8	3.6E-01	2.2E-04	1.0E-03	8.4E-08	1.6E-01	7.0E-01	9.2E-09	5.4E-04	2.7E-03
9	3.7E-01	2.2E-04	1.0E-03	8.7E-08	1.6E-01	7.0E-01	9.6E-09	5.8E-04	2.9E-03
10	3.8E-01	2.2E-04	1.0E-03	9.0E-08	1.6E-01	7.0E-01	9.9E-09	6.1E-04	3.0E-03
11	4.0E-01	2.2E-04	1.0E-03	9.4E-08	1.6E-01	7.0E-01	1.0E-08	6.5E-04	3.2E-03
12	4.1E-01	2.2E-04	1.0E-03	9.7E-08	1.6E-01	7.0E-01	1.1E-08	6.8E-04	3.4E-03
13	4.3E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	7.1E-04	3.6E-03
14	4.3E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	7.3E-04	3.7E-03
15	4.3E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	7.4E-04	3.7E-03
16	4.2E-01	2.2E-04	1.0E-03	9.9E-08	1.6E-01	7.0E-01	1.1E-08	7.3E-04	3.6E-03
17	3.2E-01	2.2E-04	1.0E-03	7.5E-08	1.6E-01	7.0E-01	8.3E-09	3.6E-04	1.8E-03
18	3.4E-01	2.2E-04	1.0E-03	7.9E-08	1.6E-01	7.0E-01	8.8E-09	3.9E-04	1.9E-03
19	3.6E-01	2.2E-04	1.0E-03	8.3E-08	1.6E-01	7.0E-01	9.2E-09	4.2E-04	2.1E-03
20	3.7E-01	2.2E-04	1.0E-03	8.7E-08	1.6E-01	7.0E-01	9.7E-09	4.5E-04	2.2E-03
21	3.9E-01	2.2E-04	1.0E-03	9.1E-08	1.6E-01	7.0E-01	1.0E-08	4.8E-04	2.4E-03
22	4.0E-01	2.2E-04	1.0E-03	9.4E-08	1.6E-01	7.0E-01	1.0E-08	5.2E-04	2.6E-03
23	5.2E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.4E-08	8.3E-04	4.1E-03
24	5.3E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	8.6E-04	4.3E-03
25	5.3E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.4E-08	8.8E-04	4.4E-03
26	5.2E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.3E-08	8.7E-04	4.3E-03
27	5.0E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.3E-08	8.5E-04	4.2E-03
28	3.5E-01	2.2E-04	1.0E-03	8.3E-08	1.6E-01	7.0E-01	9.1E-09	3.7E-04	1.8E-03
29	4.1E-01	2.2E-04	1.0E-03	9.6E-08	1.6E-01	7.0E-01	1.1E-08	4.4E-04	2.2E-03
30	4.3E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	4.8E-04	2.4E-03
31	4.6E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	5.2E-04	2.6E-03
32	4.8E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.3E-08	5.7E-04	2.9E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.3E-08	6.2E-04	3.1E-03
34	5.2E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.4E-08	6.7E-04	3.3E-03
35	5.5E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	7.3E-04	3.6E-03
36	5.7E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.5E-08	7.9E-04	3.9E-03
37	6.3E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.6E-08	9.2E-04	4.6E-03
38	6.6E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	9.8E-04	4.9E-03
39	6.7E-01	2.2E-04	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.7E-08	1.0E-03	5.2E-03
40	6.5E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	1.1E-03	5.3E-03
41	6.2E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.6E-08	1.0E-03	5.2E-03
42	5.9E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.5E-08	1.0E-03	5.0E-03
43	3.9E-01	2.2E-04	1.0E-03	9.1E-08	1.6E-01	7.0E-01	1.0E-08	3.8E-04	1.9E-03
44	4.3E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	4.2E-04	2.1E-03
45	4.7E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	4.6E-04	2.3E-03
46	5.5E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	5.6E-04	2.8E-03
47	5.9E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.5E-08	6.2E-04	3.1E-03
48	6.2E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.6E-08	6.8E-04	3.4E-03
49	6.5E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	7.5E-04	3.7E-03
50	6.9E-01	2.2E-04	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.8E-08	8.3E-04	4.1E-03
51	7.3E-01	2.2E-04	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	9.1E-04	4.5E-03
52	8.2E-01	2.2E-04	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.1E-08	1.1E-03	5.5E-03
53	8.6E-01	2.2E-04	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	1.2E-03	5.9E-03
54	8.8E-01	2.2E-04	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.3E-03	6.3E-03
55	8.9E-01	2.2E-04	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.3E-03	6.6E-03
56	8.9E-01	2.2E-04	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.3E-03	6.7E-03
57	8.1E-01	2.2E-04	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.1E-08	1.3E-03	6.5E-03
58	7.6E-01	2.2E-04	1.0E-03	1.8E-07	1.6E-01	7.0E-01	2.0E-08	1.3E-03	6.3E-03
59	7.0E-01	2.2E-04	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.8E-08	1.2E-03	6.1E-03
60	4.2E-01	2.2E-04	1.0E-03	9.8E-08	1.6E-01	7.0E-01	1.1E-08	3.9E-04	1.9E-03
61	4.7E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	4.3E-04	2.2E-03
62	5.3E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.4E-08	4.8E-04	2.4E-03
63	5.9E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.5E-08	5.3E-04	2.7E-03
64	6.6E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	6.0E-04	3.0E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	2.2E-04	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	8.3E-04	4.2E-03
66	9.1E-01	2.2E-04	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.4E-08	9.4E-04	4.7E-03
67	9.7E-01	2.2E-04	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	1.1E-03	5.3E-03
68	1.1E+00	2.2E-04	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.3E-03	6.7E-03
69	1.2E+00	2.2E-04	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.0E-08	1.5E-03	7.4E-03
70	1.2E+00	2.2E-04	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.6E-03	8.0E-03
71	1.2E+00	2.2E-04	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.7E-03	8.4E-03
72	1.2E+00	2.2E-04	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.7E-03	8.7E-03
73	4.4E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	3.9E-04	2.0E-03
74	5.0E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.3E-08	4.4E-04	2.2E-03
75	5.8E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.5E-08	4.9E-04	2.4E-03
76	6.7E-01	2.2E-04	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.7E-08	5.5E-04	2.8E-03
77	7.7E-01	2.2E-04	1.0E-03	1.8E-07	1.6E-01	7.0E-01	2.0E-08	6.3E-04	3.1E-03
78	8.8E-01	2.2E-04	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	7.1E-04	3.6E-03
79	1.0E+00	2.2E-04	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.6E-08	8.1E-04	4.1E-03
80	1.4E+00	2.2E-04	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	1.2E-03	6.1E-03
81	1.6E+00	2.2E-04	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	1.6E-03	8.2E-03
82	1.7E+00	2.2E-04	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.5E-08	1.9E-03	9.4E-03
83	1.7E+00	2.2E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	2.1E-03	1.1E-02
84	1.7E+00	2.2E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	2.3E-03	1.1E-02
85	1.7E+00	2.2E-04	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	2.4E-03	1.2E-02
86	4.5E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.2E-08	3.9E-04	1.9E-03
87	5.2E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.4E-08	4.4E-04	2.2E-03
88	6.2E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.6E-08	5.0E-04	2.5E-03
89	7.4E-01	2.2E-04	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	5.7E-04	2.8E-03
90	8.8E-01	2.2E-04	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	6.5E-04	3.3E-03
91	1.1E+00	2.2E-04	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.7E-08	7.5E-04	3.8E-03
92	1.3E+00	2.2E-04	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	8.7E-04	4.4E-03
93	1.5E+00	2.2E-04	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	1.0E-03	5.1E-03
94	1.8E+00	2.2E-04	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	1.2E-03	6.0E-03
95	2.6E+00	2.2E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.8E-08	3.5E-03	1.7E-02
96	2.4E+00	2.2E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	3.7E-03	1.8E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	3.9E-04	1.9E-03
98	5.4E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	4.4E-04	2.2E-03
99	6.4E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	5.0E-04	2.5E-03
100	1.2E+00	2.2E-04	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	7.8E-04	3.9E-03
101	1.5E+00	2.2E-04	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	9.3E-04	4.6E-03
102	2.0E+00	2.2E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	1.1E-03	5.5E-03
103	2.6E+00	2.2E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08	1.4E-03	6.8E-03
104	4.5E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.2E-08	3.8E-04	1.9E-03
105	5.3E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.4E-08	4.3E-04	2.2E-03
106	6.4E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	4.9E-04	2.5E-03
107	2.5E+00	2.2E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08	1.2E-03	6.0E-03
108	3.8E+00	2.2E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08	1.5E-03	7.6E-03
109	4.3E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	3.7E-04	1.8E-03
110	5.1E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.3E-08	4.2E-04	2.1E-03
111	6.2E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.6E-08	4.8E-04	2.4E-03
112	2.8E+00	2.2E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08	1.3E-03	6.3E-03
113	4.7E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.7E-03	8.4E-03
114	4.0E-01	2.2E-04	1.0E-03	9.4E-08	1.6E-01	7.0E-01	1.0E-08	3.5E-04	1.8E-03
115	4.8E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	4.0E-04	2.0E-03
116	5.8E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.5E-08	4.6E-04	2.3E-03
117	7.2E-01	2.2E-04	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	5.4E-04	2.7E-03
118	2.7E+00	2.2E-04	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08	1.3E-03	6.5E-03
119	4.7E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.8E-03	9.2E-03
120	3.7E-01	2.2E-04	1.0E-03	8.8E-08	1.6E-01	7.0E-01	9.7E-09	3.4E-04	1.7E-03
121	4.4E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	3.8E-04	1.9E-03
122	5.3E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	4.4E-04	2.2E-03
123	6.6E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	5.1E-04	2.6E-03
124	2.3E+00	2.2E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.0E-08	1.2E-03	6.2E-03
125	4.0E+00	2.2E-04	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.8E-03	9.1E-03
126	3.5E-01	2.2E-04	1.0E-03	8.2E-08	1.6E-01	7.0E-01	9.1E-09	3.2E-04	1.6E-03
127	4.1E-01	2.2E-04	1.0E-03	9.6E-08	1.6E-01	7.0E-01	1.1E-08	3.6E-04	1.8E-03
128	4.9E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.3E-08	4.2E-04	2.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.5E-08	4.8E-04	2.4E-03
130	7.4E-01	2.2E-04	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	5.6E-04	2.8E-03
131	9.7E-01	2.2E-04	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	6.8E-04	3.4E-03
132	1.3E+00	2.2E-04	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	8.4E-04	4.2E-03
133	1.9E+00	2.2E-04	1.0E-03	4.5E-07	1.6E-01	7.0E-01	4.9E-08	1.1E-03	5.5E-03
134	3.0E+00	2.2E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08	1.6E-03	7.9E-03
135	5.4E+00	2.2E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	2.7E-03	1.3E-02
136	3.2E-01	2.2E-04	1.0E-03	7.6E-08	1.6E-01	7.0E-01	8.4E-09	3.1E-04	1.5E-03
137	3.8E-01	2.2E-04	1.0E-03	8.9E-08	1.6E-01	7.0E-01	9.8E-09	3.5E-04	1.7E-03
138	4.5E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.2E-08	3.9E-04	2.0E-03
139	5.4E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	4.5E-04	2.3E-03
140	6.6E-01	2.2E-04	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.7E-08	5.3E-04	2.6E-03
141	8.4E-01	2.2E-04	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	6.3E-04	3.1E-03
142	1.1E+00	2.2E-04	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	7.7E-04	3.8E-03
143	1.5E+00	2.2E-04	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	9.7E-04	4.9E-03
144	2.1E+00	2.2E-04	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	1.3E-03	6.5E-03
145	3.1E+00	2.2E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08	1.9E-03	9.3E-03
146	3.0E-01	2.2E-04	1.0E-03	7.1E-08	1.6E-01	7.0E-01	7.8E-09	3.0E-04	1.5E-03
147	3.5E-01	2.2E-04	1.0E-03	8.1E-08	1.6E-01	7.0E-01	9.0E-09	3.3E-04	1.7E-03
148	4.1E-01	2.2E-04	1.0E-03	9.5E-08	1.6E-01	7.0E-01	1.1E-08	3.7E-04	1.9E-03
149	4.8E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.3E-08	4.3E-04	2.1E-03
150	5.9E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.5E-08	4.9E-04	2.5E-03
151	7.2E-01	2.2E-04	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	5.8E-04	2.9E-03
152	9.0E-01	2.2E-04	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	6.9E-04	3.4E-03
153	1.2E+00	2.2E-04	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	8.4E-04	4.2E-03
154	1.5E+00	2.2E-04	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	1.0E-03	5.2E-03
155	1.9E+00	2.2E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	1.4E-03	6.8E-03
156	2.8E-01	2.2E-04	1.0E-03	6.6E-08	1.6E-01	7.0E-01	7.3E-09	2.8E-04	1.4E-03
157	3.2E-01	2.2E-04	1.0E-03	7.5E-08	1.6E-01	7.0E-01	8.3E-09	3.2E-04	1.6E-03
158	3.7E-01	2.2E-04	1.0E-03	8.7E-08	1.6E-01	7.0E-01	9.6E-09	3.5E-04	1.8E-03
159	4.3E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	4.0E-04	2.0E-03
160	5.2E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.3E-08	4.5E-04	2.3E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.6E-08	5.3E-04	2.6E-03
162	7.4E-01	2.2E-04	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	6.1E-04	3.1E-03
163	9.0E-01	2.2E-04	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	7.3E-04	3.6E-03
164	1.1E+00	2.2E-04	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	8.6E-04	4.3E-03
165	1.3E+00	2.2E-04	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	1.1E-03	5.3E-03
166	2.6E-01	2.2E-04	1.0E-03	6.1E-08	1.6E-01	7.0E-01	6.7E-09	2.7E-04	1.4E-03
167	2.9E-01	2.2E-04	1.0E-03	6.9E-08	1.6E-01	7.0E-01	7.6E-09	3.0E-04	1.5E-03
168	3.4E-01	2.2E-04	1.0E-03	7.9E-08	1.6E-01	7.0E-01	8.7E-09	3.3E-04	1.7E-03
169	3.9E-01	2.2E-04	1.0E-03	9.1E-08	1.6E-01	7.0E-01	1.0E-08	3.7E-04	1.9E-03
170	4.5E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	4.2E-04	2.1E-03
171	5.3E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.4E-08	4.8E-04	2.4E-03
172	6.1E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.6E-08	5.5E-04	2.7E-03
173	7.1E-01	2.2E-04	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.8E-08	6.3E-04	3.1E-03
174	8.2E-01	2.2E-04	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.1E-08	7.3E-04	3.6E-03
175	9.5E-01	2.2E-04	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.5E-08	8.5E-04	4.3E-03
176	2.4E-01	2.2E-04	1.0E-03	5.6E-08	1.6E-01	7.0E-01	6.2E-09	2.6E-04	1.3E-03
177	2.7E-01	2.2E-04	1.0E-03	6.3E-08	1.6E-01	7.0E-01	7.0E-09	2.8E-04	1.4E-03
178	3.0E-01	2.2E-04	1.0E-03	7.1E-08	1.6E-01	7.0E-01	7.9E-09	3.1E-04	1.6E-03
179	3.5E-01	2.2E-04	1.0E-03	8.1E-08	1.6E-01	7.0E-01	9.0E-09	3.5E-04	1.7E-03
180	3.9E-01	2.2E-04	1.0E-03	9.3E-08	1.6E-01	7.0E-01	1.0E-08	3.9E-04	1.9E-03
181	4.5E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	4.3E-04	2.2E-03
182	5.1E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.3E-08	4.9E-04	2.4E-03
183	5.7E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.5E-08	5.5E-04	2.8E-03
184	6.4E-01	2.2E-04	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	6.2E-04	3.1E-03
185	7.2E-01	2.2E-04	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	7.1E-04	3.5E-03
186	5.9E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.5E-08	8.2E-04	4.1E-03
187	5.2E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.4E-08	8.0E-04	4.0E-03
188	4.7E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	7.8E-04	3.9E-03
189	2.2E-01	2.2E-04	1.0E-03	5.2E-08	1.6E-01	7.0E-01	5.8E-09	2.4E-04	1.2E-03
190	2.5E-01	2.2E-04	1.0E-03	5.8E-08	1.6E-01	7.0E-01	6.4E-09	2.7E-04	1.3E-03
191	2.7E-01	2.2E-04	1.0E-03	6.5E-08	1.6E-01	7.0E-01	7.1E-09	2.9E-04	1.5E-03
192	3.1E-01	2.2E-04	1.0E-03	7.2E-08	1.6E-01	7.0E-01	8.0E-09	3.2E-04	1.6E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	2.2E-04	1.0E-03	8.1E-08	1.6E-01	7.0E-01	9.0E-09	3.5E-04	1.8E-03
194	3.8E-01	2.2E-04	1.0E-03	9.0E-08	1.6E-01	7.0E-01	1.0E-08	3.9E-04	2.0E-03
195	4.3E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	4.4E-04	2.2E-03
196	4.7E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	4.9E-04	2.4E-03
197	5.6E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.5E-08	6.0E-04	3.0E-03
198	6.1E-01	2.2E-04	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.6E-08	7.4E-04	3.7E-03
199	5.7E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.5E-08	7.3E-04	3.6E-03
200	5.3E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	7.1E-04	3.6E-03
201	4.9E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.3E-08	7.0E-04	3.5E-03
202	4.5E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	6.8E-04	3.4E-03
203	4.1E-01	2.2E-04	1.0E-03	9.6E-08	1.6E-01	7.0E-01	1.1E-08	6.7E-04	3.3E-03
204	2.0E-01	2.2E-04	1.0E-03	4.8E-08	1.6E-01	7.0E-01	5.3E-09	2.3E-04	1.2E-03
205	2.3E-01	2.2E-04	1.0E-03	5.3E-08	1.6E-01	7.0E-01	5.9E-09	2.5E-04	1.3E-03
206	2.5E-01	2.2E-04	1.0E-03	5.8E-08	1.6E-01	7.0E-01	6.5E-09	2.7E-04	1.4E-03
207	2.7E-01	2.2E-04	1.0E-03	6.4E-08	1.6E-01	7.0E-01	7.1E-09	3.0E-04	1.5E-03
208	3.0E-01	2.2E-04	1.0E-03	7.1E-08	1.6E-01	7.0E-01	7.9E-09	3.3E-04	1.6E-03
209	3.3E-01	2.2E-04	1.0E-03	7.8E-08	1.6E-01	7.0E-01	8.6E-09	3.6E-04	1.8E-03
210	3.6E-01	2.2E-04	1.0E-03	8.5E-08	1.6E-01	7.0E-01	9.4E-09	3.9E-04	2.0E-03
211	4.2E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	4.7E-04	2.3E-03
212	4.5E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	5.1E-04	2.5E-03
213	5.0E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.3E-08	6.1E-04	3.0E-03
214	5.0E-01	2.2E-04	1.0E-03	1.2E-07	1.6E-01	7.0E-01	1.3E-08	6.1E-04	3.1E-03
215	4.9E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.3E-08	6.2E-04	3.1E-03
216	4.7E-01	2.2E-04	1.0E-03	1.1E-07	1.6E-01	7.0E-01	1.2E-08	6.2E-04	3.1E-03
217	4.4E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.2E-08	6.1E-04	3.1E-03
218	4.2E-01	2.2E-04	1.0E-03	9.8E-08	1.6E-01	7.0E-01	1.1E-08	6.0E-04	3.0E-03
219	3.9E-01	2.2E-04	1.0E-03	9.1E-08	1.6E-01	7.0E-01	1.0E-08	5.9E-04	2.9E-03
220	3.5E-01	2.2E-04	1.0E-03	8.3E-08	1.6E-01	7.0E-01	9.2E-09	5.6E-04	2.8E-03
221	1.9E-01	2.2E-04	1.0E-03	4.4E-08	1.6E-01	7.0E-01	4.9E-09	2.2E-04	1.1E-03
222	2.1E-01	2.2E-04	1.0E-03	4.8E-08	1.6E-01	7.0E-01	5.3E-09	2.4E-04	1.2E-03
223	2.2E-01	2.2E-04	1.0E-03	5.3E-08	1.6E-01	7.0E-01	5.8E-09	2.6E-04	1.3E-03
224	2.5E-01	2.2E-04	1.0E-03	5.8E-08	1.6E-01	7.0E-01	6.4E-09	2.8E-04	1.4E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	2.2E-04	1.0E-03	6.3E-08	1.6E-01	7.0E-01	6.9E-09	3.0E-04	1.5E-03
226	3.1E-01	2.2E-04	1.0E-03	7.3E-08	1.6E-01	7.0E-01	8.1E-09	3.6E-04	1.8E-03
227	3.3E-01	2.2E-04	1.0E-03	7.9E-08	1.6E-01	7.0E-01	8.7E-09	3.9E-04	1.9E-03
228	3.5E-01	2.2E-04	1.0E-03	8.3E-08	1.6E-01	7.0E-01	9.1E-09	4.1E-04	2.1E-03
229	3.7E-01	2.2E-04	1.0E-03	8.7E-08	1.6E-01	7.0E-01	9.6E-09	4.4E-04	2.2E-03
230	4.0E-01	2.2E-04	1.0E-03	9.5E-08	1.6E-01	7.0E-01	1.0E-08	5.1E-04	2.6E-03
231	4.0E-01	2.2E-04	1.0E-03	9.4E-08	1.6E-01	7.0E-01	1.0E-08	5.2E-04	2.6E-03
232	4.0E-01	2.2E-04	1.0E-03	9.3E-08	1.6E-01	7.0E-01	1.0E-08	5.3E-04	2.6E-03
233	3.9E-01	2.2E-04	1.0E-03	9.1E-08	1.6E-01	7.0E-01	1.0E-08	5.3E-04	2.6E-03
234	3.7E-01	2.2E-04	1.0E-03	8.7E-08	1.6E-01	7.0E-01	9.6E-09	5.2E-04	2.6E-03
235	3.5E-01	2.2E-04	1.0E-03	8.3E-08	1.6E-01	7.0E-01	9.2E-09	5.2E-04	2.6E-03
236	3.3E-01	2.2E-04	1.0E-03	7.8E-08	1.6E-01	7.0E-01	8.6E-09	5.0E-04	2.5E-03
237	3.1E-01	2.2E-04	1.0E-03	7.3E-08	1.6E-01	7.0E-01	8.1E-09	5.0E-04	2.5E-03
238	1.8E+00	2.2E-04	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08	1.6E-03	7.8E-03
239	1.8E+00	2.2E-04	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.7E-08	1.6E-03	8.1E-03
240	1.9E+00	2.2E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.8E-08	1.7E-03	8.3E-03
241	1.9E+00	2.2E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	1.7E-03	8.6E-03
242	1.9E+00	2.2E-04	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	1.8E-03	8.8E-03
243	1.9E+00	2.2E-04	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	1.8E-03	9.1E-03
244	2.0E+00	2.2E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08	1.6E-03	8.1E-03
245	2.0E+00	2.2E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	1.7E-03	8.4E-03
246	2.0E+00	2.2E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	1.7E-03	8.7E-03
247	2.1E+00	2.2E-04	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08	1.8E-03	8.9E-03
248	2.1E+00	2.2E-04	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.5E-08	1.8E-03	9.2E-03
249	2.1E+00	2.2E-04	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	1.9E-03	9.6E-03
250	2.2E+00	2.2E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	2.0E-03	9.9E-03
251	2.2E+00	2.2E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	2.0E-03	1.0E-02
252	2.2E+00	2.2E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	1.7E-03	8.6E-03
253	2.2E+00	2.2E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	1.8E-03	9.0E-03
254	2.3E+00	2.2E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08	1.9E-03	9.3E-03
255	2.3E+00	2.2E-04	1.0E-03	5.4E-07	1.6E-01	7.0E-01	6.0E-08	1.9E-03	9.7E-03
256	2.3E+00	2.2E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	2.0E-03	1.0E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	2.2E-04	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	2.1E-03	1.0E-02
258	2.4E+00	2.2E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	2.1E-03	1.1E-02
259	2.4E+00	2.2E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	2.2E-03	1.1E-02
260	2.5E+00	2.2E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08	2.3E-03	1.2E-02
261	2.5E+00	2.2E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08	1.9E-03	9.7E-03
262	2.6E+00	2.2E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.7E-08	2.0E-03	1.0E-02
263	2.6E+00	2.2E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08	2.1E-03	1.0E-02
264	2.6E+00	2.2E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08	2.2E-03	1.1E-02
265	2.7E+00	2.2E-04	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08	2.3E-03	1.1E-02
266	2.7E+00	2.2E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.0E-08	2.4E-03	1.2E-02
267	2.7E+00	2.2E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08	2.4E-03	1.2E-02
268	2.7E+00	2.2E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08	2.5E-03	1.3E-02
269	2.8E+00	2.2E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08	2.6E-03	1.3E-02
270	2.8E+00	2.2E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08	2.7E-03	1.4E-02
271	2.9E+00	2.2E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.6E-08	2.2E-03	1.1E-02
272	3.0E+00	2.2E-04	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.7E-08	2.3E-03	1.1E-02
273	3.0E+00	2.2E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08	2.4E-03	1.2E-02
274	3.0E+00	2.2E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08	2.5E-03	1.2E-02
275	3.0E+00	2.2E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	7.9E-08	2.6E-03	1.3E-02
276	3.1E+00	2.2E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08	2.7E-03	1.3E-02
277	3.1E+00	2.2E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08	2.8E-03	1.4E-02
278	3.1E+00	2.2E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08	2.9E-03	1.5E-02
279	3.1E+00	2.2E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	7.9E-08	3.0E-03	1.5E-02
280	3.0E+00	2.2E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08	3.2E-03	1.6E-02
281	3.0E+00	2.2E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.8E-08	3.3E-03	1.7E-02
282	3.4E+00	2.2E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.8E-08	2.5E-03	1.3E-02
283	3.4E+00	2.2E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.8E-08	2.6E-03	1.3E-02
284	3.4E+00	2.2E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.9E-08	2.7E-03	1.4E-02
285	3.4E+00	2.2E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	8.9E-08	2.9E-03	1.4E-02
286	3.4E+00	2.2E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	8.9E-08	3.0E-03	1.5E-02
287	3.4E+00	2.2E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	8.9E-08	3.1E-03	1.6E-02
288	3.4E+00	2.2E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.9E-08	3.3E-03	1.6E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	2.2E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08	3.4E-03	1.7E-02
290	3.3E+00	2.2E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08	3.6E-03	1.8E-02
291	3.3E+00	2.2E-04	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.6E-08	3.8E-03	1.9E-02
292	3.3E+00	2.2E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.5E-08	3.9E-03	2.0E-02
293	3.9E+00	2.2E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07	3.0E-03	1.5E-02
294	3.9E+00	2.2E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07	3.2E-03	1.6E-02
295	3.9E+00	2.2E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07	3.4E-03	1.7E-02
296	3.8E+00	2.2E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08	3.6E-03	1.8E-02
297	3.8E+00	2.2E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.8E-08	3.7E-03	1.9E-02
298	3.7E+00	2.2E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.7E-08	3.9E-03	2.0E-02
299	3.7E+00	2.2E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08	4.1E-03	2.1E-02
300	3.6E+00	2.2E-04	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	4.4E-03	2.2E-02
301	3.5E+00	2.2E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08	4.6E-03	2.3E-02
302	3.5E+00	2.2E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08	4.8E-03	2.4E-02
303	3.4E+00	2.2E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.8E-08	5.0E-03	2.5E-02
304	4.4E+00	2.2E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.6E-03	1.8E-02
305	4.3E+00	2.2E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.8E-03	1.9E-02
306	4.2E+00	2.2E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	4.1E-03	2.0E-02
307	4.2E+00	2.2E-04	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07	4.3E-03	2.2E-02
308	4.1E+00	2.2E-04	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07	4.6E-03	2.3E-02
309	4.0E+00	2.2E-04	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	4.9E-03	2.4E-02
310	3.9E+00	2.2E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07	5.2E-03	2.6E-02
311	3.8E+00	2.2E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	9.9E-08	5.5E-03	2.7E-02
312	3.7E+00	2.2E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08	5.8E-03	2.9E-02
313	3.6E+00	2.2E-04	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	6.0E-03	3.0E-02
314	3.5E+00	2.2E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.1E-08	6.2E-03	3.1E-02
315	3.4E+00	2.2E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.9E-08	6.3E-03	3.1E-02
316	4.7E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.7E-03	2.4E-02
317	4.6E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	5.1E-03	2.5E-02
318	4.5E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	5.5E-03	2.7E-02
319	4.4E+00	2.2E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	5.9E-03	2.9E-02
320	4.2E+00	2.2E-04	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	6.3E-03	3.2E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	2.2E-04	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07	5.3E-03	2.7E-02
322	4.0E+00	2.2E-04	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07	3.9E-03	2.0E-02
323	3.8E+00	2.2E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	1.0E-07	4.0E-03	2.0E-02
324	3.7E+00	2.2E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08	4.0E-03	2.0E-02
325	5.0E+00	2.2E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	6.1E-03	3.1E-02
326	4.9E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	5.3E-03	2.7E-02
327	4.7E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	5.7E-03	2.9E-02
328	4.5E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.3E-03	2.2E-02
329	4.4E+00	2.2E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	4.4E-03	2.2E-02
330	4.2E+00	2.2E-04	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	4.4E-03	2.2E-02
331	5.2E+00	2.2E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.8E-03	2.4E-02
332	5.0E+00	2.2E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.9E-03	2.5E-02
333	4.8E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	5.0E-03	2.5E-02
334	4.6E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	5.0E-03	2.5E-02
335	1.7E+00	2.2E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	1.2E-03	6.2E-03
336	1.8E+00	2.2E-04	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	1.3E-03	6.5E-03
337	1.8E+00	2.2E-04	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.7E-08	1.3E-03	6.7E-03
338	1.9E+00	2.2E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	1.4E-03	6.9E-03
339	1.9E+00	2.2E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	1.3E-03	6.4E-03
340	1.9E+00	2.2E-04	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	1.3E-03	6.6E-03
341	2.0E+00	2.2E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	1.4E-03	6.9E-03
342	2.0E+00	2.2E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	1.4E-03	7.1E-03
343	2.0E+00	2.2E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	1.3E-03	6.6E-03
344	2.1E+00	2.2E-04	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	1.4E-03	6.8E-03
345	2.2E+00	2.2E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	1.4E-03	7.0E-03
346	2.2E+00	2.2E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.8E-08	1.5E-03	7.3E-03
347	2.2E+00	2.2E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	1.3E-03	6.7E-03
348	2.3E+00	2.2E-04	1.0E-03	5.4E-07	1.6E-01	7.0E-01	6.0E-08	1.4E-03	7.0E-03
349	2.4E+00	2.2E-04	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	1.5E-03	7.3E-03
350	2.5E+00	2.2E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08	1.5E-03	7.5E-03
351	2.4E+00	2.2E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	1.4E-03	6.9E-03
352	2.5E+00	2.2E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.6E-08	1.4E-03	7.2E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	2.2E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08	1.5E-03	7.5E-03
354	2.7E+00	2.2E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08	1.6E-03	7.8E-03
355	2.6E+00	2.2E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08	1.4E-03	7.1E-03
356	2.8E+00	2.2E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08	1.5E-03	7.4E-03
357	2.9E+00	2.2E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.6E-08	1.5E-03	7.7E-03
358	3.0E+00	2.2E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08	1.6E-03	8.0E-03
359	2.9E+00	2.2E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.6E-08	1.5E-03	7.3E-03
360	3.1E+00	2.2E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08	1.5E-03	7.6E-03
361	3.2E+00	2.2E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08	1.6E-03	7.9E-03
362	3.4E+00	2.2E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.8E-08	1.6E-03	8.2E-03
363	3.2E+00	2.2E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08	1.5E-03	7.5E-03
364	3.4E+00	2.2E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.8E-08	1.6E-03	7.8E-03
365	3.6E+00	2.2E-04	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08	1.6E-03	8.2E-03
366	3.8E+00	2.2E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08	1.7E-03	8.5E-03
367	3.5E+00	2.2E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.1E-08	1.5E-03	7.7E-03
368	3.7E+00	2.2E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08	1.6E-03	8.1E-03
369	4.0E+00	2.2E-04	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.7E-03	8.4E-03
370	4.3E+00	2.2E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.8E-03	8.8E-03
371	3.8E+00	2.2E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	1.0E-07	1.6E-03	7.9E-03
372	4.1E+00	2.2E-04	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07	1.7E-03	8.3E-03
373	4.5E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.7E-03	8.7E-03
374	4.8E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	1.8E-03	9.1E-03
375	4.2E+00	2.2E-04	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07	1.6E-03	8.1E-03
376	4.6E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.7E-03	8.6E-03
377	5.0E+00	2.2E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.8E-03	9.0E-03
378	5.5E+00	2.2E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.9E-03	9.5E-03
379	4.5E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.7E-03	8.4E-03
380	5.0E+00	2.2E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.8E-03	8.8E-03
381	5.6E+00	2.2E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.9E-03	9.3E-03
382	6.2E+00	2.2E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	2.0E-03	9.8E-03
383	4.9E+00	2.2E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.7E-03	8.6E-03
384	5.5E+00	2.2E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.8E-03	9.1E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	2.2E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	1.9E-03	9.6E-03
386	6.9E+00	2.2E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	2.0E-03	1.0E-02
387	5.2E+00	2.2E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	1.8E-03	8.8E-03
388	5.9E+00	2.2E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	1.9E-03	9.4E-03
389	6.7E+00	2.2E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	2.0E-03	9.9E-03
390	7.7E+00	2.2E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	2.1E-03	1.1E-02
391	5.6E+00	2.2E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.8E-03	9.1E-03
392	6.3E+00	2.2E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	1.9E-03	9.6E-03
393	7.2E+00	2.2E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	2.1E-03	1.0E-02
394	8.4E+00	2.2E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	2.2E-03	1.1E-02
395	5.8E+00	2.2E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	1.9E-03	9.3E-03
396	6.7E+00	2.2E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	2.0E-03	9.9E-03
397	7.7E+00	2.2E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	2.1E-03	1.1E-02
398	9.1E+00	2.2E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07	2.3E-03	1.1E-02
399	6.0E+00	2.2E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	1.9E-03	9.5E-03
400	7.0E+00	2.2E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	2.0E-03	1.0E-02
401	8.1E+00	2.2E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	2.2E-03	1.1E-02
402	9.6E+00	2.2E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	2.3E-03	1.2E-02
403	6.2E+00	2.2E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	2.0E-03	9.8E-03
404	7.2E+00	2.2E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	2.1E-03	1.0E-02
405	8.4E+00	2.2E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	2.3E-03	1.1E-02
406	1.0E+01	2.2E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07	2.4E-03	1.2E-02
407	6.3E+00	2.2E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	2.0E-03	1.0E-02
408	7.4E+00	2.2E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	2.2E-03	1.1E-02
409	8.7E+00	2.2E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07	2.3E-03	1.2E-02
410	1.0E+01	2.2E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07	2.5E-03	1.3E-02
411	6.4E+00	2.2E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	2.0E-03	1.0E-02
412	7.5E+00	2.2E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07	2.2E-03	1.1E-02
413	8.8E+00	2.2E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	2.4E-03	1.2E-02
414	1.1E+01	2.2E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	2.6E-03	1.3E-02
415	6.4E+00	2.2E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	2.1E-03	1.0E-02
416	7.5E+00	2.2E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	2.3E-03	1.1E-02

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	2.2E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	2.5E-03	1.2E-02
418	1.1E+01	2.2E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	2.7E-03	1.3E-02
419	6.4E+00	2.2E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	2.1E-03	1.1E-02
420	7.5E+00	2.2E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07	2.3E-03	1.2E-02
421	8.9E+00	2.2E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	2.6E-03	1.3E-02
422	1.1E+01	2.2E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	2.8E-03	1.4E-02
423	6.3E+00	2.2E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	2.2E-03	1.1E-02
424	7.4E+00	2.2E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	2.4E-03	1.2E-02
425	8.8E+00	2.2E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	2.6E-03	1.3E-02
426	1.1E+01	2.2E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	2.9E-03	1.5E-02
427	6.1E+00	2.2E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	2.2E-03	1.1E-02
428	7.2E+00	2.2E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	2.5E-03	1.2E-02
429	8.6E+00	2.2E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	2.7E-03	1.4E-02
430	1.0E+01	2.2E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07	3.0E-03	1.5E-02
431	5.9E+00	2.2E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	2.2E-03	1.1E-02
432	6.9E+00	2.2E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	2.5E-03	1.2E-02
433	8.3E+00	2.2E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	2.8E-03	1.4E-02
434	1.0E+01	2.2E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07	3.1E-03	1.6E-02
435	5.6E+00	2.2E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	2.3E-03	1.1E-02
436	6.6E+00	2.2E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	2.5E-03	1.3E-02
437	7.9E+00	2.2E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.0E-07	2.8E-03	1.4E-02
438	9.6E+00	2.2E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07	3.3E-03	1.6E-02
439	5.4E+00	2.2E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	2.2E-03	1.1E-02
440	6.3E+00	2.2E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	2.5E-03	1.3E-02
441	7.4E+00	2.2E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	2.9E-03	1.4E-02
442	9.0E+00	2.2E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	3.3E-03	1.7E-02
443	5.0E+00	2.2E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.2E-03	1.1E-02
444	5.9E+00	2.2E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	2.5E-03	1.2E-02
445	6.9E+00	2.2E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	2.9E-03	1.4E-02
446	8.3E+00	2.2E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.2E-07	3.3E-03	1.7E-02
447	4.7E+00	2.2E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.1E-03	1.1E-02
448	5.4E+00	2.2E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	2.4E-03	1.2E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	2.2E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	2.8E-03	1.4E-02
450	7.6E+00	2.2E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	3.3E-03	1.6E-02
451	4.4E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	7.6E-04	3.8E-03
452	4.4E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.1E-08	7.7E-04	3.8E-03
453	4.4E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.2E-08	7.7E-04	3.9E-03
454	4.5E-01	2.2E-04	1.0E-03	1.0E-07	1.6E-01	7.0E-01	1.2E-08	7.7E-04	3.9E-03
455	5.4E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	8.9E-04	4.4E-03
456	5.4E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	9.0E-04	4.5E-03
457	5.5E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	9.1E-04	4.6E-03
458	5.4E-01	2.2E-04	1.0E-03	1.3E-07	1.6E-01	7.0E-01	1.4E-08	9.1E-04	4.5E-03
459	6.8E-01	2.2E-04	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.8E-08	1.1E-03	5.3E-03
460	6.8E-01	2.2E-04	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.8E-08	1.1E-03	5.4E-03
461	6.8E-01	2.2E-04	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.8E-08	1.1E-03	5.5E-03
462	7.8E-01	2.2E-04	1.0E-03	1.8E-07	1.6E-01	7.0E-01	2.0E-08	5.8E-04	2.9E-03
463	9.7E-01	2.2E-04	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	6.7E-04	3.3E-03
464	7.9E-01	2.2E-04	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.1E-08	5.8E-04	2.9E-03
465	1.0E+00	2.2E-04	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.6E-08	6.7E-04	3.4E-03
466	1.3E+00	2.2E-04	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	8.0E-04	4.0E-03
467	1.8E+00	2.2E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.6E-08	9.7E-04	4.9E-03
468	7.7E-01	2.2E-04	1.0E-03	1.8E-07	1.6E-01	7.0E-01	2.0E-08	5.6E-04	2.8E-03
469	9.8E-01	2.2E-04	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	6.7E-04	3.3E-03
470	1.3E+00	2.2E-04	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	8.0E-04	4.0E-03
471	1.8E+00	2.2E-04	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	1.0E-03	5.0E-03
472	9.2E-01	2.2E-04	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	6.4E-04	3.2E-03
473	1.2E+00	2.2E-04	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	7.8E-04	3.9E-03
474	1.7E+00	2.2E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	9.8E-04	4.9E-03
475	8.3E-01	2.2E-04	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	6.1E-04	3.0E-03
476	1.1E+00	2.2E-04	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	7.3E-04	3.7E-03
477	1.5E+00	2.2E-04	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	9.3E-04	4.6E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
1	2.8E+00	7.9E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	2.7E+00	1.4E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.6E-08
2	2.9E+00	7.9E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	2.9E+00	1.4E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08
3	3.1E+00	7.9E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	3.1E+00	1.4E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08
4	3.2E+00	7.9E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	3.3E+00	1.4E-04	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.5E-08
5	3.3E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	3.5E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08
6	3.5E+00	7.9E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08
7	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08
8	3.8E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	4.1E+00	1.4E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08
9	3.9E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	4.3E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
10	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	4.6E+00	1.4E-04	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08
11	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.7E-08	4.8E+00	1.4E-04	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.0E-08
12	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	5.0E+00	1.4E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08
13	3.9E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	5.1E+00	1.4E-04	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.5E-08
14	3.9E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	5.1E+00	1.4E-04	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.5E-08
15	2.9E+00	7.9E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	4.1E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08
16	2.8E+00	7.9E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	3.8E+00	1.4E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.4E-08
17	3.1E+00	7.9E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.8E-08	2.9E+00	1.4E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08
18	3.3E+00	7.9E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	3.1E+00	1.4E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.3E-08
19	3.4E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08
20	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	3.6E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.0E-08
21	3.8E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	3.9E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
22	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	4.1E+00	1.4E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08
23	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	6.0E+00	1.4E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07
24	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	6.1E+00	1.4E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
25	3.5E+00	7.9E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
26	3.3E+00	7.9E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.8E-08
27	3.1E+00	7.9E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	4.3E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
28	3.4E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	3.1E+00	1.4E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08
29	3.8E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08
30	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.7E-08	4.0E+00	1.4E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08
31	4.3E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	3.9E-08	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
32	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
33	4.8E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	5.1E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.5E-08
34	5.0E+00	7.9E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	5.4E+00	1.4E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08
35	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.8E-08	5.8E+00	1.4E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.8E-08
36	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	6.2E+00	1.4E-04	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07
37	5.5E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	7.1E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
38	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	4.9E-08	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
39	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.8E-08	7.5E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
40	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	6.0E+00	1.4E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	1.0E-07
41	3.7E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	5.5E+00	1.4E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08
42	3.4E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
43	3.7E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	3.3E+00	1.4E-04	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08
44	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.7E-08	3.6E+00	1.4E-04	1.0E-03	5.4E-07	1.6E-01	7.0E-01	6.0E-08
45	4.3E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	4.0E+00	1.4E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08
46	5.0E+00	7.9E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	4.8E+00	1.4E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08
47	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	5.3E+00	1.4E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.8E-08
48	5.6E+00	7.9E-05	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08	5.8E+00	1.4E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08
49	5.9E+00	7.9E-05	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08	6.3E+00	1.4E-04	1.0E-03	9.5E-07	1.6E-01	7.0E-01	1.0E-07
50	6.2E+00	7.9E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.7E-08	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07
51	6.5E+00	7.9E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	5.9E-08	7.5E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
52	6.6E+00	7.9E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	8.8E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
53	6.5E+00	7.9E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	5.9E-08	9.2E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
54	6.3E+00	7.9E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	9.4E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
55	6.0E+00	7.9E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	9.3E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
56	5.7E+00	7.9E-05	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	9.0E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
57	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	7.2E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
58	4.2E+00	7.9E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.8E-08	6.5E+00	1.4E-04	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07
59	3.8E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	5.9E+00	1.4E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.8E-08
60	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.7E-08	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08
61	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	3.7E+00	1.4E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08
62	4.9E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.5E-08	4.2E+00	1.4E-04	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08
63	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.8E-08
64	5.7E+00	7.9E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	5.3E+00	1.4E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.8E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
65	7.0E+00	7.9E-05	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.5E-08	7.3E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
66	7.5E+00	7.9E-05	1.0E-03	6.3E-07	1.6E-01	7.0E-01	6.9E-08	8.2E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07
67	7.9E+00	7.9E-05	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08	9.0E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
68	8.1E+00	7.9E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
69	7.9E+00	7.9E-05	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08	1.2E+01	1.4E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
70	7.6E+00	7.9E-05	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08	1.2E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
71	7.2E+00	7.9E-05	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08	1.2E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.0E-07
72	6.8E+00	7.9E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	1.2E+01	1.4E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
73	4.4E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.7E-08
74	4.9E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.5E-08	3.8E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
75	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	4.9E-08	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
76	6.0E+00	7.9E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	4.9E+00	1.4E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08
77	6.7E+00	7.9E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	5.7E+00	1.4E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08
78	7.3E+00	7.9E-05	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.7E-08	6.5E+00	1.4E-04	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07
79	8.0E+00	7.9E-05	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
80	9.9E+00	7.9E-05	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07
81	1.0E+01	7.9E-05	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	1.4E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
82	1.0E+01	7.9E-05	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
83	9.5E+00	7.9E-05	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
84	8.9E+00	7.9E-05	1.0E-03	7.4E-07	1.6E-01	7.0E-01	8.2E-08	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
85	8.2E+00	7.9E-05	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.5E-08	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
86	4.5E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08
87	5.2E+00	7.9E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	3.9E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
88	6.0E+00	7.9E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	4.4E+00	1.4E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
89	6.8E+00	7.9E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	5.1E+00	1.4E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08
90	7.7E+00	7.9E-05	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08	5.9E+00	1.4E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	9.9E-08
91	8.7E+00	7.9E-05	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07
92	9.7E+00	7.9E-05	1.0E-03	8.1E-07	1.6E-01	7.0E-01	8.9E-08	8.1E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07
93	1.1E+01	7.9E-05	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08	9.6E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
94	1.2E+01	7.9E-05	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
95	1.1E+01	7.9E-05	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07	2.6E+01	1.4E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07
96	1.0E+01	7.9E-05	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.2E-08	2.4E+01	1.4E-04	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
97	4.8E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08
98	5.5E+00	7.9E-05	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08	3.8E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
99	6.4E+00	7.9E-05	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08	4.4E+00	1.4E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
100	1.0E+01	7.9E-05	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	7.3E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
101	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	8.7E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
102	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	1.1E+01	1.4E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
103	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
104	4.8E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	3.3E+00	1.4E-04	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08
105	5.7E+00	7.9E-05	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	3.8E+00	1.4E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08
106	6.7E+00	7.9E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	4.4E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
107	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
108	2.1E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	1.4E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
109	4.7E+00	7.9E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	3.2E+00	1.4E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08
110	5.6E+00	7.9E-05	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08
111	6.8E+00	7.9E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	4.3E+00	1.4E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08
112	2.3E+01	7.9E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
113	3.0E+01	7.9E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
114	4.5E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08
115	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	3.5E+00	1.4E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08
116	6.6E+00	7.9E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	6.0E-08	4.1E+00	1.4E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.8E-08
117	8.1E+00	7.9E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	4.8E+00	1.4E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08
118	2.7E+01	7.9E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
119	4.2E+01	7.9E-05	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
120	4.3E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	2.9E+00	1.4E-04	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08
121	5.1E+00	7.9E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08	3.3E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08
122	6.2E+00	7.9E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08
123	7.6E+00	7.9E-05	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08	4.5E+00	1.4E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.6E-08
124	2.7E+01	7.9E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	1.0E+01	1.4E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
125	4.8E+01	7.9E-05	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
126	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.7E-08	2.8E+00	1.4E-04	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08
127	4.8E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	3.2E+00	1.4E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08
128	5.7E+00	7.9E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
129	7.1E+00	7.9E-05	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08	4.3E+00	1.4E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08
130	8.9E+00	7.9E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
131	1.2E+01	7.9E-05	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07	6.1E+00	1.4E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
132	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	7.5E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07
133	2.4E+01	7.9E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	9.6E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
134	4.0E+01	7.9E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07	1.3E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
135	8.8E+01	7.9E-05	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.1E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
136	3.8E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	2.7E+00	1.4E-04	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08
137	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	3.0E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08
138	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08
139	6.5E+00	7.9E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	5.9E-08	4.0E+00	1.4E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.7E-08
140	8.1E+00	7.9E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08
141	1.0E+01	7.9E-05	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08	5.6E+00	1.4E-04	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08
142	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
143	2.0E+01	7.9E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	8.6E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
144	3.0E+01	7.9E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	1.1E+01	1.4E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
145	5.2E+01	7.9E-05	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.7E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
146	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	2.5E+00	1.4E-04	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08
147	4.2E+00	7.9E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	2.9E+00	1.4E-04	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08
148	5.0E+00	7.9E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.6E-08	3.2E+00	1.4E-04	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08
149	6.0E+00	7.9E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	3.8E+00	1.4E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08
150	7.3E+00	7.9E-05	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.7E-08	4.4E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
151	9.2E+00	7.9E-05	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.5E-08	5.2E+00	1.4E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08
152	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	6.2E+00	1.4E-04	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07
153	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	7.6E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
154	2.2E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	9.5E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
155	3.2E+01	7.9E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	1.2E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
156	3.4E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	2.4E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08
157	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	2.7E+00	1.4E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08
158	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08
159	5.5E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	3.5E+00	1.4E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08
160	6.6E+00	7.9E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	4.0E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
161	8.1E+00	7.9E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08
162	1.0E+01	7.9E-05	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08	5.6E+00	1.4E-04	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08
163	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	6.7E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
164	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	8.1E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07
165	2.1E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	1.0E+01	1.4E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
166	3.2E+00	7.9E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	2.9E-08	2.3E+00	1.4E-04	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.8E-08
167	3.7E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.4E-08	2.6E+00	1.4E-04	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08
168	4.2E+00	7.9E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	2.9E+00	1.4E-04	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08
169	5.0E+00	7.9E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.6E-08	3.3E+00	1.4E-04	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08
170	5.9E+00	7.9E-05	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08	3.7E+00	1.4E-04	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08
171	7.0E+00	7.9E-05	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.5E-08	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
172	8.5E+00	7.9E-05	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08	5.0E+00	1.4E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08
173	1.0E+01	7.9E-05	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08	5.8E+00	1.4E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08
174	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
175	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	8.3E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07
176	3.0E+00	7.9E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	2.2E+00	1.4E-04	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08
177	3.4E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	2.4E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08
178	3.9E+00	7.9E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	2.7E+00	1.4E-04	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08
179	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	3.0E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.0E-08
180	5.2E+00	7.9E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	3.4E+00	1.4E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08
181	6.1E+00	7.9E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	3.9E+00	1.4E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.5E-08
182	7.2E+00	7.9E-05	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.6E-08	4.4E+00	1.4E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
183	8.4E+00	7.9E-05	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.7E-08	5.1E+00	1.4E-04	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.5E-08
184	9.8E+00	7.9E-05	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08	5.9E+00	1.4E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.8E-08
185	1.1E+01	7.9E-05	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07	6.8E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
186	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	4.9E-08	6.0E+00	1.4E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07
187	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	5.2E+00	1.4E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08
188	3.9E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	4.6E+00	1.4E-04	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.7E-08
189	2.8E+00	7.9E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	2.0E+00	1.4E-04	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08
190	3.1E+00	7.9E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	2.3E+00	1.4E-04	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08
191	3.6E+00	7.9E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.3E-08	2.5E+00	1.4E-04	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08
192	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.7E-08	2.8E+00	1.4E-04	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
193	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	3.1E+00	1.4E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08
194	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.8E-08	3.5E+00	1.4E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.8E-08
195	6.1E+00	7.9E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.6E-08	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.6E-08
196	6.9E+00	7.9E-05	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.4E-08	4.4E+00	1.4E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
197	8.6E+00	7.9E-05	1.0E-03	7.2E-07	1.6E-01	7.0E-01	7.9E-08	5.7E+00	1.4E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08
198	7.1E+00	7.9E-05	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08	6.7E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
199	6.2E+00	7.9E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	6.2E+00	1.4E-04	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07
200	5.4E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	4.9E-08	5.6E+00	1.4E-04	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08
201	4.7E+00	7.9E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
202	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	4.5E+00	1.4E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.5E-08
203	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	4.0E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.7E-08
204	2.6E+00	7.9E-05	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	1.9E+00	1.4E-04	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08
205	2.9E+00	7.9E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	2.1E+00	1.4E-04	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08
206	3.2E+00	7.9E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	2.3E+00	1.4E-04	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08
207	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	2.6E+00	1.4E-04	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08
208	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	2.8E+00	1.4E-04	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.7E-08
209	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	3.1E+00	1.4E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08
210	5.2E+00	7.9E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	3.5E+00	1.4E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08
211	6.3E+00	7.9E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
212	6.7E+00	7.9E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08
213	6.6E+00	7.9E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	5.5E+00	1.4E-04	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08
214	6.2E+00	7.9E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.7E-08	5.5E+00	1.4E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08
215	5.8E+00	7.9E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	5.4E+00	1.4E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08
216	5.2E+00	7.9E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.7E-08	5.1E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.5E-08
217	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	4.7E+00	1.4E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.8E-08
218	4.1E+00	7.9E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	4.3E+00	1.4E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
219	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08
220	3.2E+00	7.9E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08
221	2.4E+00	7.9E-05	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	1.8E+00	1.4E-04	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08
222	2.7E+00	7.9E-05	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	2.0E+00	1.4E-04	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08
223	3.0E+00	7.9E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	2.2E+00	1.4E-04	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08
224	3.3E+00	7.9E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	2.4E+00	1.4E-04	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
225	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	2.6E+00	1.4E-04	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08
226	4.5E+00	7.9E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	3.1E+00	1.4E-04	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08
227	4.9E+00	7.9E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	3.4E+00	1.4E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08
228	5.2E+00	7.9E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.7E-08	3.7E+00	1.4E-04	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08
229	5.5E+00	7.9E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	4.0E+00	1.4E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.7E-08
230	5.3E+00	7.9E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	4.5E+00	1.4E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.5E-08
231	5.0E+00	7.9E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	4.4E+00	1.4E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
232	4.8E+00	7.9E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.4E-08	4.4E+00	1.4E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
233	4.3E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	4.2E+00	1.4E-04	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08
234	3.9E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	3.9E+00	1.4E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.6E-08
235	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	3.7E+00	1.4E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08
236	3.2E+00	7.9E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	3.3E+00	1.4E-04	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08
237	2.9E+00	7.9E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.6E-08	3.1E+00	1.4E-04	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08
238	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.4E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
239	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.5E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
240	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
241	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
242	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
243	1.1E+01	7.9E-05	1.0E-03	9.4E-07	1.6E-01	7.0E-01	1.0E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
244	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
245	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.6E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
246	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
247	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
248	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
249	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
250	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
251	1.2E+01	7.9E-05	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
252	1.3E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
253	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
254	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
255	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
256	1.3E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
257	1.3E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
258	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
259	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	2.0E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
260	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	2.1E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.5E-07
261	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
262	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
263	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
264	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.0E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
265	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
266	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.2E+01	1.4E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07
267	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.2E+01	1.4E-04	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.7E-07
268	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.3E+01	1.4E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07
269	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.4E+01	1.4E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	3.9E-07
270	1.3E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	2.4E+01	1.4E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07
271	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
272	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.2E+01	1.4E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07
273	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.2E+01	1.4E-04	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.8E-07
274	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.3E+01	1.4E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07
275	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	2.4E+01	1.4E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07
276	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	2.5E+01	1.4E-04	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07
277	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.6E+01	1.4E-04	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07
278	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.6E+01	1.4E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07
279	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.7E+01	1.4E-04	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07
280	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.8E+01	1.4E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.6E-07
281	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	2.8E+01	1.4E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07
282	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	2.4E+01	1.4E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07
283	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	2.5E+01	1.4E-04	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07
284	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.6E+01	1.4E-04	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07
285	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.7E+01	1.4E-04	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07
286	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.8E+01	1.4E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07
287	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	2.9E+01	1.4E-04	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07
288	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.0E+01	1.4E-04	1.0E-03	4.5E-06	1.6E-01	7.0E-01	4.9E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
289	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.0E+01	1.4E-04	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.1E-07
290	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.1E+01	1.4E-04	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07
291	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.2E+01	1.4E-04	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07
292	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.2E+01	1.4E-04	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.4E-07
293	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	2.9E+01	1.4E-04	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.9E-07
294	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.0E+01	1.4E-04	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.1E-07
295	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	3.2E+01	1.4E-04	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07
296	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	3.3E+01	1.4E-04	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.5E-07
297	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.4E+01	1.4E-04	1.0E-03	5.1E-06	1.6E-01	7.0E-01	5.6E-07
298	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.5E+01	1.4E-04	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.8E-07
299	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.5E+01	1.4E-04	1.0E-03	5.4E-06	1.6E-01	7.0E-01	5.9E-07
300	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+01	1.4E-04	1.0E-03	5.4E-06	1.6E-01	7.0E-01	6.0E-07
301	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.6E+01	1.4E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
302	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.6E+01	1.4E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
303	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.6E+01	1.4E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
304	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	3.5E+01	1.4E-04	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.8E-07
305	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.6E+01	1.4E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
306	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+01	1.4E-04	1.0E-03	5.7E-06	1.6E-01	7.0E-01	6.3E-07
307	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.9E+01	1.4E-04	1.0E-03	5.9E-06	1.6E-01	7.0E-01	6.5E-07
308	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.0E+01	1.4E-04	1.0E-03	6.0E-06	1.6E-01	7.0E-01	6.7E-07
309	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.1E+01	1.4E-04	1.0E-03	6.2E-06	1.6E-01	7.0E-01	6.8E-07
310	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.1E+01	1.4E-04	1.0E-03	6.3E-06	1.6E-01	7.0E-01	6.9E-07
311	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	4.2E+01	1.4E-04	1.0E-03	6.3E-06	1.6E-01	7.0E-01	7.0E-07
312	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.2E+01	1.4E-04	1.0E-03	6.3E-06	1.6E-01	7.0E-01	7.0E-07
313	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.1E+01	1.4E-04	1.0E-03	6.2E-06	1.6E-01	7.0E-01	6.9E-07
314	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.0E+01	1.4E-04	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.7E-07
315	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.9E+01	1.4E-04	1.0E-03	5.9E-06	1.6E-01	7.0E-01	6.5E-07
316	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.4E+01	1.4E-04	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.3E-07
317	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.6E+01	1.4E-04	1.0E-03	6.9E-06	1.6E-01	7.0E-01	7.6E-07
318	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.7E+01	1.4E-04	1.0E-03	7.1E-06	1.6E-01	7.0E-01	7.9E-07
319	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.8E+01	1.4E-04	1.0E-03	7.2E-06	1.6E-01	7.0E-01	8.0E-07
320	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.8E+01	1.4E-04	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.1E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
321	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.8E+01	1.4E-04	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.1E-07
322	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	4.8E+01	1.4E-04	1.0E-03	7.2E-06	1.6E-01	7.0E-01	8.0E-07
323	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.7E+01	1.4E-04	1.0E-03	7.0E-06	1.6E-01	7.0E-01	7.8E-07
324	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.5E+01	1.4E-04	1.0E-03	6.8E-06	1.6E-01	7.0E-01	7.5E-07
325	1.6E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	5.5E+01	1.4E-04	1.0E-03	8.2E-06	1.6E-01	7.0E-01	9.1E-07
326	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	5.6E+01	1.4E-04	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.4E-07
327	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	5.7E+01	1.4E-04	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07
328	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	5.7E+01	1.4E-04	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07
329	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	5.7E+01	1.4E-04	1.0E-03	8.6E-06	1.6E-01	7.0E-01	9.5E-07
330	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	5.5E+01	1.4E-04	1.0E-03	8.3E-06	1.6E-01	7.0E-01	9.2E-07
331	1.6E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	6.9E+01	1.4E-04	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.2E-06
332	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	7.0E+01	1.4E-04	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06
333	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	6.9E+01	1.4E-04	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.2E-06
334	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	6.6E+01	1.4E-04	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06
335	1.2E+01	7.9E-05	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07	1.2E+01	1.4E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
336	1.2E+01	7.9E-05	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07	1.2E+01	1.4E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
337	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	1.3E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
338	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
339	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.2E+01	1.4E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
340	1.2E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	1.3E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
341	1.3E+01	7.9E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
342	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
343	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.3E+01	1.4E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
344	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
345	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.4E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
346	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
347	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
348	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
349	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
350	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.5E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
351	1.4E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.3E+01	1.4E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
352	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
353	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	1.5E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
354	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
355	1.5E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
356	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	1.4E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
357	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
358	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
359	1.6E+01	7.9E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	1.4E+01	1.4E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
360	1.7E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	1.5E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
361	1.7E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
362	1.7E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
363	1.7E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	1.5E+01	1.4E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
364	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
365	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
366	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
367	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
368	1.9E+01	7.9E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
369	1.9E+01	7.9E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
370	2.0E+01	7.9E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
371	2.0E+01	7.9E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	1.5E+01	1.4E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
372	2.0E+01	7.9E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
373	2.1E+01	7.9E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
374	2.1E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
375	2.1E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
376	2.2E+01	7.9E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
377	2.2E+01	7.9E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
378	2.3E+01	7.9E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
379	2.3E+01	7.9E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
380	2.3E+01	7.9E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.2E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
381	2.4E+01	7.9E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
382	2.5E+01	7.9E-05	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
383	2.4E+01	7.9E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
384	2.5E+01	7.9E-05	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
385	2.6E+01	7.9E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
386	2.7E+01	7.9E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
387	2.6E+01	7.9E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
388	2.7E+01	7.9E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	1.8E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
389	2.8E+01	7.9E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
390	2.9E+01	7.9E-05	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
391	2.8E+01	7.9E-05	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
392	3.0E+01	7.9E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
393	3.1E+01	7.9E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.2E-07
394	3.2E+01	7.9E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
395	3.1E+01	7.9E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
396	3.2E+01	7.9E-05	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
397	3.4E+01	7.9E-05	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
398	3.5E+01	7.9E-05	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	2.0E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
399	3.3E+01	7.9E-05	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
400	3.5E+01	7.9E-05	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.0E-07
401	3.7E+01	7.9E-05	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
402	3.8E+01	7.9E-05	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07	2.1E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.5E-07
403	3.6E+01	7.9E-05	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
404	3.8E+01	7.9E-05	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
405	4.0E+01	7.9E-05	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.7E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
406	4.3E+01	7.9E-05	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
407	3.9E+01	7.9E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
408	4.2E+01	7.9E-05	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
409	4.5E+01	7.9E-05	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
410	4.7E+01	7.9E-05	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
411	4.3E+01	7.9E-05	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
412	4.6E+01	7.9E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
413	4.9E+01	7.9E-05	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
414	5.3E+01	7.9E-05	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.8E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
415	4.6E+01	7.9E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
416	5.0E+01	7.9E-05	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.6E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
417	5.4E+01	7.9E-05	1.0E-03	4.5E-06	1.6E-01	7.0E-01	5.0E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
418	5.9E+01	7.9E-05	1.0E-03	4.9E-06	1.6E-01	7.0E-01	5.4E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
419	5.0E+01	7.9E-05	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.6E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
420	5.5E+01	7.9E-05	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.1E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
421	6.0E+01	7.9E-05	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.5E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
422	6.6E+01	7.9E-05	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
423	5.4E+01	7.9E-05	1.0E-03	4.5E-06	1.6E-01	7.0E-01	4.9E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
424	6.0E+01	7.9E-05	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.5E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
425	6.7E+01	7.9E-05	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
426	7.4E+01	7.9E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.8E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
427	5.8E+01	7.9E-05	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
428	6.5E+01	7.9E-05	1.0E-03	5.4E-06	1.6E-01	7.0E-01	6.0E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
429	7.3E+01	7.9E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.7E-07	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
430	8.3E+01	7.9E-05	1.0E-03	6.9E-06	1.6E-01	7.0E-01	7.6E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
431	6.1E+01	7.9E-05	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.6E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
432	7.0E+01	7.9E-05	1.0E-03	5.8E-06	1.6E-01	7.0E-01	6.4E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
433	8.0E+01	7.9E-05	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.4E-07	2.0E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.3E-07
434	9.3E+01	7.9E-05	1.0E-03	7.7E-06	1.6E-01	7.0E-01	8.5E-07	2.1E+01	1.4E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
435	6.3E+01	7.9E-05	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.8E-07	1.7E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07
436	7.3E+01	7.9E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.7E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
437	8.6E+01	7.9E-05	1.0E-03	7.1E-06	1.6E-01	7.0E-01	7.9E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
438	1.0E+02	7.9E-05	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.4E-07	2.1E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.5E-07
439	6.4E+01	7.9E-05	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.9E-07	1.6E+01	1.4E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
440	7.6E+01	7.9E-05	1.0E-03	6.3E-06	1.6E-01	7.0E-01	6.9E-07	1.8E+01	1.4E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	2.9E-07
441	9.0E+01	7.9E-05	1.0E-03	7.5E-06	1.6E-01	7.0E-01	8.3E-07	1.9E+01	1.4E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
442	1.1E+02	7.9E-05	1.0E-03	9.1E-06	1.6E-01	7.0E-01	1.0E-06	2.1E+01	1.4E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
443	6.4E+01	7.9E-05	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.9E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
444	7.6E+01	7.9E-05	1.0E-03	6.3E-06	1.6E-01	7.0E-01	7.0E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07
445	9.2E+01	7.9E-05	1.0E-03	7.6E-06	1.6E-01	7.0E-01	8.4E-07	1.9E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
446	1.1E+02	7.9E-05	1.0E-03	9.4E-06	1.6E-01	7.0E-01	1.0E-06	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.4E-07
447	6.2E+01	7.9E-05	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.7E-07	1.6E+01	1.4E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
448	7.4E+01	7.9E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.8E-07	1.7E+01	1.4E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
449	9.0E+01	7.9E-05	1.0E-03	7.5E-06	1.6E-01	7.0E-01	8.3E-07	1.8E+01	1.4E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.0E-07
450	1.1E+02	7.9E-05	1.0E-03	9.3E-06	1.6E-01	7.0E-01	1.0E-06	2.0E+01	1.4E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
451	3.8E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	5.1E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
452	3.6E+00	7.9E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	5.0E+00	1.4E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08
453	3.5E+00	7.9E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	4.8E+00	1.4E-04	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.0E-08
454	3.3E+00	7.9E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	4.6E+00	1.4E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.7E-08
455	4.3E+00	7.9E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	6.0E+00	1.4E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07
456	4.2E+00	7.9E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.8E-08	5.9E+00	1.4E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08
457	4.0E+00	7.9E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.7E-08	5.7E+00	1.4E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08
458	3.8E+00	7.9E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	5.4E+00	1.4E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.1E-08
459	5.1E+00	7.9E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
460	4.8E+00	7.9E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	7.2E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
461	4.6E+00	7.9E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	6.9E+00	1.4E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07
462	7.6E+00	7.9E-05	1.0E-03	6.3E-07	1.6E-01	7.0E-01	6.9E-08	5.2E+00	1.4E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08
463	8.8E+00	7.9E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08	6.1E+00	1.4E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
464	8.1E+00	7.9E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.5E-08	5.2E+00	1.4E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08
465	9.8E+00	7.9E-05	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08	6.1E+00	1.4E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
466	1.2E+01	7.9E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	7.4E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
467	1.5E+01	7.9E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	9.0E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
468	8.3E+00	7.9E-05	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08	5.0E+00	1.4E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
469	1.0E+01	7.9E-05	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08	6.0E+00	1.4E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	1.0E-07
470	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	7.2E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
471	1.7E+01	7.9E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	9.0E+00	1.4E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
472	1.0E+01	7.9E-05	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08	5.7E+00	1.4E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08
473	1.4E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	7.0E+00	1.4E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
474	1.9E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	8.7E+00	1.4E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
475	9.7E+00	7.9E-05	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.9E-08	5.4E+00	1.4E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08
476	1.3E+01	7.9E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	6.5E+00	1.4E-04	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07
477	1.8E+01	7.9E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	8.1E+00	1.4E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
1	2.9E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.8E-08	1.6E+00	4.8E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.1E-08
2	3.1E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.8E+00	4.8E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.8E-08
3	3.3E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	1.9E+00	4.8E-04	1.0E-03	9.5E-07	1.6E-01	7.0E-01	1.1E-07
4	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	2.1E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
5	3.8E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
6	4.1E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
7	4.4E+00	8.5E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
8	4.7E+00	8.5E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	2.8E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
9	5.0E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
10	5.3E+00	8.5E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
11	5.7E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
12	6.0E+00	8.5E-05	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08	3.7E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
13	6.2E+00	8.5E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
14	6.3E+00	8.5E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
15	5.0E+00	8.5E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	5.0E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
16	4.6E+00	8.5E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	5.0E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
17	3.0E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	1.7E+00	4.8E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.1E-08
18	3.3E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.3E-08	1.8E+00	4.8E-04	1.0E-03	9.0E-07	1.6E-01	7.0E-01	9.9E-08
19	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	2.0E+00	4.8E-04	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07
20	3.9E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	2.1E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
21	4.2E+00	8.5E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	2.3E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07
22	4.6E+00	8.5E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	2.5E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
23	7.5E+00	8.5E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	4.5E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
24	7.7E+00	8.5E-05	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
25	6.3E+00	8.5E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	5.8E+00	4.8E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
26	5.8E+00	8.5E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	5.9E+00	4.8E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
27	5.4E+00	8.5E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	5.9E+00	4.8E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
28	3.1E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.7E+00	4.8E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.1E-08
29	3.9E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	2.0E+00	4.8E-04	1.0E-03	9.8E-07	1.6E-01	7.0E-01	1.1E-07
30	4.2E+00	8.5E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
31	4.7E+00	8.5E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
32	5.2E+00	8.5E-05	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.1E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
33	5.7E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	2.9E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
34	6.2E+00	8.5E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
35	6.9E+00	8.5E-05	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08	3.5E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	1.9E-07
36	7.5E+00	8.5E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
37	8.9E+00	8.5E-05	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.8E-08	4.7E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
38	9.4E+00	8.5E-05	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08	5.2E+00	4.8E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
39	9.8E+00	8.5E-05	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08	5.6E+00	4.8E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
40	7.7E+00	8.5E-05	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08	7.0E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07
41	7.0E+00	8.5E-05	1.0E-03	6.3E-07	1.6E-01	7.0E-01	6.9E-08	7.1E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07
42	6.3E+00	8.5E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	7.1E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07
43	3.2E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	1.6E+00	4.8E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08
44	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	1.8E+00	4.8E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08
45	4.1E+00	8.5E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	2.0E+00	4.8E-04	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07
46	5.1E+00	8.5E-05	1.0E-03	4.6E-07	1.6E-01	7.0E-01	5.0E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
47	5.8E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	2.7E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
48	6.4E+00	8.5E-05	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
49	7.2E+00	8.5E-05	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07
50	8.1E+00	8.5E-05	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
51	9.0E+00	8.5E-05	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.9E-08	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
52	1.1E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	5.4E+00	4.8E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
53	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	6.0E+00	4.8E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
54	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	6.7E+00	4.8E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07
55	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	7.3E+00	4.8E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07
56	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	7.8E+00	4.8E-04	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07
57	9.6E+00	8.5E-05	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08	8.7E+00	4.8E-04	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07
58	8.5E+00	8.5E-05	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08	8.7E+00	4.8E-04	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07
59	7.5E+00	8.5E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	8.7E+00	4.8E-04	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07
60	3.2E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	1.6E+00	4.8E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.9E-08
61	3.7E+00	8.5E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	1.8E+00	4.8E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08
62	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	2.0E+00	4.8E-04	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07
63	4.8E+00	8.5E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
64	5.4E+00	8.5E-05	1.0E-03	4.9E-07	1.6E-01	7.0E-01	5.4E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
65	8.2E+00	8.5E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
66	9.5E+00	8.5E-05	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
67	1.1E+01	8.5E-05	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
68	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	6.1E+00	4.8E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
69	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	7.1E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07
70	1.7E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	8.1E+00	4.8E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07
71	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	9.0E+00	4.8E-04	1.0E-03	4.5E-06	1.6E-01	7.0E-01	5.0E-07
72	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	9.9E+00	4.8E-04	1.0E-03	4.9E-06	1.6E-01	7.0E-01	5.4E-07
73	3.2E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	1.6E+00	4.8E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.7E-08
74	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	1.7E+00	4.8E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08
75	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	1.9E+00	4.8E-04	1.0E-03	9.5E-07	1.6E-01	7.0E-01	1.0E-07
76	4.8E+00	8.5E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	2.1E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
77	5.7E+00	8.5E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.6E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
78	6.6E+00	8.5E-05	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.5E-08	2.7E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
79	7.8E+00	8.5E-05	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.7E-08	3.1E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
80	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
81	1.9E+01	8.5E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	7.0E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07
82	2.3E+01	8.5E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	8.4E+00	4.8E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.6E-07
83	2.6E+01	8.5E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	1.0E+01	4.8E-04	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.5E-07
84	2.7E+01	8.5E-05	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07	1.2E+01	4.8E-04	1.0E-03	5.9E-06	1.6E-01	7.0E-01	6.5E-07
85	2.6E+01	8.5E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	1.3E+01	4.8E-04	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.3E-07
86	3.1E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	1.5E+00	4.8E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08
87	3.5E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	1.7E+00	4.8E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08
88	4.1E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	1.9E+00	4.8E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
89	4.8E+00	8.5E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.7E-08	2.1E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
90	5.7E+00	8.5E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.6E-08	2.3E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
91	6.8E+00	8.5E-05	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.7E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
92	8.2E+00	8.5E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
93	9.9E+00	8.5E-05	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.8E-08	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
94	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
95	4.8E+01	8.5E-05	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07	1.7E+01	4.8E-04	1.0E-03	8.4E-06	1.6E-01	7.0E-01	9.3E-07
96	4.6E+01	8.5E-05	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07	2.0E+01	4.8E-04	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
97	3.0E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	1.5E+00	4.8E-04	1.0E-03	7.4E-07	1.6E-01	7.0E-01	8.2E-08
98	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	1.6E+00	4.8E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08
99	4.0E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	1.8E+00	4.8E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08
100	6.7E+00	8.5E-05	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08	2.5E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
101	8.2E+00	8.5E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08	2.9E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
102	1.0E+01	8.5E-05	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
103	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
104	2.9E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.5E+00	4.8E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08
105	3.3E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	1.6E+00	4.8E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08
106	3.8E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	1.7E+00	4.8E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08
107	1.0E+01	8.5E-05	1.0E-03	9.0E-07	1.6E-01	7.0E-01	9.9E-08	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
108	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
109	2.8E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	1.4E+00	4.8E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.7E-08
110	3.2E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.2E-08	1.5E+00	4.8E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.5E-08
111	3.7E+00	8.5E-05	1.0E-03	3.3E-07	1.6E-01	7.0E-01	3.6E-08	1.7E+00	4.8E-04	1.0E-03	8.4E-07	1.6E-01	7.0E-01	9.3E-08
112	9.5E+00	8.5E-05	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
113	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
114	2.7E+00	8.5E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.6E-08	1.4E+00	4.8E-04	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.5E-08
115	3.0E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	1.5E+00	4.8E-04	1.0E-03	7.4E-07	1.6E-01	7.0E-01	8.2E-08
116	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	1.6E+00	4.8E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08
117	4.0E+00	8.5E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	1.8E+00	4.8E-04	1.0E-03	8.9E-07	1.6E-01	7.0E-01	9.9E-08
118	8.7E+00	8.5E-05	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08	2.9E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
119	1.1E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07
120	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	1.3E+00	4.8E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
121	2.9E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.4E+00	4.8E-04	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.9E-08
122	3.3E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.3E-08	1.6E+00	4.8E-04	1.0E-03	7.8E-07	1.6E-01	7.0E-01	8.6E-08
123	3.8E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	1.7E+00	4.8E-04	1.0E-03	8.6E-07	1.6E-01	7.0E-01	9.5E-08
124	7.9E+00	8.5E-05	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08	2.7E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
125	1.0E+01	8.5E-05	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07	3.1E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07
126	2.4E+00	8.5E-05	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	1.3E+00	4.8E-04	1.0E-03	6.3E-07	1.6E-01	7.0E-01	7.0E-08
127	2.7E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.7E-08	1.4E+00	4.8E-04	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08
128	3.1E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.5E+00	4.8E-04	1.0E-03	7.5E-07	1.6E-01	7.0E-01	8.3E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
129	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	1.7E+00	4.8E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.1E-08
130	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	1.8E+00	4.8E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07
131	4.9E+00	8.5E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.8E-08	2.0E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
132	5.8E+00	8.5E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	2.3E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07
133	7.2E+00	8.5E-05	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
134	9.0E+00	8.5E-05	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.8E-08	2.9E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07
135	1.2E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
136	2.3E+00	8.5E-05	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.2E+00	4.8E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08
137	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	1.3E+00	4.8E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
138	3.0E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.5E+00	4.8E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	8.0E-08
139	3.4E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	1.6E+00	4.8E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.8E-08
140	3.9E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.8E-08	1.8E+00	4.8E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.7E-08
141	4.5E+00	8.5E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	1.9E+00	4.8E-04	1.0E-03	9.7E-07	1.6E-01	7.0E-01	1.1E-07
142	5.4E+00	8.5E-05	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
143	6.4E+00	8.5E-05	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
144	7.9E+00	8.5E-05	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08	2.7E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
145	9.8E+00	8.5E-05	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.7E-08	3.1E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07
146	2.2E+00	8.5E-05	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	1.2E+00	4.8E-04	1.0E-03	5.9E-07	1.6E-01	7.0E-01	6.6E-08
147	2.5E+00	8.5E-05	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	1.3E+00	4.8E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08
148	2.8E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.7E-08	1.4E+00	4.8E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.7E-08
149	3.2E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.5E+00	4.8E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
150	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	1.7E+00	4.8E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08
151	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	1.8E+00	4.8E-04	1.0E-03	9.2E-07	1.6E-01	7.0E-01	1.0E-07
152	4.8E+00	8.5E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	2.0E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
153	5.7E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	2.3E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07
154	6.8E+00	8.5E-05	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.7E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
155	8.2E+00	8.5E-05	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.0E-08	2.9E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
156	2.1E+00	8.5E-05	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.1E-08	1.2E+00	4.8E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
157	2.4E+00	8.5E-05	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.3E+00	4.8E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08
158	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	1.4E+00	4.8E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
159	2.9E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.5E+00	4.8E-04	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.1E-08
160	3.3E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	1.6E+00	4.8E-04	1.0E-03	8.0E-07	1.6E-01	7.0E-01	8.8E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
161	3.8E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	1.8E+00	4.8E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08
162	4.4E+00	8.5E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	1.9E+00	4.8E-04	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07
163	5.0E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	2.1E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
164	5.8E+00	8.5E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
165	6.9E+00	8.5E-05	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08	2.7E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
166	2.0E+00	8.5E-05	1.0E-03	1.8E-07	1.6E-01	7.0E-01	2.0E-08	1.1E+00	4.8E-04	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08
167	2.2E+00	8.5E-05	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	1.2E+00	4.8E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08
168	2.5E+00	8.5E-05	1.0E-03	2.2E-07	1.6E-01	7.0E-01	2.4E-08	1.3E+00	4.8E-04	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08
169	2.7E+00	8.5E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	1.4E+00	4.8E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08
170	3.1E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	1.5E+00	4.8E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
171	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	1.7E+00	4.8E-04	1.0E-03	8.3E-07	1.6E-01	7.0E-01	9.2E-08
172	3.9E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	1.8E+00	4.8E-04	1.0E-03	9.1E-07	1.6E-01	7.0E-01	1.0E-07
173	4.4E+00	8.5E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	2.0E+00	4.8E-04	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07
174	5.1E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
175	5.8E+00	8.5E-05	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.7E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
176	1.9E+00	8.5E-05	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	1.1E+00	4.8E-04	1.0E-03	5.4E-07	1.6E-01	7.0E-01	6.0E-08
177	2.1E+00	8.5E-05	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.1E-08	1.2E+00	4.8E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.4E-08
178	2.3E+00	8.5E-05	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.3E-08	1.2E+00	4.8E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08
179	2.5E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	1.3E+00	4.8E-04	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08
180	2.8E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	1.5E+00	4.8E-04	1.0E-03	7.3E-07	1.6E-01	7.0E-01	8.0E-08
181	3.1E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.6E+00	4.8E-04	1.0E-03	7.9E-07	1.6E-01	7.0E-01	8.7E-08
182	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	1.7E+00	4.8E-04	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.5E-08
183	3.9E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.9E-08	1.9E+00	4.8E-04	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07
184	4.4E+00	8.5E-05	1.0E-03	3.9E-07	1.6E-01	7.0E-01	4.3E-08	2.0E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
185	4.9E+00	8.5E-05	1.0E-03	4.4E-07	1.6E-01	7.0E-01	4.9E-08	2.3E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
186	5.0E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	4.7E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
187	4.5E+00	8.5E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.5E-08	5.0E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
188	4.1E+00	8.5E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	5.2E+00	4.8E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
189	1.8E+00	8.5E-05	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.8E-08	1.0E+00	4.8E-04	1.0E-03	5.2E-07	1.6E-01	7.0E-01	5.8E-08
190	2.0E+00	8.5E-05	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.9E-08	1.1E+00	4.8E-04	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08
191	2.1E+00	8.5E-05	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.1E-08	1.2E+00	4.8E-04	1.0E-03	6.0E-07	1.6E-01	7.0E-01	6.6E-08
192	2.4E+00	8.5E-05	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.3E+00	4.8E-04	1.0E-03	6.4E-07	1.6E-01	7.0E-01	7.1E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
193	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	1.4E+00	4.8E-04	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.6E-08
194	2.9E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	1.5E+00	4.8E-04	1.0E-03	7.4E-07	1.6E-01	7.0E-01	8.2E-08
195	3.2E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.6E+00	4.8E-04	1.0E-03	8.1E-07	1.6E-01	7.0E-01	8.9E-08
196	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.4E-08	1.8E+00	4.8E-04	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.6E-08
197	4.2E+00	8.5E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	2.1E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
198	5.1E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
199	4.8E+00	8.5E-05	1.0E-03	4.3E-07	1.6E-01	7.0E-01	4.8E-08	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
200	4.6E+00	8.5E-05	1.0E-03	4.1E-07	1.6E-01	7.0E-01	4.5E-08	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
201	4.2E+00	8.5E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
202	3.9E+00	8.5E-05	1.0E-03	3.5E-07	1.6E-01	7.0E-01	3.8E-08	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
203	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.5E-08	4.3E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
204	1.7E+00	8.5E-05	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	1.0E+00	4.8E-04	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08
205	1.8E+00	8.5E-05	1.0E-03	1.6E-07	1.6E-01	7.0E-01	1.8E-08	1.1E+00	4.8E-04	1.0E-03	5.3E-07	1.6E-01	7.0E-01	5.9E-08
206	2.0E+00	8.5E-05	1.0E-03	1.8E-07	1.6E-01	7.0E-01	2.0E-08	1.1E+00	4.8E-04	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08
207	2.2E+00	8.5E-05	1.0E-03	1.9E-07	1.6E-01	7.0E-01	2.2E-08	1.2E+00	4.8E-04	1.0E-03	6.1E-07	1.6E-01	7.0E-01	6.8E-08
208	2.4E+00	8.5E-05	1.0E-03	2.1E-07	1.6E-01	7.0E-01	2.3E-08	1.3E+00	4.8E-04	1.0E-03	6.6E-07	1.6E-01	7.0E-01	7.3E-08
209	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.6E-08	1.4E+00	4.8E-04	1.0E-03	7.0E-07	1.6E-01	7.0E-01	7.8E-08
210	2.8E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.8E-08	1.5E+00	4.8E-04	1.0E-03	7.6E-07	1.6E-01	7.0E-01	8.4E-08
211	3.4E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	1.8E+00	4.8E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08
212	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	1.9E+00	4.8E-04	1.0E-03	9.5E-07	1.6E-01	7.0E-01	1.1E-07
213	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
214	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	2.8E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
215	4.2E+00	8.5E-05	1.0E-03	3.7E-07	1.6E-01	7.0E-01	4.1E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07
216	4.1E+00	8.5E-05	1.0E-03	3.6E-07	1.6E-01	7.0E-01	4.0E-08	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07
217	3.9E+00	8.5E-05	1.0E-03	3.4E-07	1.6E-01	7.0E-01	3.8E-08	3.3E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07
218	3.6E+00	8.5E-05	1.0E-03	3.2E-07	1.6E-01	7.0E-01	3.6E-08	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
219	3.4E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.3E-08	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
220	3.1E+00	8.5E-05	1.0E-03	2.7E-07	1.6E-01	7.0E-01	3.0E-08	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
221	1.6E+00	8.5E-05	1.0E-03	1.4E-07	1.6E-01	7.0E-01	1.6E-08	9.7E-01	4.8E-04	1.0E-03	4.8E-07	1.6E-01	7.0E-01	5.3E-08
222	1.7E+00	8.5E-05	1.0E-03	1.5E-07	1.6E-01	7.0E-01	1.7E-08	1.0E+00	4.8E-04	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08
223	1.9E+00	8.5E-05	1.0E-03	1.7E-07	1.6E-01	7.0E-01	1.8E-08	1.1E+00	4.8E-04	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08
224	2.0E+00	8.5E-05	1.0E-03	1.8E-07	1.6E-01	7.0E-01	2.0E-08	1.2E+00	4.8E-04	1.0E-03	5.8E-07	1.6E-01	7.0E-01	6.5E-08

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
225	2.2E+00	8.5E-05	1.0E-03	2.0E-07	1.6E-01	7.0E-01	2.2E-08	1.3E+00	4.8E-04	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.9E-08
226	2.6E+00	8.5E-05	1.0E-03	2.3E-07	1.6E-01	7.0E-01	2.5E-08	1.4E+00	4.8E-04	1.0E-03	7.2E-07	1.6E-01	7.0E-01	7.9E-08
227	2.8E+00	8.5E-05	1.0E-03	2.5E-07	1.6E-01	7.0E-01	2.7E-08	1.5E+00	4.8E-04	1.0E-03	7.7E-07	1.6E-01	7.0E-01	8.5E-08
228	3.0E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	1.6E+00	4.8E-04	1.0E-03	8.2E-07	1.6E-01	7.0E-01	9.0E-08
229	3.2E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	1.8E+00	4.8E-04	1.0E-03	8.8E-07	1.6E-01	7.0E-01	9.7E-08
230	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	2.3E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07
231	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	2.5E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07
232	3.5E+00	8.5E-05	1.0E-03	3.1E-07	1.6E-01	7.0E-01	3.5E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
233	3.4E+00	8.5E-05	1.0E-03	3.0E-07	1.6E-01	7.0E-01	3.4E-08	2.8E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
234	3.3E+00	8.5E-05	1.0E-03	2.9E-07	1.6E-01	7.0E-01	3.2E-08	2.9E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07
235	3.1E+00	8.5E-05	1.0E-03	2.8E-07	1.6E-01	7.0E-01	3.1E-08	3.0E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
236	2.9E+00	8.5E-05	1.0E-03	2.6E-07	1.6E-01	7.0E-01	2.9E-08	3.1E+00	4.8E-04	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07
237	2.7E+00	8.5E-05	1.0E-03	2.4E-07	1.6E-01	7.0E-01	2.7E-08	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07
238	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	6.1E+00	4.8E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.4E-07
239	1.9E+01	8.5E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07	6.4E+00	4.8E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
240	1.9E+01	8.5E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	6.6E+00	4.8E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07
241	2.0E+01	8.5E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	6.9E+00	4.8E-04	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.8E-07
242	2.1E+01	8.5E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	7.2E+00	4.8E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	3.9E-07
243	2.2E+01	8.5E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	7.5E+00	4.8E-04	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07
244	1.9E+01	8.5E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07	6.2E+00	4.8E-04	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07
245	2.0E+01	8.5E-05	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07	6.4E+00	4.8E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
246	2.0E+01	8.5E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	6.7E+00	4.8E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07
247	2.1E+01	8.5E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	7.0E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.8E-07
248	2.2E+01	8.5E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	7.3E+00	4.8E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07
249	2.3E+01	8.5E-05	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	7.6E+00	4.8E-04	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07
250	2.4E+01	8.5E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	8.0E+00	4.8E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07
251	2.5E+01	8.5E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07	8.3E+00	4.8E-04	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.6E-07
252	2.0E+01	8.5E-05	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07	6.5E+00	4.8E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07
253	2.1E+01	8.5E-05	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07	6.8E+00	4.8E-04	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.7E-07
254	2.3E+01	8.5E-05	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07	7.1E+00	4.8E-04	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07
255	2.4E+01	8.5E-05	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	7.4E+00	4.8E-04	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07
256	2.5E+01	8.5E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	7.8E+00	4.8E-04	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
257	2.6E+01	8.5E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	8.1E+00	4.8E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.5E-07
258	2.7E+01	8.5E-05	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07	8.5E+00	4.8E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07
259	2.8E+01	8.5E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.8E-07	8.9E+00	4.8E-04	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.9E-07
260	3.0E+01	8.5E-05	1.0E-03	2.7E-06	1.6E-01	7.0E-01	2.9E-07	9.4E+00	4.8E-04	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07
261	2.4E+01	8.5E-05	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07	7.1E+00	4.8E-04	1.0E-03	3.6E-06	1.6E-01	7.0E-01	3.9E-07
262	2.5E+01	8.5E-05	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07	7.5E+00	4.8E-04	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.1E-07
263	2.6E+01	8.5E-05	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07	7.9E+00	4.8E-04	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07
264	2.7E+01	8.5E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	8.3E+00	4.8E-04	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07
265	2.9E+01	8.5E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	8.7E+00	4.8E-04	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07
266	3.1E+01	8.5E-05	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07	9.2E+00	4.8E-04	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.0E-07
267	3.2E+01	8.5E-05	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	9.7E+00	4.8E-04	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07
268	3.4E+01	8.5E-05	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07	1.0E+01	4.8E-04	1.0E-03	5.1E-06	1.6E-01	7.0E-01	5.6E-07
269	3.5E+01	8.5E-05	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07	1.1E+01	4.8E-04	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.9E-07
270	3.7E+01	8.5E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07	1.1E+01	4.8E-04	1.0E-03	5.6E-06	1.6E-01	7.0E-01	6.2E-07
271	2.8E+01	8.5E-05	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07	8.0E+00	4.8E-04	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07
272	2.9E+01	8.5E-05	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.9E-07	8.4E+00	4.8E-04	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.6E-07
273	3.1E+01	8.5E-05	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.0E-07	8.8E+00	4.8E-04	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.9E-07
274	3.3E+01	8.5E-05	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07	9.4E+00	4.8E-04	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07
275	3.5E+01	8.5E-05	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07	9.9E+00	4.8E-04	1.0E-03	4.9E-06	1.6E-01	7.0E-01	5.5E-07
276	3.7E+01	8.5E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.6E-07	1.0E+01	4.8E-04	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.8E-07
277	3.9E+01	8.5E-05	1.0E-03	3.4E-06	1.6E-01	7.0E-01	3.8E-07	1.1E+01	4.8E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
278	4.1E+01	8.5E-05	1.0E-03	3.6E-06	1.6E-01	7.0E-01	4.0E-07	1.2E+01	4.8E-04	1.0E-03	5.9E-06	1.6E-01	7.0E-01	6.5E-07
279	4.3E+01	8.5E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.2E+01	4.8E-04	1.0E-03	6.2E-06	1.6E-01	7.0E-01	6.9E-07
280	4.5E+01	8.5E-05	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07	1.3E+01	4.8E-04	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.3E-07
281	4.8E+01	8.5E-05	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07	1.4E+01	4.8E-04	1.0E-03	7.0E-06	1.6E-01	7.0E-01	7.8E-07
282	3.3E+01	8.5E-05	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.3E-07	9.0E+00	4.8E-04	1.0E-03	4.5E-06	1.6E-01	7.0E-01	5.0E-07
283	3.5E+01	8.5E-05	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.5E-07	9.5E+00	4.8E-04	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07
284	3.7E+01	8.5E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07	1.0E+01	4.8E-04	1.0E-03	5.0E-06	1.6E-01	7.0E-01	5.6E-07
285	4.0E+01	8.5E-05	1.0E-03	3.5E-06	1.6E-01	7.0E-01	3.9E-07	1.1E+01	4.8E-04	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.9E-07
286	4.2E+01	8.5E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.1E+01	4.8E-04	1.0E-03	5.7E-06	1.6E-01	7.0E-01	6.3E-07
287	4.5E+01	8.5E-05	1.0E-03	4.0E-06	1.6E-01	7.0E-01	4.4E-07	1.2E+01	4.8E-04	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.7E-07
288	4.8E+01	8.5E-05	1.0E-03	4.2E-06	1.6E-01	7.0E-01	4.7E-07	1.3E+01	4.8E-04	1.0E-03	6.5E-06	1.6E-01	7.0E-01	7.2E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
289	5.1E+01	8.5E-05	1.0E-03	4.5E-06	1.6E-01	7.0E-01	5.0E-07	1.4E+01	4.8E-04	1.0E-03	7.0E-06	1.6E-01	7.0E-01	7.7E-07
290	5.4E+01	8.5E-05	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07	1.5E+01	4.8E-04	1.0E-03	7.4E-06	1.6E-01	7.0E-01	8.2E-07
291	5.7E+01	8.5E-05	1.0E-03	5.1E-06	1.6E-01	7.0E-01	5.6E-07	1.6E+01	4.8E-04	1.0E-03	8.0E-06	1.6E-01	7.0E-01	8.8E-07
292	5.9E+01	8.5E-05	1.0E-03	5.3E-06	1.6E-01	7.0E-01	5.9E-07	1.7E+01	4.8E-04	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.5E-07
293	4.3E+01	8.5E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.1E+01	4.8E-04	1.0E-03	5.5E-06	1.6E-01	7.0E-01	6.1E-07
294	4.6E+01	8.5E-05	1.0E-03	4.1E-06	1.6E-01	7.0E-01	4.5E-07	1.2E+01	4.8E-04	1.0E-03	5.9E-06	1.6E-01	7.0E-01	6.5E-07
295	4.9E+01	8.5E-05	1.0E-03	4.4E-06	1.6E-01	7.0E-01	4.9E-07	1.3E+01	4.8E-04	1.0E-03	6.3E-06	1.6E-01	7.0E-01	6.9E-07
296	5.3E+01	8.5E-05	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.2E-07	1.4E+01	4.8E-04	1.0E-03	6.8E-06	1.6E-01	7.0E-01	7.5E-07
297	5.7E+01	8.5E-05	1.0E-03	5.1E-06	1.6E-01	7.0E-01	5.6E-07	1.5E+01	4.8E-04	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.1E-07
298	6.1E+01	8.5E-05	1.0E-03	5.4E-06	1.6E-01	7.0E-01	6.0E-07	1.6E+01	4.8E-04	1.0E-03	7.9E-06	1.6E-01	7.0E-01	8.7E-07
299	6.5E+01	8.5E-05	1.0E-03	5.8E-06	1.6E-01	7.0E-01	6.4E-07	1.7E+01	4.8E-04	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.4E-07
300	6.9E+01	8.5E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.8E-07	1.8E+01	4.8E-04	1.0E-03	9.2E-06	1.6E-01	7.0E-01	1.0E-06
301	7.3E+01	8.5E-05	1.0E-03	6.5E-06	1.6E-01	7.0E-01	7.2E-07	2.0E+01	4.8E-04	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06
302	7.6E+01	8.5E-05	1.0E-03	6.8E-06	1.6E-01	7.0E-01	7.5E-07	2.2E+01	4.8E-04	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06
303	7.9E+01	8.5E-05	1.0E-03	7.1E-06	1.6E-01	7.0E-01	7.8E-07	2.3E+01	4.8E-04	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06
304	5.4E+01	8.5E-05	1.0E-03	4.8E-06	1.6E-01	7.0E-01	5.3E-07	1.3E+01	4.8E-04	1.0E-03	6.5E-06	1.6E-01	7.0E-01	7.1E-07
305	5.8E+01	8.5E-05	1.0E-03	5.2E-06	1.6E-01	7.0E-01	5.8E-07	1.4E+01	4.8E-04	1.0E-03	7.0E-06	1.6E-01	7.0E-01	7.7E-07
306	6.3E+01	8.5E-05	1.0E-03	5.7E-06	1.6E-01	7.0E-01	6.3E-07	1.5E+01	4.8E-04	1.0E-03	7.6E-06	1.6E-01	7.0E-01	8.4E-07
307	6.9E+01	8.5E-05	1.0E-03	6.1E-06	1.6E-01	7.0E-01	6.8E-07	1.7E+01	4.8E-04	1.0E-03	8.3E-06	1.6E-01	7.0E-01	9.2E-07
308	7.4E+01	8.5E-05	1.0E-03	6.6E-06	1.6E-01	7.0E-01	7.3E-07	1.8E+01	4.8E-04	1.0E-03	9.0E-06	1.6E-01	7.0E-01	1.0E-06
309	8.0E+01	8.5E-05	1.0E-03	7.2E-06	1.6E-01	7.0E-01	7.9E-07	2.0E+01	4.8E-04	1.0E-03	9.9E-06	1.6E-01	7.0E-01	1.1E-06
310	8.7E+01	8.5E-05	1.0E-03	7.7E-06	1.6E-01	7.0E-01	8.5E-07	2.2E+01	4.8E-04	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06
311	9.2E+01	8.5E-05	1.0E-03	8.2E-06	1.6E-01	7.0E-01	9.1E-07	2.4E+01	4.8E-04	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06
312	9.7E+01	8.5E-05	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07	2.6E+01	4.8E-04	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.5E-06
313	1.0E+02	8.5E-05	1.0E-03	8.9E-06	1.6E-01	7.0E-01	9.9E-07	2.9E+01	4.8E-04	1.0E-03	1.4E-05	1.6E-01	7.0E-01	1.6E-06
314	1.0E+02	8.5E-05	1.0E-03	9.0E-06	1.6E-01	7.0E-01	9.9E-07	3.1E+01	4.8E-04	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.7E-06
315	9.7E+01	8.5E-05	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07	3.3E+01	4.8E-04	1.0E-03	1.6E-05	1.6E-01	7.0E-01	1.8E-06
316	7.8E+01	8.5E-05	1.0E-03	6.9E-06	1.6E-01	7.0E-01	7.7E-07	1.7E+01	4.8E-04	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.6E-07
317	8.6E+01	8.5E-05	1.0E-03	7.7E-06	1.6E-01	7.0E-01	8.5E-07	1.9E+01	4.8E-04	1.0E-03	9.6E-06	1.6E-01	7.0E-01	1.1E-06
318	9.5E+01	8.5E-05	1.0E-03	8.4E-06	1.6E-01	7.0E-01	9.3E-07	2.1E+01	4.8E-04	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.2E-06
319	1.0E+02	8.5E-05	1.0E-03	9.3E-06	1.6E-01	7.0E-01	1.0E-06	2.4E+01	4.8E-04	1.0E-03	1.2E-05	1.6E-01	7.0E-01	1.3E-06
320	1.1E+02	8.5E-05	1.0E-03	1.0E-05	1.6E-01	7.0E-01	1.1E-06	2.7E+01	4.8E-04	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.5E-06

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
321	3.7E+01	8.5E-05	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07	3.0E+01	4.8E-04	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06
322	3.6E+01	8.5E-05	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.6E-07	1.6E+01	4.8E-04	1.0E-03	7.9E-06	1.6E-01	7.0E-01	8.7E-07
323	3.5E+01	8.5E-05	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07	1.7E+01	4.8E-04	1.0E-03	8.5E-06	1.6E-01	7.0E-01	9.4E-07
324	3.4E+01	8.5E-05	1.0E-03	3.1E-06	1.6E-01	7.0E-01	3.4E-07	1.9E+01	4.8E-04	1.0E-03	9.2E-06	1.6E-01	7.0E-01	1.0E-06
325	1.1E+02	8.5E-05	1.0E-03	9.9E-06	1.6E-01	7.0E-01	1.1E-06	2.3E+01	4.8E-04	1.0E-03	1.1E-05	1.6E-01	7.0E-01	1.3E-06
326	4.4E+01	8.5E-05	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07	2.6E+01	4.8E-04	1.0E-03	1.3E-05	1.6E-01	7.0E-01	1.4E-06
327	4.4E+01	8.5E-05	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07	3.0E+01	4.8E-04	1.0E-03	1.5E-05	1.6E-01	7.0E-01	1.7E-06
328	4.3E+01	8.5E-05	1.0E-03	3.9E-06	1.6E-01	7.0E-01	4.3E-07	1.5E+01	4.8E-04	1.0E-03	7.6E-06	1.6E-01	7.0E-01	8.4E-07
329	4.2E+01	8.5E-05	1.0E-03	3.8E-06	1.6E-01	7.0E-01	4.2E-07	1.7E+01	4.8E-04	1.0E-03	8.3E-06	1.6E-01	7.0E-01	9.2E-07
330	4.1E+01	8.5E-05	1.0E-03	3.7E-06	1.6E-01	7.0E-01	4.0E-07	1.8E+01	4.8E-04	1.0E-03	9.1E-06	1.6E-01	7.0E-01	1.0E-06
331	5.2E+01	8.5E-05	1.0E-03	4.7E-06	1.6E-01	7.0E-01	5.1E-07	1.5E+01	4.8E-04	1.0E-03	7.3E-06	1.6E-01	7.0E-01	8.0E-07
332	5.2E+01	8.5E-05	1.0E-03	4.6E-06	1.6E-01	7.0E-01	5.1E-07	1.6E+01	4.8E-04	1.0E-03	7.9E-06	1.6E-01	7.0E-01	8.8E-07
333	5.0E+01	8.5E-05	1.0E-03	4.5E-06	1.6E-01	7.0E-01	5.0E-07	1.8E+01	4.8E-04	1.0E-03	8.7E-06	1.6E-01	7.0E-01	9.7E-07
334	4.8E+01	8.5E-05	1.0E-03	4.3E-06	1.6E-01	7.0E-01	4.8E-07	1.9E+01	4.8E-04	1.0E-03	9.7E-06	1.6E-01	7.0E-01	1.1E-06
335	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
336	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
337	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
338	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.9E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
339	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
340	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
341	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
342	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.9E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
343	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
344	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
345	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
346	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	5.0E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
347	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
348	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
349	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.7E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
350	1.6E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.9E+00	4.8E-04	1.0E-03	2.5E-06	1.6E-01	7.0E-01	2.7E-07
351	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
352	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.5E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
353	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.7E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
354	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.9E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
355	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.3E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
356	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.5E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
357	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.7E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
358	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.9E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
359	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
360	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.5E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
361	1.6E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.7E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
362	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
363	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
364	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
365	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
366	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
367	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
368	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
369	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
370	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
371	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
372	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
373	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.5E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
374	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.7E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
375	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
376	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
377	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.5E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
378	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.7E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.6E-07
379	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
380	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
381	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
382	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
383	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
384	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
385	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
386	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
387	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
388	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
389	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.3E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
390	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.5E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.5E-07
391	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
392	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
393	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
394	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
395	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.2E-07
396	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
397	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
398	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
399	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
400	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
401	1.6E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.1E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
402	1.8E+01	8.5E-05	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.7E-07	4.3E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.4E-07
403	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
404	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	3.9E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
405	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
406	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
407	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	3.7E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
408	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
409	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
410	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.7E-07	4.2E+00	4.8E-04	1.0E-03	2.1E-06	1.6E-01	7.0E-01	2.3E-07
411	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.7E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
412	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
413	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
414	1.7E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.3E-07
415	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
416	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
417	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.2E-07
418	1.6E+01	8.5E-05	1.0E-03	1.5E-06	1.6E-01	7.0E-01	1.6E-07	4.1E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
419	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
420	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	3.7E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.0E-07
421	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
422	1.6E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.6E-07	4.0E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
423	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.5E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
424	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.7E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
425	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
426	1.5E+01	8.5E-05	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07	3.9E+00	4.8E-04	1.0E-03	2.0E-06	1.6E-01	7.0E-01	2.2E-07
427	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
428	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
429	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.7E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
430	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07	3.9E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
431	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
432	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
433	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.7E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
434	1.5E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.8E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
435	1.2E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.2E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
436	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
437	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
438	1.4E+01	8.5E-05	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07	3.7E+00	4.8E-04	1.0E-03	1.9E-06	1.6E-01	7.0E-01	2.1E-07
439	1.1E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.3E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07
440	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
441	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
442	1.4E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.4E-07	3.7E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
443	1.1E+01	8.5E-05	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07	3.3E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
444	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.4E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
445	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
446	1.3E+01	8.5E-05	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
447	1.1E+01	8.5E-05	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07	3.2E+00	4.8E-04	1.0E-03	1.6E-06	1.6E-01	7.0E-01	1.8E-07
448	1.1E+01	8.5E-05	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07	3.3E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.8E-07

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated Residential

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
449	1.2E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07	3.5E+00	4.8E-04	1.0E-03	1.7E-06	1.6E-01	7.0E-01	1.9E-07
450	1.3E+01	8.5E-05	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.3E-07	3.6E+00	4.8E-04	1.0E-03	1.8E-06	1.6E-01	7.0E-01	2.0E-07
451	6.3E+00	8.5E-05	1.0E-03	5.6E-07	1.6E-01	7.0E-01	6.2E-08	4.4E+00	4.8E-04	1.0E-03	2.2E-06	1.6E-01	7.0E-01	2.4E-07
452	6.2E+00	8.5E-05	1.0E-03	5.5E-07	1.6E-01	7.0E-01	6.1E-08	4.6E+00	4.8E-04	1.0E-03	2.3E-06	1.6E-01	7.0E-01	2.5E-07
453	6.0E+00	8.5E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	5.9E-08	4.8E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.6E-07
454	5.8E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.7E-08	4.9E+00	4.8E-04	1.0E-03	2.4E-06	1.6E-01	7.0E-01	2.7E-07
455	7.8E+00	8.5E-05	1.0E-03	6.9E-07	1.6E-01	7.0E-01	7.7E-08	5.1E+00	4.8E-04	1.0E-03	2.6E-06	1.6E-01	7.0E-01	2.8E-07
456	7.6E+00	8.5E-05	1.0E-03	6.8E-07	1.6E-01	7.0E-01	7.5E-08	5.4E+00	4.8E-04	1.0E-03	2.7E-06	1.6E-01	7.0E-01	3.0E-07
457	7.3E+00	8.5E-05	1.0E-03	6.5E-07	1.6E-01	7.0E-01	7.2E-08	5.6E+00	4.8E-04	1.0E-03	2.8E-06	1.6E-01	7.0E-01	3.1E-07
458	6.9E+00	8.5E-05	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.8E-08	5.8E+00	4.8E-04	1.0E-03	2.9E-06	1.6E-01	7.0E-01	3.2E-07
459	9.8E+00	8.5E-05	1.0E-03	8.7E-07	1.6E-01	7.0E-01	9.7E-08	6.0E+00	4.8E-04	1.0E-03	3.0E-06	1.6E-01	7.0E-01	3.3E-07
460	9.6E+00	8.5E-05	1.0E-03	8.5E-07	1.6E-01	7.0E-01	9.4E-08	6.4E+00	4.8E-04	1.0E-03	3.2E-06	1.6E-01	7.0E-01	3.5E-07
461	9.1E+00	8.5E-05	1.0E-03	8.1E-07	1.6E-01	7.0E-01	9.0E-08	6.7E+00	4.8E-04	1.0E-03	3.3E-06	1.6E-01	7.0E-01	3.7E-07
462	4.7E+00	8.5E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.6E-08	2.0E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
463	5.6E+00	8.5E-05	1.0E-03	5.0E-07	1.6E-01	7.0E-01	5.5E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
464	4.5E+00	8.5E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	1.9E+00	4.8E-04	1.0E-03	9.6E-07	1.6E-01	7.0E-01	1.1E-07
465	5.3E+00	8.5E-05	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.3E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
466	6.4E+00	8.5E-05	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
467	7.9E+00	8.5E-05	1.0E-03	7.1E-07	1.6E-01	7.0E-01	7.8E-08	2.8E+00	4.8E-04	1.0E-03	1.4E-06	1.6E-01	7.0E-01	1.5E-07
468	4.3E+00	8.5E-05	1.0E-03	3.8E-07	1.6E-01	7.0E-01	4.2E-08	1.9E+00	4.8E-04	1.0E-03	9.3E-07	1.6E-01	7.0E-01	1.0E-07
469	5.0E+00	8.5E-05	1.0E-03	4.5E-07	1.6E-01	7.0E-01	5.0E-08	2.1E+00	4.8E-04	1.0E-03	1.0E-06	1.6E-01	7.0E-01	1.1E-07
470	6.1E+00	8.5E-05	1.0E-03	5.4E-07	1.6E-01	7.0E-01	6.0E-08	2.3E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07
471	7.5E+00	8.5E-05	1.0E-03	6.7E-07	1.6E-01	7.0E-01	7.4E-08	2.6E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.5E-07
472	4.8E+00	8.5E-05	1.0E-03	4.2E-07	1.6E-01	7.0E-01	4.7E-08	2.0E+00	4.8E-04	1.0E-03	9.9E-07	1.6E-01	7.0E-01	1.1E-07
473	5.7E+00	8.5E-05	1.0E-03	5.1E-07	1.6E-01	7.0E-01	5.6E-08	2.2E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
474	6.9E+00	8.5E-05	1.0E-03	6.2E-07	1.6E-01	7.0E-01	6.8E-08	2.5E+00	4.8E-04	1.0E-03	1.3E-06	1.6E-01	7.0E-01	1.4E-07
475	4.4E+00	8.5E-05	1.0E-03	4.0E-07	1.6E-01	7.0E-01	4.4E-08	1.9E+00	4.8E-04	1.0E-03	9.5E-07	1.6E-01	7.0E-01	1.1E-07
476	5.3E+00	8.5E-05	1.0E-03	4.7E-07	1.6E-01	7.0E-01	5.2E-08	2.1E+00	4.8E-04	1.0E-03	1.1E-06	1.6E-01	7.0E-01	1.2E-07
477	6.4E+00	8.5E-05	1.0E-03	5.7E-07	1.6E-01	7.0E-01	6.3E-08	2.4E+00	4.8E-04	1.0E-03	1.2E-06	1.6E-01	7.0E-01	1.3E-07

5. Risk by Construction Phase

g. Risk From Arch. Coating - Mitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	5.5E-05	1.0E-03	1.7E-08	1.6E-01	6.6E-01	1.7E-09	3.2E-06	1.6E-05
2	3.0E-01	5.5E-05	1.0E-03	1.7E-08	1.6E-01	6.6E-01	1.8E-09	3.3E-06	1.7E-05
3	3.1E-01	5.5E-05	1.0E-03	1.8E-08	1.6E-01	6.6E-01	1.9E-09	3.4E-06	1.7E-05
4	3.2E-01	5.5E-05	1.0E-03	1.8E-08	1.6E-01	6.6E-01	1.9E-09	3.5E-06	1.8E-05
5	3.3E-01	5.5E-05	1.0E-03	1.9E-08	1.6E-01	6.6E-01	2.0E-09	3.6E-06	1.8E-05
6	3.4E-01	5.5E-05	1.0E-03	2.0E-08	1.6E-01	6.6E-01	2.0E-09	3.7E-06	1.9E-05
7	3.5E-01	5.5E-05	1.0E-03	2.0E-08	1.6E-01	6.6E-01	2.1E-09	3.8E-06	1.9E-05
8	3.6E-01	5.5E-05	1.0E-03	2.1E-08	1.6E-01	6.6E-01	2.1E-09	3.9E-06	2.0E-05
9	3.7E-01	5.5E-05	1.0E-03	2.1E-08	1.6E-01	6.6E-01	2.2E-09	4.1E-06	2.0E-05
10	3.8E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.3E-09	4.2E-06	2.1E-05
11	4.0E-01	5.5E-05	1.0E-03	2.3E-08	1.6E-01	6.6E-01	2.4E-09	4.4E-06	2.2E-05
12	4.1E-01	5.5E-05	1.0E-03	2.4E-08	1.6E-01	6.6E-01	2.5E-09	4.6E-06	2.3E-05
13	4.3E-01	5.5E-05	1.0E-03	2.5E-08	1.6E-01	6.6E-01	2.5E-09	4.7E-06	2.4E-05
14	4.3E-01	5.5E-05	1.0E-03	2.5E-08	1.6E-01	6.6E-01	2.6E-09	4.8E-06	2.4E-05
15	4.3E-01	5.5E-05	1.0E-03	2.5E-08	1.6E-01	6.6E-01	2.6E-09	4.8E-06	2.4E-05
16	4.2E-01	5.5E-05	1.0E-03	2.4E-08	1.6E-01	6.6E-01	2.5E-09	4.7E-06	2.3E-05
17	3.2E-01	5.5E-05	1.0E-03	1.8E-08	1.6E-01	6.6E-01	1.9E-09	3.5E-06	1.8E-05
18	3.4E-01	5.5E-05	1.0E-03	2.0E-08	1.6E-01	6.6E-01	2.0E-09	3.7E-06	1.9E-05
19	3.6E-01	5.5E-05	1.0E-03	2.1E-08	1.6E-01	6.6E-01	2.1E-09	3.9E-06	2.0E-05
20	3.7E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.2E-09	4.1E-06	2.1E-05
21	3.9E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.3E-09	4.3E-06	2.1E-05
22	4.0E-01	5.5E-05	1.0E-03	2.3E-08	1.6E-01	6.6E-01	2.4E-09	4.4E-06	2.2E-05
23	5.2E-01	5.5E-05	1.0E-03	3.0E-08	1.6E-01	6.6E-01	3.1E-09	5.8E-06	2.9E-05
24	5.3E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	5.9E-06	3.0E-05
25	5.3E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	5.9E-06	2.9E-05
26	5.2E-01	5.5E-05	1.0E-03	3.0E-08	1.6E-01	6.6E-01	3.1E-09	5.7E-06	2.9E-05
27	5.0E-01	5.5E-05	1.0E-03	2.9E-08	1.6E-01	6.6E-01	3.0E-09	5.5E-06	2.8E-05
28	3.5E-01	5.5E-05	1.0E-03	2.0E-08	1.6E-01	6.6E-01	2.1E-09	3.9E-06	1.9E-05
29	4.1E-01	5.5E-05	1.0E-03	2.4E-08	1.6E-01	6.6E-01	2.4E-09	4.5E-06	2.3E-05
30	4.3E-01	5.5E-05	1.0E-03	2.5E-08	1.6E-01	6.6E-01	2.6E-09	4.8E-06	2.4E-05
31	4.6E-01	5.5E-05	1.0E-03	2.7E-08	1.6E-01	6.6E-01	2.7E-09	5.1E-06	2.5E-05
32	4.8E-01	5.5E-05	1.0E-03	2.8E-08	1.6E-01	6.6E-01	2.9E-09	5.4E-06	2.7E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	5.5E-05	1.0E-03	2.9E-08	1.6E-01	6.6E-01	3.0E-09	5.6E-06	2.8E-05
34	5.2E-01	5.5E-05	1.0E-03	3.0E-08	1.6E-01	6.6E-01	3.1E-09	5.8E-06	2.9E-05
35	5.5E-01	5.5E-05	1.0E-03	3.2E-08	1.6E-01	6.6E-01	3.3E-09	6.0E-06	3.0E-05
36	5.7E-01	5.5E-05	1.0E-03	3.3E-08	1.6E-01	6.6E-01	3.4E-09	6.3E-06	3.2E-05
37	6.3E-01	5.5E-05	1.0E-03	3.7E-08	1.6E-01	6.6E-01	3.8E-09	7.0E-06	3.5E-05
38	6.6E-01	5.5E-05	1.0E-03	3.8E-08	1.6E-01	6.6E-01	3.9E-09	7.3E-06	3.6E-05
39	6.7E-01	5.5E-05	1.0E-03	3.9E-08	1.6E-01	6.6E-01	4.0E-09	7.5E-06	3.7E-05
40	6.5E-01	5.5E-05	1.0E-03	3.8E-08	1.6E-01	6.6E-01	3.9E-09	7.2E-06	3.6E-05
41	6.2E-01	5.5E-05	1.0E-03	3.6E-08	1.6E-01	6.6E-01	3.7E-09	6.9E-06	3.5E-05
42	5.9E-01	5.5E-05	1.0E-03	3.4E-08	1.6E-01	6.6E-01	3.5E-09	6.6E-06	3.3E-05
43	3.9E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.3E-09	4.3E-06	2.1E-05
44	4.3E-01	5.5E-05	1.0E-03	2.5E-08	1.6E-01	6.6E-01	2.6E-09	4.7E-06	2.4E-05
45	4.7E-01	5.5E-05	1.0E-03	2.7E-08	1.6E-01	6.6E-01	2.8E-09	5.2E-06	2.6E-05
46	5.5E-01	5.5E-05	1.0E-03	3.2E-08	1.6E-01	6.6E-01	3.3E-09	6.1E-06	3.0E-05
47	5.9E-01	5.5E-05	1.0E-03	3.4E-08	1.6E-01	6.6E-01	3.5E-09	6.5E-06	3.3E-05
48	6.2E-01	5.5E-05	1.0E-03	3.6E-08	1.6E-01	6.6E-01	3.7E-09	6.9E-06	3.5E-05
49	6.5E-01	5.5E-05	1.0E-03	3.8E-08	1.6E-01	6.6E-01	3.9E-09	7.2E-06	3.6E-05
50	6.9E-01	5.5E-05	1.0E-03	4.0E-08	1.6E-01	6.6E-01	4.1E-09	7.7E-06	3.8E-05
51	7.3E-01	5.5E-05	1.0E-03	4.2E-08	1.6E-01	6.6E-01	4.4E-09	8.1E-06	4.0E-05
52	8.2E-01	5.5E-05	1.0E-03	4.8E-08	1.6E-01	6.6E-01	4.9E-09	9.1E-06	4.6E-05
53	8.6E-01	5.5E-05	1.0E-03	5.0E-08	1.6E-01	6.6E-01	5.1E-09	9.5E-06	4.7E-05
54	8.8E-01	5.5E-05	1.0E-03	5.1E-08	1.6E-01	6.6E-01	5.3E-09	9.7E-06	4.9E-05
55	8.9E-01	5.5E-05	1.0E-03	5.1E-08	1.6E-01	6.6E-01	5.3E-09	9.9E-06	4.9E-05
56	8.9E-01	5.5E-05	1.0E-03	5.2E-08	1.6E-01	6.6E-01	5.3E-09	9.9E-06	4.9E-05
57	8.1E-01	5.5E-05	1.0E-03	4.7E-08	1.6E-01	6.6E-01	4.8E-09	8.9E-06	4.5E-05
58	7.6E-01	5.5E-05	1.0E-03	4.4E-08	1.6E-01	6.6E-01	4.5E-09	8.4E-06	4.2E-05
59	7.0E-01	5.5E-05	1.0E-03	4.1E-08	1.6E-01	6.6E-01	4.2E-09	7.8E-06	3.9E-05
60	4.2E-01	5.5E-05	1.0E-03	2.4E-08	1.6E-01	6.6E-01	2.5E-09	4.6E-06	2.3E-05
61	4.7E-01	5.5E-05	1.0E-03	2.7E-08	1.6E-01	6.6E-01	2.8E-09	5.2E-06	2.6E-05
62	5.3E-01	5.5E-05	1.0E-03	3.0E-08	1.6E-01	6.6E-01	3.1E-09	5.8E-06	2.9E-05
63	5.9E-01	5.5E-05	1.0E-03	3.4E-08	1.6E-01	6.6E-01	3.5E-09	6.5E-06	3.3E-05
64	6.6E-01	5.5E-05	1.0E-03	3.8E-08	1.6E-01	6.6E-01	3.9E-09	7.3E-06	3.6E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	5.5E-05	1.0E-03	4.9E-08	1.6E-01	6.6E-01	5.0E-09	9.3E-06	4.7E-05
66	9.1E-01	5.5E-05	1.0E-03	5.3E-08	1.6E-01	6.6E-01	5.4E-09	1.0E-05	5.0E-05
67	9.7E-01	5.5E-05	1.0E-03	5.6E-08	1.6E-01	6.6E-01	5.8E-09	1.1E-05	5.4E-05
68	1.1E+00	5.5E-05	1.0E-03	6.5E-08	1.6E-01	6.6E-01	6.7E-09	1.2E-05	6.2E-05
69	1.2E+00	5.5E-05	1.0E-03	6.8E-08	1.6E-01	6.6E-01	7.0E-09	1.3E-05	6.5E-05
70	1.2E+00	5.5E-05	1.0E-03	7.0E-08	1.6E-01	6.6E-01	7.2E-09	1.3E-05	6.7E-05
71	1.2E+00	5.5E-05	1.0E-03	7.0E-08	1.6E-01	6.6E-01	7.2E-09	1.3E-05	6.7E-05
72	1.2E+00	5.5E-05	1.0E-03	6.9E-08	1.6E-01	6.6E-01	7.2E-09	1.3E-05	6.6E-05
73	4.4E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.6E-09	4.9E-06	2.5E-05
74	5.0E-01	5.5E-05	1.0E-03	2.9E-08	1.6E-01	6.6E-01	3.0E-09	5.6E-06	2.8E-05
75	5.8E-01	5.5E-05	1.0E-03	3.3E-08	1.6E-01	6.6E-01	3.5E-09	6.4E-06	3.2E-05
76	6.7E-01	5.5E-05	1.0E-03	3.9E-08	1.6E-01	6.6E-01	4.0E-09	7.4E-06	3.7E-05
77	7.7E-01	5.5E-05	1.0E-03	4.5E-08	1.6E-01	6.6E-01	4.6E-09	8.6E-06	4.3E-05
78	8.8E-01	5.5E-05	1.0E-03	5.1E-08	1.6E-01	6.6E-01	5.3E-09	9.8E-06	4.9E-05
79	1.0E+00	5.5E-05	1.0E-03	5.8E-08	1.6E-01	6.6E-01	6.0E-09	1.1E-05	5.6E-05
80	1.4E+00	5.5E-05	1.0E-03	7.9E-08	1.6E-01	6.6E-01	8.2E-09	1.5E-05	7.6E-05
81	1.6E+00	5.5E-05	1.0E-03	9.4E-08	1.6E-01	6.6E-01	9.7E-09	1.8E-05	9.0E-05
82	1.7E+00	5.5E-05	1.0E-03	9.9E-08	1.6E-01	6.6E-01	1.0E-08	1.9E-05	9.5E-05
83	1.7E+00	5.5E-05	1.0E-03	1.0E-07	1.6E-01	6.6E-01	1.0E-08	1.9E-05	9.6E-05
84	1.7E+00	5.5E-05	1.0E-03	1.0E-07	1.6E-01	6.6E-01	1.0E-08	1.9E-05	9.6E-05
85	1.7E+00	5.5E-05	1.0E-03	9.6E-08	1.6E-01	6.6E-01	1.0E-08	1.8E-05	9.2E-05
86	4.5E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	4.9E-06	2.5E-05
87	5.2E-01	5.5E-05	1.0E-03	3.0E-08	1.6E-01	6.6E-01	3.1E-09	5.8E-06	2.9E-05
88	6.2E-01	5.5E-05	1.0E-03	3.6E-08	1.6E-01	6.6E-01	3.7E-09	6.9E-06	3.4E-05
89	7.4E-01	5.5E-05	1.0E-03	4.3E-08	1.6E-01	6.6E-01	4.4E-09	8.2E-06	4.1E-05
90	8.8E-01	5.5E-05	1.0E-03	5.1E-08	1.6E-01	6.6E-01	5.3E-09	9.8E-06	4.9E-05
91	1.1E+00	5.5E-05	1.0E-03	6.1E-08	1.6E-01	6.6E-01	6.3E-09	1.2E-05	5.9E-05
92	1.3E+00	5.5E-05	1.0E-03	7.4E-08	1.6E-01	6.6E-01	7.6E-09	1.4E-05	7.0E-05
93	1.5E+00	5.5E-05	1.0E-03	8.7E-08	1.6E-01	6.6E-01	9.0E-09	1.7E-05	8.4E-05
94	1.8E+00	5.5E-05	1.0E-03	1.0E-07	1.6E-01	6.6E-01	1.1E-08	2.0E-05	9.8E-05
95	2.6E+00	5.5E-05	1.0E-03	1.5E-07	1.6E-01	6.6E-01	1.6E-08	2.9E-05	1.5E-04
96	2.4E+00	5.5E-05	1.0E-03	1.4E-07	1.6E-01	6.6E-01	1.4E-08	2.7E-05	1.3E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	5.1E-06	2.5E-05
98	5.4E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	5.9E-06	3.0E-05
99	6.4E-01	5.5E-05	1.0E-03	3.7E-08	1.6E-01	6.6E-01	3.8E-09	7.1E-06	3.5E-05
100	1.2E+00	5.5E-05	1.0E-03	7.0E-08	1.6E-01	6.6E-01	7.3E-09	1.3E-05	6.7E-05
101	1.5E+00	5.5E-05	1.0E-03	9.0E-08	1.6E-01	6.6E-01	9.3E-09	1.7E-05	8.6E-05
102	2.0E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.2E-08	2.2E-05	1.1E-04
103	2.6E+00	5.5E-05	1.0E-03	1.5E-07	1.6E-01	6.6E-01	1.6E-08	2.9E-05	1.5E-04
104	4.5E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	4.9E-06	2.5E-05
105	5.3E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	5.9E-06	2.9E-05
106	6.4E-01	5.5E-05	1.0E-03	3.7E-08	1.6E-01	6.6E-01	3.8E-09	7.1E-06	3.5E-05
107	2.5E+00	5.5E-05	1.0E-03	1.4E-07	1.6E-01	6.6E-01	1.5E-08	2.8E-05	1.4E-04
108	3.8E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.3E-08	4.2E-05	2.1E-04
109	4.3E-01	5.5E-05	1.0E-03	2.5E-08	1.6E-01	6.6E-01	2.6E-09	4.7E-06	2.4E-05
110	5.1E-01	5.5E-05	1.0E-03	2.9E-08	1.6E-01	6.6E-01	3.0E-09	5.6E-06	2.8E-05
111	6.2E-01	5.5E-05	1.0E-03	3.6E-08	1.6E-01	6.6E-01	3.7E-09	6.8E-06	3.4E-05
112	2.8E+00	5.5E-05	1.0E-03	1.6E-07	1.6E-01	6.6E-01	1.7E-08	3.1E-05	1.5E-04
113	4.7E+00	5.5E-05	1.0E-03	2.7E-07	1.6E-01	6.6E-01	2.8E-08	5.2E-05	2.6E-04
114	4.0E-01	5.5E-05	1.0E-03	2.3E-08	1.6E-01	6.6E-01	2.4E-09	4.5E-06	2.2E-05
115	4.8E-01	5.5E-05	1.0E-03	2.8E-08	1.6E-01	6.6E-01	2.9E-09	5.3E-06	2.6E-05
116	5.8E-01	5.5E-05	1.0E-03	3.3E-08	1.6E-01	6.6E-01	3.5E-09	6.4E-06	3.2E-05
117	7.2E-01	5.5E-05	1.0E-03	4.2E-08	1.6E-01	6.6E-01	4.3E-09	7.9E-06	4.0E-05
118	2.7E+00	5.5E-05	1.0E-03	1.6E-07	1.6E-01	6.6E-01	1.6E-08	3.0E-05	1.5E-04
119	4.7E+00	5.5E-05	1.0E-03	2.7E-07	1.6E-01	6.6E-01	2.8E-08	5.3E-05	2.6E-04
120	3.7E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.2E-09	4.1E-06	2.1E-05
121	4.4E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.6E-09	4.9E-06	2.4E-05
122	5.3E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	5.9E-06	3.0E-05
123	6.6E-01	5.5E-05	1.0E-03	3.8E-08	1.6E-01	6.6E-01	3.9E-09	7.3E-06	3.6E-05
124	2.3E+00	5.5E-05	1.0E-03	1.3E-07	1.6E-01	6.6E-01	1.4E-08	2.6E-05	1.3E-04
125	4.0E+00	5.5E-05	1.0E-03	2.3E-07	1.6E-01	6.6E-01	2.4E-08	4.4E-05	2.2E-04
126	3.5E-01	5.5E-05	1.0E-03	2.0E-08	1.6E-01	6.6E-01	2.1E-09	3.9E-06	1.9E-05
127	4.1E-01	5.5E-05	1.0E-03	2.4E-08	1.6E-01	6.6E-01	2.4E-09	4.5E-06	2.3E-05
128	4.9E-01	5.5E-05	1.0E-03	2.8E-08	1.6E-01	6.6E-01	2.9E-09	5.4E-06	2.7E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	5.5E-05	1.0E-03	3.4E-08	1.6E-01	6.6E-01	3.6E-09	6.6E-06	3.3E-05
130	7.4E-01	5.5E-05	1.0E-03	4.3E-08	1.6E-01	6.6E-01	4.5E-09	8.2E-06	4.1E-05
131	9.7E-01	5.5E-05	1.0E-03	5.6E-08	1.6E-01	6.6E-01	5.8E-09	1.1E-05	5.4E-05
132	1.3E+00	5.5E-05	1.0E-03	7.6E-08	1.6E-01	6.6E-01	7.9E-09	1.5E-05	7.3E-05
133	1.9E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.1E-08	2.1E-05	1.1E-04
134	3.0E+00	5.5E-05	1.0E-03	1.7E-07	1.6E-01	6.6E-01	1.8E-08	3.3E-05	1.7E-04
135	5.4E+00	5.5E-05	1.0E-03	3.1E-07	1.6E-01	6.6E-01	3.2E-08	5.9E-05	3.0E-04
136	3.2E-01	5.5E-05	1.0E-03	1.9E-08	1.6E-01	6.6E-01	1.9E-09	3.6E-06	1.8E-05
137	3.8E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.3E-09	4.2E-06	2.1E-05
138	4.5E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	4.9E-06	2.5E-05
139	5.4E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	5.9E-06	3.0E-05
140	6.6E-01	5.5E-05	1.0E-03	3.8E-08	1.6E-01	6.6E-01	4.0E-09	7.3E-06	3.7E-05
141	8.4E-01	5.5E-05	1.0E-03	4.9E-08	1.6E-01	6.6E-01	5.0E-09	9.3E-06	4.7E-05
142	1.1E+00	5.5E-05	1.0E-03	6.4E-08	1.6E-01	6.6E-01	6.6E-09	1.2E-05	6.1E-05
143	1.5E+00	5.5E-05	1.0E-03	8.7E-08	1.6E-01	6.6E-01	9.0E-09	1.7E-05	8.3E-05
144	2.1E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.3E-08	2.3E-05	1.2E-04
145	3.1E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.8E-08	3.4E-05	1.7E-04
146	3.0E-01	5.5E-05	1.0E-03	1.7E-08	1.6E-01	6.6E-01	1.8E-09	3.3E-06	1.7E-05
147	3.5E-01	5.5E-05	1.0E-03	2.0E-08	1.6E-01	6.6E-01	2.1E-09	3.8E-06	1.9E-05
148	4.1E-01	5.5E-05	1.0E-03	2.4E-08	1.6E-01	6.6E-01	2.4E-09	4.5E-06	2.2E-05
149	4.8E-01	5.5E-05	1.0E-03	2.8E-08	1.6E-01	6.6E-01	2.9E-09	5.4E-06	2.7E-05
150	5.9E-01	5.5E-05	1.0E-03	3.4E-08	1.6E-01	6.6E-01	3.5E-09	6.5E-06	3.2E-05
151	7.2E-01	5.5E-05	1.0E-03	4.2E-08	1.6E-01	6.6E-01	4.3E-09	8.0E-06	4.0E-05
152	9.0E-01	5.5E-05	1.0E-03	5.2E-08	1.6E-01	6.6E-01	5.4E-09	9.9E-06	5.0E-05
153	1.2E+00	5.5E-05	1.0E-03	6.7E-08	1.6E-01	6.6E-01	6.9E-09	1.3E-05	6.4E-05
154	1.5E+00	5.5E-05	1.0E-03	8.5E-08	1.6E-01	6.6E-01	8.8E-09	1.6E-05	8.1E-05
155	1.9E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.1E-08	2.1E-05	1.0E-04
156	2.8E-01	5.5E-05	1.0E-03	1.6E-08	1.6E-01	6.6E-01	1.7E-09	3.1E-06	1.5E-05
157	3.2E-01	5.5E-05	1.0E-03	1.9E-08	1.6E-01	6.6E-01	1.9E-09	3.5E-06	1.8E-05
158	3.7E-01	5.5E-05	1.0E-03	2.1E-08	1.6E-01	6.6E-01	2.2E-09	4.1E-06	2.1E-05
159	4.3E-01	5.5E-05	1.0E-03	2.5E-08	1.6E-01	6.6E-01	2.6E-09	4.8E-06	2.4E-05
160	5.2E-01	5.5E-05	1.0E-03	3.0E-08	1.6E-01	6.6E-01	3.1E-09	5.7E-06	2.9E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	5.5E-05	1.0E-03	3.6E-08	1.6E-01	6.6E-01	3.7E-09	6.9E-06	3.4E-05
162	7.4E-01	5.5E-05	1.0E-03	4.3E-08	1.6E-01	6.6E-01	4.5E-09	8.3E-06	4.1E-05
163	9.0E-01	5.5E-05	1.0E-03	5.2E-08	1.6E-01	6.6E-01	5.4E-09	9.9E-06	5.0E-05
164	1.1E+00	5.5E-05	1.0E-03	6.2E-08	1.6E-01	6.6E-01	6.4E-09	1.2E-05	5.9E-05
165	1.3E+00	5.5E-05	1.0E-03	7.6E-08	1.6E-01	6.6E-01	7.8E-09	1.4E-05	7.2E-05
166	2.6E-01	5.5E-05	1.0E-03	1.5E-08	1.6E-01	6.6E-01	1.6E-09	2.9E-06	1.4E-05
167	2.9E-01	5.5E-05	1.0E-03	1.7E-08	1.6E-01	6.6E-01	1.8E-09	3.3E-06	1.6E-05
168	3.4E-01	5.5E-05	1.0E-03	1.9E-08	1.6E-01	6.6E-01	2.0E-09	3.7E-06	1.9E-05
169	3.9E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.3E-09	4.3E-06	2.2E-05
170	4.5E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	5.0E-06	2.5E-05
171	5.3E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	5.9E-06	2.9E-05
172	6.1E-01	5.5E-05	1.0E-03	3.5E-08	1.6E-01	6.6E-01	3.6E-09	6.7E-06	3.4E-05
173	7.1E-01	5.5E-05	1.0E-03	4.1E-08	1.6E-01	6.6E-01	4.2E-09	7.8E-06	3.9E-05
174	8.2E-01	5.5E-05	1.0E-03	4.7E-08	1.6E-01	6.6E-01	4.9E-09	9.0E-06	4.5E-05
175	9.5E-01	5.5E-05	1.0E-03	5.5E-08	1.6E-01	6.6E-01	5.7E-09	1.1E-05	5.3E-05
176	2.4E-01	5.5E-05	1.0E-03	1.4E-08	1.6E-01	6.6E-01	1.4E-09	2.7E-06	1.3E-05
177	2.7E-01	5.5E-05	1.0E-03	1.6E-08	1.6E-01	6.6E-01	1.6E-09	3.0E-06	1.5E-05
178	3.0E-01	5.5E-05	1.0E-03	1.8E-08	1.6E-01	6.6E-01	1.8E-09	3.4E-06	1.7E-05
179	3.5E-01	5.5E-05	1.0E-03	2.0E-08	1.6E-01	6.6E-01	2.1E-09	3.8E-06	1.9E-05
180	3.9E-01	5.5E-05	1.0E-03	2.3E-08	1.6E-01	6.6E-01	2.4E-09	4.4E-06	2.2E-05
181	4.5E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	5.0E-06	2.5E-05
182	5.1E-01	5.5E-05	1.0E-03	2.9E-08	1.6E-01	6.6E-01	3.0E-09	5.6E-06	2.8E-05
183	5.7E-01	5.5E-05	1.0E-03	3.3E-08	1.6E-01	6.6E-01	3.4E-09	6.3E-06	3.2E-05
184	6.4E-01	5.5E-05	1.0E-03	3.7E-08	1.6E-01	6.6E-01	3.8E-09	7.1E-06	3.5E-05
185	7.2E-01	5.5E-05	1.0E-03	4.2E-08	1.6E-01	6.6E-01	4.3E-09	8.0E-06	4.0E-05
186	5.9E-01	5.5E-05	1.0E-03	3.4E-08	1.6E-01	6.6E-01	3.5E-09	6.5E-06	3.3E-05
187	5.2E-01	5.5E-05	1.0E-03	3.0E-08	1.6E-01	6.6E-01	3.1E-09	5.8E-06	2.9E-05
188	4.7E-01	5.5E-05	1.0E-03	2.7E-08	1.6E-01	6.6E-01	2.8E-09	5.2E-06	2.6E-05
189	2.2E-01	5.5E-05	1.0E-03	1.3E-08	1.6E-01	6.6E-01	1.3E-09	2.5E-06	1.2E-05
190	2.5E-01	5.5E-05	1.0E-03	1.4E-08	1.6E-01	6.6E-01	1.5E-09	2.7E-06	1.4E-05
191	2.7E-01	5.5E-05	1.0E-03	1.6E-08	1.6E-01	6.6E-01	1.6E-09	3.0E-06	1.5E-05
192	3.1E-01	5.5E-05	1.0E-03	1.8E-08	1.6E-01	6.6E-01	1.8E-09	3.4E-06	1.7E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	5.5E-05	1.0E-03	2.0E-08	1.6E-01	6.6E-01	2.1E-09	3.8E-06	1.9E-05
194	3.8E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.3E-09	4.2E-06	2.1E-05
195	4.3E-01	5.5E-05	1.0E-03	2.5E-08	1.6E-01	6.6E-01	2.5E-09	4.7E-06	2.4E-05
196	4.7E-01	5.5E-05	1.0E-03	2.7E-08	1.6E-01	6.6E-01	2.8E-09	5.2E-06	2.6E-05
197	5.6E-01	5.5E-05	1.0E-03	3.3E-08	1.6E-01	6.6E-01	3.4E-09	6.3E-06	3.1E-05
198	6.1E-01	5.5E-05	1.0E-03	3.5E-08	1.6E-01	6.6E-01	3.6E-09	6.7E-06	3.4E-05
199	5.7E-01	5.5E-05	1.0E-03	3.3E-08	1.6E-01	6.6E-01	3.4E-09	6.4E-06	3.2E-05
200	5.3E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	5.9E-06	3.0E-05
201	4.9E-01	5.5E-05	1.0E-03	2.9E-08	1.6E-01	6.6E-01	2.9E-09	5.5E-06	2.7E-05
202	4.5E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	5.0E-06	2.5E-05
203	4.1E-01	5.5E-05	1.0E-03	2.4E-08	1.6E-01	6.6E-01	2.4E-09	4.5E-06	2.3E-05
204	2.0E-01	5.5E-05	1.0E-03	1.2E-08	1.6E-01	6.6E-01	1.2E-09	2.3E-06	1.1E-05
205	2.3E-01	5.5E-05	1.0E-03	1.3E-08	1.6E-01	6.6E-01	1.3E-09	2.5E-06	1.2E-05
206	2.5E-01	5.5E-05	1.0E-03	1.4E-08	1.6E-01	6.6E-01	1.5E-09	2.8E-06	1.4E-05
207	2.7E-01	5.5E-05	1.0E-03	1.6E-08	1.6E-01	6.6E-01	1.6E-09	3.0E-06	1.5E-05
208	3.0E-01	5.5E-05	1.0E-03	1.8E-08	1.6E-01	6.6E-01	1.8E-09	3.4E-06	1.7E-05
209	3.3E-01	5.5E-05	1.0E-03	1.9E-08	1.6E-01	6.6E-01	2.0E-09	3.7E-06	1.8E-05
210	3.6E-01	5.5E-05	1.0E-03	2.1E-08	1.6E-01	6.6E-01	2.2E-09	4.0E-06	2.0E-05
211	4.2E-01	5.5E-05	1.0E-03	2.5E-08	1.6E-01	6.6E-01	2.5E-09	4.7E-06	2.4E-05
212	4.5E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	5.0E-06	2.5E-05
213	5.0E-01	5.5E-05	1.0E-03	2.9E-08	1.6E-01	6.6E-01	3.0E-09	5.5E-06	2.8E-05
214	5.0E-01	5.5E-05	1.0E-03	2.9E-08	1.6E-01	6.6E-01	3.0E-09	5.5E-06	2.7E-05
215	4.9E-01	5.5E-05	1.0E-03	2.8E-08	1.6E-01	6.6E-01	2.9E-09	5.4E-06	2.7E-05
216	4.7E-01	5.5E-05	1.0E-03	2.7E-08	1.6E-01	6.6E-01	2.8E-09	5.2E-06	2.6E-05
217	4.4E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	4.9E-06	2.5E-05
218	4.2E-01	5.5E-05	1.0E-03	2.4E-08	1.6E-01	6.6E-01	2.5E-09	4.6E-06	2.3E-05
219	3.9E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.3E-09	4.3E-06	2.1E-05
220	3.5E-01	5.5E-05	1.0E-03	2.1E-08	1.6E-01	6.6E-01	2.1E-09	3.9E-06	2.0E-05
221	1.9E-01	5.5E-05	1.0E-03	1.1E-08	1.6E-01	6.6E-01	1.1E-09	2.1E-06	1.0E-05
222	2.1E-01	5.5E-05	1.0E-03	1.2E-08	1.6E-01	6.6E-01	1.2E-09	2.3E-06	1.1E-05
223	2.2E-01	5.5E-05	1.0E-03	1.3E-08	1.6E-01	6.6E-01	1.3E-09	2.5E-06	1.2E-05
224	2.5E-01	5.5E-05	1.0E-03	1.4E-08	1.6E-01	6.6E-01	1.5E-09	2.7E-06	1.4E-05

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	5.5E-05	1.0E-03	1.5E-08	1.6E-01	6.6E-01	1.6E-09	3.0E-06	1.5E-05
226	3.1E-01	5.5E-05	1.0E-03	1.8E-08	1.6E-01	6.6E-01	1.9E-09	3.5E-06	1.7E-05
227	3.3E-01	5.5E-05	1.0E-03	1.9E-08	1.6E-01	6.6E-01	2.0E-09	3.7E-06	1.9E-05
228	3.5E-01	5.5E-05	1.0E-03	2.0E-08	1.6E-01	6.6E-01	2.1E-09	3.9E-06	1.9E-05
229	3.7E-01	5.5E-05	1.0E-03	2.1E-08	1.6E-01	6.6E-01	2.2E-09	4.1E-06	2.1E-05
230	4.0E-01	5.5E-05	1.0E-03	2.3E-08	1.6E-01	6.6E-01	2.4E-09	4.5E-06	2.2E-05
231	4.0E-01	5.5E-05	1.0E-03	2.3E-08	1.6E-01	6.6E-01	2.4E-09	4.5E-06	2.2E-05
232	4.0E-01	5.5E-05	1.0E-03	2.3E-08	1.6E-01	6.6E-01	2.4E-09	4.4E-06	2.2E-05
233	3.9E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.3E-09	4.3E-06	2.1E-05
234	3.7E-01	5.5E-05	1.0E-03	2.2E-08	1.6E-01	6.6E-01	2.2E-09	4.1E-06	2.1E-05
235	3.5E-01	5.5E-05	1.0E-03	2.0E-08	1.6E-01	6.6E-01	2.1E-09	3.9E-06	2.0E-05
236	3.3E-01	5.5E-05	1.0E-03	1.9E-08	1.6E-01	6.6E-01	2.0E-09	3.7E-06	1.8E-05
237	3.1E-01	5.5E-05	1.0E-03	1.8E-08	1.6E-01	6.6E-01	1.9E-09	3.4E-06	1.7E-05
238	1.8E+00	5.5E-05	1.0E-03	1.0E-07	1.6E-01	6.6E-01	1.1E-08	2.0E-05	9.9E-05
239	1.8E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.1E-08	2.0E-05	1.0E-04
240	1.9E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.1E-08	2.1E-05	1.0E-04
241	1.9E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.1E-08	2.1E-05	1.0E-04
242	1.9E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.1E-08	2.1E-05	1.1E-04
243	1.9E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.2E-08	2.1E-05	1.1E-04
244	2.0E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.2E-08	2.2E-05	1.1E-04
245	2.0E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.2E-08	2.2E-05	1.1E-04
246	2.0E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.2E-08	2.3E-05	1.1E-04
247	2.1E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.2E-08	2.3E-05	1.1E-04
248	2.1E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.3E-08	2.3E-05	1.2E-04
249	2.1E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.3E-08	2.4E-05	1.2E-04
250	2.2E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.3E-08	2.4E-05	1.2E-04
251	2.2E+00	5.5E-05	1.0E-03	1.3E-07	1.6E-01	6.6E-01	1.3E-08	2.4E-05	1.2E-04
252	2.2E+00	5.5E-05	1.0E-03	1.3E-07	1.6E-01	6.6E-01	1.3E-08	2.4E-05	1.2E-04
253	2.2E+00	5.5E-05	1.0E-03	1.3E-07	1.6E-01	6.6E-01	1.3E-08	2.5E-05	1.2E-04
254	2.3E+00	5.5E-05	1.0E-03	1.3E-07	1.6E-01	6.6E-01	1.4E-08	2.5E-05	1.3E-04
255	2.3E+00	5.5E-05	1.0E-03	1.3E-07	1.6E-01	6.6E-01	1.4E-08	2.6E-05	1.3E-04
256	2.3E+00	5.5E-05	1.0E-03	1.4E-07	1.6E-01	6.6E-01	1.4E-08	2.6E-05	1.3E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	5.5E-05	1.0E-03	1.4E-07	1.6E-01	6.6E-01	1.4E-08	2.6E-05	1.3E-04
258	2.4E+00	5.5E-05	1.0E-03	1.4E-07	1.6E-01	6.6E-01	1.4E-08	2.7E-05	1.3E-04
259	2.4E+00	5.5E-05	1.0E-03	1.4E-07	1.6E-01	6.6E-01	1.5E-08	2.7E-05	1.3E-04
260	2.5E+00	5.5E-05	1.0E-03	1.4E-07	1.6E-01	6.6E-01	1.5E-08	2.7E-05	1.4E-04
261	2.5E+00	5.5E-05	1.0E-03	1.5E-07	1.6E-01	6.6E-01	1.5E-08	2.8E-05	1.4E-04
262	2.6E+00	5.5E-05	1.0E-03	1.5E-07	1.6E-01	6.6E-01	1.5E-08	2.8E-05	1.4E-04
263	2.6E+00	5.5E-05	1.0E-03	1.5E-07	1.6E-01	6.6E-01	1.6E-08	2.9E-05	1.4E-04
264	2.6E+00	5.5E-05	1.0E-03	1.5E-07	1.6E-01	6.6E-01	1.6E-08	2.9E-05	1.5E-04
265	2.7E+00	5.5E-05	1.0E-03	1.6E-07	1.6E-01	6.6E-01	1.6E-08	3.0E-05	1.5E-04
266	2.7E+00	5.5E-05	1.0E-03	1.6E-07	1.6E-01	6.6E-01	1.6E-08	3.0E-05	1.5E-04
267	2.7E+00	5.5E-05	1.0E-03	1.6E-07	1.6E-01	6.6E-01	1.6E-08	3.0E-05	1.5E-04
268	2.7E+00	5.5E-05	1.0E-03	1.6E-07	1.6E-01	6.6E-01	1.6E-08	3.0E-05	1.5E-04
269	2.8E+00	5.5E-05	1.0E-03	1.6E-07	1.6E-01	6.6E-01	1.6E-08	3.1E-05	1.5E-04
270	2.8E+00	5.5E-05	1.0E-03	1.6E-07	1.6E-01	6.6E-01	1.7E-08	3.1E-05	1.5E-04
271	2.9E+00	5.5E-05	1.0E-03	1.7E-07	1.6E-01	6.6E-01	1.7E-08	3.2E-05	1.6E-04
272	3.0E+00	5.5E-05	1.0E-03	1.7E-07	1.6E-01	6.6E-01	1.8E-08	3.3E-05	1.6E-04
273	3.0E+00	5.5E-05	1.0E-03	1.7E-07	1.6E-01	6.6E-01	1.8E-08	3.3E-05	1.7E-04
274	3.0E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.8E-08	3.4E-05	1.7E-04
275	3.0E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.8E-08	3.4E-05	1.7E-04
276	3.1E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.8E-08	3.4E-05	1.7E-04
277	3.1E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.8E-08	3.4E-05	1.7E-04
278	3.1E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.8E-08	3.4E-05	1.7E-04
279	3.1E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.8E-08	3.4E-05	1.7E-04
280	3.0E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.8E-08	3.4E-05	1.7E-04
281	3.0E+00	5.5E-05	1.0E-03	1.7E-07	1.6E-01	6.6E-01	1.8E-08	3.3E-05	1.7E-04
282	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.0E-08	3.7E-05	1.9E-04
283	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.0E-08	3.8E-05	1.9E-04
284	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.0E-08	3.8E-05	1.9E-04
285	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.1E-08	3.8E-05	1.9E-04
286	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.1E-08	3.8E-05	1.9E-04
287	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.1E-08	3.8E-05	1.9E-04
288	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.0E-08	3.8E-05	1.9E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	5.5E-05	1.0E-03	1.9E-07	1.6E-01	6.6E-01	2.0E-08	3.7E-05	1.9E-04
290	3.3E+00	5.5E-05	1.0E-03	1.9E-07	1.6E-01	6.6E-01	2.0E-08	3.7E-05	1.8E-04
291	3.3E+00	5.5E-05	1.0E-03	1.9E-07	1.6E-01	6.6E-01	2.0E-08	3.7E-05	1.8E-04
292	3.3E+00	5.5E-05	1.0E-03	1.9E-07	1.6E-01	6.6E-01	1.9E-08	3.6E-05	1.8E-04
293	3.9E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.3E-08	4.3E-05	2.2E-04
294	3.9E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.3E-08	4.3E-05	2.1E-04
295	3.9E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.3E-08	4.3E-05	2.1E-04
296	3.8E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.3E-08	4.2E-05	2.1E-04
297	3.8E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.2E-08	4.2E-05	2.1E-04
298	3.7E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.2E-08	4.1E-05	2.1E-04
299	3.7E+00	5.5E-05	1.0E-03	2.1E-07	1.6E-01	6.6E-01	2.2E-08	4.1E-05	2.0E-04
300	3.6E+00	5.5E-05	1.0E-03	2.1E-07	1.6E-01	6.6E-01	2.2E-08	4.0E-05	2.0E-04
301	3.5E+00	5.5E-05	1.0E-03	2.1E-07	1.6E-01	6.6E-01	2.1E-08	3.9E-05	2.0E-04
302	3.5E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.1E-08	3.8E-05	1.9E-04
303	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.0E-08	3.8E-05	1.9E-04
304	4.4E+00	5.5E-05	1.0E-03	2.5E-07	1.6E-01	6.6E-01	2.6E-08	4.8E-05	2.4E-04
305	4.3E+00	5.5E-05	1.0E-03	2.5E-07	1.6E-01	6.6E-01	2.6E-08	4.8E-05	2.4E-04
306	4.2E+00	5.5E-05	1.0E-03	2.5E-07	1.6E-01	6.6E-01	2.5E-08	4.7E-05	2.4E-04
307	4.2E+00	5.5E-05	1.0E-03	2.4E-07	1.6E-01	6.6E-01	2.5E-08	4.6E-05	2.3E-04
308	4.1E+00	5.5E-05	1.0E-03	2.4E-07	1.6E-01	6.6E-01	2.4E-08	4.5E-05	2.3E-04
309	4.0E+00	5.5E-05	1.0E-03	2.3E-07	1.6E-01	6.6E-01	2.4E-08	4.4E-05	2.2E-04
310	3.9E+00	5.5E-05	1.0E-03	2.3E-07	1.6E-01	6.6E-01	2.3E-08	4.3E-05	2.2E-04
311	3.8E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.3E-08	4.2E-05	2.1E-04
312	3.7E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.2E-08	4.1E-05	2.1E-04
313	3.6E+00	5.5E-05	1.0E-03	2.1E-07	1.6E-01	6.6E-01	2.2E-08	4.0E-05	2.0E-04
314	3.5E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.1E-08	3.9E-05	1.9E-04
315	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.0E-08	3.8E-05	1.9E-04
316	4.7E+00	5.5E-05	1.0E-03	2.7E-07	1.6E-01	6.6E-01	2.8E-08	5.2E-05	2.6E-04
317	4.6E+00	5.5E-05	1.0E-03	2.7E-07	1.6E-01	6.6E-01	2.7E-08	5.1E-05	2.5E-04
318	4.5E+00	5.5E-05	1.0E-03	2.6E-07	1.6E-01	6.6E-01	2.7E-08	5.0E-05	2.5E-04
319	4.4E+00	5.5E-05	1.0E-03	2.5E-07	1.6E-01	6.6E-01	2.6E-08	4.8E-05	2.4E-04
320	4.2E+00	5.5E-05	1.0E-03	2.5E-07	1.6E-01	6.6E-01	2.5E-08	4.7E-05	2.3E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	5.5E-05	1.0E-03	2.4E-07	1.6E-01	6.6E-01	2.5E-08	4.6E-05	2.3E-04
322	4.0E+00	5.5E-05	1.0E-03	2.3E-07	1.6E-01	6.6E-01	2.4E-08	4.4E-05	2.2E-04
323	3.8E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.3E-08	4.3E-05	2.1E-04
324	3.7E+00	5.5E-05	1.0E-03	2.1E-07	1.6E-01	6.6E-01	2.2E-08	4.1E-05	2.1E-04
325	5.0E+00	5.5E-05	1.0E-03	2.9E-07	1.6E-01	6.6E-01	3.0E-08	5.6E-05	2.8E-04
326	4.9E+00	5.5E-05	1.0E-03	2.8E-07	1.6E-01	6.6E-01	2.9E-08	5.4E-05	2.7E-04
327	4.7E+00	5.5E-05	1.0E-03	2.7E-07	1.6E-01	6.6E-01	2.8E-08	5.2E-05	2.6E-04
328	4.5E+00	5.5E-05	1.0E-03	2.6E-07	1.6E-01	6.6E-01	2.7E-08	5.0E-05	2.5E-04
329	4.4E+00	5.5E-05	1.0E-03	2.5E-07	1.6E-01	6.6E-01	2.6E-08	4.8E-05	2.4E-04
330	4.2E+00	5.5E-05	1.0E-03	2.4E-07	1.6E-01	6.6E-01	2.5E-08	4.7E-05	2.3E-04
331	5.2E+00	5.5E-05	1.0E-03	3.0E-07	1.6E-01	6.6E-01	3.1E-08	5.8E-05	2.9E-04
332	5.0E+00	5.5E-05	1.0E-03	2.9E-07	1.6E-01	6.6E-01	3.0E-08	5.5E-05	2.8E-04
333	4.8E+00	5.5E-05	1.0E-03	2.8E-07	1.6E-01	6.6E-01	2.9E-08	5.3E-05	2.7E-04
334	4.6E+00	5.5E-05	1.0E-03	2.7E-07	1.6E-01	6.6E-01	2.7E-08	5.1E-05	2.5E-04
335	1.7E+00	5.5E-05	1.0E-03	1.0E-07	1.6E-01	6.6E-01	1.0E-08	1.9E-05	9.6E-05
336	1.8E+00	5.5E-05	1.0E-03	1.0E-07	1.6E-01	6.6E-01	1.1E-08	2.0E-05	9.9E-05
337	1.8E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.1E-08	2.0E-05	1.0E-04
338	1.9E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.1E-08	2.1E-05	1.0E-04
339	1.9E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.1E-08	2.1E-05	1.0E-04
340	1.9E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.2E-08	2.1E-05	1.1E-04
341	2.0E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.2E-08	2.2E-05	1.1E-04
342	2.0E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.2E-08	2.3E-05	1.1E-04
343	2.0E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.2E-08	2.3E-05	1.1E-04
344	2.1E+00	5.5E-05	1.0E-03	1.2E-07	1.6E-01	6.6E-01	1.3E-08	2.3E-05	1.2E-04
345	2.2E+00	5.5E-05	1.0E-03	1.3E-07	1.6E-01	6.6E-01	1.3E-08	2.4E-05	1.2E-04
346	2.2E+00	5.5E-05	1.0E-03	1.3E-07	1.6E-01	6.6E-01	1.3E-08	2.5E-05	1.2E-04
347	2.2E+00	5.5E-05	1.0E-03	1.3E-07	1.6E-01	6.6E-01	1.3E-08	2.5E-05	1.2E-04
348	2.3E+00	5.5E-05	1.0E-03	1.3E-07	1.6E-01	6.6E-01	1.4E-08	2.6E-05	1.3E-04
349	2.4E+00	5.5E-05	1.0E-03	1.4E-07	1.6E-01	6.6E-01	1.4E-08	2.7E-05	1.3E-04
350	2.5E+00	5.5E-05	1.0E-03	1.4E-07	1.6E-01	6.6E-01	1.5E-08	2.7E-05	1.4E-04
351	2.4E+00	5.5E-05	1.0E-03	1.4E-07	1.6E-01	6.6E-01	1.4E-08	2.7E-05	1.3E-04
352	2.5E+00	5.5E-05	1.0E-03	1.5E-07	1.6E-01	6.6E-01	1.5E-08	2.8E-05	1.4E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	5.5E-05	1.0E-03	1.5E-07	1.6E-01	6.6E-01	1.6E-08	2.9E-05	1.5E-04
354	2.7E+00	5.5E-05	1.0E-03	1.6E-07	1.6E-01	6.6E-01	1.6E-08	3.0E-05	1.5E-04
355	2.6E+00	5.5E-05	1.0E-03	1.5E-07	1.6E-01	6.6E-01	1.6E-08	2.9E-05	1.5E-04
356	2.8E+00	5.5E-05	1.0E-03	1.6E-07	1.6E-01	6.6E-01	1.7E-08	3.1E-05	1.5E-04
357	2.9E+00	5.5E-05	1.0E-03	1.7E-07	1.6E-01	6.6E-01	1.7E-08	3.2E-05	1.6E-04
358	3.0E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.8E-08	3.4E-05	1.7E-04
359	2.9E+00	5.5E-05	1.0E-03	1.7E-07	1.6E-01	6.6E-01	1.7E-08	3.2E-05	1.6E-04
360	3.1E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.8E-08	3.4E-05	1.7E-04
361	3.2E+00	5.5E-05	1.0E-03	1.9E-07	1.6E-01	6.6E-01	1.9E-08	3.6E-05	1.8E-04
362	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.0E-08	3.8E-05	1.9E-04
363	3.2E+00	5.5E-05	1.0E-03	1.8E-07	1.6E-01	6.6E-01	1.9E-08	3.5E-05	1.8E-04
364	3.4E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.0E-08	3.8E-05	1.9E-04
365	3.6E+00	5.5E-05	1.0E-03	2.1E-07	1.6E-01	6.6E-01	2.2E-08	4.0E-05	2.0E-04
366	3.8E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.3E-08	4.2E-05	2.1E-04
367	3.5E+00	5.5E-05	1.0E-03	2.0E-07	1.6E-01	6.6E-01	2.1E-08	3.9E-05	1.9E-04
368	3.7E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.2E-08	4.2E-05	2.1E-04
369	4.0E+00	5.5E-05	1.0E-03	2.3E-07	1.6E-01	6.6E-01	2.4E-08	4.4E-05	2.2E-04
370	4.3E+00	5.5E-05	1.0E-03	2.5E-07	1.6E-01	6.6E-01	2.6E-08	4.8E-05	2.4E-04
371	3.8E+00	5.5E-05	1.0E-03	2.2E-07	1.6E-01	6.6E-01	2.3E-08	4.2E-05	2.1E-04
372	4.1E+00	5.5E-05	1.0E-03	2.4E-07	1.6E-01	6.6E-01	2.5E-08	4.6E-05	2.3E-04
373	4.5E+00	5.5E-05	1.0E-03	2.6E-07	1.6E-01	6.6E-01	2.7E-08	5.0E-05	2.5E-04
374	4.8E+00	5.5E-05	1.0E-03	2.8E-07	1.6E-01	6.6E-01	2.9E-08	5.4E-05	2.7E-04
375	4.2E+00	5.5E-05	1.0E-03	2.4E-07	1.6E-01	6.6E-01	2.5E-08	4.6E-05	2.3E-04
376	4.6E+00	5.5E-05	1.0E-03	2.6E-07	1.6E-01	6.6E-01	2.7E-08	5.1E-05	2.5E-04
377	5.0E+00	5.5E-05	1.0E-03	2.9E-07	1.6E-01	6.6E-01	3.0E-08	5.5E-05	2.8E-04
378	5.5E+00	5.5E-05	1.0E-03	3.2E-07	1.6E-01	6.6E-01	3.3E-08	6.1E-05	3.0E-04
379	4.5E+00	5.5E-05	1.0E-03	2.6E-07	1.6E-01	6.6E-01	2.7E-08	5.0E-05	2.5E-04
380	5.0E+00	5.5E-05	1.0E-03	2.9E-07	1.6E-01	6.6E-01	3.0E-08	5.6E-05	2.8E-04
381	5.6E+00	5.5E-05	1.0E-03	3.2E-07	1.6E-01	6.6E-01	3.3E-08	6.2E-05	3.1E-04
382	6.2E+00	5.5E-05	1.0E-03	3.6E-07	1.6E-01	6.6E-01	3.7E-08	6.9E-05	3.4E-04
383	4.9E+00	5.5E-05	1.0E-03	2.8E-07	1.6E-01	6.6E-01	2.9E-08	5.4E-05	2.7E-04
384	5.5E+00	5.5E-05	1.0E-03	3.2E-07	1.6E-01	6.6E-01	3.3E-08	6.1E-05	3.0E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	5.5E-05	1.0E-03	3.6E-07	1.6E-01	6.6E-01	3.7E-08	6.8E-05	3.4E-04
386	6.9E+00	5.5E-05	1.0E-03	4.0E-07	1.6E-01	6.6E-01	4.2E-08	7.7E-05	3.8E-04
387	5.2E+00	5.5E-05	1.0E-03	3.0E-07	1.6E-01	6.6E-01	3.1E-08	5.8E-05	2.9E-04
388	5.9E+00	5.5E-05	1.0E-03	3.4E-07	1.6E-01	6.6E-01	3.5E-08	6.6E-05	3.3E-04
389	6.7E+00	5.5E-05	1.0E-03	3.9E-07	1.6E-01	6.6E-01	4.0E-08	7.4E-05	3.7E-04
390	7.7E+00	5.5E-05	1.0E-03	4.5E-07	1.6E-01	6.6E-01	4.6E-08	8.5E-05	4.3E-04
391	5.6E+00	5.5E-05	1.0E-03	3.2E-07	1.6E-01	6.6E-01	3.3E-08	6.2E-05	3.1E-04
392	6.3E+00	5.5E-05	1.0E-03	3.7E-07	1.6E-01	6.6E-01	3.8E-08	7.0E-05	3.5E-04
393	7.2E+00	5.5E-05	1.0E-03	4.2E-07	1.6E-01	6.6E-01	4.3E-08	8.0E-05	4.0E-04
394	8.4E+00	5.5E-05	1.0E-03	4.9E-07	1.6E-01	6.6E-01	5.0E-08	9.3E-05	4.7E-04
395	5.8E+00	5.5E-05	1.0E-03	3.4E-07	1.6E-01	6.6E-01	3.5E-08	6.5E-05	3.2E-04
396	6.7E+00	5.5E-05	1.0E-03	3.9E-07	1.6E-01	6.6E-01	4.0E-08	7.4E-05	3.7E-04
397	7.7E+00	5.5E-05	1.0E-03	4.5E-07	1.6E-01	6.6E-01	4.6E-08	8.6E-05	4.3E-04
398	9.1E+00	5.5E-05	1.0E-03	5.2E-07	1.6E-01	6.6E-01	5.4E-08	1.0E-04	5.0E-04
399	6.0E+00	5.5E-05	1.0E-03	3.5E-07	1.6E-01	6.6E-01	3.6E-08	6.7E-05	3.3E-04
400	7.0E+00	5.5E-05	1.0E-03	4.0E-07	1.6E-01	6.6E-01	4.2E-08	7.7E-05	3.9E-04
401	8.1E+00	5.5E-05	1.0E-03	4.7E-07	1.6E-01	6.6E-01	4.9E-08	9.0E-05	4.5E-04
402	9.6E+00	5.5E-05	1.0E-03	5.6E-07	1.6E-01	6.6E-01	5.8E-08	1.1E-04	5.3E-04
403	6.2E+00	5.5E-05	1.0E-03	3.6E-07	1.6E-01	6.6E-01	3.7E-08	6.9E-05	3.4E-04
404	7.2E+00	5.5E-05	1.0E-03	4.2E-07	1.6E-01	6.6E-01	4.3E-08	8.0E-05	4.0E-04
405	8.4E+00	5.5E-05	1.0E-03	4.9E-07	1.6E-01	6.6E-01	5.1E-08	9.4E-05	4.7E-04
406	1.0E+01	5.5E-05	1.0E-03	5.8E-07	1.6E-01	6.6E-01	6.0E-08	1.1E-04	5.6E-04
407	6.3E+00	5.5E-05	1.0E-03	3.7E-07	1.6E-01	6.6E-01	3.8E-08	7.0E-05	3.5E-04
408	7.4E+00	5.5E-05	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.4E-08	8.2E-05	4.1E-04
409	8.7E+00	5.5E-05	1.0E-03	5.0E-07	1.6E-01	6.6E-01	5.2E-08	9.6E-05	4.8E-04
410	1.0E+01	5.5E-05	1.0E-03	6.0E-07	1.6E-01	6.6E-01	6.2E-08	1.2E-04	5.8E-04
411	6.4E+00	5.5E-05	1.0E-03	3.7E-07	1.6E-01	6.6E-01	3.8E-08	7.1E-05	3.5E-04
412	7.5E+00	5.5E-05	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.5E-08	8.3E-05	4.1E-04
413	8.8E+00	5.5E-05	1.0E-03	5.1E-07	1.6E-01	6.6E-01	5.3E-08	9.8E-05	4.9E-04
414	1.1E+01	5.5E-05	1.0E-03	6.2E-07	1.6E-01	6.6E-01	6.4E-08	1.2E-04	5.9E-04
415	6.4E+00	5.5E-05	1.0E-03	3.7E-07	1.6E-01	6.6E-01	3.8E-08	7.1E-05	3.5E-04
416	7.5E+00	5.5E-05	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.5E-08	8.3E-05	4.2E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	5.5E-05	1.0E-03	5.2E-07	1.6E-01	6.6E-01	5.3E-08	9.9E-05	4.9E-04
418	1.1E+01	5.5E-05	1.0E-03	6.2E-07	1.6E-01	6.6E-01	6.4E-08	1.2E-04	6.0E-04
419	6.4E+00	5.5E-05	1.0E-03	3.7E-07	1.6E-01	6.6E-01	3.8E-08	7.0E-05	3.5E-04
420	7.5E+00	5.5E-05	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.5E-08	8.3E-05	4.1E-04
421	8.9E+00	5.5E-05	1.0E-03	5.1E-07	1.6E-01	6.6E-01	5.3E-08	9.8E-05	4.9E-04
422	1.1E+01	5.5E-05	1.0E-03	6.2E-07	1.6E-01	6.6E-01	6.4E-08	1.2E-04	5.9E-04
423	6.3E+00	5.5E-05	1.0E-03	3.6E-07	1.6E-01	6.6E-01	3.7E-08	6.9E-05	3.5E-04
424	7.4E+00	5.5E-05	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.4E-08	8.2E-05	4.1E-04
425	8.8E+00	5.5E-05	1.0E-03	5.1E-07	1.6E-01	6.6E-01	5.2E-08	9.7E-05	4.9E-04
426	1.1E+01	5.5E-05	1.0E-03	6.2E-07	1.6E-01	6.6E-01	6.4E-08	1.2E-04	5.9E-04
427	6.1E+00	5.5E-05	1.0E-03	3.5E-07	1.6E-01	6.6E-01	3.7E-08	6.8E-05	3.4E-04
428	7.2E+00	5.5E-05	1.0E-03	4.2E-07	1.6E-01	6.6E-01	4.3E-08	8.0E-05	4.0E-04
429	8.6E+00	5.5E-05	1.0E-03	5.0E-07	1.6E-01	6.6E-01	5.1E-08	9.5E-05	4.7E-04
430	1.0E+01	5.5E-05	1.0E-03	6.0E-07	1.6E-01	6.6E-01	6.2E-08	1.2E-04	5.8E-04
431	5.9E+00	5.5E-05	1.0E-03	3.4E-07	1.6E-01	6.6E-01	3.5E-08	6.5E-05	3.3E-04
432	6.9E+00	5.5E-05	1.0E-03	4.0E-07	1.6E-01	6.6E-01	4.2E-08	7.7E-05	3.8E-04
433	8.3E+00	5.5E-05	1.0E-03	4.8E-07	1.6E-01	6.6E-01	4.9E-08	9.2E-05	4.6E-04
434	1.0E+01	5.5E-05	1.0E-03	5.8E-07	1.6E-01	6.6E-01	6.0E-08	1.1E-04	5.6E-04
435	5.6E+00	5.5E-05	1.0E-03	3.3E-07	1.6E-01	6.6E-01	3.4E-08	6.3E-05	3.1E-04
436	6.6E+00	5.5E-05	1.0E-03	3.8E-07	1.6E-01	6.6E-01	4.0E-08	7.3E-05	3.7E-04
437	7.9E+00	5.5E-05	1.0E-03	4.6E-07	1.6E-01	6.6E-01	4.7E-08	8.7E-05	4.4E-04
438	9.6E+00	5.5E-05	1.0E-03	5.5E-07	1.6E-01	6.6E-01	5.7E-08	1.1E-04	5.3E-04
439	5.4E+00	5.5E-05	1.0E-03	3.1E-07	1.6E-01	6.6E-01	3.2E-08	5.9E-05	3.0E-04
440	6.3E+00	5.5E-05	1.0E-03	3.6E-07	1.6E-01	6.6E-01	3.8E-08	6.9E-05	3.5E-04
441	7.4E+00	5.5E-05	1.0E-03	4.3E-07	1.6E-01	6.6E-01	4.4E-08	8.2E-05	4.1E-04
442	9.0E+00	5.5E-05	1.0E-03	5.2E-07	1.6E-01	6.6E-01	5.4E-08	1.0E-04	5.0E-04
443	5.0E+00	5.5E-05	1.0E-03	2.9E-07	1.6E-01	6.6E-01	3.0E-08	5.6E-05	2.8E-04
444	5.9E+00	5.5E-05	1.0E-03	3.4E-07	1.6E-01	6.6E-01	3.5E-08	6.5E-05	3.2E-04
445	6.9E+00	5.5E-05	1.0E-03	4.0E-07	1.6E-01	6.6E-01	4.1E-08	7.7E-05	3.8E-04
446	8.3E+00	5.5E-05	1.0E-03	4.8E-07	1.6E-01	6.6E-01	5.0E-08	9.2E-05	4.6E-04
447	4.7E+00	5.5E-05	1.0E-03	2.7E-07	1.6E-01	6.6E-01	2.8E-08	5.2E-05	2.6E-04
448	5.4E+00	5.5E-05	1.0E-03	3.1E-07	1.6E-01	6.6E-01	3.3E-08	6.0E-05	3.0E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	5.5E-05	1.0E-03	3.7E-07	1.6E-01	6.6E-01	3.8E-08	7.0E-05	3.5E-04
450	7.6E+00	5.5E-05	1.0E-03	4.4E-07	1.6E-01	6.6E-01	4.5E-08	8.4E-05	4.2E-04
451	4.4E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.6E-09	4.9E-06	2.4E-05
452	4.4E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.6E-09	4.9E-06	2.5E-05
453	4.4E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	4.9E-06	2.5E-05
454	4.5E-01	5.5E-05	1.0E-03	2.6E-08	1.6E-01	6.6E-01	2.7E-09	4.9E-06	2.5E-05
455	5.4E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	6.0E-06	3.0E-05
456	5.4E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	6.0E-06	3.0E-05
457	5.5E-01	5.5E-05	1.0E-03	3.2E-08	1.6E-01	6.6E-01	3.3E-09	6.0E-06	3.0E-05
458	5.4E-01	5.5E-05	1.0E-03	3.1E-08	1.6E-01	6.6E-01	3.2E-09	6.0E-06	3.0E-05
459	6.8E-01	5.5E-05	1.0E-03	4.0E-08	1.6E-01	6.6E-01	4.1E-09	7.6E-06	3.8E-05
460	6.8E-01	5.5E-05	1.0E-03	4.0E-08	1.6E-01	6.6E-01	4.1E-09	7.6E-06	3.8E-05
461	6.8E-01	5.5E-05	1.0E-03	4.0E-08	1.6E-01	6.6E-01	4.1E-09	7.6E-06	3.8E-05
462	7.8E-01	5.5E-05	1.0E-03	4.5E-08	1.6E-01	6.6E-01	4.7E-09	8.7E-06	4.3E-05
463	9.7E-01	5.5E-05	1.0E-03	5.6E-08	1.6E-01	6.6E-01	5.8E-09	1.1E-05	5.4E-05
464	7.9E-01	5.5E-05	1.0E-03	4.6E-08	1.6E-01	6.6E-01	4.7E-09	8.8E-06	4.4E-05
465	1.0E+00	5.5E-05	1.0E-03	5.8E-08	1.6E-01	6.6E-01	6.0E-09	1.1E-05	5.6E-05
466	1.3E+00	5.5E-05	1.0E-03	7.6E-08	1.6E-01	6.6E-01	7.8E-09	1.4E-05	7.2E-05
467	1.8E+00	5.5E-05	1.0E-03	1.0E-07	1.6E-01	6.6E-01	1.1E-08	2.0E-05	9.8E-05
468	7.7E-01	5.5E-05	1.0E-03	4.4E-08	1.6E-01	6.6E-01	4.6E-09	8.5E-06	4.3E-05
469	9.8E-01	5.5E-05	1.0E-03	5.7E-08	1.6E-01	6.6E-01	5.9E-09	1.1E-05	5.4E-05
470	1.3E+00	5.5E-05	1.0E-03	7.6E-08	1.6E-01	6.6E-01	7.8E-09	1.4E-05	7.2E-05
471	1.8E+00	5.5E-05	1.0E-03	1.1E-07	1.6E-01	6.6E-01	1.1E-08	2.0E-05	1.0E-04
472	9.2E-01	5.5E-05	1.0E-03	5.3E-08	1.6E-01	6.6E-01	5.5E-09	1.0E-05	5.1E-05
473	1.2E+00	5.5E-05	1.0E-03	7.1E-08	1.6E-01	6.6E-01	7.4E-09	1.4E-05	6.8E-05
474	1.7E+00	5.5E-05	1.0E-03	1.0E-07	1.6E-01	6.6E-01	1.0E-08	1.9E-05	9.6E-05
475	8.3E-01	5.5E-05	1.0E-03	4.8E-08	1.6E-01	6.6E-01	5.0E-09	9.2E-06	4.6E-05
476	1.1E+00	5.5E-05	1.0E-03	6.4E-08	1.6E-01	6.6E-01	6.6E-09	1.2E-05	6.1E-05
477	1.5E+00	5.5E-05	1.0E-03	8.9E-08	1.6E-01	6.6E-01	9.2E-09	1.7E-05	8.5E-05

5. Risk by Construction Phase

h. Risk From Paving - Mitigated Residential

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
1	2.8E-01	4.4E-04	1.0E-03	1.3E-07	1.6E-01	6.3E-02	1.3E-09	2.5E-05	1.3E-04
2	3.0E-01	4.4E-04	1.0E-03	1.4E-07	1.6E-01	6.3E-02	1.4E-09	2.6E-05	1.3E-04
3	3.1E-01	4.4E-04	1.0E-03	1.4E-07	1.6E-01	6.3E-02	1.4E-09	2.7E-05	1.4E-04
4	3.2E-01	4.4E-04	1.0E-03	1.5E-07	1.6E-01	6.3E-02	1.5E-09	2.8E-05	1.4E-04
5	3.3E-01	4.4E-04	1.0E-03	1.5E-07	1.6E-01	6.3E-02	1.5E-09	2.9E-05	1.4E-04
6	3.4E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.5E-09	3.0E-05	1.5E-04
7	3.5E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.1E-05	1.5E-04
8	3.6E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.1E-05	1.6E-04
9	3.7E-01	4.4E-04	1.0E-03	1.7E-07	1.6E-01	6.3E-02	1.7E-09	3.3E-05	1.6E-04
10	3.8E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.7E-09	3.4E-05	1.7E-04
11	4.0E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.8E-09	3.5E-05	1.8E-04
12	4.1E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.9E-09	3.6E-05	1.8E-04
13	4.3E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	1.9E-09	3.8E-05	1.9E-04
14	4.3E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	2.0E-09	3.8E-05	1.9E-04
15	4.3E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	2.0E-09	3.8E-05	1.9E-04
16	4.2E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.9E-09	3.7E-05	1.9E-04
17	3.2E-01	4.4E-04	1.0E-03	1.5E-07	1.6E-01	6.3E-02	1.5E-09	2.8E-05	1.4E-04
18	3.4E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.5E-09	3.0E-05	1.5E-04
19	3.6E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.1E-05	1.6E-04
20	3.7E-01	4.4E-04	1.0E-03	1.7E-07	1.6E-01	6.3E-02	1.7E-09	3.3E-05	1.6E-04
21	3.9E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.8E-09	3.4E-05	1.7E-04
22	4.0E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.8E-09	3.5E-05	1.8E-04
23	5.2E-01	4.4E-04	1.0E-03	2.4E-07	1.6E-01	6.3E-02	2.4E-09	4.6E-05	2.3E-04
24	5.3E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.4E-09	4.7E-05	2.3E-04
25	5.3E-01	4.4E-04	1.0E-03	2.4E-07	1.6E-01	6.3E-02	2.4E-09	4.7E-05	2.3E-04
26	5.2E-01	4.4E-04	1.0E-03	2.4E-07	1.6E-01	6.3E-02	2.4E-09	4.5E-05	2.3E-04
27	5.0E-01	4.4E-04	1.0E-03	2.3E-07	1.6E-01	6.3E-02	2.3E-09	4.4E-05	2.2E-04
28	3.5E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.1E-05	1.6E-04
29	4.1E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.9E-09	3.6E-05	1.8E-04
30	4.3E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	2.0E-09	3.8E-05	1.9E-04
31	4.6E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.1E-09	4.0E-05	2.0E-04
32	4.8E-01	4.4E-04	1.0E-03	2.2E-07	1.6E-01	6.3E-02	2.2E-09	4.3E-05	2.1E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

				Onsite - Cancer Risk				Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
33	5.0E-01	4.4E-04	1.0E-03	2.3E-07	1.6E-01	6.3E-02	2.3E-09	4.4E-05	2.2E-04
34	5.2E-01	4.4E-04	1.0E-03	2.4E-07	1.6E-01	6.3E-02	2.4E-09	4.6E-05	2.3E-04
35	5.5E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.5E-09	4.8E-05	2.4E-04
36	5.7E-01	4.4E-04	1.0E-03	2.6E-07	1.6E-01	6.3E-02	2.6E-09	5.0E-05	2.5E-04
37	6.3E-01	4.4E-04	1.0E-03	2.9E-07	1.6E-01	6.3E-02	2.9E-09	5.6E-05	2.8E-04
38	6.6E-01	4.4E-04	1.0E-03	3.0E-07	1.6E-01	6.3E-02	3.0E-09	5.8E-05	2.9E-04
39	6.7E-01	4.4E-04	1.0E-03	3.1E-07	1.6E-01	6.3E-02	3.1E-09	5.9E-05	3.0E-04
40	6.5E-01	4.4E-04	1.0E-03	3.0E-07	1.6E-01	6.3E-02	3.0E-09	5.7E-05	2.9E-04
41	6.2E-01	4.4E-04	1.0E-03	2.9E-07	1.6E-01	6.3E-02	2.8E-09	5.5E-05	2.8E-04
42	5.9E-01	4.4E-04	1.0E-03	2.7E-07	1.6E-01	6.3E-02	2.7E-09	5.2E-05	2.6E-04
43	3.9E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.8E-09	3.4E-05	1.7E-04
44	4.3E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	1.9E-09	3.8E-05	1.9E-04
45	4.7E-01	4.4E-04	1.0E-03	2.2E-07	1.6E-01	6.3E-02	2.1E-09	4.1E-05	2.1E-04
46	5.5E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.5E-09	4.8E-05	2.4E-04
47	5.9E-01	4.4E-04	1.0E-03	2.7E-07	1.6E-01	6.3E-02	2.7E-09	5.2E-05	2.6E-04
48	6.2E-01	4.4E-04	1.0E-03	2.9E-07	1.6E-01	6.3E-02	2.8E-09	5.5E-05	2.7E-04
49	6.5E-01	4.4E-04	1.0E-03	3.0E-07	1.6E-01	6.3E-02	3.0E-09	5.8E-05	2.9E-04
50	6.9E-01	4.4E-04	1.0E-03	3.2E-07	1.6E-01	6.3E-02	3.2E-09	6.1E-05	3.1E-04
51	7.3E-01	4.4E-04	1.0E-03	3.4E-07	1.6E-01	6.3E-02	3.3E-09	6.4E-05	3.2E-04
52	8.2E-01	4.4E-04	1.0E-03	3.8E-07	1.6E-01	6.3E-02	3.8E-09	7.3E-05	3.6E-04
53	8.6E-01	4.4E-04	1.0E-03	3.9E-07	1.6E-01	6.3E-02	3.9E-09	7.5E-05	3.8E-04
54	8.8E-01	4.4E-04	1.0E-03	4.0E-07	1.6E-01	6.3E-02	4.0E-09	7.7E-05	3.9E-04
55	8.9E-01	4.4E-04	1.0E-03	4.1E-07	1.6E-01	6.3E-02	4.1E-09	7.8E-05	3.9E-04
56	8.9E-01	4.4E-04	1.0E-03	4.1E-07	1.6E-01	6.3E-02	4.1E-09	7.8E-05	3.9E-04
57	8.1E-01	4.4E-04	1.0E-03	3.7E-07	1.6E-01	6.3E-02	3.7E-09	7.1E-05	3.6E-04
58	7.6E-01	4.4E-04	1.0E-03	3.5E-07	1.6E-01	6.3E-02	3.5E-09	6.7E-05	3.3E-04
59	7.0E-01	4.4E-04	1.0E-03	3.2E-07	1.6E-01	6.3E-02	3.2E-09	6.2E-05	3.1E-04
60	4.2E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.9E-09	3.7E-05	1.8E-04
61	4.7E-01	4.4E-04	1.0E-03	2.2E-07	1.6E-01	6.3E-02	2.1E-09	4.1E-05	2.1E-04
62	5.3E-01	4.4E-04	1.0E-03	2.4E-07	1.6E-01	6.3E-02	2.4E-09	4.6E-05	2.3E-04
63	5.9E-01	4.4E-04	1.0E-03	2.7E-07	1.6E-01	6.3E-02	2.7E-09	5.2E-05	2.6E-04
64	6.6E-01	4.4E-04	1.0E-03	3.0E-07	1.6E-01	6.3E-02	3.0E-09	5.8E-05	2.9E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
65	8.4E-01	4.4E-04	1.0E-03	3.9E-07	1.6E-01	6.3E-02	3.8E-09	7.4E-05	3.7E-04
66	9.1E-01	4.4E-04	1.0E-03	4.2E-07	1.6E-01	6.3E-02	4.1E-09	8.0E-05	4.0E-04
67	9.7E-01	4.4E-04	1.0E-03	4.5E-07	1.6E-01	6.3E-02	4.4E-09	8.6E-05	4.3E-04
68	1.1E+00	4.4E-04	1.0E-03	5.2E-07	1.6E-01	6.3E-02	5.1E-09	9.9E-05	4.9E-04
69	1.2E+00	4.4E-04	1.0E-03	5.4E-07	1.6E-01	6.3E-02	5.4E-09	1.0E-04	5.2E-04
70	1.2E+00	4.4E-04	1.0E-03	5.5E-07	1.6E-01	6.3E-02	5.5E-09	1.1E-04	5.3E-04
71	1.2E+00	4.4E-04	1.0E-03	5.6E-07	1.6E-01	6.3E-02	5.5E-09	1.1E-04	5.3E-04
72	1.2E+00	4.4E-04	1.0E-03	5.5E-07	1.6E-01	6.3E-02	5.5E-09	1.1E-04	5.3E-04
73	4.4E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	2.0E-09	3.9E-05	1.9E-04
74	5.0E-01	4.4E-04	1.0E-03	2.3E-07	1.6E-01	6.3E-02	2.3E-09	4.4E-05	2.2E-04
75	5.8E-01	4.4E-04	1.0E-03	2.7E-07	1.6E-01	6.3E-02	2.6E-09	5.1E-05	2.5E-04
76	6.7E-01	4.4E-04	1.0E-03	3.1E-07	1.6E-01	6.3E-02	3.0E-09	5.9E-05	2.9E-04
77	7.7E-01	4.4E-04	1.0E-03	3.6E-07	1.6E-01	6.3E-02	3.5E-09	6.8E-05	3.4E-04
78	8.8E-01	4.4E-04	1.0E-03	4.1E-07	1.6E-01	6.3E-02	4.0E-09	7.8E-05	3.9E-04
79	1.0E+00	4.4E-04	1.0E-03	4.6E-07	1.6E-01	6.3E-02	4.6E-09	8.8E-05	4.4E-04
80	1.4E+00	4.4E-04	1.0E-03	6.3E-07	1.6E-01	6.3E-02	6.2E-09	1.2E-04	6.0E-04
81	1.6E+00	4.4E-04	1.0E-03	7.5E-07	1.6E-01	6.3E-02	7.4E-09	1.4E-04	7.2E-04
82	1.7E+00	4.4E-04	1.0E-03	7.9E-07	1.6E-01	6.3E-02	7.8E-09	1.5E-04	7.6E-04
83	1.7E+00	4.4E-04	1.0E-03	8.0E-07	1.6E-01	6.3E-02	7.9E-09	1.5E-04	7.7E-04
84	1.7E+00	4.4E-04	1.0E-03	8.0E-07	1.6E-01	6.3E-02	7.9E-09	1.5E-04	7.6E-04
85	1.7E+00	4.4E-04	1.0E-03	7.7E-07	1.6E-01	6.3E-02	7.6E-09	1.5E-04	7.3E-04
86	4.5E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.0E-09	3.9E-05	2.0E-04
87	5.2E-01	4.4E-04	1.0E-03	2.4E-07	1.6E-01	6.3E-02	2.4E-09	4.6E-05	2.3E-04
88	6.2E-01	4.4E-04	1.0E-03	2.9E-07	1.6E-01	6.3E-02	2.8E-09	5.5E-05	2.7E-04
89	7.4E-01	4.4E-04	1.0E-03	3.4E-07	1.6E-01	6.3E-02	3.4E-09	6.5E-05	3.3E-04
90	8.8E-01	4.4E-04	1.0E-03	4.1E-07	1.6E-01	6.3E-02	4.0E-09	7.8E-05	3.9E-04
91	1.1E+00	4.4E-04	1.0E-03	4.9E-07	1.6E-01	6.3E-02	4.8E-09	9.3E-05	4.7E-04
92	1.3E+00	4.4E-04	1.0E-03	5.9E-07	1.6E-01	6.3E-02	5.8E-09	1.1E-04	5.6E-04
93	1.5E+00	4.4E-04	1.0E-03	7.0E-07	1.6E-01	6.3E-02	6.9E-09	1.3E-04	6.7E-04
94	1.8E+00	4.4E-04	1.0E-03	8.2E-07	1.6E-01	6.3E-02	8.1E-09	1.6E-04	7.8E-04
95	2.6E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.3E-04	1.2E-03
96	2.4E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.1E-04	1.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
97	4.6E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.1E-09	4.0E-05	2.0E-04
98	5.4E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.4E-09	4.7E-05	2.4E-04
99	6.4E-01	4.4E-04	1.0E-03	2.9E-07	1.6E-01	6.3E-02	2.9E-09	5.6E-05	2.8E-04
100	1.2E+00	4.4E-04	1.0E-03	5.6E-07	1.6E-01	6.3E-02	5.5E-09	1.1E-04	5.4E-04
101	1.5E+00	4.4E-04	1.0E-03	7.1E-07	1.6E-01	6.3E-02	7.1E-09	1.4E-04	6.8E-04
102	2.0E+00	4.4E-04	1.0E-03	9.2E-07	1.6E-01	6.3E-02	9.2E-09	1.8E-04	8.8E-04
103	2.6E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.3E-04	1.2E-03
104	4.5E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.0E-09	3.9E-05	2.0E-04
105	5.3E-01	4.4E-04	1.0E-03	2.4E-07	1.6E-01	6.3E-02	2.4E-09	4.7E-05	2.3E-04
106	6.4E-01	4.4E-04	1.0E-03	3.0E-07	1.6E-01	6.3E-02	2.9E-09	5.6E-05	2.8E-04
107	2.5E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.2E-04	1.1E-03
108	3.8E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.7E-08	3.4E-04	1.7E-03
109	4.3E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	1.9E-09	3.8E-05	1.9E-04
110	5.1E-01	4.4E-04	1.0E-03	2.3E-07	1.6E-01	6.3E-02	2.3E-09	4.5E-05	2.2E-04
111	6.2E-01	4.4E-04	1.0E-03	2.8E-07	1.6E-01	6.3E-02	2.8E-09	5.4E-05	2.7E-04
112	2.8E+00	4.4E-04	1.0E-03	1.3E-06	1.6E-01	6.3E-02	1.3E-08	2.4E-04	1.2E-03
113	4.7E+00	4.4E-04	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.1E-08	4.1E-04	2.1E-03
114	4.0E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.8E-09	3.5E-05	1.8E-04
115	4.8E-01	4.4E-04	1.0E-03	2.2E-07	1.6E-01	6.3E-02	2.2E-09	4.2E-05	2.1E-04
116	5.8E-01	4.4E-04	1.0E-03	2.7E-07	1.6E-01	6.3E-02	2.6E-09	5.1E-05	2.5E-04
117	7.2E-01	4.4E-04	1.0E-03	3.3E-07	1.6E-01	6.3E-02	3.3E-09	6.3E-05	3.2E-04
118	2.7E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.4E-04	1.2E-03
119	4.7E+00	4.4E-04	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.2E-08	4.2E-04	2.1E-03
120	3.7E-01	4.4E-04	1.0E-03	1.7E-07	1.6E-01	6.3E-02	1.7E-09	3.3E-05	1.7E-04
121	4.4E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	2.0E-09	3.9E-05	1.9E-04
122	5.3E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.4E-09	4.7E-05	2.4E-04
123	6.6E-01	4.4E-04	1.0E-03	3.0E-07	1.6E-01	6.3E-02	3.0E-09	5.8E-05	2.9E-04
124	2.3E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.0E-04	1.0E-03
125	4.0E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.5E-04	1.8E-03
126	3.5E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.1E-05	1.5E-04
127	4.1E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.9E-09	3.6E-05	1.8E-04
128	4.9E-01	4.4E-04	1.0E-03	2.2E-07	1.6E-01	6.3E-02	2.2E-09	4.3E-05	2.1E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
129	5.9E-01	4.4E-04	1.0E-03	2.7E-07	1.6E-01	6.3E-02	2.7E-09	5.2E-05	2.6E-04
130	7.4E-01	4.4E-04	1.0E-03	3.4E-07	1.6E-01	6.3E-02	3.4E-09	6.6E-05	3.3E-04
131	9.7E-01	4.4E-04	1.0E-03	4.5E-07	1.6E-01	6.3E-02	4.4E-09	8.5E-05	4.3E-04
132	1.3E+00	4.4E-04	1.0E-03	6.0E-07	1.6E-01	6.3E-02	6.0E-09	1.2E-04	5.8E-04
133	1.9E+00	4.4E-04	1.0E-03	8.8E-07	1.6E-01	6.3E-02	8.7E-09	1.7E-04	8.4E-04
134	3.0E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.6E-04	1.3E-03
135	5.4E+00	4.4E-04	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.4E-08	4.7E-04	2.4E-03
136	3.2E-01	4.4E-04	1.0E-03	1.5E-07	1.6E-01	6.3E-02	1.5E-09	2.9E-05	1.4E-04
137	3.8E-01	4.4E-04	1.0E-03	1.7E-07	1.6E-01	6.3E-02	1.7E-09	3.3E-05	1.7E-04
138	4.5E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.0E-09	3.9E-05	2.0E-04
139	5.4E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.4E-09	4.7E-05	2.4E-04
140	6.6E-01	4.4E-04	1.0E-03	3.1E-07	1.6E-01	6.3E-02	3.0E-09	5.8E-05	2.9E-04
141	8.4E-01	4.4E-04	1.0E-03	3.9E-07	1.6E-01	6.3E-02	3.8E-09	7.4E-05	3.7E-04
142	1.1E+00	4.4E-04	1.0E-03	5.1E-07	1.6E-01	6.3E-02	5.0E-09	9.7E-05	4.9E-04
143	1.5E+00	4.4E-04	1.0E-03	6.9E-07	1.6E-01	6.3E-02	6.9E-09	1.3E-04	6.6E-04
144	2.1E+00	4.4E-04	1.0E-03	9.7E-07	1.6E-01	6.3E-02	9.6E-09	1.9E-04	9.3E-04
145	3.1E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.7E-04	1.4E-03
146	3.0E-01	4.4E-04	1.0E-03	1.4E-07	1.6E-01	6.3E-02	1.4E-09	2.7E-05	1.3E-04
147	3.5E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.1E-05	1.5E-04
148	4.1E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.9E-09	3.6E-05	1.8E-04
149	4.8E-01	4.4E-04	1.0E-03	2.2E-07	1.6E-01	6.3E-02	2.2E-09	4.3E-05	2.1E-04
150	5.9E-01	4.4E-04	1.0E-03	2.7E-07	1.6E-01	6.3E-02	2.7E-09	5.2E-05	2.6E-04
151	7.2E-01	4.4E-04	1.0E-03	3.3E-07	1.6E-01	6.3E-02	3.3E-09	6.4E-05	3.2E-04
152	9.0E-01	4.4E-04	1.0E-03	4.1E-07	1.6E-01	6.3E-02	4.1E-09	7.9E-05	4.0E-04
153	1.2E+00	4.4E-04	1.0E-03	5.3E-07	1.6E-01	6.3E-02	5.3E-09	1.0E-04	5.1E-04
154	1.5E+00	4.4E-04	1.0E-03	6.7E-07	1.6E-01	6.3E-02	6.7E-09	1.3E-04	6.5E-04
155	1.9E+00	4.4E-04	1.0E-03	8.7E-07	1.6E-01	6.3E-02	8.6E-09	1.7E-04	8.3E-04
156	2.8E-01	4.4E-04	1.0E-03	1.3E-07	1.6E-01	6.3E-02	1.3E-09	2.5E-05	1.2E-04
157	3.2E-01	4.4E-04	1.0E-03	1.5E-07	1.6E-01	6.3E-02	1.5E-09	2.8E-05	1.4E-04
158	3.7E-01	4.4E-04	1.0E-03	1.7E-07	1.6E-01	6.3E-02	1.7E-09	3.3E-05	1.6E-04
159	4.3E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	2.0E-09	3.8E-05	1.9E-04
160	5.2E-01	4.4E-04	1.0E-03	2.4E-07	1.6E-01	6.3E-02	2.4E-09	4.5E-05	2.3E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
161	6.2E-01	4.4E-04	1.0E-03	2.9E-07	1.6E-01	6.3E-02	2.8E-09	5.5E-05	2.7E-04
162	7.4E-01	4.4E-04	1.0E-03	3.4E-07	1.6E-01	6.3E-02	3.4E-09	6.6E-05	3.3E-04
163	9.0E-01	4.4E-04	1.0E-03	4.1E-07	1.6E-01	6.3E-02	4.1E-09	7.9E-05	4.0E-04
164	1.1E+00	4.4E-04	1.0E-03	4.9E-07	1.6E-01	6.3E-02	4.9E-09	9.4E-05	4.7E-04
165	1.3E+00	4.4E-04	1.0E-03	6.0E-07	1.6E-01	6.3E-02	6.0E-09	1.2E-04	5.8E-04
166	2.6E-01	4.4E-04	1.0E-03	1.2E-07	1.6E-01	6.3E-02	1.2E-09	2.3E-05	1.1E-04
167	2.9E-01	4.4E-04	1.0E-03	1.4E-07	1.6E-01	6.3E-02	1.3E-09	2.6E-05	1.3E-04
168	3.4E-01	4.4E-04	1.0E-03	1.5E-07	1.6E-01	6.3E-02	1.5E-09	3.0E-05	1.5E-04
169	3.9E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.8E-09	3.4E-05	1.7E-04
170	4.5E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.1E-09	4.0E-05	2.0E-04
171	5.3E-01	4.4E-04	1.0E-03	2.4E-07	1.6E-01	6.3E-02	2.4E-09	4.7E-05	2.3E-04
172	6.1E-01	4.4E-04	1.0E-03	2.8E-07	1.6E-01	6.3E-02	2.8E-09	5.4E-05	2.7E-04
173	7.1E-01	4.4E-04	1.0E-03	3.3E-07	1.6E-01	6.3E-02	3.2E-09	6.2E-05	3.1E-04
174	8.2E-01	4.4E-04	1.0E-03	3.8E-07	1.6E-01	6.3E-02	3.7E-09	7.2E-05	3.6E-04
175	9.5E-01	4.4E-04	1.0E-03	4.4E-07	1.6E-01	6.3E-02	4.3E-09	8.4E-05	4.2E-04
176	2.4E-01	4.4E-04	1.0E-03	1.1E-07	1.6E-01	6.3E-02	1.1E-09	2.1E-05	1.1E-04
177	2.7E-01	4.4E-04	1.0E-03	1.2E-07	1.6E-01	6.3E-02	1.2E-09	2.4E-05	1.2E-04
178	3.0E-01	4.4E-04	1.0E-03	1.4E-07	1.6E-01	6.3E-02	1.4E-09	2.7E-05	1.3E-04
179	3.5E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.0E-05	1.5E-04
180	3.9E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.8E-09	3.5E-05	1.7E-04
181	4.5E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.1E-09	4.0E-05	2.0E-04
182	5.1E-01	4.4E-04	1.0E-03	2.3E-07	1.6E-01	6.3E-02	2.3E-09	4.5E-05	2.2E-04
183	5.7E-01	4.4E-04	1.0E-03	2.6E-07	1.6E-01	6.3E-02	2.6E-09	5.0E-05	2.5E-04
184	6.4E-01	4.4E-04	1.0E-03	2.9E-07	1.6E-01	6.3E-02	2.9E-09	5.6E-05	2.8E-04
185	7.2E-01	4.4E-04	1.0E-03	3.3E-07	1.6E-01	6.3E-02	3.3E-09	6.4E-05	3.2E-04
186	5.9E-01	4.4E-04	1.0E-03	2.7E-07	1.6E-01	6.3E-02	2.7E-09	5.2E-05	2.6E-04
187	5.2E-01	4.4E-04	1.0E-03	2.4E-07	1.6E-01	6.3E-02	2.4E-09	4.6E-05	2.3E-04
188	4.7E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.1E-09	4.1E-05	2.1E-04
189	2.2E-01	4.4E-04	1.0E-03	1.0E-07	1.6E-01	6.3E-02	1.0E-09	2.0E-05	9.8E-05
190	2.5E-01	4.4E-04	1.0E-03	1.1E-07	1.6E-01	6.3E-02	1.1E-09	2.2E-05	1.1E-04
191	2.7E-01	4.4E-04	1.0E-03	1.3E-07	1.6E-01	6.3E-02	1.3E-09	2.4E-05	1.2E-04
192	3.1E-01	4.4E-04	1.0E-03	1.4E-07	1.6E-01	6.3E-02	1.4E-09	2.7E-05	1.4E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
193	3.5E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.0E-05	1.5E-04
194	3.8E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.7E-09	3.4E-05	1.7E-04
195	4.3E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	1.9E-09	3.8E-05	1.9E-04
196	4.7E-01	4.4E-04	1.0E-03	2.2E-07	1.6E-01	6.3E-02	2.1E-09	4.1E-05	2.1E-04
197	5.6E-01	4.4E-04	1.0E-03	2.6E-07	1.6E-01	6.3E-02	2.6E-09	5.0E-05	2.5E-04
198	6.1E-01	4.4E-04	1.0E-03	2.8E-07	1.6E-01	6.3E-02	2.8E-09	5.3E-05	2.7E-04
199	5.7E-01	4.4E-04	1.0E-03	2.6E-07	1.6E-01	6.3E-02	2.6E-09	5.1E-05	2.5E-04
200	5.3E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.4E-09	4.7E-05	2.4E-04
201	4.9E-01	4.4E-04	1.0E-03	2.3E-07	1.6E-01	6.3E-02	2.2E-09	4.3E-05	2.2E-04
202	4.5E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.1E-09	4.0E-05	2.0E-04
203	4.1E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.9E-09	3.6E-05	1.8E-04
204	2.0E-01	4.4E-04	1.0E-03	9.4E-08	1.6E-01	6.3E-02	9.4E-10	1.8E-05	9.0E-05
205	2.3E-01	4.4E-04	1.0E-03	1.0E-07	1.6E-01	6.3E-02	1.0E-09	2.0E-05	9.9E-05
206	2.5E-01	4.4E-04	1.0E-03	1.1E-07	1.6E-01	6.3E-02	1.1E-09	2.2E-05	1.1E-04
207	2.7E-01	4.4E-04	1.0E-03	1.3E-07	1.6E-01	6.3E-02	1.3E-09	2.4E-05	1.2E-04
208	3.0E-01	4.4E-04	1.0E-03	1.4E-07	1.6E-01	6.3E-02	1.4E-09	2.7E-05	1.3E-04
209	3.3E-01	4.4E-04	1.0E-03	1.5E-07	1.6E-01	6.3E-02	1.5E-09	2.9E-05	1.5E-04
210	3.6E-01	4.4E-04	1.0E-03	1.7E-07	1.6E-01	6.3E-02	1.7E-09	3.2E-05	1.6E-04
211	4.2E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	1.9E-09	3.7E-05	1.9E-04
212	4.5E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.1E-09	4.0E-05	2.0E-04
213	5.0E-01	4.4E-04	1.0E-03	2.3E-07	1.6E-01	6.3E-02	2.3E-09	4.4E-05	2.2E-04
214	5.0E-01	4.4E-04	1.0E-03	2.3E-07	1.6E-01	6.3E-02	2.3E-09	4.4E-05	2.2E-04
215	4.9E-01	4.4E-04	1.0E-03	2.2E-07	1.6E-01	6.3E-02	2.2E-09	4.3E-05	2.1E-04
216	4.7E-01	4.4E-04	1.0E-03	2.2E-07	1.6E-01	6.3E-02	2.1E-09	4.1E-05	2.1E-04
217	4.4E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	2.0E-09	3.9E-05	2.0E-04
218	4.2E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.9E-09	3.7E-05	1.8E-04
219	3.9E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.8E-09	3.4E-05	1.7E-04
220	3.5E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.1E-05	1.6E-04
221	1.9E-01	4.4E-04	1.0E-03	8.7E-08	1.6E-01	6.3E-02	8.6E-10	1.7E-05	8.3E-05
222	2.1E-01	4.4E-04	1.0E-03	9.5E-08	1.6E-01	6.3E-02	9.4E-10	1.8E-05	9.1E-05
223	2.2E-01	4.4E-04	1.0E-03	1.0E-07	1.6E-01	6.3E-02	1.0E-09	2.0E-05	9.9E-05
224	2.5E-01	4.4E-04	1.0E-03	1.1E-07	1.6E-01	6.3E-02	1.1E-09	2.2E-05	1.1E-04

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
225	2.7E-01	4.4E-04	1.0E-03	1.2E-07	1.6E-01	6.3E-02	1.2E-09	2.3E-05	1.2E-04
226	3.1E-01	4.4E-04	1.0E-03	1.4E-07	1.6E-01	6.3E-02	1.4E-09	2.8E-05	1.4E-04
227	3.3E-01	4.4E-04	1.0E-03	1.5E-07	1.6E-01	6.3E-02	1.5E-09	2.9E-05	1.5E-04
228	3.5E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.1E-05	1.5E-04
229	3.7E-01	4.4E-04	1.0E-03	1.7E-07	1.6E-01	6.3E-02	1.7E-09	3.3E-05	1.6E-04
230	4.0E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.8E-09	3.6E-05	1.8E-04
231	4.0E-01	4.4E-04	1.0E-03	1.9E-07	1.6E-01	6.3E-02	1.8E-09	3.5E-05	1.8E-04
232	4.0E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.8E-09	3.5E-05	1.8E-04
233	3.9E-01	4.4E-04	1.0E-03	1.8E-07	1.6E-01	6.3E-02	1.8E-09	3.4E-05	1.7E-04
234	3.7E-01	4.4E-04	1.0E-03	1.7E-07	1.6E-01	6.3E-02	1.7E-09	3.3E-05	1.6E-04
235	3.5E-01	4.4E-04	1.0E-03	1.6E-07	1.6E-01	6.3E-02	1.6E-09	3.1E-05	1.6E-04
236	3.3E-01	4.4E-04	1.0E-03	1.5E-07	1.6E-01	6.3E-02	1.5E-09	2.9E-05	1.5E-04
237	3.1E-01	4.4E-04	1.0E-03	1.4E-07	1.6E-01	6.3E-02	1.4E-09	2.7E-05	1.4E-04
238	1.8E+00	4.4E-04	1.0E-03	8.3E-07	1.6E-01	6.3E-02	8.2E-09	1.6E-04	7.9E-04
239	1.8E+00	4.4E-04	1.0E-03	8.4E-07	1.6E-01	6.3E-02	8.3E-09	1.6E-04	8.0E-04
240	1.9E+00	4.4E-04	1.0E-03	8.6E-07	1.6E-01	6.3E-02	8.5E-09	1.6E-04	8.2E-04
241	1.9E+00	4.4E-04	1.0E-03	8.7E-07	1.6E-01	6.3E-02	8.6E-09	1.7E-04	8.3E-04
242	1.9E+00	4.4E-04	1.0E-03	8.8E-07	1.6E-01	6.3E-02	8.7E-09	1.7E-04	8.4E-04
243	1.9E+00	4.4E-04	1.0E-03	8.9E-07	1.6E-01	6.3E-02	8.8E-09	1.7E-04	8.5E-04
244	2.0E+00	4.4E-04	1.0E-03	9.0E-07	1.6E-01	6.3E-02	8.9E-09	1.7E-04	8.6E-04
245	2.0E+00	4.4E-04	1.0E-03	9.2E-07	1.6E-01	6.3E-02	9.1E-09	1.8E-04	8.8E-04
246	2.0E+00	4.4E-04	1.0E-03	9.4E-07	1.6E-01	6.3E-02	9.3E-09	1.8E-04	9.0E-04
247	2.1E+00	4.4E-04	1.0E-03	9.5E-07	1.6E-01	6.3E-02	9.4E-09	1.8E-04	9.1E-04
248	2.1E+00	4.4E-04	1.0E-03	9.7E-07	1.6E-01	6.3E-02	9.6E-09	1.9E-04	9.3E-04
249	2.1E+00	4.4E-04	1.0E-03	9.8E-07	1.6E-01	6.3E-02	9.7E-09	1.9E-04	9.4E-04
250	2.2E+00	4.4E-04	1.0E-03	9.9E-07	1.6E-01	6.3E-02	9.8E-09	1.9E-04	9.5E-04
251	2.2E+00	4.4E-04	1.0E-03	1.0E-06	1.6E-01	6.3E-02	9.9E-09	1.9E-04	9.6E-04
252	2.2E+00	4.4E-04	1.0E-03	1.0E-06	1.6E-01	6.3E-02	1.0E-08	1.9E-04	9.6E-04
253	2.2E+00	4.4E-04	1.0E-03	1.0E-06	1.6E-01	6.3E-02	1.0E-08	2.0E-04	9.8E-04
254	2.3E+00	4.4E-04	1.0E-03	1.0E-06	1.6E-01	6.3E-02	1.0E-08	2.0E-04	1.0E-03
255	2.3E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.0E-04	1.0E-03
256	2.3E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.1E-04	1.0E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
257	2.4E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.1E-04	1.0E-03
258	2.4E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.1E-04	1.1E-03
259	2.4E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.1E-04	1.1E-03
260	2.5E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.2E-04	1.1E-03
261	2.5E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.1E-08	2.2E-04	1.1E-03
262	2.6E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.3E-04	1.1E-03
263	2.6E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.3E-04	1.1E-03
264	2.6E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.3E-04	1.2E-03
265	2.7E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.4E-04	1.2E-03
266	2.7E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.4E-04	1.2E-03
267	2.7E+00	4.4E-04	1.0E-03	1.3E-06	1.6E-01	6.3E-02	1.2E-08	2.4E-04	1.2E-03
268	2.7E+00	4.4E-04	1.0E-03	1.3E-06	1.6E-01	6.3E-02	1.3E-08	2.4E-04	1.2E-03
269	2.8E+00	4.4E-04	1.0E-03	1.3E-06	1.6E-01	6.3E-02	1.3E-08	2.4E-04	1.2E-03
270	2.8E+00	4.4E-04	1.0E-03	1.3E-06	1.6E-01	6.3E-02	1.3E-08	2.4E-04	1.2E-03
271	2.9E+00	4.4E-04	1.0E-03	1.3E-06	1.6E-01	6.3E-02	1.3E-08	2.6E-04	1.3E-03
272	3.0E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.3E-08	2.6E-04	1.3E-03
273	3.0E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.6E-04	1.3E-03
274	3.0E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.7E-04	1.3E-03
275	3.0E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.7E-04	1.3E-03
276	3.1E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.7E-04	1.3E-03
277	3.1E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.7E-04	1.4E-03
278	3.1E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.7E-04	1.4E-03
279	3.1E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.7E-04	1.3E-03
280	3.0E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.7E-04	1.3E-03
281	3.0E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.6E-04	1.3E-03
282	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.5E-08	3.0E-04	1.5E-03
283	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.0E-04	1.5E-03
284	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.0E-04	1.5E-03
285	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.0E-04	1.5E-03
286	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.0E-04	1.5E-03
287	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.0E-04	1.5E-03
288	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.0E-04	1.5E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
289	3.4E+00	4.4E-04	1.0E-03	1.5E-06	1.6E-01	6.3E-02	1.5E-08	3.0E-04	1.5E-03
290	3.3E+00	4.4E-04	1.0E-03	1.5E-06	1.6E-01	6.3E-02	1.5E-08	2.9E-04	1.5E-03
291	3.3E+00	4.4E-04	1.0E-03	1.5E-06	1.6E-01	6.3E-02	1.5E-08	2.9E-04	1.5E-03
292	3.3E+00	4.4E-04	1.0E-03	1.5E-06	1.6E-01	6.3E-02	1.5E-08	2.9E-04	1.4E-03
293	3.9E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.4E-04	1.7E-03
294	3.9E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.4E-04	1.7E-03
295	3.9E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.4E-04	1.7E-03
296	3.8E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.7E-08	3.4E-04	1.7E-03
297	3.8E+00	4.4E-04	1.0E-03	1.7E-06	1.6E-01	6.3E-02	1.7E-08	3.3E-04	1.7E-03
298	3.7E+00	4.4E-04	1.0E-03	1.7E-06	1.6E-01	6.3E-02	1.7E-08	3.3E-04	1.6E-03
299	3.7E+00	4.4E-04	1.0E-03	1.7E-06	1.6E-01	6.3E-02	1.7E-08	3.2E-04	1.6E-03
300	3.6E+00	4.4E-04	1.0E-03	1.7E-06	1.6E-01	6.3E-02	1.6E-08	3.2E-04	1.6E-03
301	3.5E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.1E-04	1.6E-03
302	3.5E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.1E-04	1.5E-03
303	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.5E-08	3.0E-04	1.5E-03
304	4.4E+00	4.4E-04	1.0E-03	2.0E-06	1.6E-01	6.3E-02	2.0E-08	3.8E-04	1.9E-03
305	4.3E+00	4.4E-04	1.0E-03	2.0E-06	1.6E-01	6.3E-02	2.0E-08	3.8E-04	1.9E-03
306	4.2E+00	4.4E-04	1.0E-03	2.0E-06	1.6E-01	6.3E-02	1.9E-08	3.7E-04	1.9E-03
307	4.2E+00	4.4E-04	1.0E-03	1.9E-06	1.6E-01	6.3E-02	1.9E-08	3.7E-04	1.8E-03
308	4.1E+00	4.4E-04	1.0E-03	1.9E-06	1.6E-01	6.3E-02	1.9E-08	3.6E-04	1.8E-03
309	4.0E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.5E-04	1.8E-03
310	3.9E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.5E-04	1.7E-03
311	3.8E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.7E-08	3.4E-04	1.7E-03
312	3.7E+00	4.4E-04	1.0E-03	1.7E-06	1.6E-01	6.3E-02	1.7E-08	3.3E-04	1.6E-03
313	3.6E+00	4.4E-04	1.0E-03	1.7E-06	1.6E-01	6.3E-02	1.7E-08	3.2E-04	1.6E-03
314	3.5E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.1E-04	1.6E-03
315	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.0E-04	1.5E-03
316	4.7E+00	4.4E-04	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.1E-08	4.1E-04	2.1E-03
317	4.6E+00	4.4E-04	1.0E-03	2.1E-06	1.6E-01	6.3E-02	2.1E-08	4.1E-04	2.0E-03
318	4.5E+00	4.4E-04	1.0E-03	2.1E-06	1.6E-01	6.3E-02	2.0E-08	3.9E-04	2.0E-03
319	4.4E+00	4.4E-04	1.0E-03	2.0E-06	1.6E-01	6.3E-02	2.0E-08	3.8E-04	1.9E-03
320	4.2E+00	4.4E-04	1.0E-03	2.0E-06	1.6E-01	6.3E-02	1.9E-08	3.7E-04	1.9E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
321	4.1E+00	4.4E-04	1.0E-03	1.9E-06	1.6E-01	6.3E-02	1.9E-08	3.6E-04	1.8E-03
322	4.0E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.5E-04	1.8E-03
323	3.8E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.4E-04	1.7E-03
324	3.7E+00	4.4E-04	1.0E-03	1.7E-06	1.6E-01	6.3E-02	1.7E-08	3.3E-04	1.6E-03
325	5.0E+00	4.4E-04	1.0E-03	2.3E-06	1.6E-01	6.3E-02	2.3E-08	4.4E-04	2.2E-03
326	4.9E+00	4.4E-04	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.2E-08	4.3E-04	2.1E-03
327	4.7E+00	4.4E-04	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.1E-08	4.1E-04	2.1E-03
328	4.5E+00	4.4E-04	1.0E-03	2.1E-06	1.6E-01	6.3E-02	2.1E-08	4.0E-04	2.0E-03
329	4.4E+00	4.4E-04	1.0E-03	2.0E-06	1.6E-01	6.3E-02	2.0E-08	3.8E-04	1.9E-03
330	4.2E+00	4.4E-04	1.0E-03	1.9E-06	1.6E-01	6.3E-02	1.9E-08	3.7E-04	1.9E-03
331	5.2E+00	4.4E-04	1.0E-03	2.4E-06	1.6E-01	6.3E-02	2.4E-08	4.6E-04	2.3E-03
332	5.0E+00	4.4E-04	1.0E-03	2.3E-06	1.6E-01	6.3E-02	2.3E-08	4.4E-04	2.2E-03
333	4.8E+00	4.4E-04	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.2E-08	4.2E-04	2.1E-03
334	4.6E+00	4.4E-04	1.0E-03	2.1E-06	1.6E-01	6.3E-02	2.1E-08	4.0E-04	2.0E-03
335	1.7E+00	4.4E-04	1.0E-03	8.0E-07	1.6E-01	6.3E-02	7.9E-09	1.5E-04	7.7E-04
336	1.8E+00	4.4E-04	1.0E-03	8.2E-07	1.6E-01	6.3E-02	8.1E-09	1.6E-04	7.9E-04
337	1.8E+00	4.4E-04	1.0E-03	8.4E-07	1.6E-01	6.3E-02	8.3E-09	1.6E-04	8.1E-04
338	1.9E+00	4.4E-04	1.0E-03	8.6E-07	1.6E-01	6.3E-02	8.5E-09	1.6E-04	8.2E-04
339	1.9E+00	4.4E-04	1.0E-03	8.7E-07	1.6E-01	6.3E-02	8.6E-09	1.7E-04	8.3E-04
340	1.9E+00	4.4E-04	1.0E-03	8.9E-07	1.6E-01	6.3E-02	8.8E-09	1.7E-04	8.5E-04
341	2.0E+00	4.4E-04	1.0E-03	9.2E-07	1.6E-01	6.3E-02	9.1E-09	1.8E-04	8.8E-04
342	2.0E+00	4.4E-04	1.0E-03	9.4E-07	1.6E-01	6.3E-02	9.3E-09	1.8E-04	9.0E-04
343	2.0E+00	4.4E-04	1.0E-03	9.4E-07	1.6E-01	6.3E-02	9.3E-09	1.8E-04	9.0E-04
344	2.1E+00	4.4E-04	1.0E-03	9.7E-07	1.6E-01	6.3E-02	9.6E-09	1.9E-04	9.3E-04
345	2.2E+00	4.4E-04	1.0E-03	1.0E-06	1.6E-01	6.3E-02	9.9E-09	1.9E-04	9.6E-04
346	2.2E+00	4.4E-04	1.0E-03	1.0E-06	1.6E-01	6.3E-02	1.0E-08	2.0E-04	9.9E-04
347	2.2E+00	4.4E-04	1.0E-03	1.0E-06	1.6E-01	6.3E-02	1.0E-08	2.0E-04	9.8E-04
348	2.3E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.0E-04	1.0E-03
349	2.4E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.1E-04	1.1E-03
350	2.5E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.2E-04	1.1E-03
351	2.4E+00	4.4E-04	1.0E-03	1.1E-06	1.6E-01	6.3E-02	1.1E-08	2.1E-04	1.1E-03
352	2.5E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.2E-04	1.1E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
353	2.6E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.3E-04	1.2E-03
354	2.7E+00	4.4E-04	1.0E-03	1.3E-06	1.6E-01	6.3E-02	1.3E-08	2.4E-04	1.2E-03
355	2.6E+00	4.4E-04	1.0E-03	1.2E-06	1.6E-01	6.3E-02	1.2E-08	2.3E-04	1.2E-03
356	2.8E+00	4.4E-04	1.0E-03	1.3E-06	1.6E-01	6.3E-02	1.3E-08	2.4E-04	1.2E-03
357	2.9E+00	4.4E-04	1.0E-03	1.3E-06	1.6E-01	6.3E-02	1.3E-08	2.6E-04	1.3E-03
358	3.0E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.7E-04	1.3E-03
359	2.9E+00	4.4E-04	1.0E-03	1.3E-06	1.6E-01	6.3E-02	1.3E-08	2.6E-04	1.3E-03
360	3.1E+00	4.4E-04	1.0E-03	1.4E-06	1.6E-01	6.3E-02	1.4E-08	2.7E-04	1.4E-03
361	3.2E+00	4.4E-04	1.0E-03	1.5E-06	1.6E-01	6.3E-02	1.5E-08	2.8E-04	1.4E-03
362	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.5E-08	3.0E-04	1.5E-03
363	3.2E+00	4.4E-04	1.0E-03	1.5E-06	1.6E-01	6.3E-02	1.5E-08	2.8E-04	1.4E-03
364	3.4E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.5E-08	3.0E-04	1.5E-03
365	3.6E+00	4.4E-04	1.0E-03	1.7E-06	1.6E-01	6.3E-02	1.6E-08	3.2E-04	1.6E-03
366	3.8E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.7E-08	3.4E-04	1.7E-03
367	3.5E+00	4.4E-04	1.0E-03	1.6E-06	1.6E-01	6.3E-02	1.6E-08	3.1E-04	1.5E-03
368	3.7E+00	4.4E-04	1.0E-03	1.7E-06	1.6E-01	6.3E-02	1.7E-08	3.3E-04	1.7E-03
369	4.0E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.8E-08	3.5E-04	1.8E-03
370	4.3E+00	4.4E-04	1.0E-03	2.0E-06	1.6E-01	6.3E-02	2.0E-08	3.8E-04	1.9E-03
371	3.8E+00	4.4E-04	1.0E-03	1.8E-06	1.6E-01	6.3E-02	1.7E-08	3.4E-04	1.7E-03
372	4.1E+00	4.4E-04	1.0E-03	1.9E-06	1.6E-01	6.3E-02	1.9E-08	3.7E-04	1.8E-03
373	4.5E+00	4.4E-04	1.0E-03	2.1E-06	1.6E-01	6.3E-02	2.0E-08	4.0E-04	2.0E-03
374	4.8E+00	4.4E-04	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.2E-08	4.3E-04	2.1E-03
375	4.2E+00	4.4E-04	1.0E-03	1.9E-06	1.6E-01	6.3E-02	1.9E-08	3.7E-04	1.8E-03
376	4.6E+00	4.4E-04	1.0E-03	2.1E-06	1.6E-01	6.3E-02	2.1E-08	4.0E-04	2.0E-03
377	5.0E+00	4.4E-04	1.0E-03	2.3E-06	1.6E-01	6.3E-02	2.3E-08	4.4E-04	2.2E-03
378	5.5E+00	4.4E-04	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.5E-08	4.8E-04	2.4E-03
379	4.5E+00	4.4E-04	1.0E-03	2.1E-06	1.6E-01	6.3E-02	2.1E-08	4.0E-04	2.0E-03
380	5.0E+00	4.4E-04	1.0E-03	2.3E-06	1.6E-01	6.3E-02	2.3E-08	4.4E-04	2.2E-03
381	5.6E+00	4.4E-04	1.0E-03	2.6E-06	1.6E-01	6.3E-02	2.5E-08	4.9E-04	2.5E-03
382	6.2E+00	4.4E-04	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.8E-08	5.5E-04	2.7E-03
383	4.9E+00	4.4E-04	1.0E-03	2.3E-06	1.6E-01	6.3E-02	2.2E-08	4.3E-04	2.2E-03
384	5.5E+00	4.4E-04	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.5E-08	4.8E-04	2.4E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
385	6.1E+00	4.4E-04	1.0E-03	2.8E-06	1.6E-01	6.3E-02	2.8E-08	5.4E-04	2.7E-03
386	6.9E+00	4.4E-04	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.2E-08	6.1E-04	3.1E-03
387	5.2E+00	4.4E-04	1.0E-03	2.4E-06	1.6E-01	6.3E-02	2.4E-08	4.6E-04	2.3E-03
388	5.9E+00	4.4E-04	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.7E-08	5.2E-04	2.6E-03
389	6.7E+00	4.4E-04	1.0E-03	3.1E-06	1.6E-01	6.3E-02	3.1E-08	5.9E-04	3.0E-03
390	7.7E+00	4.4E-04	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.5E-08	6.8E-04	3.4E-03
391	5.6E+00	4.4E-04	1.0E-03	2.6E-06	1.6E-01	6.3E-02	2.5E-08	4.9E-04	2.5E-03
392	6.3E+00	4.4E-04	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
393	7.2E+00	4.4E-04	1.0E-03	3.3E-06	1.6E-01	6.3E-02	3.3E-08	6.4E-04	3.2E-03
394	8.4E+00	4.4E-04	1.0E-03	3.9E-06	1.6E-01	6.3E-02	3.8E-08	7.4E-04	3.7E-03
395	5.8E+00	4.4E-04	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.7E-08	5.1E-04	2.6E-03
396	6.7E+00	4.4E-04	1.0E-03	3.1E-06	1.6E-01	6.3E-02	3.0E-08	5.9E-04	2.9E-03
397	7.7E+00	4.4E-04	1.0E-03	3.6E-06	1.6E-01	6.3E-02	3.5E-08	6.8E-04	3.4E-03
398	9.1E+00	4.4E-04	1.0E-03	4.2E-06	1.6E-01	6.3E-02	4.1E-08	8.0E-04	4.0E-03
399	6.0E+00	4.4E-04	1.0E-03	2.8E-06	1.6E-01	6.3E-02	2.8E-08	5.3E-04	2.7E-03
400	7.0E+00	4.4E-04	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.2E-08	6.1E-04	3.1E-03
401	8.1E+00	4.4E-04	1.0E-03	3.7E-06	1.6E-01	6.3E-02	3.7E-08	7.2E-04	3.6E-03
402	9.6E+00	4.4E-04	1.0E-03	4.4E-06	1.6E-01	6.3E-02	4.4E-08	8.5E-04	4.2E-03
403	6.2E+00	4.4E-04	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.8E-08	5.5E-04	2.7E-03
404	7.2E+00	4.4E-04	1.0E-03	3.3E-06	1.6E-01	6.3E-02	3.3E-08	6.4E-04	3.2E-03
405	8.4E+00	4.4E-04	1.0E-03	3.9E-06	1.6E-01	6.3E-02	3.9E-08	7.4E-04	3.7E-03
406	1.0E+01	4.4E-04	1.0E-03	4.6E-06	1.6E-01	6.3E-02	4.6E-08	8.9E-04	4.4E-03
407	6.3E+00	4.4E-04	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
408	7.4E+00	4.4E-04	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.4E-08	6.5E-04	3.3E-03
409	8.7E+00	4.4E-04	1.0E-03	4.0E-06	1.6E-01	6.3E-02	4.0E-08	7.7E-04	3.8E-03
410	1.0E+01	4.4E-04	1.0E-03	4.8E-06	1.6E-01	6.3E-02	4.7E-08	9.2E-04	4.6E-03
411	6.4E+00	4.4E-04	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
412	7.5E+00	4.4E-04	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.4E-08	6.6E-04	3.3E-03
413	8.8E+00	4.4E-04	1.0E-03	4.1E-06	1.6E-01	6.3E-02	4.0E-08	7.8E-04	3.9E-03
414	1.1E+01	4.4E-04	1.0E-03	4.9E-06	1.6E-01	6.3E-02	4.8E-08	9.4E-04	4.7E-03
415	6.4E+00	4.4E-04	1.0E-03	3.0E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
416	7.5E+00	4.4E-04	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.4E-08	6.6E-04	3.3E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
417	8.9E+00	4.4E-04	1.0E-03	4.1E-06	1.6E-01	6.3E-02	4.1E-08	7.9E-04	3.9E-03
418	1.1E+01	4.4E-04	1.0E-03	4.9E-06	1.6E-01	6.3E-02	4.9E-08	9.5E-04	4.7E-03
419	6.4E+00	4.4E-04	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
420	7.5E+00	4.4E-04	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.4E-08	6.6E-04	3.3E-03
421	8.9E+00	4.4E-04	1.0E-03	4.1E-06	1.6E-01	6.3E-02	4.1E-08	7.8E-04	3.9E-03
422	1.1E+01	4.4E-04	1.0E-03	4.9E-06	1.6E-01	6.3E-02	4.9E-08	9.5E-04	4.7E-03
423	6.3E+00	4.4E-04	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.5E-04	2.8E-03
424	7.4E+00	4.4E-04	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.4E-08	6.5E-04	3.2E-03
425	8.8E+00	4.4E-04	1.0E-03	4.0E-06	1.6E-01	6.3E-02	4.0E-08	7.7E-04	3.9E-03
426	1.1E+01	4.4E-04	1.0E-03	4.9E-06	1.6E-01	6.3E-02	4.8E-08	9.4E-04	4.7E-03
427	6.1E+00	4.4E-04	1.0E-03	2.8E-06	1.6E-01	6.3E-02	2.8E-08	5.4E-04	2.7E-03
428	7.2E+00	4.4E-04	1.0E-03	3.3E-06	1.6E-01	6.3E-02	3.3E-08	6.3E-04	3.2E-03
429	8.6E+00	4.4E-04	1.0E-03	3.9E-06	1.6E-01	6.3E-02	3.9E-08	7.5E-04	3.8E-03
430	1.0E+01	4.4E-04	1.0E-03	4.8E-06	1.6E-01	6.3E-02	4.7E-08	9.2E-04	4.6E-03
431	5.9E+00	4.4E-04	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.7E-08	5.2E-04	2.6E-03
432	6.9E+00	4.4E-04	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.2E-08	6.1E-04	3.1E-03
433	8.3E+00	4.4E-04	1.0E-03	3.8E-06	1.6E-01	6.3E-02	3.8E-08	7.3E-04	3.6E-03
434	1.0E+01	4.4E-04	1.0E-03	4.6E-06	1.6E-01	6.3E-02	4.6E-08	8.9E-04	4.4E-03
435	5.6E+00	4.4E-04	1.0E-03	2.6E-06	1.6E-01	6.3E-02	2.6E-08	5.0E-04	2.5E-03
436	6.6E+00	4.4E-04	1.0E-03	3.1E-06	1.6E-01	6.3E-02	3.0E-08	5.8E-04	2.9E-03
437	7.9E+00	4.4E-04	1.0E-03	3.6E-06	1.6E-01	6.3E-02	3.6E-08	7.0E-04	3.5E-03
438	9.6E+00	4.4E-04	1.0E-03	4.4E-06	1.6E-01	6.3E-02	4.4E-08	8.4E-04	4.2E-03
439	5.4E+00	4.4E-04	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.4E-08	4.7E-04	2.4E-03
440	6.3E+00	4.4E-04	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.5E-04	2.8E-03
441	7.4E+00	4.4E-04	1.0E-03	3.4E-06	1.6E-01	6.3E-02	3.4E-08	6.5E-04	3.3E-03
442	9.0E+00	4.4E-04	1.0E-03	4.1E-06	1.6E-01	6.3E-02	4.1E-08	7.9E-04	4.0E-03
443	5.0E+00	4.4E-04	1.0E-03	2.3E-06	1.6E-01	6.3E-02	2.3E-08	4.4E-04	2.2E-03
444	5.9E+00	4.4E-04	1.0E-03	2.7E-06	1.6E-01	6.3E-02	2.7E-08	5.2E-04	2.6E-03
445	6.9E+00	4.4E-04	1.0E-03	3.2E-06	1.6E-01	6.3E-02	3.2E-08	6.1E-04	3.0E-03
446	8.3E+00	4.4E-04	1.0E-03	3.8E-06	1.6E-01	6.3E-02	3.8E-08	7.3E-04	3.7E-03
447	4.7E+00	4.4E-04	1.0E-03	2.2E-06	1.6E-01	6.3E-02	2.1E-08	4.1E-04	2.1E-03
448	5.4E+00	4.4E-04	1.0E-03	2.5E-06	1.6E-01	6.3E-02	2.5E-08	4.8E-04	2.4E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated Residential

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
449	6.4E+00	4.4E-04	1.0E-03	2.9E-06	1.6E-01	6.3E-02	2.9E-08	5.6E-04	2.8E-03
450	7.6E+00	4.4E-04	1.0E-03	3.5E-06	1.6E-01	6.3E-02	3.4E-08	6.7E-04	3.3E-03
451	4.4E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	2.0E-09	3.9E-05	1.9E-04
452	4.4E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	2.0E-09	3.9E-05	1.9E-04
453	4.4E-01	4.4E-04	1.0E-03	2.0E-07	1.6E-01	6.3E-02	2.0E-09	3.9E-05	2.0E-04
454	4.5E-01	4.4E-04	1.0E-03	2.1E-07	1.6E-01	6.3E-02	2.0E-09	3.9E-05	2.0E-04
455	5.4E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.5E-09	4.7E-05	2.4E-04
456	5.4E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.5E-09	4.8E-05	2.4E-04
457	5.5E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.5E-09	4.8E-05	2.4E-04
458	5.4E-01	4.4E-04	1.0E-03	2.5E-07	1.6E-01	6.3E-02	2.5E-09	4.8E-05	2.4E-04
459	6.8E-01	4.4E-04	1.0E-03	3.1E-07	1.6E-01	6.3E-02	3.1E-09	6.0E-05	3.0E-04
460	6.8E-01	4.4E-04	1.0E-03	3.2E-07	1.6E-01	6.3E-02	3.1E-09	6.0E-05	3.0E-04
461	6.8E-01	4.4E-04	1.0E-03	3.1E-07	1.6E-01	6.3E-02	3.1E-09	6.0E-05	3.0E-04
462	7.8E-01	4.4E-04	1.0E-03	3.6E-07	1.6E-01	6.3E-02	3.6E-09	6.9E-05	3.5E-04
463	9.7E-01	4.4E-04	1.0E-03	4.5E-07	1.6E-01	6.3E-02	4.4E-09	8.5E-05	4.3E-04
464	7.9E-01	4.4E-04	1.0E-03	3.7E-07	1.6E-01	6.3E-02	3.6E-09	7.0E-05	3.5E-04
465	1.0E+00	4.4E-04	1.0E-03	4.6E-07	1.6E-01	6.3E-02	4.6E-09	8.8E-05	4.4E-04
466	1.3E+00	4.4E-04	1.0E-03	6.0E-07	1.6E-01	6.3E-02	6.0E-09	1.2E-04	5.8E-04
467	1.8E+00	4.4E-04	1.0E-03	8.1E-07	1.6E-01	6.3E-02	8.1E-09	1.6E-04	7.8E-04
468	7.7E-01	4.4E-04	1.0E-03	3.5E-07	1.6E-01	6.3E-02	3.5E-09	6.8E-05	3.4E-04
469	9.8E-01	4.4E-04	1.0E-03	4.5E-07	1.6E-01	6.3E-02	4.5E-09	8.7E-05	4.3E-04
470	1.3E+00	4.4E-04	1.0E-03	6.0E-07	1.6E-01	6.3E-02	6.0E-09	1.2E-04	5.8E-04
471	1.8E+00	4.4E-04	1.0E-03	8.5E-07	1.6E-01	6.3E-02	8.4E-09	1.6E-04	8.1E-04
472	9.2E-01	4.4E-04	1.0E-03	4.2E-07	1.6E-01	6.3E-02	4.2E-09	8.1E-05	4.1E-04
473	1.2E+00	4.4E-04	1.0E-03	5.7E-07	1.6E-01	6.3E-02	5.6E-09	1.1E-04	5.4E-04
474	1.7E+00	4.4E-04	1.0E-03	8.0E-07	1.6E-01	6.3E-02	7.9E-09	1.5E-04	7.6E-04
475	8.3E-01	4.4E-04	1.0E-03	3.8E-07	1.6E-01	6.3E-02	3.8E-09	7.4E-05	3.7E-04
476	1.1E+00	4.4E-04	1.0E-03	5.1E-07	1.6E-01	6.3E-02	5.0E-09	9.7E-05	4.9E-04
477	1.5E+00	4.4E-04	1.0E-03	7.1E-07	1.6E-01	6.3E-02	7.0E-09	1.4E-04	6.8E-04

Mt. Etna Community Plan Amendment and Rezone Project
Unmitigated School Health Risk Assessment

1. Assumptions
2. Risk by Phase Summary
3. Cancer Risk Summary
4. Non-Cancer Risk Summary
5. Risk by Construction Phase
    a. Risk From Demolition - Unmitigated School
    b. Risk From Site Prep - Unmitigated School
    c. Risk From Grading - Unmitigated School
    d. Risk From Trenching - Unmitigated School
    e. Risk From Foundation - Unmitigated School
    f. Risk From BC - Unmitigated School
    g. Risk From Arch. Coating - Unmitigated School
    h. Risk From Paving - Unmitigated School

Unmitigated School Health Risk Assessment

1. Assumptions

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated School - Construction Health Risk Assumptions

	3rd	Birth to 2	2-16	NA	Units
DBR	361	1090	631	261	L/kg
A	1	1	1	1	no units
EF	0.958904	0.958904	0.958904	0.958904	years
Constant 1	0.000001	0.000001	0.000001	0.000001	no units
CPF	1.1	1.1	1.1	1.1	mg/kg-day-1
ASF	10	10	3	1	no units
Demolition	0.00	0.00	**0.04**	0.00	years
Site Prep	0.00	0.00	**0.08**	0.00	years
Grading	0.00	0.00	**0.08**	0.00	years
Trenching	0.00	0.00	**0.08**	0.00	years
Foundation	0.00	0.00	**0.13**	0.00	years
BC	0.00	0.00	**0.70**	0.00	years
Arch. Coating	0.00	0.00	**0.66**	0.00	years
Paving	0.00	0.00	**0.06**	0.00	years
AT	70	70	70	70	years
FAH	1	1	1	0.73	day
Constant 2	1,000,000	1,000,000	1,000,000	1,000,000	no units
Dose Constant	0.000346	0.001045	0.000605	0.00025	no units
Risk Constants	0.157143	0.157143	0.047143	0.011471	no units

Dose = (Cair X DBR X A X EF X Constant 1)

Cancer Risk = Dose X CPF x ASF x (ED/AT) X FAH

Risk per Million = Cancer Risk X Constant 2

Non-Cancer Hazard Quotent = Average Annual Concentration x Chronic Inhalation REL

Onsite	lbs/day	g/day	g/sec	days
	2-16 years			
Demolition	1.5513	703.65784	0.0162884	15
Site Prep	1.2418	563.27101	0.0130387	30
Grading	0.8516	386.27926	0.0089416	30
Trenching	0.7205	326.8133	0.0075651	29
Foundation	0.2992	135.71484	0.0031415	48
BC	0.3626675	164.5032	0.0038079	257
Arch. Coating	0.110925	50.314734	0.0011647	240
Paving	0.7218	327.40297	0.0075788	23

Offsite	lbs/day/mile	Meters	Miles	lbs/day	g/day	g/sec
Haul1A						
Demolition H	0.0001409	135.1	0.0839471	1.183E-05	0.0053655	1.242E-07
Site Preparation H	0.0001429	135.1	0.0839471	1.199E-05	0.0054397	1.259E-07
Grading H	0.0001429	135.1	0.0839471	1.199E-05	0.0054397	1.259E-07
Foundation H	0.0001	135.1	0.0839471	8.395E-06	0.0038078	8.814E-08
BC V	0.09	135.1	0.0839471	0.0075552	3.4269982	7.933E-05
Haul1B						
Demolition H	0.0001409	246.3	0.1530434	2.157E-05	0.0097818	2.264E-07
Site Preparation H	0.0001429	246.3	0.1530434	2.186E-05	0.009917	2.296E-07
Grading H	0.0001429	246.3	0.1530434	2.186E-05	0.009917	2.296E-07
Foundation H	0.0001	246.3	0.1530434	1.53E-05	0.0069419	1.607E-07
BC V	0.09	246.3	0.1530434	0.0137739	6.2477399	0.0001446
Haul2A						
Demolition H	0.0001409	145.3	0.0902851	1.272E-05	0.0057706	1.336E-07
Site Preparation H	0.0001429	145.3	0.0902851	1.29E-05	0.0058504	1.354E-07
Grading H	0.0001429	145.3	0.0902851	1.29E-05	0.0058504	1.354E-07
Foundation H	0.0001	145.3	0.0902851	9.029E-06	0.0040953	9.48E-08
BC V	0.09	145.3	0.0902851	0.0081257	3.6857353	8.532E-05
HaulC						
Demolition H	0.0001409	810.6	0.5036825	7.097E-05	0.032193	7.452E-07
Site Preparation H	0.0001429	810.6	0.5036825	7.195E-05	0.0326381	7.555E-07
Grading H	0.0001429	810.6	0.5036825	7.195E-05	0.0326381	7.555E-07
Foundation H	0.0001	810.6	0.5036825	5.037E-05	0.0228467	5.289E-07
BC V	0.09	810.6	0.5036825	0.0453314	20.561989	0.000476

Mt. Etna Community Plan Amendment and Rezone Project
Unmitigated School - Construction Health Risk Assumptions

Source Name	Description
Sline1	Onsite Construction
Haul1A	Haul Route Mt. Etna site to Genesee Ave
	135.1 m
Haul 1B	Genesee Ave from Mt. Etna to Balboa
	246.3 m
Haul 2A	Genesee Ave from Site to Balboa
	145.3 m
Haul C	Balboa from Genesee towards the 805
	810.6 m

Receptor Designations

Residential	#1 - 450
School	#451 - 477

Construction hours per day 12

Phase	Start	End	Days
Demolition	2021/03/01	2021/03/21	15
Site Preparation	2021/03/22	2021/04/30	30
Grading	2021/05/01	2021/06/11	30
Drainage/Utilities/Trenching	2021/06/12	2021/07/22	29
Foundations/Concrete Pour	2021/07/23	2021/09/28	48
Building Construction	2021/09/29	2022/09/22	257
Architectural Coating	2021/11/24	2022/10/25	240
Paving	2022/09/23	2022/10/25	23

	lbs/day	lbs/mile V	lbs/mile H	
Demolition	1.5513		0.000140909	
Site Preparation	1.2418		0.000142857	
Grading	0.8516		0.000142857	
Drainage/Utilities/Trenching	0.7205			
Foundations/Concrete Pour	0.2992		0.0001	
Building Construction	0.3626675	0.09		0.4731
Architectural Coating	0.110925			0.109
Paving	0.7218			

	2021	Days	2022	Days	Average
Building Construction	0.05573	68	0.4731	189	0.3626675
Arch. Coating	0.1255	28	0.109	212	0.110925

Vendor Trips	#	Miles/trip	Total miles	Days	lbs/day
Demolition	0	7.3	0		
Site Preparation	0	7.3	0		
Grading	0	7.3	0		
Drainage/Utilities/Trenching	0	7.3	0		
Foundations/Concrete Pour	0	7.3	0		
BC - 2021	79	7.3	576.7	68	0.09
BC - 2022	79	7.3	576.7	189	0.09
Architectural Coating	0	7.3	0		
Paving	0	7.3	0		

Vendor Trips	#	#/day	Miles/trip	Total miles	lbs/day
Demolition	1639	110	20	2200	0.31
Site Preparation	200	7	20	140	2.00E-02
Grading	200	7	20	140	2.00E-02
Drainage/Utilities/Trenching	0	0	20	0	
Foundations/Concrete Pour	200	5	20	100	1.00E-02
BC - 2021	0	0	20	0	
Architectural Coating	0	0	20	0	
Paving	0	0	20	0	

Unmitigated School Health Risk Assessment

2. Risk by Phase Summary

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated School Risk by Phase

	Cancer Risk	Non-Cancer Risk	Receptor
Site Demolition and Preparation			
Demolition	0.036	0.0060	471
Site Preparation	0.056	0.0048	471
Grading	0.038	0.0033	471
Trenching	0.031	0.0028	471
Max Phase	0.16	0.017	471
Community Plan Amendment and Rezone			
Foundation	0.022	0.0012	471
BC	0.22	0.0023	471
AC	0.040	0.0004	471
Paving	0.025	0.0028	471
Max Phase	0.31	0.007	471

Unmitigated School Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
451	0.03892924	0.11758984	0.008634728	0.013485617	0.009251819	0.007557072	0.005207351	0.096749555	0.009628581	0.006004354
452	0.0390543	0.11910899	0.008662457	0.013528969	0.009281627	0.007581247	0.005224246	0.098201799	0.009659382	0.006023562
453	0.03928154	0.12034232	0.008712855	0.013607701	0.009335673	0.00762531	0.005254722	0.099313508	0.009715523	0.006058572
454	0.03933823	0.12086789	0.008725426	0.013627348	0.009349173	0.007636283	0.005262357	0.099808736	0.009729504	0.00606729
455	0.04750542	0.14015943	0.010537006	0.016456442	0.011289762	0.00922221	0.006354054	0.114727851	0.011750158	0.007327364
456	0.0478487	0.1424667	0.010613135	0.016575388	0.011371439	0.009288734	0.006400157	0.116851412	0.011834917	0.007380219
457	0.04818462	0.14413622	0.010687638	0.016691773	0.011451323	0.009353885	0.006445187	0.118341121	0.011917927	0.007431984
458	0.04788033	0.14411611	0.010620137	0.016586385	0.011379074	0.009294734	0.006404615	0.118483943	0.011842562	0.007384987
459	0.06022048	0.1717769	0.013357343	0.020860947	0.014311081	0.011691113	0.00805389	0.139538193	0.014895825	0.009288992
460	0.0604785	0.17471158	0.013414553	0.02095038	0.014372562	0.011741006	0.008088717	0.142334832	0.014959394	0.009328634
461	0.06024181	0.17592581	0.013362036	0.020868436	0.014316457	0.011694885	0.008057338	0.143675854	0.014900631	0.009291989
462	0.069169	0.14335332	0.015342692	0.023959477	0.016433601	0.013433233	0.009242811	0.106321858	0.017115486	0.010673166
463	0.0853846	0.17303314	0.018939582	0.029576306	0.020285907	0.016582799	0.011409072	0.127320069	0.021128396	0.013175605
464	0.06997833	0.14455974	0.015522217	0.024239809	0.016625851	0.013590454	0.00935089	0.107094966	0.017315804	0.010798084
465	0.08842618	0.17802271	0.019614264	0.030629852	0.021008448	0.017173621	0.011815317	0.130681188	0.021881172	0.013645034
466	0.11520355	0.22515366	0.02555395	0.039905068	0.027369753	0.022374777	0.015392264	0.163475822	0.028508044	0.017777531
467	0.1559661	0.29459233	0.034595818	0.054024456	0.037053244	0.030292584	0.020837031	0.211090559	0.038596241	0.024068501
468	0.06776719	0.14066964	0.015031746	0.023473907	0.016100565	0.013160968	0.009055523	0.104388688	0.016768589	0.010456842
469	0.08663004	0.17515567	0.019215845	0.030007706	0.020581774	0.016824717	0.01157543	0.128775793	0.021436628	0.013367817
470	0.11514561	0.22573311	0.025541091	0.039885015	0.027356039	0.022363461	0.015384624	0.16408632	0.028493626	0.01776854
471	0.16190789	0.30587897	0.035913803	0.05608261	0.038464854	0.031446624	0.021630862	0.219196059	0.040066622	0.024985426
472	0.08123697	0.16605249	0.018019564	0.028139649	0.01930061	0.015777148	0.010855074	0.122560027	0.020101904	0.012535488
473	0.10843333	0.21521485	0.02405218	0.03756003	0.02576155	0.021059572	0.01448818	0.157161792	0.026832321	0.016732555
474	0.15309214	0.29351242	0.033958285	0.053029062	0.036370796	0.029733994	0.020453703	0.211549496	0.037884534	0.023624683
475	0.07357959	0.15252717	0.016321024	0.025487263	0.017481498	0.014289805	0.009832187	0.113134379	0.018206858	0.011353743
476	0.09718369	0.19599967	0.021556806	0.033663362	0.023089097	0.018874421	0.012985526	0.143969577	0.024048187	0.014996378
477	0.13564153	0.26518274	0.030087414	0.046984531	0.032225361	0.026344225	0.018122981	0.192562792	0.033565577	0.020931394

Unmitigated School Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.004043922	0.002119813	0.001437037	0.001150579	0.00078941	0.000666896	0.000277757	0.001071284	0.000102672	0.000668099
0.004056901	0.002135645	0.001441648	0.001154274	0.000791949	0.000669029	0.000278656	0.001083752	0.000103001	0.000670236
0.004080488	0.002149692	0.00145003	0.001160986	0.000796555	0.000672918	0.000280277	0.001091683	0.000103599	0.000674132
0.004086356	0.002151898	0.001452115	0.001162655	0.0007977	0.000673886	0.00028068	0.001092368	0.000103749	0.000675102
0.004934813	0.002554412	0.001753626	0.001404049	0.000963298	0.000813841	0.000338923	0.001274885	0.000125295	0.000815309
0.004970453	0.002581976	0.001766289	0.001414191	0.000970261	0.000819711	0.000341378	0.001293209	0.000126199	0.00082119
0.005005321	0.002601112	0.00177868	0.001424112	0.000977068	0.000825461	0.000343773	0.001303304	0.000127084	0.00082695
0.004973683	0.002587621	0.001767437	0.001415111	0.000970894	0.000820241	0.000341603	0.001298017	0.000126281	0.000821721
0.006255643	0.003178652	0.002223	0.001779836	0.001221091	0.001031716	0.000429591	0.001556645	0.000158838	0.001033578
0.006282421	0.003209513	0.002232514	0.001787459	0.001226329	0.001036119	0.000431443	0.001580565	0.000159516	0.001037989
0.006257801	0.003209116	0.002223763	0.001780457	0.001221531	0.001032049	0.000429762	0.001586553	0.00015889	0.001033911
0.007184731	0.003001806	0.002553237	0.002044022	0.001402017	0.001185455	0.000492883	0.001138822	0.000182507	0.001187594
0.008869064	0.003662437	0.003151804	0.002523196	0.001730666	0.001463397	0.000608397	0.001362705	0.000225298	0.001466038
0.007268778	0.003028012	0.002583106	0.002067931	0.001418412	0.001199329	0.000498642	0.001143234	0.000184643	0.001201493
0.009184966	0.00377382	0.003264068	0.002613064	0.001792297	0.001515536	0.000630052	0.001392172	0.000233325	0.001518271
0.011966337	0.004840324	0.004252495	0.003404328	0.002334987	0.001974527	0.000820783	0.001737462	0.00030399	0.00197809
0.016200345	0.006438237	0.005757155	0.004608842	0.003161091	0.002673257	0.001111107	0.002237487	0.000411563	0.002678081
0.007039095	0.002937709	0.002501483	0.002002588	0.001373596	0.001161428	0.000482889	0.001112488	0.000178808	0.001163523
0.008998383	0.003701614	0.003197762	0.002559983	0.001755892	0.001484746	0.000617256	0.001368348	0.000228585	0.001487425
0.011960289	0.004838533	0.004250346	0.003402607	0.002333807	0.001973529	0.000820368	0.001737239	0.000303836	0.00197709
0.016817462	0.006671094	0.005976463	0.004784403	0.003281497	0.002775099	0.001153422	0.002310324	0.000427242	0.002780106
0.008438197	0.003489582	0.002998686	0.002400618	0.001646593	0.0013923	0.000578844	0.001301573	0.000214352	0.001394812
0.011263073	0.004582372	0.004002572	0.003204261	0.002197777	0.001858463	0.000772566	0.001661869	0.000286121	0.001861816
0.015901748	0.006347973	0.005651038	0.004523901	0.003102846	0.002623963	0.00109065	0.002224652	0.000403974	0.002628697
0.007642824	0.003184284	0.002716031	0.002174345	0.001491403	0.001261045	0.000524302	0.001202517	0.000194145	0.001263321
0.010094574	0.004141137	0.003587317	0.00287184	0.001969789	0.001665628	0.000692442	0.001523629	0.000256433	0.001668634
0.01408916	0.005679617	0.005006889	0.00400825	0.002749199	0.002324823	0.000966374	0.002026306	0.000357919	0.002329017

Unmitigated School Health Risk Assessment

3. Cancer Risk Summary

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated School - Construction Cancer Risk Summary

471	Receptor
0.47	Max

Receptor #	X	Y	Total	Total Onsite	Onsite Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
451	482941	3630879	0.1565191	0.0934375	0.0086288	0.0134739	0.0092401	0.0075571	0.0051943	0.0337104	0.0096286	0.0060044	0.0630815
452	482991	3630879	0.1581633	0.0937364	0.0086564	0.013517	0.0092697	0.0075812	0.0052109	0.0338182	0.0096594	0.0060236	0.0644269
453	483041	3630879	0.1596239	0.0942812	0.0087067	0.0135956	0.0093236	0.0076253	0.0052412	0.0340147	0.0097155	0.0060586	0.0653426
454	483091	3630879	0.1602061	0.0944169	0.0087193	0.0136152	0.009337	0.0076363	0.0052487	0.0340637	0.0097295	0.0060673	0.0657892
455	482941	3630929	0.1876648	0.1140257	0.0105301	0.0164428	0.0112761	0.0092222	0.0063388	0.0411382	0.0117502	0.0073274	0.0736391
456	482991	3630929	0.1903154	0.1148482	0.0106061	0.0165614	0.0113575	0.0092887	0.0063845	0.0414349	0.0118349	0.0073802	0.0754672
457	483041	3630929	0.1923208	0.1156538	0.0106805	0.0166776	0.0114371	0.0093539	0.0064293	0.0417255	0.0119179	0.007432	0.0766671
458	483091	3630929	0.1919964	0.1149224	0.0106129	0.0165721	0.0113648	0.0092947	0.0063886	0.0414617	0.0118426	0.007385	0.077074
459	482941	3630979	0.2319974	0.1445518	0.0133492	0.0208448	0.0142949	0.0116911	0.0080358	0.0521514	0.0148958	0.009289	0.0874455
460	482991	3630979	0.2351901	0.1451687	0.0134061	0.0209337	0.0143559	0.011741	0.00807	0.0523739	0.0149594	0.0093286	0.0900214
461	483041	3630979	0.2361676	0.1445985	0.0133535	0.0208515	0.0142995	0.0116949	0.0080383	0.0521682	0.0149006	0.009292	0.0915691
462	482391	3631229	0.2125223	0.1660918	0.0153383	0.0239509	0.016425	0.0134332	0.0092332	0.0599226	0.0171155	0.0106732	0.0464305
463	482441	3631229	0.2584177	0.2050339	0.0189346	0.0295664	0.020276	0.0165828	0.011398	0.073972	0.0211284	0.0131756	0.0533839
464	482391	3631279	0.2145381	0.1680358	0.0155179	0.0242312	0.0166172	0.0135905	0.0093412	0.0606239	0.0173158	0.0107981	0.0465023
465	482441	3631279	0.2664489	0.2123389	0.0196092	0.0306198	0.0209984	0.0171736	0.0118041	0.0766076	0.0218812	0.013645	0.05411
466	482491	3631279	0.3403572	0.2766473	0.025548	0.0398933	0.027358	0.0223748	0.0153791	0.0998087	0.028508	0.0177775	0.0637099
467	482541	3631279	0.4505584	0.3745451	0.0345887	0.0540104	0.0370392	0.0302926	0.0208213	0.1351282	0.0385962	0.0240685	0.0760134
468	482391	3631329	0.2084368	0.1627255	0.0150275	0.0234654	0.0160921	0.013161	0.009046	0.058708	0.0167686	0.0104568	0.0457113
469	482441	3631329	0.2617857	0.208025	0.0192108	0.0299978	0.0205718	0.0168247	0.0115643	0.0750512	0.0214366	0.0133678	0.0537607
470	482491	3631329	0.3408787	0.2765074	0.0255351	0.0398731	0.0273441	0.0223635	0.0153713	0.0997582	0.0284936	0.0177685	0.0643713
471	482541	3631329	0.4677869	0.3888139	0.0359064	0.056068	0.0384502	0.0314466	0.0216145	0.1402761	0.0400666	0.0249854	0.0789729
472	482441	3631379	0.2472895	0.1950726	0.0180147	0.02813	0.0192909	0.0157771	0.0108442	0.0703782	0.0201019	0.0125355	0.0522169
473	482491	3631379	0.3236482	0.2603858	0.0240463	0.0375483	0.0257498	0.0210596	0.0144751	0.0939419	0.0268323	0.0167326	0.0632624
474	482541	3631379	0.4466046	0.3676385	0.0339509	0.0530144	0.0363562	0.029734	0.0204373	0.1326365	0.0378845	0.0236247	0.078966
475	482441	3631429	0.2261068	0.1766827	0.0163164	0.0254781	0.0174723	0.0142898	0.0098219	0.0637435	0.0182069	0.0113537	0.049424
476	482491	3631429	0.2931834	0.2333681	0.0215512	0.0336523	0.023078	0.0188744	0.0129731	0.0841944	0.0240482	0.0149964	0.0598153
477	482541	3631429	0.4008243	0.3257266	0.0300804	0.0469706	0.0322115	0.0263442	0.0181074	0.1175155	0.0335656	0.0209314	0.0750977

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated School - Construction Cancer Risk Summary

	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
451	5.906E-06	1.168E-05	1.168E-05	1.308E-05	0.0630392	0.0532204	4.983E-06	9.854E-06	9.854E-06	1.104E-05	0.0531846
452	6.032E-06	1.193E-05	1.193E-05	1.336E-05	0.0643836	0.0548583	5.136E-06	1.016E-05	1.016E-05	1.138E-05	0.0548215
453	6.118E-06	1.21E-05	1.21E-05	1.355E-05	0.0652988	0.056095	5.252E-06	1.039E-05	1.039E-05	1.163E-05	0.0560574
454	6.16E-06	1.218E-05	1.218E-05	1.364E-05	0.065745	0.0569074	5.328E-06	1.054E-05	1.054E-05	1.18E-05	0.0568692
455	6.895E-06	1.364E-05	1.364E-05	1.527E-05	0.0735897	0.0624431	5.846E-06	1.156E-05	1.156E-05	1.295E-05	0.0624012
456	7.066E-06	1.397E-05	1.397E-05	1.565E-05	0.0754165	0.0646603	6.054E-06	1.197E-05	1.197E-05	1.341E-05	0.0646168
457	7.178E-06	1.42E-05	1.42E-05	1.59E-05	0.0766156	0.0662746	6.205E-06	1.227E-05	1.227E-05	1.374E-05	0.0662301
458	7.216E-06	1.427E-05	1.427E-05	1.598E-05	0.0770223	0.0671563	6.288E-06	1.243E-05	1.243E-05	1.393E-05	0.0671112
459	8.187E-06	1.619E-05	1.619E-05	1.813E-05	0.0873868	0.0746463	6.989E-06	1.382E-05	1.382E-05	1.548E-05	0.0745961
460	8.429E-06	1.667E-05	1.667E-05	1.867E-05	0.0899609	0.0777683	7.281E-06	1.44E-05	1.44E-05	1.613E-05	0.0777161
461	8.573E-06	1.696E-05	1.696E-05	1.899E-05	0.0915077	0.0798776	7.479E-06	1.479E-05	1.479E-05	1.657E-05	0.079824
462	4.347E-06	8.597E-06	8.597E-06	9.629E-06	0.0463993	0.0272695	2.553E-06	5.049E-06	5.049E-06	5.655E-06	0.0272512
463	4.998E-06	9.885E-06	9.885E-06	1.107E-05	0.053348	0.0310557	2.908E-06	5.75E-06	5.75E-06	6.44E-06	0.0310349
464	4.354E-06	8.611E-06	8.611E-06	9.644E-06	0.0464711	0.0262635	2.459E-06	4.863E-06	4.863E-06	5.447E-06	0.0262459
465	5.066E-06	1.002E-05	1.002E-05	1.122E-05	0.0540736	0.0298226	2.792E-06	5.522E-06	5.522E-06	6.185E-06	0.0298026
466	5.965E-06	1.18E-05	1.18E-05	1.321E-05	0.0636671	0.0343296	3.214E-06	6.357E-06	6.357E-06	7.119E-06	0.0343066
467	7.117E-06	1.407E-05	1.407E-05	1.576E-05	0.0759623	0.0402304	3.767E-06	7.449E-06	7.449E-06	8.343E-06	0.0402034
468	4.28E-06	8.464E-06	8.464E-06	9.48E-06	0.0456806	0.0251952	2.359E-06	4.665E-06	4.665E-06	5.225E-06	0.0251783
469	5.034E-06	9.955E-06	9.955E-06	1.115E-05	0.0537246	0.0285016	2.669E-06	5.277E-06	5.277E-06	5.911E-06	0.0284825
470	6.027E-06	1.192E-05	1.192E-05	1.335E-05	0.0643281	0.0326622	3.058E-06	6.048E-06	6.048E-06	6.774E-06	0.0326403
471	7.394E-06	1.462E-05	1.462E-05	1.638E-05	0.0789199	0.0381663	3.573E-06	7.067E-06	7.067E-06	7.915E-06	0.0381406
472	4.889E-06	9.669E-06	9.669E-06	1.083E-05	0.0521818	0.0272239	2.549E-06	5.041E-06	5.041E-06	5.646E-06	0.0272056
473	5.923E-06	1.171E-05	1.171E-05	1.312E-05	0.0632199	0.0310614	2.908E-06	5.751E-06	5.751E-06	6.442E-06	0.0310406
474	7.393E-06	1.462E-05	1.462E-05	1.638E-05	0.078913	0.0359353	3.365E-06	6.654E-06	6.654E-06	7.452E-06	0.0359112
475	4.627E-06	9.152E-06	9.152E-06	1.025E-05	0.0493909	0.0258923	2.424E-06	4.794E-06	4.794E-06	5.37E-06	0.0258749
476	5.6E-06	1.108E-05	1.108E-05	1.24E-05	0.0597751	0.0293931	2.752E-06	5.443E-06	5.443E-06	6.096E-06	0.0293734
477	7.031E-06	1.391E-05	1.391E-05	1.557E-05	0.0750473	0.0338127	3.166E-06	6.261E-06	6.261E-06	7.012E-06	0.03379

Unmitigated School Health Risk Assessment

4. Non-Cancer Risk Summary

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated School - Construction Non-Cancer Risk Summary

471	Receptor
0.01	**Max**

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
451	482941	3630879	0.0018421	0.001437	0.0011506	0.0007894	0.0006669	0.0002778	0.0010713	0.0001027	0.0006681
452	482991	3630879	0.001857	0.0014416	0.0011543	0.0007919	0.000669	0.0002787	0.0010838	0.000103	0.0006702
453	483041	3630879	0.0018694	0.00145	0.001161	0.0007966	0.0006729	0.0002803	0.0010917	0.0001036	0.0006741
454	483091	3630879	0.0018712	0.0014521	0.0011627	0.0007977	0.0006739	0.0002807	0.0010924	0.0001037	0.0006751
455	482941	3630929	0.0022155	0.0017536	0.001404	0.0009633	0.0008138	0.0003389	0.0012749	0.0001253	0.0008153
456	482991	3630929	0.0022406	0.0017663	0.0014142	0.0009703	0.0008197	0.0003414	0.0012932	0.0001262	0.0008212
457	483041	3630929	0.0022573	0.0017787	0.0014241	0.0009771	0.0008255	0.0003438	0.0013033	0.0001271	0.000827
458	483091	3630929	0.002246	0.0017674	0.0014151	0.0009709	0.0008202	0.0003416	0.001298	0.0001263	0.0008217
459	482941	3630979	0.0027491	0.002223	0.0017798	0.0012211	0.0010317	0.0004296	0.0015566	0.0001588	0.0010336
460	482991	3630979	0.0027781	0.0022325	0.0017875	0.0012263	0.0010361	0.0004314	0.0015806	0.0001595	0.001038
461	483041	3630979	0.0027794	0.0022238	0.0017805	0.0012215	0.001032	0.0004298	0.0015866	0.0001589	0.0010339
462	482391	3631229	0.0025532	0.0025532	0.002044	0.001402	0.0011855	0.0004929	0.0011388	0.0001825	0.0011876
463	482441	3631229	0.0031518	0.0031518	0.0025232	0.0017307	0.0014634	0.0006084	0.0013627	0.0002253	0.001466
464	482391	3631279	0.0025831	0.0025831	0.0020679	0.0014184	0.0011993	0.0004986	0.0011432	0.0001846	0.0012015
465	482441	3631279	0.0032641	0.0032641	0.0026131	0.0017923	0.0015155	0.0006301	0.0013922	0.0002333	0.0015183
466	482491	3631279	0.0042525	0.0042525	0.0034043	0.002335	0.0019745	0.0008208	0.0017375	0.000304	0.0019781
467	482541	3631279	0.0057572	0.0057572	0.0046088	0.0031611	0.0026733	0.0011111	0.0022375	0.0004116	0.0026781
468	482391	3631329	0.0025015	0.0025015	0.0020026	0.0013736	0.0011614	0.0004829	0.0011125	0.0001788	0.0011635
469	482441	3631329	0.0031978	0.0031978	0.00256	0.0017559	0.0014847	0.0006173	0.0013683	0.0002286	0.0014874
470	482491	3631329	0.0042503	0.0042503	0.0034026	0.0023338	0.0019735	0.0008204	0.0017372	0.0003038	0.0019771
471	482541	3631329	0.0059765	0.0059765	0.0047844	0.0032815	0.0027751	0.0011534	0.0023103	0.0004272	0.0027801
472	482441	3631379	0.0029987	0.0029987	0.0024006	0.0016466	0.0013923	0.0005788	0.0013016	0.0002144	0.0013948
473	482491	3631379	0.0040026	0.0040026	0.0032043	0.0021978	0.0018585	0.0007726	0.0016619	0.0002861	0.0018618
474	482541	3631379	0.005651	0.005651	0.0045239	0.0031028	0.002624	0.0010906	0.0022247	0.000404	0.0026287
475	482441	3631429	0.002716	0.002716	0.0021743	0.0014914	0.001261	0.0005243	0.0012025	0.0001941	0.0012633
476	482491	3631429	0.0035873	0.0035873	0.0028718	0.0019698	0.0016656	0.0006924	0.0015236	0.0002564	0.0016686
477	482541	3631429	0.0050069	0.0050069	0.0040082	0.0027492	0.0023248	0.0009664	0.0020263	0.0003579	0.002329

Unmitigated School Health Risk Assessment

5. Risk by Construction Phase

5. Risk by Construction Phase

a. Risk From Demolition - Unmitigated School **b. Risk**

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Unmitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	1.6E-02	6.1E-04	4.3E-06	4.7E-02	4.2E-02	8.6E-09	1.4E-03	7.2E-03
452	4.4E-01	1.6E-02	6.1E-04	4.4E-06	4.7E-02	4.2E-02	8.7E-09	1.4E-03	7.2E-03
453	4.4E-01	1.6E-02	6.1E-04	4.4E-06	4.7E-02	4.2E-02	8.7E-09	1.5E-03	7.3E-03
454	4.5E-01	1.6E-02	6.1E-04	4.4E-06	4.7E-02	4.2E-02	8.7E-09	1.5E-03	7.3E-03
455	5.4E-01	1.6E-02	6.1E-04	5.3E-06	4.7E-02	4.2E-02	1.1E-08	1.8E-03	8.8E-03
456	5.4E-01	1.6E-02	6.1E-04	5.3E-06	4.7E-02	4.2E-02	1.1E-08	1.8E-03	8.8E-03
457	5.5E-01	1.6E-02	6.1E-04	5.4E-06	4.7E-02	4.2E-02	1.1E-08	1.8E-03	8.9E-03
458	5.4E-01	1.6E-02	6.1E-04	5.3E-06	4.7E-02	4.2E-02	1.1E-08	1.8E-03	8.8E-03
459	6.8E-01	1.6E-02	6.1E-04	6.7E-06	4.7E-02	4.2E-02	1.3E-08	2.2E-03	1.1E-02
460	6.8E-01	1.6E-02	6.1E-04	6.7E-06	4.7E-02	4.2E-02	1.3E-08	2.2E-03	1.1E-02
461	6.8E-01	1.6E-02	6.1E-04	6.7E-06	4.7E-02	4.2E-02	1.3E-08	2.2E-03	1.1E-02
462	7.8E-01	1.6E-02	6.1E-04	7.7E-06	4.7E-02	4.2E-02	1.5E-08	2.6E-03	1.3E-02
463	9.7E-01	1.6E-02	6.1E-04	9.5E-06	4.7E-02	4.2E-02	1.9E-08	3.2E-03	1.6E-02
464	7.9E-01	1.6E-02	6.1E-04	7.8E-06	4.7E-02	4.2E-02	1.6E-08	2.6E-03	1.3E-02
465	1.0E+00	1.6E-02	6.1E-04	9.9E-06	4.7E-02	4.2E-02	2.0E-08	3.3E-03	1.6E-02
466	1.3E+00	1.6E-02	6.1E-04	1.3E-05	4.7E-02	4.2E-02	2.6E-08	4.3E-03	2.1E-02
467	1.8E+00	1.6E-02	6.1E-04	1.7E-05	4.7E-02	4.2E-02	3.5E-08	5.8E-03	2.9E-02
468	7.7E-01	1.6E-02	6.1E-04	7.6E-06	4.7E-02	4.2E-02	1.5E-08	2.5E-03	1.3E-02
469	9.8E-01	1.6E-02	6.1E-04	9.7E-06	4.7E-02	4.2E-02	1.9E-08	3.2E-03	1.6E-02
470	1.3E+00	1.6E-02	6.1E-04	1.3E-05	4.7E-02	4.2E-02	2.6E-08	4.3E-03	2.1E-02
471	1.8E+00	1.6E-02	6.1E-04	1.8E-05	4.7E-02	4.2E-02	3.6E-08	6.0E-03	3.0E-02
472	9.2E-01	1.6E-02	6.1E-04	9.1E-06	4.7E-02	4.2E-02	1.8E-08	3.0E-03	1.5E-02
473	1.2E+00	1.6E-02	6.1E-04	1.2E-05	4.7E-02	4.2E-02	2.4E-08	4.0E-03	2.0E-02
474	1.7E+00	1.6E-02	6.1E-04	1.7E-05	4.7E-02	4.2E-02	3.4E-08	5.7E-03	2.8E-02
475	8.3E-01	1.6E-02	6.1E-04	8.2E-06	4.7E-02	4.2E-02	1.6E-08	2.7E-03	1.4E-02
476	1.1E+00	1.6E-02	6.1E-04	1.1E-05	4.7E-02	4.2E-02	2.2E-08	3.6E-03	1.8E-02
477	1.5E+00	1.6E-02	6.1E-04	1.5E-05	4.7E-02	4.2E-02	3.0E-08	5.0E-03	2.5E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated School

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	3.8E+00	1.2E-07	6.1E-04	2.8E-10	4.7E-02	4.2E-02	5.6E-13	5.1E+00	2.3E-07	6.1E-04	6.9E-10	4.7E-02	4.2E-02	1.4E-12
452	3.6E+00	1.2E-07	6.1E-04	2.7E-10	4.7E-02	4.2E-02	5.4E-13	5.0E+00	2.3E-07	6.1E-04	6.8E-10	4.7E-02	4.2E-02	1.3E-12
453	3.5E+00	1.2E-07	6.1E-04	2.6E-10	4.7E-02	4.2E-02	5.2E-13	4.8E+00	2.3E-07	6.1E-04	6.6E-10	4.7E-02	4.2E-02	1.3E-12
454	3.3E+00	1.2E-07	6.1E-04	2.5E-10	4.7E-02	4.2E-02	5.0E-13	4.6E+00	2.3E-07	6.1E-04	6.3E-10	4.7E-02	4.2E-02	1.3E-12
455	4.3E+00	1.2E-07	6.1E-04	3.3E-10	4.7E-02	4.2E-02	6.5E-13	6.0E+00	2.3E-07	6.1E-04	8.3E-10	4.7E-02	4.2E-02	1.6E-12
456	4.2E+00	1.2E-07	6.1E-04	3.1E-10	4.7E-02	4.2E-02	6.2E-13	5.9E+00	2.3E-07	6.1E-04	8.1E-10	4.7E-02	4.2E-02	1.6E-12
457	4.0E+00	1.2E-07	6.1E-04	3.0E-10	4.7E-02	4.2E-02	6.0E-13	5.7E+00	2.3E-07	6.1E-04	7.8E-10	4.7E-02	4.2E-02	1.6E-12
458	3.8E+00	1.2E-07	6.1E-04	2.8E-10	4.7E-02	4.2E-02	5.6E-13	5.4E+00	2.3E-07	6.1E-04	7.4E-10	4.7E-02	4.2E-02	1.5E-12
459	5.1E+00	1.2E-07	6.1E-04	3.8E-10	4.7E-02	4.2E-02	7.6E-13	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	4.2E-02	2.0E-12
460	4.8E+00	1.2E-07	6.1E-04	3.6E-10	4.7E-02	4.2E-02	7.2E-13	7.2E+00	2.3E-07	6.1E-04	9.9E-10	4.7E-02	4.2E-02	2.0E-12
461	4.6E+00	1.2E-07	6.1E-04	3.4E-10	4.7E-02	4.2E-02	6.8E-13	6.9E+00	2.3E-07	6.1E-04	9.5E-10	4.7E-02	4.2E-02	1.9E-12
462	7.6E+00	1.2E-07	6.1E-04	5.7E-10	4.7E-02	4.2E-02	1.1E-12	5.2E+00	2.3E-07	6.1E-04	7.1E-10	4.7E-02	4.2E-02	1.4E-12
463	8.8E+00	1.2E-07	6.1E-04	6.6E-10	4.7E-02	4.2E-02	1.3E-12	6.1E+00	2.3E-07	6.1E-04	8.4E-10	4.7E-02	4.2E-02	1.7E-12
464	8.1E+00	1.2E-07	6.1E-04	6.1E-10	4.7E-02	4.2E-02	1.2E-12	5.2E+00	2.3E-07	6.1E-04	7.1E-10	4.7E-02	4.2E-02	1.4E-12
465	9.8E+00	1.2E-07	6.1E-04	7.4E-10	4.7E-02	4.2E-02	1.5E-12	6.1E+00	2.3E-07	6.1E-04	8.4E-10	4.7E-02	4.2E-02	1.7E-12
466	1.2E+01	1.2E-07	6.1E-04	9.0E-10	4.7E-02	4.2E-02	1.8E-12	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	4.2E-02	2.0E-12
467	1.5E+01	1.2E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.2E-12	9.0E+00	2.3E-07	6.1E-04	1.2E-09	4.7E-02	4.2E-02	2.5E-12
468	8.3E+00	1.2E-07	6.1E-04	6.3E-10	4.7E-02	4.2E-02	1.2E-12	5.0E+00	2.3E-07	6.1E-04	6.9E-10	4.7E-02	4.2E-02	1.4E-12
469	1.0E+01	1.2E-07	6.1E-04	7.8E-10	4.7E-02	4.2E-02	1.5E-12	6.0E+00	2.3E-07	6.1E-04	8.2E-10	4.7E-02	4.2E-02	1.6E-12
470	1.3E+01	1.2E-07	6.1E-04	9.9E-10	4.7E-02	4.2E-02	2.0E-12	7.2E+00	2.3E-07	6.1E-04	9.9E-10	4.7E-02	4.2E-02	2.0E-12
471	1.7E+01	1.2E-07	6.1E-04	1.3E-09	4.7E-02	4.2E-02	2.6E-12	9.0E+00	2.3E-07	6.1E-04	1.2E-09	4.7E-02	4.2E-02	2.5E-12
472	1.0E+01	1.2E-07	6.1E-04	7.8E-10	4.7E-02	4.2E-02	1.5E-12	5.7E+00	2.3E-07	6.1E-04	7.9E-10	4.7E-02	4.2E-02	1.6E-12
473	1.4E+01	1.2E-07	6.1E-04	1.0E-09	4.7E-02	4.2E-02	2.0E-12	7.0E+00	2.3E-07	6.1E-04	9.6E-10	4.7E-02	4.2E-02	1.9E-12
474	1.9E+01	1.2E-07	6.1E-04	1.4E-09	4.7E-02	4.2E-02	2.8E-12	8.7E+00	2.3E-07	6.1E-04	1.2E-09	4.7E-02	4.2E-02	2.4E-12
475	9.7E+00	1.2E-07	6.1E-04	7.3E-10	4.7E-02	4.2E-02	1.4E-12	5.4E+00	2.3E-07	6.1E-04	7.4E-10	4.7E-02	4.2E-02	1.5E-12
476	1.3E+01	1.2E-07	6.1E-04	9.6E-10	4.7E-02	4.2E-02	1.9E-12	6.5E+00	2.3E-07	6.1E-04	9.0E-10	4.7E-02	4.2E-02	1.8E-12
477	1.8E+01	1.2E-07	6.1E-04	1.3E-09	4.7E-02	4.2E-02	2.7E-12	8.1E+00	2.3E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.2E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Unmitigated School

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
451	6.3E+00	1.3E-07	6.1E-04	5.1E-10	4.7E-02	4.2E-02	1.0E-12	4.4E+00	7.5E-07	6.1E-04	2.0E-09	4.7E-02	4.2E-02	4.0E-12
452	6.2E+00	1.3E-07	6.1E-04	5.0E-10	4.7E-02	4.2E-02	1.0E-12	4.6E+00	7.5E-07	6.1E-04	2.1E-09	4.7E-02	4.2E-02	4.1E-12
453	6.0E+00	1.3E-07	6.1E-04	4.9E-10	4.7E-02	4.2E-02	9.7E-13	4.8E+00	7.5E-07	6.1E-04	2.2E-09	4.7E-02	4.2E-02	4.3E-12
454	5.8E+00	1.3E-07	6.1E-04	4.7E-10	4.7E-02	4.2E-02	9.3E-13	4.9E+00	7.5E-07	6.1E-04	2.2E-09	4.7E-02	4.2E-02	4.4E-12
455	7.8E+00	1.3E-07	6.1E-04	6.3E-10	4.7E-02	4.2E-02	1.2E-12	5.1E+00	7.5E-07	6.1E-04	2.3E-09	4.7E-02	4.2E-02	4.6E-12
456	7.6E+00	1.3E-07	6.1E-04	6.1E-10	4.7E-02	4.2E-02	1.2E-12	5.4E+00	7.5E-07	6.1E-04	2.4E-09	4.7E-02	4.2E-02	4.8E-12
457	7.3E+00	1.3E-07	6.1E-04	5.9E-10	4.7E-02	4.2E-02	1.2E-12	5.6E+00	7.5E-07	6.1E-04	2.5E-09	4.7E-02	4.2E-02	5.0E-12
458	6.9E+00	1.3E-07	6.1E-04	5.6E-10	4.7E-02	4.2E-02	1.1E-12	5.8E+00	7.5E-07	6.1E-04	2.6E-09	4.7E-02	4.2E-02	5.2E-12
459	9.8E+00	1.3E-07	6.1E-04	7.9E-10	4.7E-02	4.2E-02	1.6E-12	6.0E+00	7.5E-07	6.1E-04	2.7E-09	4.7E-02	4.2E-02	5.4E-12
460	9.6E+00	1.3E-07	6.1E-04	7.7E-10	4.7E-02	4.2E-02	1.5E-12	6.4E+00	7.5E-07	6.1E-04	2.9E-09	4.7E-02	4.2E-02	5.7E-12
461	9.1E+00	1.3E-07	6.1E-04	7.4E-10	4.7E-02	4.2E-02	1.5E-12	6.7E+00	7.5E-07	6.1E-04	3.0E-09	4.7E-02	4.2E-02	6.0E-12
462	4.7E+00	1.3E-07	6.1E-04	3.8E-10	4.7E-02	4.2E-02	7.5E-13	2.0E+00	7.5E-07	6.1E-04	9.1E-10	4.7E-02	4.2E-02	1.8E-12
463	5.6E+00	1.3E-07	6.1E-04	4.5E-10	4.7E-02	4.2E-02	8.9E-13	2.2E+00	7.5E-07	6.1E-04	1.0E-09	4.7E-02	4.2E-02	2.0E-12
464	4.5E+00	1.3E-07	6.1E-04	3.6E-10	4.7E-02	4.2E-02	7.2E-13	1.9E+00	7.5E-07	6.1E-04	8.7E-10	4.7E-02	4.2E-02	1.7E-12
465	5.3E+00	1.3E-07	6.1E-04	4.3E-10	4.7E-02	4.2E-02	8.5E-13	2.2E+00	7.5E-07	6.1E-04	9.8E-10	4.7E-02	4.2E-02	1.9E-12
466	6.4E+00	1.3E-07	6.1E-04	5.2E-10	4.7E-02	4.2E-02	1.0E-12	2.4E+00	7.5E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.2E-12
467	7.9E+00	1.3E-07	6.1E-04	6.4E-10	4.7E-02	4.2E-02	1.3E-12	2.8E+00	7.5E-07	6.1E-04	1.3E-09	4.7E-02	4.2E-02	2.5E-12
468	4.3E+00	1.3E-07	6.1E-04	3.5E-10	4.7E-02	4.2E-02	6.9E-13	1.9E+00	7.5E-07	6.1E-04	8.4E-10	4.7E-02	4.2E-02	1.7E-12
469	5.0E+00	1.3E-07	6.1E-04	4.1E-10	4.7E-02	4.2E-02	8.1E-13	2.1E+00	7.5E-07	6.1E-04	9.4E-10	4.7E-02	4.2E-02	1.9E-12
470	6.1E+00	1.3E-07	6.1E-04	4.9E-10	4.7E-02	4.2E-02	9.7E-13	2.3E+00	7.5E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.1E-12
471	7.5E+00	1.3E-07	6.1E-04	6.0E-10	4.7E-02	4.2E-02	1.2E-12	2.6E+00	7.5E-07	6.1E-04	1.2E-09	4.7E-02	4.2E-02	2.4E-12
472	4.8E+00	1.3E-07	6.1E-04	3.8E-10	4.7E-02	4.2E-02	7.6E-13	2.0E+00	7.5E-07	6.1E-04	9.0E-10	4.7E-02	4.2E-02	1.8E-12
473	5.7E+00	1.3E-07	6.1E-04	4.6E-10	4.7E-02	4.2E-02	9.1E-13	2.2E+00	7.5E-07	6.1E-04	1.0E-09	4.7E-02	4.2E-02	2.0E-12
474	6.9E+00	1.3E-07	6.1E-04	5.6E-10	4.7E-02	4.2E-02	1.1E-12	2.5E+00	7.5E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.3E-12
475	4.4E+00	1.3E-07	6.1E-04	3.6E-10	4.7E-02	4.2E-02	7.1E-13	1.9E+00	7.5E-07	6.1E-04	8.6E-10	4.7E-02	4.2E-02	1.7E-12
476	5.3E+00	1.3E-07	6.1E-04	4.3E-10	4.7E-02	4.2E-02	8.5E-13	2.1E+00	7.5E-07	6.1E-04	9.6E-10	4.7E-02	4.2E-02	1.9E-12
477	6.4E+00	1.3E-07	6.1E-04	5.2E-10	4.7E-02	4.2E-02	1.0E-12	2.4E+00	7.5E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.1E-12

5. Risk by Construction Phase

: From Site Prep - Unmitigated School

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	1.3E-02	6.1E-04	3.5E-06	4.7E-02	8.2E-02	1.3E-08	1.2E-03	5.8E-03
452	4.4E-01	1.3E-02	6.1E-04	3.5E-06	4.7E-02	8.2E-02	1.4E-08	1.2E-03	5.8E-03
453	4.4E-01	1.3E-02	6.1E-04	3.5E-06	4.7E-02	8.2E-02	1.4E-08	1.2E-03	5.8E-03
454	4.5E-01	1.3E-02	6.1E-04	3.5E-06	4.7E-02	8.2E-02	1.4E-08	1.2E-03	5.8E-03
455	5.4E-01	1.3E-02	6.1E-04	4.2E-06	4.7E-02	8.2E-02	1.6E-08	1.4E-03	7.0E-03
456	5.4E-01	1.3E-02	6.1E-04	4.3E-06	4.7E-02	8.2E-02	1.7E-08	1.4E-03	7.1E-03
457	5.5E-01	1.3E-02	6.1E-04	4.3E-06	4.7E-02	8.2E-02	1.7E-08	1.4E-03	7.1E-03
458	5.4E-01	1.3E-02	6.1E-04	4.3E-06	4.7E-02	8.2E-02	1.7E-08	1.4E-03	7.1E-03
459	6.8E-01	1.3E-02	6.1E-04	5.4E-06	4.7E-02	8.2E-02	2.1E-08	1.8E-03	8.9E-03
460	6.8E-01	1.3E-02	6.1E-04	5.4E-06	4.7E-02	8.2E-02	2.1E-08	1.8E-03	8.9E-03
461	6.8E-01	1.3E-02	6.1E-04	5.4E-06	4.7E-02	8.2E-02	2.1E-08	1.8E-03	8.9E-03
462	7.8E-01	1.3E-02	6.1E-04	6.2E-06	4.7E-02	8.2E-02	2.4E-08	2.0E-03	1.0E-02
463	9.7E-01	1.3E-02	6.1E-04	7.6E-06	4.7E-02	8.2E-02	3.0E-08	2.5E-03	1.3E-02
464	7.9E-01	1.3E-02	6.1E-04	6.3E-06	4.7E-02	8.2E-02	2.4E-08	2.1E-03	1.0E-02
465	1.0E+00	1.3E-02	6.1E-04	7.9E-06	4.7E-02	8.2E-02	3.1E-08	2.6E-03	1.3E-02
466	1.3E+00	1.3E-02	6.1E-04	1.0E-05	4.7E-02	8.2E-02	4.0E-08	3.4E-03	1.7E-02
467	1.8E+00	1.3E-02	6.1E-04	1.4E-05	4.7E-02	8.2E-02	5.4E-08	4.6E-03	2.3E-02
468	7.7E-01	1.3E-02	6.1E-04	6.1E-06	4.7E-02	8.2E-02	2.3E-08	2.0E-03	1.0E-02
469	9.8E-01	1.3E-02	6.1E-04	7.7E-06	4.7E-02	8.2E-02	3.0E-08	2.6E-03	1.3E-02
470	1.3E+00	1.3E-02	6.1E-04	1.0E-05	4.7E-02	8.2E-02	4.0E-08	3.4E-03	1.7E-02
471	1.8E+00	1.3E-02	6.1E-04	1.4E-05	4.7E-02	8.2E-02	5.6E-08	4.8E-03	2.4E-02
472	9.2E-01	1.3E-02	6.1E-04	7.3E-06	4.7E-02	8.2E-02	2.8E-08	2.4E-03	1.2E-02
473	1.2E+00	1.3E-02	6.1E-04	9.7E-06	4.7E-02	8.2E-02	3.8E-08	3.2E-03	1.6E-02
474	1.7E+00	1.3E-02	6.1E-04	1.4E-05	4.7E-02	8.2E-02	5.3E-08	4.5E-03	2.3E-02
475	8.3E-01	1.3E-02	6.1E-04	6.6E-06	4.7E-02	8.2E-02	2.5E-08	2.2E-03	1.1E-02
476	1.1E+00	1.3E-02	6.1E-04	8.7E-06	4.7E-02	8.2E-02	3.4E-08	2.9E-03	1.4E-02
477	1.5E+00	1.3E-02	6.1E-04	1.2E-05	4.7E-02	8.2E-02	4.7E-08	4.0E-03	2.0E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated School

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	3.8E+00	1.3E-07	6.1E-04	2.9E-10	4.7E-02	8.2E-02	1.1E-12	5.1E+00	2.3E-07	6.1E-04	7.0E-10	4.7E-02	8.2E-02	2.7E-12
452	3.6E+00	1.3E-07	6.1E-04	2.8E-10	4.7E-02	8.2E-02	1.1E-12	5.0E+00	2.3E-07	6.1E-04	6.9E-10	4.7E-02	8.2E-02	2.7E-12
453	3.5E+00	1.3E-07	6.1E-04	2.7E-10	4.7E-02	8.2E-02	1.0E-12	4.8E+00	2.3E-07	6.1E-04	6.7E-10	4.7E-02	8.2E-02	2.6E-12
454	3.3E+00	1.3E-07	6.1E-04	2.5E-10	4.7E-02	8.2E-02	9.8E-13	4.6E+00	2.3E-07	6.1E-04	6.4E-10	4.7E-02	8.2E-02	2.5E-12
455	4.3E+00	1.3E-07	6.1E-04	3.3E-10	4.7E-02	8.2E-02	1.3E-12	6.0E+00	2.3E-07	6.1E-04	8.4E-10	4.7E-02	8.2E-02	3.3E-12
456	4.2E+00	1.3E-07	6.1E-04	3.2E-10	4.7E-02	8.2E-02	1.2E-12	5.9E+00	2.3E-07	6.1E-04	8.2E-10	4.7E-02	8.2E-02	3.2E-12
457	4.0E+00	1.3E-07	6.1E-04	3.0E-10	4.7E-02	8.2E-02	1.2E-12	5.7E+00	2.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12
458	3.8E+00	1.3E-07	6.1E-04	2.9E-10	4.7E-02	8.2E-02	1.1E-12	5.4E+00	2.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12
459	5.1E+00	1.3E-07	6.1E-04	3.9E-10	4.7E-02	8.2E-02	1.5E-12	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
460	4.8E+00	1.3E-07	6.1E-04	3.7E-10	4.7E-02	8.2E-02	1.4E-12	7.2E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
461	4.6E+00	1.3E-07	6.1E-04	3.5E-10	4.7E-02	8.2E-02	1.4E-12	6.9E+00	2.3E-07	6.1E-04	9.6E-10	4.7E-02	8.2E-02	3.7E-12
462	7.6E+00	1.3E-07	6.1E-04	5.8E-10	4.7E-02	8.2E-02	2.2E-12	5.2E+00	2.3E-07	6.1E-04	7.2E-10	4.7E-02	8.2E-02	2.8E-12
463	8.8E+00	1.3E-07	6.1E-04	6.7E-10	4.7E-02	8.2E-02	2.6E-12	6.1E+00	2.3E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
464	8.1E+00	1.3E-07	6.1E-04	6.2E-10	4.7E-02	8.2E-02	2.4E-12	5.2E+00	2.3E-07	6.1E-04	7.2E-10	4.7E-02	8.2E-02	2.8E-12
465	9.8E+00	1.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12	6.1E+00	2.3E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
466	1.2E+01	1.3E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
467	1.5E+01	1.3E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.3E-12	9.0E+00	2.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
468	8.3E+00	1.3E-07	6.1E-04	6.3E-10	4.7E-02	8.2E-02	2.5E-12	5.0E+00	2.3E-07	6.1E-04	7.0E-10	4.7E-02	8.2E-02	2.7E-12
469	1.0E+01	1.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12	6.0E+00	2.3E-07	6.1E-04	8.3E-10	4.7E-02	8.2E-02	3.2E-12
470	1.3E+01	1.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12	7.2E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
471	1.7E+01	1.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	5.1E-12	9.0E+00	2.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
472	1.0E+01	1.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12	5.7E+00	2.3E-07	6.1E-04	8.0E-10	4.7E-02	8.2E-02	3.1E-12
473	1.4E+01	1.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12	7.0E+00	2.3E-07	6.1E-04	9.7E-10	4.7E-02	8.2E-02	3.8E-12
474	1.9E+01	1.3E-07	6.1E-04	1.4E-09	4.7E-02	8.2E-02	5.5E-12	8.7E+00	2.3E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.7E-12
475	9.7E+00	1.3E-07	6.1E-04	7.4E-10	4.7E-02	8.2E-02	2.9E-12	5.4E+00	2.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12
476	1.3E+01	1.3E-07	6.1E-04	9.8E-10	4.7E-02	8.2E-02	3.8E-12	6.5E+00	2.3E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12
477	1.8E+01	1.3E-07	6.1E-04	1.4E-09	4.7E-02	8.2E-02	5.3E-12	8.1E+00	2.3E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.4E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Unmitigated School

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
451	6.3E+00	1.4E-07	6.1E-04	5.2E-10	4.7E-02	8.2E-02	2.0E-12	4.4E+00	7.6E-07	6.1E-04	2.0E-09	4.7E-02	8.2E-02	7.8E-12
452	6.2E+00	1.4E-07	6.1E-04	5.1E-10	4.7E-02	8.2E-02	2.0E-12	4.6E+00	7.6E-07	6.1E-04	2.1E-09	4.7E-02	8.2E-02	8.2E-12
453	6.0E+00	1.4E-07	6.1E-04	4.9E-10	4.7E-02	8.2E-02	1.9E-12	4.8E+00	7.6E-07	6.1E-04	2.2E-09	4.7E-02	8.2E-02	8.5E-12
454	5.8E+00	1.4E-07	6.1E-04	4.7E-10	4.7E-02	8.2E-02	1.8E-12	4.9E+00	7.6E-07	6.1E-04	2.2E-09	4.7E-02	8.2E-02	8.7E-12
455	7.8E+00	1.4E-07	6.1E-04	6.4E-10	4.7E-02	8.2E-02	2.5E-12	5.1E+00	7.6E-07	6.1E-04	2.3E-09	4.7E-02	8.2E-02	9.1E-12
456	7.6E+00	1.4E-07	6.1E-04	6.2E-10	4.7E-02	8.2E-02	2.4E-12	5.4E+00	7.6E-07	6.1E-04	2.5E-09	4.7E-02	8.2E-02	9.6E-12
457	7.3E+00	1.4E-07	6.1E-04	6.0E-10	4.7E-02	8.2E-02	2.3E-12	5.6E+00	7.6E-07	6.1E-04	2.6E-09	4.7E-02	8.2E-02	9.9E-12
458	6.9E+00	1.4E-07	6.1E-04	5.7E-10	4.7E-02	8.2E-02	2.2E-12	5.8E+00	7.6E-07	6.1E-04	2.6E-09	4.7E-02	8.2E-02	1.0E-11
459	9.8E+00	1.4E-07	6.1E-04	8.0E-10	4.7E-02	8.2E-02	3.1E-12	6.0E+00	7.6E-07	6.1E-04	2.8E-09	4.7E-02	8.2E-02	1.1E-11
460	9.6E+00	1.4E-07	6.1E-04	7.8E-10	4.7E-02	8.2E-02	3.0E-12	6.4E+00	7.6E-07	6.1E-04	2.9E-09	4.7E-02	8.2E-02	1.1E-11
461	9.1E+00	1.4E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12	6.7E+00	7.6E-07	6.1E-04	3.1E-09	4.7E-02	8.2E-02	1.2E-11
462	4.7E+00	1.4E-07	6.1E-04	3.8E-10	4.7E-02	8.2E-02	1.5E-12	2.0E+00	7.6E-07	6.1E-04	9.2E-10	4.7E-02	8.2E-02	3.6E-12
463	5.6E+00	1.4E-07	6.1E-04	4.6E-10	4.7E-02	8.2E-02	1.8E-12	2.2E+00	7.6E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
464	4.5E+00	1.4E-07	6.1E-04	3.7E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.9E-10	4.7E-02	8.2E-02	3.4E-12
465	5.3E+00	1.4E-07	6.1E-04	4.4E-10	4.7E-02	8.2E-02	1.7E-12	2.2E+00	7.6E-07	6.1E-04	9.9E-10	4.7E-02	8.2E-02	3.8E-12
466	6.4E+00	1.4E-07	6.1E-04	5.3E-10	4.7E-02	8.2E-02	2.0E-12	2.4E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.3E-12
467	7.9E+00	1.4E-07	6.1E-04	6.5E-10	4.7E-02	8.2E-02	2.5E-12	2.8E+00	7.6E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
468	4.3E+00	1.4E-07	6.1E-04	3.5E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
469	5.0E+00	1.4E-07	6.1E-04	4.1E-10	4.7E-02	8.2E-02	1.6E-12	2.1E+00	7.6E-07	6.1E-04	9.5E-10	4.7E-02	8.2E-02	3.7E-12
470	6.1E+00	1.4E-07	6.1E-04	5.0E-10	4.7E-02	8.2E-02	1.9E-12	2.3E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.1E-12
471	7.5E+00	1.4E-07	6.1E-04	6.1E-10	4.7E-02	8.2E-02	2.4E-12	2.6E+00	7.6E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.7E-12
472	4.8E+00	1.4E-07	6.1E-04	3.9E-10	4.7E-02	8.2E-02	1.5E-12	2.0E+00	7.6E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12
473	5.7E+00	1.4E-07	6.1E-04	4.7E-10	4.7E-02	8.2E-02	1.8E-12	2.2E+00	7.6E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
474	6.9E+00	1.4E-07	6.1E-04	5.7E-10	4.7E-02	8.2E-02	2.2E-12	2.5E+00	7.6E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.5E-12
475	4.4E+00	1.4E-07	6.1E-04	3.6E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.7E-10	4.7E-02	8.2E-02	3.4E-12
476	5.3E+00	1.4E-07	6.1E-04	4.3E-10	4.7E-02	8.2E-02	1.7E-12	2.1E+00	7.6E-07	6.1E-04	9.7E-10	4.7E-02	8.2E-02	3.8E-12
477	6.4E+00	1.4E-07	6.1E-04	5.2E-10	4.7E-02	8.2E-02	2.0E-12	2.4E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.2E-12

5. Risk by Construction Phase

c. Risk From Grading - Unmitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	8.9E-03	6.1E-04	2.4E-06	4.7E-02	8.2E-02	9.2E-09	7.9E-04	3.9E-03
452	4.4E-01	8.9E-03	6.1E-04	2.4E-06	4.7E-02	8.2E-02	9.3E-09	7.9E-04	4.0E-03
453	4.4E-01	8.9E-03	6.1E-04	2.4E-06	4.7E-02	8.2E-02	9.3E-09	8.0E-04	4.0E-03
454	4.5E-01	8.9E-03	6.1E-04	2.4E-06	4.7E-02	8.2E-02	9.3E-09	8.0E-04	4.0E-03
455	5.4E-01	8.9E-03	6.1E-04	2.9E-06	4.7E-02	8.2E-02	1.1E-08	9.6E-04	4.8E-03
456	5.4E-01	8.9E-03	6.1E-04	2.9E-06	4.7E-02	8.2E-02	1.1E-08	9.7E-04	4.9E-03
457	5.5E-01	8.9E-03	6.1E-04	3.0E-06	4.7E-02	8.2E-02	1.1E-08	9.8E-04	4.9E-03
458	5.4E-01	8.9E-03	6.1E-04	2.9E-06	4.7E-02	8.2E-02	1.1E-08	9.7E-04	4.9E-03
459	6.8E-01	8.9E-03	6.1E-04	3.7E-06	4.7E-02	8.2E-02	1.4E-08	1.2E-03	6.1E-03
460	6.8E-01	8.9E-03	6.1E-04	3.7E-06	4.7E-02	8.2E-02	1.4E-08	1.2E-03	6.1E-03
461	6.8E-01	8.9E-03	6.1E-04	3.7E-06	4.7E-02	8.2E-02	1.4E-08	1.2E-03	6.1E-03
462	7.8E-01	8.9E-03	6.1E-04	4.2E-06	4.7E-02	8.2E-02	1.6E-08	1.4E-03	7.0E-03
463	9.7E-01	8.9E-03	6.1E-04	5.2E-06	4.7E-02	8.2E-02	2.0E-08	1.7E-03	8.7E-03
464	7.9E-01	8.9E-03	6.1E-04	4.3E-06	4.7E-02	8.2E-02	1.7E-08	1.4E-03	7.1E-03
465	1.0E+00	8.9E-03	6.1E-04	5.4E-06	4.7E-02	8.2E-02	2.1E-08	1.8E-03	9.0E-03
466	1.3E+00	8.9E-03	6.1E-04	7.1E-06	4.7E-02	8.2E-02	2.7E-08	2.3E-03	1.2E-02
467	1.8E+00	8.9E-03	6.1E-04	9.6E-06	4.7E-02	8.2E-02	3.7E-08	3.2E-03	1.6E-02
468	7.7E-01	8.9E-03	6.1E-04	4.2E-06	4.7E-02	8.2E-02	1.6E-08	1.4E-03	6.9E-03
469	9.8E-01	8.9E-03	6.1E-04	5.3E-06	4.7E-02	8.2E-02	2.1E-08	1.8E-03	8.8E-03
470	1.3E+00	8.9E-03	6.1E-04	7.1E-06	4.7E-02	8.2E-02	2.7E-08	2.3E-03	1.2E-02
471	1.8E+00	8.9E-03	6.1E-04	9.9E-06	4.7E-02	8.2E-02	3.8E-08	3.3E-03	1.6E-02
472	9.2E-01	8.9E-03	6.1E-04	5.0E-06	4.7E-02	8.2E-02	1.9E-08	1.6E-03	8.2E-03
473	1.2E+00	8.9E-03	6.1E-04	6.6E-06	4.7E-02	8.2E-02	2.6E-08	2.2E-03	1.1E-02
474	1.7E+00	8.9E-03	6.1E-04	9.4E-06	4.7E-02	8.2E-02	3.6E-08	3.1E-03	1.6E-02
475	8.3E-01	8.9E-03	6.1E-04	4.5E-06	4.7E-02	8.2E-02	1.7E-08	1.5E-03	7.5E-03
476	1.1E+00	8.9E-03	6.1E-04	6.0E-06	4.7E-02	8.2E-02	2.3E-08	2.0E-03	9.8E-03
477	1.5E+00	8.9E-03	6.1E-04	8.3E-06	4.7E-02	8.2E-02	3.2E-08	2.7E-03	1.4E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Unmitigated School

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	3.8E+00	1.3E-07	6.1E-04	2.9E-10	4.7E-02	8.2E-02	1.1E-12	5.1E+00	2.3E-07	6.1E-04	7.0E-10	4.7E-02	8.2E-02	2.7E-12
452	3.6E+00	1.3E-07	6.1E-04	2.8E-10	4.7E-02	8.2E-02	1.1E-12	5.0E+00	2.3E-07	6.1E-04	6.9E-10	4.7E-02	8.2E-02	2.7E-12
453	3.5E+00	1.3E-07	6.1E-04	2.7E-10	4.7E-02	8.2E-02	1.0E-12	4.8E+00	2.3E-07	6.1E-04	6.7E-10	4.7E-02	8.2E-02	2.6E-12
454	3.3E+00	1.3E-07	6.1E-04	2.5E-10	4.7E-02	8.2E-02	9.8E-13	4.6E+00	2.3E-07	6.1E-04	6.4E-10	4.7E-02	8.2E-02	2.5E-12
455	4.3E+00	1.3E-07	6.1E-04	3.3E-10	4.7E-02	8.2E-02	1.3E-12	6.0E+00	2.3E-07	6.1E-04	8.4E-10	4.7E-02	8.2E-02	3.3E-12
456	4.2E+00	1.3E-07	6.1E-04	3.2E-10	4.7E-02	8.2E-02	1.2E-12	5.9E+00	2.3E-07	6.1E-04	8.2E-10	4.7E-02	8.2E-02	3.2E-12
457	4.0E+00	1.3E-07	6.1E-04	3.0E-10	4.7E-02	8.2E-02	1.2E-12	5.7E+00	2.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12
458	3.8E+00	1.3E-07	6.1E-04	2.9E-10	4.7E-02	8.2E-02	1.1E-12	5.4E+00	2.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12
459	5.1E+00	1.3E-07	6.1E-04	3.9E-10	4.7E-02	8.2E-02	1.5E-12	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
460	4.8E+00	1.3E-07	6.1E-04	3.7E-10	4.7E-02	8.2E-02	1.4E-12	7.2E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
461	4.6E+00	1.3E-07	6.1E-04	3.5E-10	4.7E-02	8.2E-02	1.4E-12	6.9E+00	2.3E-07	6.1E-04	9.6E-10	4.7E-02	8.2E-02	3.7E-12
462	7.6E+00	1.3E-07	6.1E-04	5.8E-10	4.7E-02	8.2E-02	2.2E-12	5.2E+00	2.3E-07	6.1E-04	7.2E-10	4.7E-02	8.2E-02	2.8E-12
463	8.8E+00	1.3E-07	6.1E-04	6.7E-10	4.7E-02	8.2E-02	2.6E-12	6.1E+00	2.3E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
464	8.1E+00	1.3E-07	6.1E-04	6.2E-10	4.7E-02	8.2E-02	2.4E-12	5.2E+00	2.3E-07	6.1E-04	7.2E-10	4.7E-02	8.2E-02	2.8E-12
465	9.8E+00	1.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12	6.1E+00	2.3E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
466	1.2E+01	1.3E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
467	1.5E+01	1.3E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.3E-12	9.0E+00	2.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
468	8.3E+00	1.3E-07	6.1E-04	6.3E-10	4.7E-02	8.2E-02	2.5E-12	5.0E+00	2.3E-07	6.1E-04	7.0E-10	4.7E-02	8.2E-02	2.7E-12
469	1.0E+01	1.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12	6.0E+00	2.3E-07	6.1E-04	8.3E-10	4.7E-02	8.2E-02	3.2E-12
470	1.3E+01	1.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12	7.2E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
471	1.7E+01	1.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	5.1E-12	9.0E+00	2.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
472	1.0E+01	1.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12	5.7E+00	2.3E-07	6.1E-04	8.0E-10	4.7E-02	8.2E-02	3.1E-12
473	1.4E+01	1.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12	7.0E+00	2.3E-07	6.1E-04	9.7E-10	4.7E-02	8.2E-02	3.8E-12
474	1.9E+01	1.3E-07	6.1E-04	1.4E-09	4.7E-02	8.2E-02	5.5E-12	8.7E+00	2.3E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.7E-12
475	9.7E+00	1.3E-07	6.1E-04	7.4E-10	4.7E-02	8.2E-02	2.9E-12	5.4E+00	2.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12
476	1.3E+01	1.3E-07	6.1E-04	9.8E-10	4.7E-02	8.2E-02	3.8E-12	6.5E+00	2.3E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12
477	1.8E+01	1.3E-07	6.1E-04	1.4E-09	4.7E-02	8.2E-02	5.3E-12	8.1E+00	2.3E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.4E-12

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Unmitigated School

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
451	6.3E+00	1.4E-07	6.1E-04	5.2E-10	4.7E-02	8.2E-02	2.0E-12	4.4E+00	7.6E-07	6.1E-04	2.0E-09	4.7E-02	8.2E-02	7.8E-12
452	6.2E+00	1.4E-07	6.1E-04	5.1E-10	4.7E-02	8.2E-02	2.0E-12	4.6E+00	7.6E-07	6.1E-04	2.1E-09	4.7E-02	8.2E-02	8.2E-12
453	6.0E+00	1.4E-07	6.1E-04	4.9E-10	4.7E-02	8.2E-02	1.9E-12	4.8E+00	7.6E-07	6.1E-04	2.2E-09	4.7E-02	8.2E-02	8.5E-12
454	5.8E+00	1.4E-07	6.1E-04	4.7E-10	4.7E-02	8.2E-02	1.8E-12	4.9E+00	7.6E-07	6.1E-04	2.2E-09	4.7E-02	8.2E-02	8.7E-12
455	7.8E+00	1.4E-07	6.1E-04	6.4E-10	4.7E-02	8.2E-02	2.5E-12	5.1E+00	7.6E-07	6.1E-04	2.3E-09	4.7E-02	8.2E-02	9.1E-12
456	7.6E+00	1.4E-07	6.1E-04	6.2E-10	4.7E-02	8.2E-02	2.4E-12	5.4E+00	7.6E-07	6.1E-04	2.5E-09	4.7E-02	8.2E-02	9.6E-12
457	7.3E+00	1.4E-07	6.1E-04	6.0E-10	4.7E-02	8.2E-02	2.3E-12	5.6E+00	7.6E-07	6.1E-04	2.6E-09	4.7E-02	8.2E-02	9.9E-12
458	6.9E+00	1.4E-07	6.1E-04	5.7E-10	4.7E-02	8.2E-02	2.2E-12	5.8E+00	7.6E-07	6.1E-04	2.6E-09	4.7E-02	8.2E-02	1.0E-11
459	9.8E+00	1.4E-07	6.1E-04	8.0E-10	4.7E-02	8.2E-02	3.1E-12	6.0E+00	7.6E-07	6.1E-04	2.8E-09	4.7E-02	8.2E-02	1.1E-11
460	9.6E+00	1.4E-07	6.1E-04	7.8E-10	4.7E-02	8.2E-02	3.0E-12	6.4E+00	7.6E-07	6.1E-04	2.9E-09	4.7E-02	8.2E-02	1.1E-11
461	9.1E+00	1.4E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12	6.7E+00	7.6E-07	6.1E-04	3.1E-09	4.7E-02	8.2E-02	1.2E-11
462	4.7E+00	1.4E-07	6.1E-04	3.8E-10	4.7E-02	8.2E-02	1.5E-12	2.0E+00	7.6E-07	6.1E-04	9.2E-10	4.7E-02	8.2E-02	3.6E-12
463	5.6E+00	1.4E-07	6.1E-04	4.6E-10	4.7E-02	8.2E-02	1.8E-12	2.2E+00	7.6E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
464	4.5E+00	1.4E-07	6.1E-04	3.7E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.9E-10	4.7E-02	8.2E-02	3.4E-12
465	5.3E+00	1.4E-07	6.1E-04	4.4E-10	4.7E-02	8.2E-02	1.7E-12	2.2E+00	7.6E-07	6.1E-04	9.9E-10	4.7E-02	8.2E-02	3.8E-12
466	6.4E+00	1.4E-07	6.1E-04	5.3E-10	4.7E-02	8.2E-02	2.0E-12	2.4E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.3E-12
467	7.9E+00	1.4E-07	6.1E-04	6.5E-10	4.7E-02	8.2E-02	2.5E-12	2.8E+00	7.6E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
468	4.3E+00	1.4E-07	6.1E-04	3.5E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
469	5.0E+00	1.4E-07	6.1E-04	4.1E-10	4.7E-02	8.2E-02	1.6E-12	2.1E+00	7.6E-07	6.1E-04	9.5E-10	4.7E-02	8.2E-02	3.7E-12
470	6.1E+00	1.4E-07	6.1E-04	5.0E-10	4.7E-02	8.2E-02	1.9E-12	2.3E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.1E-12
471	7.5E+00	1.4E-07	6.1E-04	6.1E-10	4.7E-02	8.2E-02	2.4E-12	2.6E+00	7.6E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.7E-12
472	4.8E+00	1.4E-07	6.1E-04	3.9E-10	4.7E-02	8.2E-02	1.5E-12	2.0E+00	7.6E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12
473	5.7E+00	1.4E-07	6.1E-04	4.7E-10	4.7E-02	8.2E-02	1.8E-12	2.2E+00	7.6E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
474	6.9E+00	1.4E-07	6.1E-04	5.7E-10	4.7E-02	8.2E-02	2.2E-12	2.5E+00	7.6E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.5E-12
475	4.4E+00	1.4E-07	6.1E-04	3.6E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.7E-10	4.7E-02	8.2E-02	3.4E-12
476	5.3E+00	1.4E-07	6.1E-04	4.3E-10	4.7E-02	8.2E-02	1.7E-12	2.1E+00	7.6E-07	6.1E-04	9.7E-10	4.7E-02	8.2E-02	3.8E-12
477	6.4E+00	1.4E-07	6.1E-04	5.2E-10	4.7E-02	8.2E-02	2.0E-12	2.4E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.2E-12

5. Risk by Construction Phase

d. Risk From Trenching - Unmitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Unmitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	7.6E-03	6.1E-04	2.0E-06	4.7E-02	7.9E-02	7.6E-09	6.7E-04	3.3E-03
452	4.4E-01	7.6E-03	6.1E-04	2.0E-06	4.7E-02	7.9E-02	7.6E-09	6.7E-04	3.3E-03
453	4.4E-01	7.6E-03	6.1E-04	2.0E-06	4.7E-02	7.9E-02	7.6E-09	6.7E-04	3.4E-03
454	4.5E-01	7.6E-03	6.1E-04	2.0E-06	4.7E-02	7.9E-02	7.6E-09	6.7E-04	3.4E-03
455	5.4E-01	7.6E-03	6.1E-04	2.5E-06	4.7E-02	7.9E-02	9.2E-09	8.1E-04	4.1E-03
456	5.4E-01	7.6E-03	6.1E-04	2.5E-06	4.7E-02	7.9E-02	9.3E-09	8.2E-04	4.1E-03
457	5.5E-01	7.6E-03	6.1E-04	2.5E-06	4.7E-02	7.9E-02	9.4E-09	8.3E-04	4.1E-03
458	5.4E-01	7.6E-03	6.1E-04	2.5E-06	4.7E-02	7.9E-02	9.3E-09	8.2E-04	4.1E-03
459	6.8E-01	7.6E-03	6.1E-04	3.1E-06	4.7E-02	7.9E-02	1.2E-08	1.0E-03	5.2E-03
460	6.8E-01	7.6E-03	6.1E-04	3.1E-06	4.7E-02	7.9E-02	1.2E-08	1.0E-03	5.2E-03
461	6.8E-01	7.6E-03	6.1E-04	3.1E-06	4.7E-02	7.9E-02	1.2E-08	1.0E-03	5.2E-03
462	7.8E-01	7.6E-03	6.1E-04	3.6E-06	4.7E-02	7.9E-02	1.3E-08	1.2E-03	5.9E-03
463	9.7E-01	7.6E-03	6.1E-04	4.4E-06	4.7E-02	7.9E-02	1.7E-08	1.5E-03	7.3E-03
464	7.9E-01	7.6E-03	6.1E-04	3.6E-06	4.7E-02	7.9E-02	1.4E-08	1.2E-03	6.0E-03
465	1.0E+00	7.6E-03	6.1E-04	4.6E-06	4.7E-02	7.9E-02	1.7E-08	1.5E-03	7.6E-03
466	1.3E+00	7.6E-03	6.1E-04	6.0E-06	4.7E-02	7.9E-02	2.2E-08	2.0E-03	9.9E-03
467	1.8E+00	7.6E-03	6.1E-04	8.1E-06	4.7E-02	7.9E-02	3.0E-08	2.7E-03	1.3E-02
468	7.7E-01	7.6E-03	6.1E-04	3.5E-06	4.7E-02	7.9E-02	1.3E-08	1.2E-03	5.8E-03
469	9.8E-01	7.6E-03	6.1E-04	4.5E-06	4.7E-02	7.9E-02	1.7E-08	1.5E-03	7.4E-03
470	1.3E+00	7.6E-03	6.1E-04	6.0E-06	4.7E-02	7.9E-02	2.2E-08	2.0E-03	9.9E-03
471	1.8E+00	7.6E-03	6.1E-04	8.4E-06	4.7E-02	7.9E-02	3.1E-08	2.8E-03	1.4E-02
472	9.2E-01	7.6E-03	6.1E-04	4.2E-06	4.7E-02	7.9E-02	1.6E-08	1.4E-03	7.0E-03
473	1.2E+00	7.6E-03	6.1E-04	5.6E-06	4.7E-02	7.9E-02	2.1E-08	1.9E-03	9.3E-03
474	1.7E+00	7.6E-03	6.1E-04	7.9E-06	4.7E-02	7.9E-02	3.0E-08	2.6E-03	1.3E-02
475	8.3E-01	7.6E-03	6.1E-04	3.8E-06	4.7E-02	7.9E-02	1.4E-08	1.3E-03	6.3E-03
476	1.1E+00	7.6E-03	6.1E-04	5.0E-06	4.7E-02	7.9E-02	1.9E-08	1.7E-03	8.3E-03
477	1.5E+00	7.6E-03	6.1E-04	7.0E-06	4.7E-02	7.9E-02	2.6E-08	2.3E-03	1.2E-02

5. Risk by Construction Phase

e. Risk From Foundation - Unmitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	3.1E-03	6.1E-04	8.4E-07	4.7E-02	1.3E-01	5.2E-09	2.8E-04	1.4E-03
452	4.4E-01	3.1E-03	6.1E-04	8.4E-07	4.7E-02	1.3E-01	5.2E-09	2.8E-04	1.4E-03
453	4.4E-01	3.1E-03	6.1E-04	8.5E-07	4.7E-02	1.3E-01	5.2E-09	2.8E-04	1.4E-03
454	4.5E-01	3.1E-03	6.1E-04	8.5E-07	4.7E-02	1.3E-01	5.2E-09	2.8E-04	1.4E-03
455	5.4E-01	3.1E-03	6.1E-04	1.0E-06	4.7E-02	1.3E-01	6.3E-09	3.4E-04	1.7E-03
456	5.4E-01	3.1E-03	6.1E-04	1.0E-06	4.7E-02	1.3E-01	6.4E-09	3.4E-04	1.7E-03
457	5.5E-01	3.1E-03	6.1E-04	1.0E-06	4.7E-02	1.3E-01	6.4E-09	3.4E-04	1.7E-03
458	5.4E-01	3.1E-03	6.1E-04	1.0E-06	4.7E-02	1.3E-01	6.4E-09	3.4E-04	1.7E-03
459	6.8E-01	3.1E-03	6.1E-04	1.3E-06	4.7E-02	1.3E-01	8.0E-09	4.3E-04	2.1E-03
460	6.8E-01	3.1E-03	6.1E-04	1.3E-06	4.7E-02	1.3E-01	8.1E-09	4.3E-04	2.2E-03
461	6.8E-01	3.1E-03	6.1E-04	1.3E-06	4.7E-02	1.3E-01	8.0E-09	4.3E-04	2.1E-03
462	7.8E-01	3.1E-03	6.1E-04	1.5E-06	4.7E-02	1.3E-01	9.2E-09	4.9E-04	2.5E-03
463	9.7E-01	3.1E-03	6.1E-04	1.8E-06	4.7E-02	1.3E-01	1.1E-08	6.1E-04	3.0E-03
464	7.9E-01	3.1E-03	6.1E-04	1.5E-06	4.7E-02	1.3E-01	9.3E-09	5.0E-04	2.5E-03
465	1.0E+00	3.1E-03	6.1E-04	1.9E-06	4.7E-02	1.3E-01	1.2E-08	6.3E-04	3.2E-03
466	1.3E+00	3.1E-03	6.1E-04	2.5E-06	4.7E-02	1.3E-01	1.5E-08	8.2E-04	4.1E-03
467	1.8E+00	3.1E-03	6.1E-04	3.4E-06	4.7E-02	1.3E-01	2.1E-08	1.1E-03	5.6E-03
468	7.7E-01	3.1E-03	6.1E-04	1.5E-06	4.7E-02	1.3E-01	9.0E-09	4.8E-04	2.4E-03
469	9.8E-01	3.1E-03	6.1E-04	1.9E-06	4.7E-02	1.3E-01	1.2E-08	6.2E-04	3.1E-03
470	1.3E+00	3.1E-03	6.1E-04	2.5E-06	4.7E-02	1.3E-01	1.5E-08	8.2E-04	4.1E-03
471	1.8E+00	3.1E-03	6.1E-04	3.5E-06	4.7E-02	1.3E-01	2.2E-08	1.2E-03	5.8E-03
472	9.2E-01	3.1E-03	6.1E-04	1.7E-06	4.7E-02	1.3E-01	1.1E-08	5.8E-04	2.9E-03
473	1.2E+00	3.1E-03	6.1E-04	2.3E-06	4.7E-02	1.3E-01	1.4E-08	7.7E-04	3.9E-03
474	1.7E+00	3.1E-03	6.1E-04	3.3E-06	4.7E-02	1.3E-01	2.0E-08	1.1E-03	5.5E-03
475	8.3E-01	3.1E-03	6.1E-04	1.6E-06	4.7E-02	1.3E-01	9.8E-09	5.2E-04	2.6E-03
476	1.1E+00	3.1E-03	6.1E-04	2.1E-06	4.7E-02	1.3E-01	1.3E-08	6.9E-04	3.5E-03
477	1.5E+00	3.1E-03	6.1E-04	2.9E-06	4.7E-02	1.3E-01	1.8E-08	9.7E-04	4.8E-03

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Foundation - Unmitigated School

	Haul1A							Haul1B						
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	Conc	g/sec	D1	Dose	R1	ED	Risk
451	3.8E+00	8.8E-08	6.1E-04	2.0E-10	4.7E-02	1.3E-01	1.2E-12	5.1E+00	1.6E-07	6.1E-04	4.9E-10	4.7E-02	1.3E-01	3.0E-12
452	3.6E+00	8.8E-08	6.1E-04	1.9E-10	4.7E-02	1.3E-01	1.2E-12	5.0E+00	1.6E-07	6.1E-04	4.8E-10	4.7E-02	1.3E-01	3.0E-12
453	3.5E+00	8.8E-08	6.1E-04	1.9E-10	4.7E-02	1.3E-01	1.2E-12	4.8E+00	1.6E-07	6.1E-04	4.7E-10	4.7E-02	1.3E-01	2.9E-12
454	3.3E+00	8.8E-08	6.1E-04	1.8E-10	4.7E-02	1.3E-01	1.1E-12	4.6E+00	1.6E-07	6.1E-04	4.5E-10	4.7E-02	1.3E-01	2.8E-12
455	4.3E+00	8.8E-08	6.1E-04	2.3E-10	4.7E-02	1.3E-01	1.4E-12	6.0E+00	1.6E-07	6.1E-04	5.9E-10	4.7E-02	1.3E-01	3.6E-12
456	4.2E+00	8.8E-08	6.1E-04	2.2E-10	4.7E-02	1.3E-01	1.4E-12	5.9E+00	1.6E-07	6.1E-04	5.7E-10	4.7E-02	1.3E-01	3.6E-12
457	4.0E+00	8.8E-08	6.1E-04	2.1E-10	4.7E-02	1.3E-01	1.3E-12	5.7E+00	1.6E-07	6.1E-04	5.5E-10	4.7E-02	1.3E-01	3.4E-12
458	3.8E+00	8.8E-08	6.1E-04	2.0E-10	4.7E-02	1.3E-01	1.2E-12	5.4E+00	1.6E-07	6.1E-04	5.3E-10	4.7E-02	1.3E-01	3.3E-12
459	5.1E+00	8.8E-08	6.1E-04	2.7E-10	4.7E-02	1.3E-01	1.7E-12	7.4E+00	1.6E-07	6.1E-04	7.2E-10	4.7E-02	1.3E-01	4.5E-12
460	4.8E+00	8.8E-08	6.1E-04	2.6E-10	4.7E-02	1.3E-01	1.6E-12	7.2E+00	1.6E-07	6.1E-04	7.0E-10	4.7E-02	1.3E-01	4.3E-12
461	4.6E+00	8.8E-08	6.1E-04	2.4E-10	4.7E-02	1.3E-01	1.5E-12	6.9E+00	1.6E-07	6.1E-04	6.7E-10	4.7E-02	1.3E-01	4.2E-12
462	7.6E+00	8.8E-08	6.1E-04	4.0E-10	4.7E-02	1.3E-01	2.5E-12	5.2E+00	1.6E-07	6.1E-04	5.1E-10	4.7E-02	1.3E-01	3.1E-12
463	8.8E+00	8.8E-08	6.1E-04	4.7E-10	4.7E-02	1.3E-01	2.9E-12	6.1E+00	1.6E-07	6.1E-04	5.9E-10	4.7E-02	1.3E-01	3.7E-12
464	8.1E+00	8.8E-08	6.1E-04	4.3E-10	4.7E-02	1.3E-01	2.7E-12	5.2E+00	1.6E-07	6.1E-04	5.0E-10	4.7E-02	1.3E-01	3.1E-12
465	9.8E+00	8.8E-08	6.1E-04	5.2E-10	4.7E-02	1.3E-01	3.2E-12	6.1E+00	1.6E-07	6.1E-04	5.9E-10	4.7E-02	1.3E-01	3.7E-12
466	1.2E+01	8.8E-08	6.1E-04	6.4E-10	4.7E-02	1.3E-01	3.9E-12	7.4E+00	1.6E-07	6.1E-04	7.2E-10	4.7E-02	1.3E-01	4.4E-12
467	1.5E+01	8.8E-08	6.1E-04	7.8E-10	4.7E-02	1.3E-01	4.8E-12	9.0E+00	1.6E-07	6.1E-04	8.8E-10	4.7E-02	1.3E-01	5.4E-12
468	8.3E+00	8.8E-08	6.1E-04	4.4E-10	4.7E-02	1.3E-01	2.8E-12	5.0E+00	1.6E-07	6.1E-04	4.9E-10	4.7E-02	1.3E-01	3.0E-12
469	1.0E+01	8.8E-08	6.1E-04	5.5E-10	4.7E-02	1.3E-01	3.4E-12	6.0E+00	1.6E-07	6.1E-04	5.8E-10	4.7E-02	1.3E-01	3.6E-12
470	1.3E+01	8.8E-08	6.1E-04	7.0E-10	4.7E-02	1.3E-01	4.4E-12	7.2E+00	1.6E-07	6.1E-04	7.0E-10	4.7E-02	1.3E-01	4.4E-12
471	1.7E+01	8.8E-08	6.1E-04	9.2E-10	4.7E-02	1.3E-01	5.7E-12	9.0E+00	1.6E-07	6.1E-04	8.8E-10	4.7E-02	1.3E-01	5.4E-12
472	1.0E+01	8.8E-08	6.1E-04	5.5E-10	4.7E-02	1.3E-01	3.4E-12	5.7E+00	1.6E-07	6.1E-04	5.6E-10	4.7E-02	1.3E-01	3.5E-12
473	1.4E+01	8.8E-08	6.1E-04	7.2E-10	4.7E-02	1.3E-01	4.5E-12	7.0E+00	1.6E-07	6.1E-04	6.8E-10	4.7E-02	1.3E-01	4.2E-12
474	1.9E+01	8.8E-08	6.1E-04	9.9E-10	4.7E-02	1.3E-01	6.1E-12	8.7E+00	1.6E-07	6.1E-04	8.4E-10	4.7E-02	1.3E-01	5.2E-12
475	9.7E+00	8.8E-08	6.1E-04	5.2E-10	4.7E-02	1.3E-01	3.2E-12	5.4E+00	1.6E-07	6.1E-04	5.2E-10	4.7E-02	1.3E-01	3.3E-12
476	1.3E+01	8.8E-08	6.1E-04	6.8E-10	4.7E-02	1.3E-01	4.2E-12	6.5E+00	1.6E-07	6.1E-04	6.4E-10	4.7E-02	1.3E-01	3.9E-12
477	1.8E+01	8.8E-08	6.1E-04	9.5E-10	4.7E-02	1.3E-01	5.9E-12	8.1E+00	1.6E-07	6.1E-04	7.9E-10	4.7E-02	1.3E-01	4.9E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Unmitigated School

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	6.3E+00	9.5E-08	6.1E-04	3.6E-10	4.7E-02	1.3E-01	2.2E-12	4.4E+00	5.3E-07	6.1E-04	1.4E-09	4.7E-02	1.3E-01	8.8E-12
452	6.2E+00	9.5E-08	6.1E-04	3.6E-10	4.7E-02	1.3E-01	2.2E-12	4.6E+00	5.3E-07	6.1E-04	1.5E-09	4.7E-02	1.3E-01	9.2E-12
453	6.0E+00	9.5E-08	6.1E-04	3.5E-10	4.7E-02	1.3E-01	2.1E-12	4.8E+00	5.3E-07	6.1E-04	1.5E-09	4.7E-02	1.3E-01	9.5E-12
454	5.8E+00	9.5E-08	6.1E-04	3.3E-10	4.7E-02	1.3E-01	2.1E-12	4.9E+00	5.3E-07	6.1E-04	1.6E-09	4.7E-02	1.3E-01	9.7E-12
455	7.8E+00	9.5E-08	6.1E-04	4.5E-10	4.7E-02	1.3E-01	2.8E-12	5.1E+00	5.3E-07	6.1E-04	1.6E-09	4.7E-02	1.3E-01	1.0E-11
456	7.6E+00	9.5E-08	6.1E-04	4.4E-10	4.7E-02	1.3E-01	2.7E-12	5.4E+00	5.3E-07	6.1E-04	1.7E-09	4.7E-02	1.3E-01	1.1E-11
457	7.3E+00	9.5E-08	6.1E-04	4.2E-10	4.7E-02	1.3E-01	2.6E-12	5.6E+00	5.3E-07	6.1E-04	1.8E-09	4.7E-02	1.3E-01	1.1E-11
458	6.9E+00	9.5E-08	6.1E-04	4.0E-10	4.7E-02	1.3E-01	2.5E-12	5.8E+00	5.3E-07	6.1E-04	1.8E-09	4.7E-02	1.3E-01	1.1E-11
459	9.8E+00	9.5E-08	6.1E-04	5.6E-10	4.7E-02	1.3E-01	3.5E-12	6.0E+00	5.3E-07	6.1E-04	1.9E-09	4.7E-02	1.3E-01	1.2E-11
460	9.6E+00	9.5E-08	6.1E-04	5.5E-10	4.7E-02	1.3E-01	3.4E-12	6.4E+00	5.3E-07	6.1E-04	2.1E-09	4.7E-02	1.3E-01	1.3E-11
461	9.1E+00	9.5E-08	6.1E-04	5.2E-10	4.7E-02	1.3E-01	3.2E-12	6.7E+00	5.3E-07	6.1E-04	2.1E-09	4.7E-02	1.3E-01	1.3E-11
462	4.7E+00	9.5E-08	6.1E-04	2.7E-10	4.7E-02	1.3E-01	1.7E-12	2.0E+00	5.3E-07	6.1E-04	6.4E-10	4.7E-02	1.3E-01	4.0E-12
463	5.6E+00	9.5E-08	6.1E-04	3.2E-10	4.7E-02	1.3E-01	2.0E-12	2.2E+00	5.3E-07	6.1E-04	7.2E-10	4.7E-02	1.3E-01	4.5E-12
464	4.5E+00	9.5E-08	6.1E-04	2.6E-10	4.7E-02	1.3E-01	1.6E-12	1.9E+00	5.3E-07	6.1E-04	6.2E-10	4.7E-02	1.3E-01	3.8E-12
465	5.3E+00	9.5E-08	6.1E-04	3.1E-10	4.7E-02	1.3E-01	1.9E-12	2.2E+00	5.3E-07	6.1E-04	6.9E-10	4.7E-02	1.3E-01	4.3E-12
466	6.4E+00	9.5E-08	6.1E-04	3.7E-10	4.7E-02	1.3E-01	2.3E-12	2.4E+00	5.3E-07	6.1E-04	7.8E-10	4.7E-02	1.3E-01	4.8E-12
467	7.9E+00	9.5E-08	6.1E-04	4.6E-10	4.7E-02	1.3E-01	2.8E-12	2.8E+00	5.3E-07	6.1E-04	8.9E-10	4.7E-02	1.3E-01	5.5E-12
468	4.3E+00	9.5E-08	6.1E-04	2.5E-10	4.7E-02	1.3E-01	1.5E-12	1.9E+00	5.3E-07	6.1E-04	6.0E-10	4.7E-02	1.3E-01	3.7E-12
469	5.0E+00	9.5E-08	6.1E-04	2.9E-10	4.7E-02	1.3E-01	1.8E-12	2.1E+00	5.3E-07	6.1E-04	6.6E-10	4.7E-02	1.3E-01	4.1E-12
470	6.1E+00	9.5E-08	6.1E-04	3.5E-10	4.7E-02	1.3E-01	2.2E-12	2.3E+00	5.3E-07	6.1E-04	7.5E-10	4.7E-02	1.3E-01	4.6E-12
471	7.5E+00	9.5E-08	6.1E-04	4.3E-10	4.7E-02	1.3E-01	2.7E-12	2.6E+00	5.3E-07	6.1E-04	8.5E-10	4.7E-02	1.3E-01	5.3E-12
472	4.8E+00	9.5E-08	6.1E-04	2.7E-10	4.7E-02	1.3E-01	1.7E-12	2.0E+00	5.3E-07	6.1E-04	6.4E-10	4.7E-02	1.3E-01	4.0E-12
473	5.7E+00	9.5E-08	6.1E-04	3.3E-10	4.7E-02	1.3E-01	2.0E-12	2.2E+00	5.3E-07	6.1E-04	7.1E-10	4.7E-02	1.3E-01	4.4E-12
474	6.9E+00	9.5E-08	6.1E-04	4.0E-10	4.7E-02	1.3E-01	2.5E-12	2.5E+00	5.3E-07	6.1E-04	8.1E-10	4.7E-02	1.3E-01	5.0E-12
475	4.4E+00	9.5E-08	6.1E-04	2.6E-10	4.7E-02	1.3E-01	1.6E-12	1.9E+00	5.3E-07	6.1E-04	6.1E-10	4.7E-02	1.3E-01	3.8E-12
476	5.3E+00	9.5E-08	6.1E-04	3.0E-10	4.7E-02	1.3E-01	1.9E-12	2.1E+00	5.3E-07	6.1E-04	6.8E-10	4.7E-02	1.3E-01	4.2E-12
477	6.4E+00	9.5E-08	6.1E-04	3.7E-10	4.7E-02	1.3E-01	2.3E-12	2.4E+00	5.3E-07	6.1E-04	7.7E-10	4.7E-02	1.3E-01	4.7E-12

5. Risk by Construction Phase

f. Risk From BC - Unmitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Unmitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	3.8E-03	6.1E-04	1.0E-06	4.7E-02	7.0E-01	3.4E-08	1.1E-03	5.4E-03
452	4.4E-01	3.8E-03	6.1E-04	1.0E-06	4.7E-02	7.0E-01	3.4E-08	1.1E-03	5.4E-03
453	4.4E-01	3.8E-03	6.1E-04	1.0E-06	4.7E-02	7.0E-01	3.4E-08	1.1E-03	5.5E-03
454	4.5E-01	3.8E-03	6.1E-04	1.0E-06	4.7E-02	7.0E-01	3.4E-08	1.1E-03	5.5E-03
455	5.4E-01	3.8E-03	6.1E-04	1.2E-06	4.7E-02	7.0E-01	4.1E-08	1.3E-03	6.4E-03
456	5.4E-01	3.8E-03	6.1E-04	1.2E-06	4.7E-02	7.0E-01	4.1E-08	1.3E-03	6.5E-03
457	5.5E-01	3.8E-03	6.1E-04	1.3E-06	4.7E-02	7.0E-01	4.2E-08	1.3E-03	6.5E-03
458	5.4E-01	3.8E-03	6.1E-04	1.2E-06	4.7E-02	7.0E-01	4.1E-08	1.3E-03	6.5E-03
459	6.8E-01	3.8E-03	6.1E-04	1.6E-06	4.7E-02	7.0E-01	5.2E-08	1.6E-03	7.8E-03
460	6.8E-01	3.8E-03	6.1E-04	1.6E-06	4.7E-02	7.0E-01	5.2E-08	1.6E-03	7.9E-03
461	6.8E-01	3.8E-03	6.1E-04	1.6E-06	4.7E-02	7.0E-01	5.2E-08	1.6E-03	7.9E-03
462	7.8E-01	3.8E-03	6.1E-04	1.8E-06	4.7E-02	7.0E-01	6.0E-08	1.1E-03	5.7E-03
463	9.7E-01	3.8E-03	6.1E-04	2.2E-06	4.7E-02	7.0E-01	7.4E-08	1.4E-03	6.8E-03
464	7.9E-01	3.8E-03	6.1E-04	1.8E-06	4.7E-02	7.0E-01	6.1E-08	1.1E-03	5.7E-03
465	1.0E+00	3.8E-03	6.1E-04	2.3E-06	4.7E-02	7.0E-01	7.7E-08	1.4E-03	7.0E-03
466	1.3E+00	3.8E-03	6.1E-04	3.0E-06	4.7E-02	7.0E-01	1.0E-07	1.7E-03	8.7E-03
467	1.8E+00	3.8E-03	6.1E-04	4.1E-06	4.7E-02	7.0E-01	1.4E-07	2.2E-03	1.1E-02
468	7.7E-01	3.8E-03	6.1E-04	1.8E-06	4.7E-02	7.0E-01	5.9E-08	1.1E-03	5.6E-03
469	9.8E-01	3.8E-03	6.1E-04	2.3E-06	4.7E-02	7.0E-01	7.5E-08	1.4E-03	6.8E-03
470	1.3E+00	3.8E-03	6.1E-04	3.0E-06	4.7E-02	7.0E-01	1.0E-07	1.7E-03	8.7E-03
471	1.8E+00	3.8E-03	6.1E-04	4.2E-06	4.7E-02	7.0E-01	1.4E-07	2.3E-03	1.2E-02
472	9.2E-01	3.8E-03	6.1E-04	2.1E-06	4.7E-02	7.0E-01	7.0E-08	1.3E-03	6.5E-03
473	1.2E+00	3.8E-03	6.1E-04	2.8E-06	4.7E-02	7.0E-01	9.4E-08	1.7E-03	8.3E-03
474	1.7E+00	3.8E-03	6.1E-04	4.0E-06	4.7E-02	7.0E-01	1.3E-07	2.2E-03	1.1E-02
475	8.3E-01	3.8E-03	6.1E-04	1.9E-06	4.7E-02	7.0E-01	6.4E-08	1.2E-03	6.0E-03
476	1.1E+00	3.8E-03	6.1E-04	2.5E-06	4.7E-02	7.0E-01	8.4E-08	1.5E-03	7.6E-03
477	1.5E+00	3.8E-03	6.1E-04	3.5E-06	4.7E-02	7.0E-01	1.2E-07	2.0E-03	1.0E-02

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Unmitigated School

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	3.8E+00	7.9E-05	6.1E-04	1.8E-07	4.7E-02	7.0E-01	6.0E-09	5.1E+00	1.4E-04	6.1E-04	4.4E-07	4.7E-02	7.0E-01	1.5E-08
452	3.6E+00	7.9E-05	6.1E-04	1.8E-07	4.7E-02	7.0E-01	5.8E-09	5.0E+00	1.4E-04	6.1E-04	4.3E-07	4.7E-02	7.0E-01	1.4E-08
453	3.5E+00	7.9E-05	6.1E-04	1.7E-07	4.7E-02	7.0E-01	5.6E-09	4.8E+00	1.4E-04	6.1E-04	4.2E-07	4.7E-02	7.0E-01	1.4E-08
454	3.3E+00	7.9E-05	6.1E-04	1.6E-07	4.7E-02	7.0E-01	5.3E-09	4.6E+00	1.4E-04	6.1E-04	4.1E-07	4.7E-02	7.0E-01	1.3E-08
455	4.3E+00	7.9E-05	6.1E-04	2.1E-07	4.7E-02	7.0E-01	6.9E-09	6.0E+00	1.4E-04	6.1E-04	5.3E-07	4.7E-02	7.0E-01	1.8E-08
456	4.2E+00	7.9E-05	6.1E-04	2.0E-07	4.7E-02	7.0E-01	6.7E-09	5.9E+00	1.4E-04	6.1E-04	5.2E-07	4.7E-02	7.0E-01	1.7E-08
457	4.0E+00	7.9E-05	6.1E-04	1.9E-07	4.7E-02	7.0E-01	6.4E-09	5.7E+00	1.4E-04	6.1E-04	5.0E-07	4.7E-02	7.0E-01	1.7E-08
458	3.8E+00	7.9E-05	6.1E-04	1.8E-07	4.7E-02	7.0E-01	6.0E-09	5.4E+00	1.4E-04	6.1E-04	4.8E-07	4.7E-02	7.0E-01	1.6E-08
459	5.1E+00	7.9E-05	6.1E-04	2.4E-07	4.7E-02	7.0E-01	8.1E-09	7.4E+00	1.4E-04	6.1E-04	6.5E-07	4.7E-02	7.0E-01	2.1E-08
460	4.8E+00	7.9E-05	6.1E-04	2.3E-07	4.7E-02	7.0E-01	7.7E-09	7.2E+00	1.4E-04	6.1E-04	6.3E-07	4.7E-02	7.0E-01	2.1E-08
461	4.6E+00	7.9E-05	6.1E-04	2.2E-07	4.7E-02	7.0E-01	7.3E-09	6.9E+00	1.4E-04	6.1E-04	6.0E-07	4.7E-02	7.0E-01	2.0E-08
462	7.6E+00	7.9E-05	6.1E-04	3.6E-07	4.7E-02	7.0E-01	1.2E-08	5.2E+00	1.4E-04	6.1E-04	4.6E-07	4.7E-02	7.0E-01	1.5E-08
463	8.8E+00	7.9E-05	6.1E-04	4.2E-07	4.7E-02	7.0E-01	1.4E-08	6.1E+00	1.4E-04	6.1E-04	5.4E-07	4.7E-02	7.0E-01	1.8E-08
464	8.1E+00	7.9E-05	6.1E-04	3.9E-07	4.7E-02	7.0E-01	1.3E-08	5.2E+00	1.4E-04	6.1E-04	4.5E-07	4.7E-02	7.0E-01	1.5E-08
465	9.8E+00	7.9E-05	6.1E-04	4.7E-07	4.7E-02	7.0E-01	1.6E-08	6.1E+00	1.4E-04	6.1E-04	5.4E-07	4.7E-02	7.0E-01	1.8E-08
466	1.2E+01	7.9E-05	6.1E-04	5.7E-07	4.7E-02	7.0E-01	1.9E-08	7.4E+00	1.4E-04	6.1E-04	6.4E-07	4.7E-02	7.0E-01	2.1E-08
467	1.5E+01	7.9E-05	6.1E-04	7.0E-07	4.7E-02	7.0E-01	2.3E-08	9.0E+00	1.4E-04	6.1E-04	7.9E-07	4.7E-02	7.0E-01	2.6E-08
468	8.3E+00	7.9E-05	6.1E-04	4.0E-07	4.7E-02	7.0E-01	1.3E-08	5.0E+00	1.4E-04	6.1E-04	4.4E-07	4.7E-02	7.0E-01	1.5E-08
469	1.0E+01	7.9E-05	6.1E-04	5.0E-07	4.7E-02	7.0E-01	1.7E-08	6.0E+00	1.4E-04	6.1E-04	5.2E-07	4.7E-02	7.0E-01	1.7E-08
470	1.3E+01	7.9E-05	6.1E-04	6.3E-07	4.7E-02	7.0E-01	2.1E-08	7.2E+00	1.4E-04	6.1E-04	6.3E-07	4.7E-02	7.0E-01	2.1E-08
471	1.7E+01	7.9E-05	6.1E-04	8.3E-07	4.7E-02	7.0E-01	2.7E-08	9.0E+00	1.4E-04	6.1E-04	7.9E-07	4.7E-02	7.0E-01	2.6E-08
472	1.0E+01	7.9E-05	6.1E-04	5.0E-07	4.7E-02	7.0E-01	1.6E-08	5.7E+00	1.4E-04	6.1E-04	5.0E-07	4.7E-02	7.0E-01	1.7E-08
473	1.4E+01	7.9E-05	6.1E-04	6.5E-07	4.7E-02	7.0E-01	2.2E-08	7.0E+00	1.4E-04	6.1E-04	6.1E-07	4.7E-02	7.0E-01	2.0E-08
474	1.9E+01	7.9E-05	6.1E-04	8.9E-07	4.7E-02	7.0E-01	3.0E-08	8.7E+00	1.4E-04	6.1E-04	7.6E-07	4.7E-02	7.0E-01	2.5E-08
475	9.7E+00	7.9E-05	6.1E-04	4.7E-07	4.7E-02	7.0E-01	1.5E-08	5.4E+00	1.4E-04	6.1E-04	4.7E-07	4.7E-02	7.0E-01	1.6E-08
476	1.3E+01	7.9E-05	6.1E-04	6.2E-07	4.7E-02	7.0E-01	2.0E-08	6.5E+00	1.4E-04	6.1E-04	5.7E-07	4.7E-02	7.0E-01	1.9E-08
477	1.8E+01	7.9E-05	6.1E-04	8.6E-07	4.7E-02	7.0E-01	2.9E-08	8.1E+00	1.4E-04	6.1E-04	7.1E-07	4.7E-02	7.0E-01	2.4E-08

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Unmitigated School

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	6.3E+00	8.5E-05	6.1E-04	3.3E-07	4.7E-02	7.0E-01	1.1E-08	4.4E+00	4.8E-04	6.1E-04	1.3E-06	4.7E-02	7.0E-01	4.2E-08
452	6.2E+00	8.5E-05	6.1E-04	3.2E-07	4.7E-02	7.0E-01	1.1E-08	4.6E+00	4.8E-04	6.1E-04	1.3E-06	4.7E-02	7.0E-01	4.4E-08
453	6.0E+00	8.5E-05	6.1E-04	3.1E-07	4.7E-02	7.0E-01	1.0E-08	4.8E+00	4.8E-04	6.1E-04	1.4E-06	4.7E-02	7.0E-01	4.6E-08
454	5.8E+00	8.5E-05	6.1E-04	3.0E-07	4.7E-02	7.0E-01	9.9E-09	4.9E+00	4.8E-04	6.1E-04	1.4E-06	4.7E-02	7.0E-01	4.7E-08
455	7.8E+00	8.5E-05	6.1E-04	4.0E-07	4.7E-02	7.0E-01	1.3E-08	5.1E+00	4.8E-04	6.1E-04	1.5E-06	4.7E-02	7.0E-01	4.9E-08
456	7.6E+00	8.5E-05	6.1E-04	3.9E-07	4.7E-02	7.0E-01	1.3E-08	5.4E+00	4.8E-04	6.1E-04	1.6E-06	4.7E-02	7.0E-01	5.2E-08
457	7.3E+00	8.5E-05	6.1E-04	3.8E-07	4.7E-02	7.0E-01	1.3E-08	5.6E+00	4.8E-04	6.1E-04	1.6E-06	4.7E-02	7.0E-01	5.4E-08
458	6.9E+00	8.5E-05	6.1E-04	3.6E-07	4.7E-02	7.0E-01	1.2E-08	5.8E+00	4.8E-04	6.1E-04	1.7E-06	4.7E-02	7.0E-01	5.5E-08
459	9.8E+00	8.5E-05	6.1E-04	5.1E-07	4.7E-02	7.0E-01	1.7E-08	6.0E+00	4.8E-04	6.1E-04	1.7E-06	4.7E-02	7.0E-01	5.8E-08
460	9.6E+00	8.5E-05	6.1E-04	4.9E-07	4.7E-02	7.0E-01	1.6E-08	6.4E+00	4.8E-04	6.1E-04	1.8E-06	4.7E-02	7.0E-01	6.1E-08
461	9.1E+00	8.5E-05	6.1E-04	4.7E-07	4.7E-02	7.0E-01	1.6E-08	6.7E+00	4.8E-04	6.1E-04	1.9E-06	4.7E-02	7.0E-01	6.4E-08
462	4.7E+00	8.5E-05	6.1E-04	2.4E-07	4.7E-02	7.0E-01	8.0E-09	2.0E+00	4.8E-04	6.1E-04	5.8E-07	4.7E-02	7.0E-01	1.9E-08
463	5.6E+00	8.5E-05	6.1E-04	2.9E-07	4.7E-02	7.0E-01	9.5E-09	2.2E+00	4.8E-04	6.1E-04	6.5E-07	4.7E-02	7.0E-01	2.2E-08
464	4.5E+00	8.5E-05	6.1E-04	2.3E-07	4.7E-02	7.0E-01	7.7E-09	1.9E+00	4.8E-04	6.1E-04	5.6E-07	4.7E-02	7.0E-01	1.9E-08
465	5.3E+00	8.5E-05	6.1E-04	2.7E-07	4.7E-02	7.0E-01	9.1E-09	2.2E+00	4.8E-04	6.1E-04	6.2E-07	4.7E-02	7.0E-01	2.1E-08
466	6.4E+00	8.5E-05	6.1E-04	3.3E-07	4.7E-02	7.0E-01	1.1E-08	2.4E+00	4.8E-04	6.1E-04	7.0E-07	4.7E-02	7.0E-01	2.3E-08
467	7.9E+00	8.5E-05	6.1E-04	4.1E-07	4.7E-02	7.0E-01	1.4E-08	2.8E+00	4.8E-04	6.1E-04	8.0E-07	4.7E-02	7.0E-01	2.7E-08
468	4.3E+00	8.5E-05	6.1E-04	2.2E-07	4.7E-02	7.0E-01	7.3E-09	1.9E+00	4.8E-04	6.1E-04	5.4E-07	4.7E-02	7.0E-01	1.8E-08
469	5.0E+00	8.5E-05	6.1E-04	2.6E-07	4.7E-02	7.0E-01	8.6E-09	2.1E+00	4.8E-04	6.1E-04	6.0E-07	4.7E-02	7.0E-01	2.0E-08
470	6.1E+00	8.5E-05	6.1E-04	3.1E-07	4.7E-02	7.0E-01	1.0E-08	2.3E+00	4.8E-04	6.1E-04	6.7E-07	4.7E-02	7.0E-01	2.2E-08
471	7.5E+00	8.5E-05	6.1E-04	3.9E-07	4.7E-02	7.0E-01	1.3E-08	2.6E+00	4.8E-04	6.1E-04	7.6E-07	4.7E-02	7.0E-01	2.5E-08
472	4.8E+00	8.5E-05	6.1E-04	2.5E-07	4.7E-02	7.0E-01	8.1E-09	2.0E+00	4.8E-04	6.1E-04	5.7E-07	4.7E-02	7.0E-01	1.9E-08
473	5.7E+00	8.5E-05	6.1E-04	2.9E-07	4.7E-02	7.0E-01	9.7E-09	2.2E+00	4.8E-04	6.1E-04	6.4E-07	4.7E-02	7.0E-01	2.1E-08
474	6.9E+00	8.5E-05	6.1E-04	3.6E-07	4.7E-02	7.0E-01	1.2E-08	2.5E+00	4.8E-04	6.1E-04	7.2E-07	4.7E-02	7.0E-01	2.4E-08
475	4.4E+00	8.5E-05	6.1E-04	2.3E-07	4.7E-02	7.0E-01	7.6E-09	1.9E+00	4.8E-04	6.1E-04	5.5E-07	4.7E-02	7.0E-01	1.8E-08
476	5.3E+00	8.5E-05	6.1E-04	2.7E-07	4.7E-02	7.0E-01	9.0E-09	2.1E+00	4.8E-04	6.1E-04	6.1E-07	4.7E-02	7.0E-01	2.0E-08
477	6.4E+00	8.5E-05	6.1E-04	3.3E-07	4.7E-02	7.0E-01	1.1E-08	2.4E+00	4.8E-04	6.1E-04	6.9E-07	4.7E-02	7.0E-01	2.3E-08

5. Risk by Construction Phase

g. Risk From Arch. Coating - Unmitigated School

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Arch. Coating - Unmitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	1.2E-03	6.1E-04	3.1E-07	4.7E-02	6.6E-01	9.6E-09	1.0E-04	5.1E-04
452	4.4E-01	1.2E-03	6.1E-04	3.1E-07	4.7E-02	6.6E-01	9.7E-09	1.0E-04	5.2E-04
453	4.4E-01	1.2E-03	6.1E-04	3.1E-07	4.7E-02	6.6E-01	9.7E-09	1.0E-04	5.2E-04
454	4.5E-01	1.2E-03	6.1E-04	3.1E-07	4.7E-02	6.6E-01	9.7E-09	1.0E-04	5.2E-04
455	5.4E-01	1.2E-03	6.1E-04	3.8E-07	4.7E-02	6.6E-01	1.2E-08	1.3E-04	6.3E-04
456	5.4E-01	1.2E-03	6.1E-04	3.8E-07	4.7E-02	6.6E-01	1.2E-08	1.3E-04	6.3E-04
457	5.5E-01	1.2E-03	6.1E-04	3.8E-07	4.7E-02	6.6E-01	1.2E-08	1.3E-04	6.4E-04
458	5.4E-01	1.2E-03	6.1E-04	3.8E-07	4.7E-02	6.6E-01	1.2E-08	1.3E-04	6.3E-04
459	6.8E-01	1.2E-03	6.1E-04	4.8E-07	4.7E-02	6.6E-01	1.5E-08	1.6E-04	7.9E-04
460	6.8E-01	1.2E-03	6.1E-04	4.8E-07	4.7E-02	6.6E-01	1.5E-08	1.6E-04	8.0E-04
461	6.8E-01	1.2E-03	6.1E-04	4.8E-07	4.7E-02	6.6E-01	1.5E-08	1.6E-04	7.9E-04
462	7.8E-01	1.2E-03	6.1E-04	5.5E-07	4.7E-02	6.6E-01	1.7E-08	1.8E-04	9.1E-04
463	9.7E-01	1.2E-03	6.1E-04	6.8E-07	4.7E-02	6.6E-01	2.1E-08	2.3E-04	1.1E-03
464	7.9E-01	1.2E-03	6.1E-04	5.6E-07	4.7E-02	6.6E-01	1.7E-08	1.8E-04	9.2E-04
465	1.0E+00	1.2E-03	6.1E-04	7.1E-07	4.7E-02	6.6E-01	2.2E-08	2.3E-04	1.2E-03
466	1.3E+00	1.2E-03	6.1E-04	9.2E-07	4.7E-02	6.6E-01	2.9E-08	3.0E-04	1.5E-03
467	1.8E+00	1.2E-03	6.1E-04	1.2E-06	4.7E-02	6.6E-01	3.9E-08	4.1E-04	2.1E-03
468	7.7E-01	1.2E-03	6.1E-04	5.4E-07	4.7E-02	6.6E-01	1.7E-08	1.8E-04	8.9E-04
469	9.8E-01	1.2E-03	6.1E-04	6.9E-07	4.7E-02	6.6E-01	2.1E-08	2.3E-04	1.1E-03
470	1.3E+00	1.2E-03	6.1E-04	9.2E-07	4.7E-02	6.6E-01	2.8E-08	3.0E-04	1.5E-03
471	1.8E+00	1.2E-03	6.1E-04	1.3E-06	4.7E-02	6.6E-01	4.0E-08	4.3E-04	2.1E-03
472	9.2E-01	1.2E-03	6.1E-04	6.5E-07	4.7E-02	6.6E-01	2.0E-08	2.1E-04	1.1E-03
473	1.2E+00	1.2E-03	6.1E-04	8.7E-07	4.7E-02	6.6E-01	2.7E-08	2.9E-04	1.4E-03
474	1.7E+00	1.2E-03	6.1E-04	1.2E-06	4.7E-02	6.6E-01	3.8E-08	4.0E-04	2.0E-03
475	8.3E-01	1.2E-03	6.1E-04	5.9E-07	4.7E-02	6.6E-01	1.8E-08	1.9E-04	9.7E-04
476	1.1E+00	1.2E-03	6.1E-04	7.8E-07	4.7E-02	6.6E-01	2.4E-08	2.6E-04	1.3E-03
477	1.5E+00	1.2E-03	6.1E-04	1.1E-06	4.7E-02	6.6E-01	3.4E-08	3.6E-04	1.8E-03

5. Risk by Construction Phase

h. Risk From Paving - Unmitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Unmitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	HI	Conc
451	4.4E-01	7.6E-03	6.1E-04	2.0E-06	4.7E-02	6.3E-02	6.0E-09	6.7E-04	3.3E-03
452	4.4E-01	7.6E-03	6.1E-04	2.0E-06	4.7E-02	6.3E-02	6.0E-09	6.7E-04	3.4E-03
453	4.4E-01	7.6E-03	6.1E-04	2.0E-06	4.7E-02	6.3E-02	6.1E-09	6.7E-04	3.4E-03
454	4.5E-01	7.6E-03	6.1E-04	2.0E-06	4.7E-02	6.3E-02	6.1E-09	6.8E-04	3.4E-03
455	5.4E-01	7.6E-03	6.1E-04	2.5E-06	4.7E-02	6.3E-02	7.3E-09	8.2E-04	4.1E-03
456	5.4E-01	7.6E-03	6.1E-04	2.5E-06	4.7E-02	6.3E-02	7.4E-09	8.2E-04	4.1E-03
457	5.5E-01	7.6E-03	6.1E-04	2.5E-06	4.7E-02	6.3E-02	7.4E-09	8.3E-04	4.1E-03
458	5.4E-01	7.6E-03	6.1E-04	2.5E-06	4.7E-02	6.3E-02	7.4E-09	8.2E-04	4.1E-03
459	6.8E-01	7.6E-03	6.1E-04	3.1E-06	4.7E-02	6.3E-02	9.3E-09	1.0E-03	5.2E-03
460	6.8E-01	7.6E-03	6.1E-04	3.1E-06	4.7E-02	6.3E-02	9.3E-09	1.0E-03	5.2E-03
461	6.8E-01	7.6E-03	6.1E-04	3.1E-06	4.7E-02	6.3E-02	9.3E-09	1.0E-03	5.2E-03
462	7.8E-01	7.6E-03	6.1E-04	3.6E-06	4.7E-02	6.3E-02	1.1E-08	1.2E-03	5.9E-03
463	9.7E-01	7.6E-03	6.1E-04	4.4E-06	4.7E-02	6.3E-02	1.3E-08	1.5E-03	7.3E-03
464	7.9E-01	7.6E-03	6.1E-04	3.6E-06	4.7E-02	6.3E-02	1.1E-08	1.2E-03	6.0E-03
465	1.0E+00	7.6E-03	6.1E-04	4.6E-06	4.7E-02	6.3E-02	1.4E-08	1.5E-03	7.6E-03
466	1.3E+00	7.6E-03	6.1E-04	6.0E-06	4.7E-02	6.3E-02	1.8E-08	2.0E-03	9.9E-03
467	1.8E+00	7.6E-03	6.1E-04	8.1E-06	4.7E-02	6.3E-02	2.4E-08	2.7E-03	1.3E-02
468	7.7E-01	7.6E-03	6.1E-04	3.5E-06	4.7E-02	6.3E-02	1.0E-08	1.2E-03	5.8E-03
469	9.8E-01	7.6E-03	6.1E-04	4.5E-06	4.7E-02	6.3E-02	1.3E-08	1.5E-03	7.4E-03
470	1.3E+00	7.6E-03	6.1E-04	6.0E-06	4.7E-02	6.3E-02	1.8E-08	2.0E-03	9.9E-03
471	1.8E+00	7.6E-03	6.1E-04	8.4E-06	4.7E-02	6.3E-02	2.5E-08	2.8E-03	1.4E-02
472	9.2E-01	7.6E-03	6.1E-04	4.2E-06	4.7E-02	6.3E-02	1.3E-08	1.4E-03	7.0E-03
473	1.2E+00	7.6E-03	6.1E-04	5.6E-06	4.7E-02	6.3E-02	1.7E-08	1.9E-03	9.3E-03
474	1.7E+00	7.6E-03	6.1E-04	8.0E-06	4.7E-02	6.3E-02	2.4E-08	2.6E-03	1.3E-02
475	8.3E-01	7.6E-03	6.1E-04	3.8E-06	4.7E-02	6.3E-02	1.1E-08	1.3E-03	6.3E-03
476	1.1E+00	7.6E-03	6.1E-04	5.0E-06	4.7E-02	6.3E-02	1.5E-08	1.7E-03	8.3E-03
477	1.5E+00	7.6E-03	6.1E-04	7.0E-06	4.7E-02	6.3E-02	2.1E-08	2.3E-03	1.2E-02

Mt. Etna Community Plan Amendment and Rezone Project
Mitigated School Health Risk Assessment

1. Assumptions
2. Risk by Phase Summary
3. Cancer Risk Summary
4. Non-Cancer Risk Summary
5. Risk by Construction Phase
    a. Risk From Demolition - Mitigated School
    b. Risk From Site Prep - Mitigated School
    c. Risk From Grading - Mitigated School
    d. Risk From Trenching - Mitigated School
    e. Risk From Foundation - Mitigated School
    f. Risk From BC - Mitigated School
    g. Risk From Arch. Coating - Mitigated School
    h. Risk From Paving - Mitigated School

Mitigated School Health Risk Assessment

1. Assumptions

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated School - Construction Health Risk Assumptions

	3rd	Birth to 2	2-16	NA	Units
DBR	361	1090	631	261	L/kg
A	1	1	1	1	no units
EF	0.958904	0.958904	0.958904	0.958904	years
Constant 1	0.000001	0.000001	0.000001	0.000001	no units
CPF	1.1	1.1	1.1	1.1	mg/kg-day-1
ASF	10	10	3	1	no units
Demolition	0.00	0.00	**0.04**	0.00	years
Site Prep	0.00	0.00	**0.08**	0.00	years
Grading	0.00	0.00	**0.08**	0.00	years
Trenching	0.00	0.00	**0.08**	0.00	years
Foundation	0.00	0.00	**0.13**	0.00	years
BC	0.00	0.00	**0.70**	0.00	years
Arch. Coating	0.00	0.00	**0.66**	0.00	years
Paving	0.00	0.00	**0.06**	0.00	years
AT	70	70	70	70	years
FAH	1	1	1	0.73	day
Constant 2	1,000,000	1,000,000	1,000,000	1,000,000	no units
Dose Constant	0.000346	0.001045	0.000605	0.00025	no units
Risk Constants	0.157143	0.157143	0.047143	0.011471	no units

Dose = (Cair X DBR X A X EF X Constant 1)

Cancer Risk = Dose X CPF x ASF x (ED/AT) X FAH

Risk per Million = Cancer Risk X Constant 2

Non-Cancer Hazard Quotent = Average Annual Concentration x Chronic Inhalation REL

Onsite	lbs/day	g/day	g/sec	days
	2-16 years			
Demolition	0.0616	27.94129	0.0006468	15
Site Prep	0.0692	31.388592	0.0007266	30
Grading	0.044	19.958064	0.000462	30
Trenching	0.0367	16.64684	0.0003853	29
Foundation	0.0138	6.2595747	0.0001449	48
BC	0.0214	9.7068767	0.0002247	257
Arch. Coating	0.00528	2.3949677	5.544E-05	240
Paving	0.042	19.05088	0.000441	23

Offsite	lbs/day/mile	Meters	Miles	lbs/day	g/day	g/sec
Haul1A						
Demolition H	0.0001409	135.1	0.0839471	1.183E-05	0.0053655	1.242E-07
Site Preparation H	0.0001429	135.1	0.0839471	1.199E-05	0.0054397	1.259E-07
Grading H	0.0001429	135.1	0.0839471	1.199E-05	0.0054397	1.259E-07
Foundation H	0.0001	135.1	0.0839471	8.395E-06	0.0038078	8.814E-08
BC V	0.09	135.1	0.0839471	0.0075552	3.4269982	7.933E-05
Haul1B						
Demolition H	0.0001409	246.3	0.1530434	2.157E-05	0.0097818	2.264E-07
Site Preparation H	0.0001429	246.3	0.1530434	2.186E-05	0.009917	2.296E-07
Grading H	0.0001429	246.3	0.1530434	2.186E-05	0.009917	2.296E-07
Foundation H	0.0001	246.3	0.1530434	1.53E-05	0.0069419	1.607E-07
BC V	0.09	246.3	0.1530434	0.0137739	6.2477399	0.0001446
Haul2A						
Demolition H	0.0001409	145.3	0.0902851	1.272E-05	0.0057706	1.336E-07
Site Preparation H	0.0001429	145.3	0.0902851	1.29E-05	0.0058504	1.354E-07
Grading H	0.0001429	145.3	0.0902851	1.29E-05	0.0058504	1.354E-07
Foundation H	0.0001	145.3	0.0902851	9.029E-06	0.0040953	9.48E-08
BC V	0.09	145.3	0.0902851	0.0081257	3.6857353	8.532E-05
HaulC						
Demolition H	0.0001409	810.6	0.5036825	7.097E-05	0.032193	7.452E-07
Site Preparation H	0.0001429	810.6	0.5036825	7.195E-05	0.0326381	7.555E-07
Grading H	0.0001429	810.6	0.5036825	7.195E-05	0.0326381	7.555E-07
Foundation H	0.0001	810.6	0.5036825	5.037E-05	0.0228467	5.289E-07
BC V	0.09	810.6	0.5036825	0.0453314	20.561989	0.000476

Mt. Etna Community Plan Amendment and Rezone Project
Mitigated School - Construction Health Risk Assumptions

Source Name	**Description**
Sline1	Onsite Construction
Haul1A	Haul Route Mt. Etna site to Genesee Ave
	135.1 m
Haul 1B	Genesee Ave from Mt. Etna to Balboa
	246.3 m
Haul 2A	Genesee Ave from Site to Balboa
	145.3 m
Haul C	Balboa from Genesee towards the 805
	810.6 m

Receptor Designations	
Residential	#1 - 450
School	#451 - 477

Construction hours per day 12

Phase	**Start**	**End**	**Days**
Demolition	2021/03/01	2021/03/21	15
Site Preparation	2021/03/22	2021/04/30	30
Grading	2021/05/01	2021/06/11	30
Drainage/Utilities/Trenching	2021/06/12	2021/07/22	29
Foundations/Concrete Pour	2021/07/23	2021/09/28	48
Building Construction	2021/09/29	2022/09/22	257
Architectural Coating	2021/11/24	2022/10/25	240
Paving	2022/09/23	2022/10/25	23

	lbs/day	**lbs/mile V**	**lbs/mile H**		
Demolition	0.0616		0.000140909		
Site Preparation	0.0692		0.000142857		
Grading	0.044		0.000142857		
Drainage/Utilities/Trenching	0.0367				
Foundations/Concrete Pour	0.0138		0.0001		
Building Construction	0.0214	0.09			0.4731
Architectural Coating	0.00528				0.109
Paving	0.042				

	2021	Days	2022	Days	Average
Building Construction	0.0214	68	0.0214	189	0.0214
Arch. Coating	5.28E-03	28	5.28E-03	212	0.00528

Vendor Trips	#	Miles/trip	Total miles	Days	lbs/day
Demolition	0	7.3	0		
Site Preparation	0	7.3	0		
Grading	0	7.3	0		
Drainage/Utilities/Trenching	0	7.3	0		
Foundations/Concrete Pour	0	7.3	0		
BC - 2021	79	7.3	576.7	68	0.09
BC - 2022	79	7.3	576.7	189	0.09
Architectural Coating	0	7.3	0		
Paving	0	7.3	0		

Vendor Trips	#	#/day	Miles/trip	Total miles	lbs/day
Demolition	1639	110	20	2200	0.31
Site Preparation	200	7	20	140	2.00E-02
Grading	200	7	20	140	2.00E-02
Drainage/Utilities/Trenching	0	0	20	0	
Foundations/Concrete Pour	200	5	20	100	1.00E-02
BC - 2021	0	0	20	0	
Architectural Coating	0	0	20	0	
Paving	0	0	20	0	

Mitigated School Health Risk Assessment

2. Risk by Phase Summary

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated School Risk by Phase

	Cancer Risk	Non-Cancer Risk	Receptor
Site Demolition and Preparation			
Demolition	0.001	0.0002	471
Site Preparation	0.003	0.0003	471
Grading	0.002	0.0002	471
Trenching	0.002	0.0001	471
Max Phase	0.01	0.001	471
Community Plan Amendment and Rezone			
Foundation	0.001	0.0001	471
BC	0.09	0.0011	461
AC	0.002	0.0000	471
Paving	0.001	0.0002	471
Max Phase	0.10	0.001	461

Mitigated School Risk by Phase

Cancer Risk

Receptor #	D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
451	0.0019851	0.06608871	0.000348545	0.000762523	0.000489095	0.000384933	0.000252657	0.065028355	0.000458318	0.000349381
452	0.00199198	0.06744311	0.000349767	0.000765174	0.000490871	0.000386165	0.000253703	0.066379124	0.000459784	0.000350498
453	0.00200381	0.06837616	0.000351851	0.000769722	0.000493824	0.000388409	0.000255289	0.067305876	0.000462456	0.000352535
454	0.00200685	0.06882694	0.00035239	0.000770895	0.0004946	0.000388968	0.00025573	0.067755045	0.000463122	0.000353043
455	0.00242095	0.07731045	0.000425031	0.00092992	0.000596244	0.00046975	0.000307635	0.076017148	0.000559304	0.000426364
456	0.00243901	0.07916438	0.000428218	0.000936868	0.000600785	0.000473139	0.000310123	0.077861475	0.000563339	0.000429439
457	0.00245643	0.08038989	0.000431285	0.000943563	0.000605123	0.000476457	0.000312437	0.079077707	0.00056729	0.000432451
458	0.00244131	0.08077288	0.000428641	0.000937762	0.000601462	0.000473444	0.000310647	0.079468817	0.000563703	0.000429717
459	0.00306632	0.09210245	0.000538264	0.001177777	0.000754772	0.000595508	0.000388768	0.090464142	0.000709037	0.000540507
460	0.00308043	0.09469711	0.000540767	0.001183211	0.000758401	0.00059805	0.000390884	0.093051355	0.000712063	0.000542813
461	0.00306921	0.09622566	0.000538821	0.001178916	0.000755774	0.000595701	0.000389743	0.094585971	0.000709266	0.000540681
462	0.00349817	0.0518064	0.000613412	0.001343273	0.000857235	0.000684247	0.000435491	0.04993517	0.000814693	0.000621049
463	0.00431653	0.06002206	0.000756865	0.00165749	0.001057495	0.000844676	0.000536781	0.057712916	0.001005706	0.00076666
464	0.00353889	0.05194137	0.000620547	0.001358908	0.000867181	0.000692255	0.00044049	0.050048334	0.000824228	0.000628317
465	0.00446977	0.0609852	0.000783721	0.001716327	0.001094954	0.00087477	0.000555662	0.058594028	0.001041538	0.000793975
466	0.00582033	0.07267049	0.001020441	0.002234872	0.001425313	0.001139701	0.00072254	0.069556542	0.001356975	0.001034437
467	0.00787522	0.08814965	0.001380587	0.003023834	0.001927794	0.001543009	0.000976103	0.083935879	0.001837171	0.001400495
468	0.00342737	0.0509782	0.000601	0.001316089	0.000839902	0.000670378	0.00042671	0.049144847	0.00079818	0.000608461
469	0.00437931	0.06049593	0.000767869	0.001681596	0.001072848	0.000856998	0.000544528	0.058153176	0.001020378	0.000777845
470	0.0058177	0.07332706	0.001019989	0.00223387	0.00142472	0.001139124	0.000722319	0.070214539	0.001356289	0.001033913
471	0.00817527	0.09157154	0.001433188	0.003139043	0.002001248	0.001601792	0.001013302	0.087197233	0.00190716	0.001453849
472	0.00410748	0.05853189	0.000720227	0.001577228	0.001006382	0.000803638	0.000510998	0.056334635	0.000956845	0.000729413
473	0.00547973	0.07169475	0.000960767	0.002104115	0.001342142	0.001072708	0.000680753	0.068763154	0.001277211	0.000973632
474	0.00773203	0.09087649	0.001355537	0.002968881	0.001893052	0.001514556	0.000959007	0.086739524	0.001803294	0.00137467
475	0.00372124	0.05514274	0.000652529	0.001428934	0.000911903	0.000727878	0.000463267	0.053152185	0.000866642	0.00066065
476	0.0049126	0.06737128	0.000861369	0.001886368	0.001203458	0.000961404	0.000610764	0.064743222	0.001144687	0.000872607
477	0.00685293	0.08564796	0.001201482	0.00263137	0.001678189	0.001341892	0.000850742	0.081981552	0.001597712	0.001217953

Mitigated School Risk by Phase

Non-Cancer Risk

D&P	CPAR	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
0.000199252	0.000812759	5.81687E-05	6.52192E-05	4.18941E-05	3.39696E-05	1.35906E-05	0.000755406	4.88718E-06	3.88753E-05
0.000199932	0.000824411	5.8369E-05	6.54422E-05	4.20424E-05	3.40782E-05	1.36442E-05	0.000766864	4.90281E-06	3.89996E-05
0.000201102	0.000830836	5.87108E-05	6.58252E-05	4.22894E-05	3.42763E-05	1.37253E-05	0.000772953	4.93131E-06	3.92263E-05
0.000201387	0.000831144	5.87939E-05	6.59185E-05	4.23488E-05	3.43256E-05	1.3744E-05	0.000773179	4.9384E-06	3.92827E-05
0.000243001	0.000959361	7.09349E-05	7.95382E-05	5.10736E-05	4.14545E-05	1.65492E-05	0.000889406	5.96402E-06	4.74411E-05
0.000244797	0.000975419	7.14609E-05	8.01265E-05	5.14565E-05	4.17535E-05	1.66787E-05	0.00090495	6.00704E-06	4.77833E-05
0.000246519	0.000983286	7.19637E-05	8.06901E-05	5.1819E-05	4.20464E-05	1.67968E-05	0.000912321	6.04918E-06	4.81185E-05
0.000244974	0.000980026	7.15133E-05	8.01845E-05	5.1496E-05	4.17805E-05	1.66939E-05	0.000909507	6.01093E-06	4.78142E-05
0.000307774	0.001156584	8.98319E-05	0.000100737	6.46521E-05	5.25524E-05	2.09134E-05	0.001067969	7.56067E-06	6.01417E-05
0.000309169	0.001178817	9.02423E-05	0.000101194	6.49555E-05	5.27766E-05	2.10219E-05	0.001089803	7.59293E-06	6.03983E-05
0.000308012	0.001186396	8.99069E-05	0.000100816	6.47197E-05	5.25693E-05	2.09528E-05	0.001097719	7.56311E-06	6.01611E-05
0.000350555	0.000678426	0.000102201	0.000114717	7.32547E-05	6.03833E-05	2.33078E-05	0.000577327	8.6873E-06	6.91035E-05
0.000432543	0.000794315	0.000126095	0.000141545	9.03616E-05	7.45409E-05	2.87246E-05	0.000669561	1.07241E-05	8.53056E-05
0.000354616	0.000677439	0.000103383	0.000116045	7.40979E-05	6.109E-05	2.35707E-05	0.000575167	8.78898E-06	6.99123E-05
0.000447863	0.000803511	0.000130558	0.000146558	9.35507E-05	7.71966E-05	2.97269E-05	0.000674333	1.11062E-05	8.83449E-05
0.00058314	0.000970436	0.000169979	0.000190823	0.000121762	0.000100576	3.8645E-05	0.00080222	1.44698E-05	0.000115101
0.000788952	0.001198904	0.00022995	0.000258167	0.000164668	0.000136167	5.21929E-05	0.000971289	1.95903E-05	0.000155832
0.000343435	0.000661419	0.000100124	0.000112387	7.17648E-05	5.91595E-05	2.28318E-05	0.000562373	8.51123E-06	6.77029E-05
0.000438785	0.000791651	0.000127912	0.000143587	9.16572E-05	7.56283E-05	2.91279E-05	0.000665093	1.08806E-05	8.65501E-05
0.000582848	0.000970602	0.000169894	0.000190727	0.000121702	0.000100525	3.86262E-05	0.00080247	1.44625E-05	0.000115043
0.00081895	0.00123216	0.000238691	0.000267983	0.000170922	0.000141355	5.41674E-05	0.000995888	2.03366E-05	0.000161768
0.000411552	0.000760804	0.000119977	0.000134676	8.59795E-05	7.09194E-05	2.73347E-05	0.000642105	1.02031E-05	8.11612E-05
0.000548988	0.000939959	0.000160029	0.000179648	0.000114647	9.46643E-05	3.64029E-05	0.000781601	1.36193E-05	0.000108335
0.000774539	0.001205252	0.000225754	0.000253452	0.000161677	0.000133656	5.1262E-05	0.000981802	1.9229E-05	0.000152958
0.000372866	0.000712753	0.000108703	0.000122018	7.79116E-05	6.42337E-05	2.47841E-05	0.000605218	9.24125E-06	7.35099E-05
0.000492187	0.000876662	0.000143478	0.000161062	0.000102805	8.48419E-05	3.26637E-05	0.000734698	1.22061E-05	9.70942E-05
0.000686501	0.001123182	0.000200104	0.000224645	0.000143333	0.000118419	4.54794E-05	0.000925145	1.70369E-05	0.000135521

Mitigated School Health Risk Assessment
3. Cancer Risk Summary

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated School - Construction Cancer Risk Summary

			471	Receptor										
			0.10	Max		Onsite								
Receptor #	X	Y	Total	Total Onsite	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving	Total Haul1
451	482941	3630879	0.0680738	0.0049923	0.0003426	0.0007508	0.0004774	0.0003849	0.0002396	0.0019892	0.0004583	0.0003494	0.0630815
452	482991	3630879	0.0694351	0.0050082	0.0003437	0.0007532	0.0004789	0.0003862	0.0002403	0.0019955	0.0004598	0.0003505	0.0644269
453	483041	3630879	0.07038	0.0050373	0.0003457	0.0007576	0.0004817	0.0003884	0.0002417	0.0020071	0.0004625	0.0003525	0.0653426
454	483091	3630879	0.0708338	0.0050446	0.0003462	0.0007587	0.0004824	0.000389	0.0002421	0.00201	0.0004631	0.000353	0.0657892
455	482941	3630929	0.0797314	0.0060923	0.0004181	0.0009163	0.0005826	0.0004698	0.0002924	0.0024274	0.0005593	0.0004264	0.0736391
456	482991	3630929	0.0816034	0.0061362	0.0004212	0.0009229	0.0005868	0.0004731	0.0002945	0.002445	0.0005633	0.0004294	0.0754672
457	483041	3630929	0.0828463	0.0061792	0.0004241	0.0009294	0.0005909	0.0004765	0.0002965	0.0024621	0.0005673	0.0004325	0.0766671
458	483091	3630929	0.0832142	0.0061402	0.0004214	0.0009235	0.0005872	0.0004734	0.0002947	0.0024465	0.0005637	0.0004297	0.077074
459	482941	3630979	0.0951688	0.0077232	0.0005301	0.0011616	0.0007386	0.0005955	0.0003706	0.0030773	0.000709	0.0005405	0.0874455
460	482991	3630979	0.0977775	0.0077562	0.0005323	0.0011665	0.0007417	0.000598	0.0003722	0.0030904	0.0007121	0.0005428	0.0900214
461	483041	3630979	0.0992949	0.0077257	0.0005302	0.001162	0.0007388	0.0005957	0.0003708	0.0030783	0.0007093	0.0005407	0.0915691
462	482391	3631229	0.0553046	0.0088741	0.0006091	0.0013347	0.0008486	0.0006842	0.0004259	0.0035359	0.0008147	0.000621	0.0464305
463	482441	3631229	0.0643386	0.0109547	0.0007519	0.0016476	0.0010476	0.0008447	0.0005257	0.0043649	0.0010057	0.0007667	0.0533839
464	482391	3631279	0.0554803	0.008978	0.0006162	0.0013503	0.0008586	0.0006923	0.0004308	0.0035772	0.0008242	0.0006283	0.0465023
465	482441	3631279	0.065455	0.011345	0.0007787	0.0017063	0.0010849	0.0008748	0.0005444	0.0045204	0.0010415	0.000794	0.05411
466	482491	3631279	0.0784908	0.0147809	0.0010145	0.0022231	0.0014135	0.0011397	0.0007093	0.0058894	0.001357	0.0010344	0.0637099
467	482541	3631279	0.0960249	0.0200115	0.0013735	0.0030098	0.0019137	0.001543	0.0009603	0.0079735	0.0018372	0.0014005	0.0760134
468	482391	3631329	0.0544056	0.0086942	0.0005967	0.0013076	0.0008314	0.0006704	0.0004172	0.0034642	0.0007982	0.0006085	0.0457113
469	482441	3631329	0.0648752	0.0111145	0.0007628	0.0016716	0.0010629	0.000857	0.0005334	0.0044286	0.0010204	0.0007778	0.0537607
470	482491	3631329	0.0791448	0.0147735	0.001014	0.002222	0.0014128	0.0011391	0.000709	0.0058865	0.0013563	0.0010339	0.0643713
471	482541	3631329	0.0997468	0.0207739	0.0014258	0.0031244	0.0019866	0.0016018	0.0009969	0.0082773	0.0019072	0.0014538	0.0789729
472	482441	3631379	0.0626394	0.0104225	0.0007153	0.0015676	0.0009967	0.0008036	0.0005002	0.0041528	0.0009568	0.0007294	0.0522169
473	482491	3631379	0.0771745	0.0139121	0.0009548	0.0020924	0.0013304	0.0010727	0.0006676	0.0055432	0.0012772	0.0009736	0.0632624
474	482541	3631379	0.0986085	0.0196425	0.0013481	0.0029543	0.0018784	0.0015146	0.0009426	0.0078265	0.0018033	0.0013747	0.078966
475	482441	3631429	0.058864	0.0094399	0.0006479	0.0014198	0.0009028	0.0007279	0.000453	0.0037613	0.0008666	0.0006607	0.049424
476	482491	3631429	0.0722839	0.0124686	0.0008558	0.0018753	0.0011924	0.0009614	0.0005984	0.0049681	0.0011447	0.0008726	0.0598153
477	482541	3631429	0.0925009	0.0174032	0.0011945	0.0026175	0.0016643	0.0013419	0.0008352	0.0069343	0.0015977	0.001218	0.0750977

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated School - Construction Cancer Risk Summary

	Haul Route 1						Haul Route 2				
Receptor #	Demolition	Site Prep	Grading	Foundation	BC	Total Haul2	Demolition	Site Prep	Grading	Foundation	BC
451	5.906E-06	1.168E-05	1.168E-05	1.308E-05	0.0630392	0.0532204	4.983E-06	9.854E-06	9.854E-06	1.104E-05	0.0531846
452	6.032E-06	1.193E-05	1.193E-05	1.336E-05	0.0643836	0.0548583	5.136E-06	1.016E-05	1.016E-05	1.138E-05	0.0548215
453	6.118E-06	1.21E-05	1.21E-05	1.355E-05	0.0652988	0.056095	5.252E-06	1.039E-05	1.039E-05	1.163E-05	0.0560574
454	6.16E-06	1.218E-05	1.218E-05	1.364E-05	0.065745	0.0569074	5.328E-06	1.054E-05	1.054E-05	1.18E-05	0.0568692
455	6.895E-06	1.364E-05	1.364E-05	1.527E-05	0.0735897	0.0624431	5.846E-06	1.156E-05	1.156E-05	1.295E-05	0.0624012
456	7.066E-06	1.397E-05	1.397E-05	1.565E-05	0.0754165	0.0646603	6.054E-06	1.197E-05	1.197E-05	1.341E-05	0.0646168
457	7.178E-06	1.42E-05	1.42E-05	1.59E-05	0.0766156	0.0662746	6.205E-06	1.227E-05	1.227E-05	1.374E-05	0.0662301
458	7.216E-06	1.427E-05	1.427E-05	1.598E-05	0.0770223	0.0671563	6.288E-06	1.243E-05	1.243E-05	1.393E-05	0.0671112
459	8.187E-06	1.619E-05	1.619E-05	1.813E-05	0.0873868	0.0746463	6.989E-06	1.382E-05	1.382E-05	1.548E-05	0.0745961
460	8.429E-06	1.667E-05	1.667E-05	1.867E-05	0.0899609	0.0777683	7.281E-06	1.44E-05	1.44E-05	1.613E-05	0.0777161
461	8.573E-06	1.696E-05	1.696E-05	1.899E-05	0.0915077	0.0798776	7.479E-06	1.479E-05	1.479E-05	1.657E-05	0.079824
462	4.347E-06	8.597E-06	8.597E-06	9.629E-06	0.0463993	0.0272695	2.553E-06	5.049E-06	5.049E-06	5.655E-06	0.0272512
463	4.998E-06	9.885E-06	9.885E-06	1.107E-05	0.053348	0.0310557	2.908E-06	5.75E-06	5.75E-06	6.44E-06	0.0310349
464	4.354E-06	8.611E-06	8.611E-06	9.644E-06	0.0464711	0.0262635	2.459E-06	4.863E-06	4.863E-06	5.447E-06	0.0262459
465	5.066E-06	1.002E-05	1.002E-05	1.122E-05	0.0540736	0.0298226	2.792E-06	5.522E-06	5.522E-06	6.185E-06	0.0298026
466	5.965E-06	1.18E-05	1.18E-05	1.321E-05	0.0636671	0.0343296	3.214E-06	6.357E-06	6.357E-06	7.119E-06	0.0343066
467	7.117E-06	1.407E-05	1.407E-05	1.576E-05	0.0759623	0.0402304	3.767E-06	7.449E-06	7.449E-06	8.343E-06	0.0402034
468	4.28E-06	8.464E-06	8.464E-06	9.48E-06	0.0456806	0.0251952	2.359E-06	4.665E-06	4.665E-06	5.225E-06	0.0251783
469	5.034E-06	9.955E-06	9.955E-06	1.115E-05	0.0537246	0.0285016	2.669E-06	5.277E-06	5.277E-06	5.911E-06	0.0284825
470	6.027E-06	1.192E-05	1.192E-05	1.335E-05	0.0643281	0.0326622	3.058E-06	6.048E-06	6.048E-06	6.774E-06	0.0326403
471	7.394E-06	1.462E-05	1.462E-05	1.638E-05	0.0789199	0.0381663	3.573E-06	7.067E-06	7.067E-06	7.915E-06	0.0381406
472	4.889E-06	9.669E-06	9.669E-06	1.083E-05	0.0521818	0.0272239	2.549E-06	5.041E-06	5.041E-06	5.646E-06	0.0272056
473	5.923E-06	1.171E-05	1.171E-05	1.312E-05	0.0632199	0.0310614	2.908E-06	5.751E-06	5.751E-06	6.442E-06	0.0310406
474	7.393E-06	1.462E-05	1.462E-05	1.638E-05	0.078913	0.0359353	3.365E-06	6.654E-06	6.654E-06	7.452E-06	0.0359112
475	4.627E-06	9.152E-06	9.152E-06	1.025E-05	0.0493909	0.0258923	2.424E-06	4.794E-06	4.794E-06	5.37E-06	0.0258749
476	5.6E-06	1.108E-05	1.108E-05	1.24E-05	0.0597751	0.0293931	2.752E-06	5.443E-06	5.443E-06	6.096E-06	0.0293734
477	7.031E-06	1.391E-05	1.391E-05	1.557E-05	0.0750473	0.0338127	3.166E-06	6.261E-06	6.261E-06	7.012E-06	0.03379

Mitigated School Health Risk Assessment

4. Non-Cancer Risk Summary

Mt. Etna Community Plan Amendment and Rezone Project

Mitigated School - Construction Non-Cancer Risk Summary

471	Receptor
0.0012	Max

Receptor #	X	Y	HI	Demolition	Site Prep	Grading	Trenching	Foundation	BC	AC	Paving
451	482941	3630879	0.0007992	5.817E-05	6.522E-05	4.189E-05	3.397E-05	1.359E-05	0.0007554	4.887E-06	3.888E-05
452	482991	3630879	0.0008108	5.837E-05	6.544E-05	4.204E-05	3.408E-05	1.364E-05	0.0007669	4.903E-06	3.9E-05
453	483041	3630879	0.0008171	5.871E-05	6.583E-05	4.229E-05	3.428E-05	1.373E-05	0.000773	4.931E-06	3.923E-05
454	483091	3630879	0.0008174	5.879E-05	6.592E-05	4.235E-05	3.433E-05	1.374E-05	0.0007732	4.938E-06	3.928E-05
455	482941	3630929	0.0009428	7.093E-05	7.954E-05	5.107E-05	4.145E-05	1.655E-05	0.0008894	5.964E-06	4.744E-05
456	482991	3630929	0.0009587	7.146E-05	8.013E-05	5.146E-05	4.175E-05	1.668E-05	0.0009049	6.007E-06	4.778E-05
457	483041	3630929	0.0009665	7.196E-05	8.069E-05	5.182E-05	4.205E-05	1.68E-05	0.0009123	6.049E-06	4.812E-05
458	483091	3630929	0.0009633	7.151E-05	8.018E-05	5.15E-05	4.178E-05	1.669E-05	0.0009095	6.011E-06	4.781E-05
459	482941	3630979	0.0011357	8.983E-05	0.0001007	6.465E-05	5.255E-05	2.091E-05	0.001068	7.561E-06	6.014E-05
460	482991	3630979	0.0011578	9.024E-05	0.0001012	6.496E-05	5.278E-05	2.102E-05	0.0010898	7.593E-06	6.04E-05
461	483041	3630979	0.0011654	8.991E-05	0.0001008	6.472E-05	5.257E-05	2.095E-05	0.0010977	7.563E-06	6.016E-05
462	482391	3631229	0.0006551	0.0001022	0.0001147	7.325E-05	6.038E-05	2.331E-05	0.0005773	8.687E-06	6.91E-05
463	482441	3631229	0.0007656	0.0001261	0.0001415	9.036E-05	7.454E-05	2.872E-05	0.0006696	1.072E-05	8.531E-05
464	482391	3631279	0.0006539	0.0001034	0.000116	7.41E-05	6.109E-05	2.357E-05	0.0005752	8.789E-06	6.991E-05
465	482441	3631279	0.0007738	0.0001306	0.0001466	9.355E-05	7.72E-05	2.973E-05	0.0006743	1.111E-05	8.834E-05
466	482491	3631279	0.0009318	0.00017	0.0001908	0.0001218	0.0001006	3.865E-05	0.0008022	1.447E-05	0.0001151
467	482541	3631279	0.0011467	0.0002299	0.0002582	0.0001647	0.0001362	5.219E-05	0.0009713	1.959E-05	0.0001558
468	482391	3631329	0.0006386	0.0001001	0.0001124	7.176E-05	5.916E-05	2.283E-05	0.0005624	8.511E-06	6.77E-05
469	482441	3631329	0.0007625	0.0001279	0.0001436	9.166E-05	7.563E-05	2.913E-05	0.0006651	1.088E-05	8.655E-05
470	482491	3631329	0.000932	0.0001699	0.0001907	0.0001217	0.0001005	3.863E-05	0.0008025	1.446E-05	0.000115
471	482541	3631329	0.001178	0.0002387	0.000268	0.0001709	0.0001414	5.417E-05	0.0009959	2.034E-05	0.0001618
472	482441	3631379	0.0007335	0.00012	0.0001347	8.598E-05	7.092E-05	2.733E-05	0.0006421	1.02E-05	8.116E-05
473	482491	3631379	0.0009036	0.00016	0.0001796	0.0001146	9.466E-05	3.64E-05	0.0007816	1.362E-05	0.0001083
474	482541	3631379	0.001154	0.0002258	0.0002535	0.0001617	0.0001337	5.126E-05	0.0009818	1.923E-05	0.000153
475	482441	3631429	0.000688	0.0001087	0.000122	7.791E-05	6.423E-05	2.478E-05	0.0006052	9.241E-06	7.351E-05
476	482491	3631429	0.000844	0.0001435	0.0001611	0.0001028	8.484E-05	3.266E-05	0.0007347	1.221E-05	9.709E-05
477	482541	3631429	0.0010777	0.0002001	0.0002246	0.0001433	0.0001184	4.548E-05	0.0009251	1.704E-05	0.0001355

Mitigated School Health Risk Assessment

5. Risk by Construction Phase

a. Risk

5. Risk by Construction Phase

‹ From Demolition - Mitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Demolition - Mitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	6.5E-04	6.1E-04	1.7E-07	4.7E-02	4.2E-02	3.4E-10	5.8E-05	2.9E-04
452	4.4E-01	6.5E-04	6.1E-04	1.7E-07	4.7E-02	4.2E-02	3.4E-10	5.8E-05	2.9E-04
453	4.4E-01	6.5E-04	6.1E-04	1.7E-07	4.7E-02	4.2E-02	3.5E-10	5.9E-05	2.9E-04
454	4.5E-01	6.5E-04	6.1E-04	1.7E-07	4.7E-02	4.2E-02	3.5E-10	5.9E-05	2.9E-04
455	5.4E-01	6.5E-04	6.1E-04	2.1E-07	4.7E-02	4.2E-02	4.2E-10	7.1E-05	3.5E-04
456	5.4E-01	6.5E-04	6.1E-04	2.1E-07	4.7E-02	4.2E-02	4.2E-10	7.1E-05	3.6E-04
457	5.5E-01	6.5E-04	6.1E-04	2.1E-07	4.7E-02	4.2E-02	4.2E-10	7.2E-05	3.6E-04
458	5.4E-01	6.5E-04	6.1E-04	2.1E-07	4.7E-02	4.2E-02	4.2E-10	7.2E-05	3.6E-04
459	6.8E-01	6.5E-04	6.1E-04	2.7E-07	4.7E-02	4.2E-02	5.3E-10	9.0E-05	4.5E-04
460	6.8E-01	6.5E-04	6.1E-04	2.7E-07	4.7E-02	4.2E-02	5.3E-10	9.0E-05	4.5E-04
461	6.8E-01	6.5E-04	6.1E-04	2.7E-07	4.7E-02	4.2E-02	5.3E-10	9.0E-05	4.5E-04
462	7.8E-01	6.5E-04	6.1E-04	3.1E-07	4.7E-02	4.2E-02	6.1E-10	1.0E-04	5.1E-04
463	9.7E-01	6.5E-04	6.1E-04	3.8E-07	4.7E-02	4.2E-02	7.5E-10	1.3E-04	6.3E-04
464	7.9E-01	6.5E-04	6.1E-04	3.1E-07	4.7E-02	4.2E-02	6.2E-10	1.0E-04	5.2E-04
465	1.0E+00	6.5E-04	6.1E-04	3.9E-07	4.7E-02	4.2E-02	7.8E-10	1.3E-04	6.5E-04
466	1.3E+00	6.5E-04	6.1E-04	5.1E-07	4.7E-02	4.2E-02	1.0E-09	1.7E-04	8.5E-04
467	1.8E+00	6.5E-04	6.1E-04	6.9E-07	4.7E-02	4.2E-02	1.4E-09	2.3E-04	1.1E-03
468	7.7E-01	6.5E-04	6.1E-04	3.0E-07	4.7E-02	4.2E-02	6.0E-10	1.0E-04	5.0E-04
469	9.8E-01	6.5E-04	6.1E-04	3.8E-07	4.7E-02	4.2E-02	7.6E-10	1.3E-04	6.4E-04
470	1.3E+00	6.5E-04	6.1E-04	5.1E-07	4.7E-02	4.2E-02	1.0E-09	1.7E-04	8.5E-04
471	1.8E+00	6.5E-04	6.1E-04	7.2E-07	4.7E-02	4.2E-02	1.4E-09	2.4E-04	1.2E-03
472	9.2E-01	6.5E-04	6.1E-04	3.6E-07	4.7E-02	4.2E-02	7.2E-10	1.2E-04	6.0E-04
473	1.2E+00	6.5E-04	6.1E-04	4.8E-07	4.7E-02	4.2E-02	9.5E-10	1.6E-04	8.0E-04
474	1.7E+00	6.5E-04	6.1E-04	6.8E-07	4.7E-02	4.2E-02	1.3E-09	2.3E-04	1.1E-03
475	8.3E-01	6.5E-04	6.1E-04	3.3E-07	4.7E-02	4.2E-02	6.5E-10	1.1E-04	5.4E-04
476	1.1E+00	6.5E-04	6.1E-04	4.3E-07	4.7E-02	4.2E-02	8.6E-10	1.4E-04	7.2E-04
477	1.5E+00	6.5E-04	6.1E-04	6.0E-07	4.7E-02	4.2E-02	1.2E-09	2.0E-04	1.0E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated School

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	3.8E+00	1.2E-07	6.1E-04	2.8E-10	4.7E-02	4.2E-02	5.6E-13	5.1E+00	2.3E-07	6.1E-04	6.9E-10	4.7E-02	4.2E-02	1.4E-12
452	3.6E+00	1.2E-07	6.1E-04	2.7E-10	4.7E-02	4.2E-02	5.4E-13	5.0E+00	2.3E-07	6.1E-04	6.8E-10	4.7E-02	4.2E-02	1.3E-12
453	3.5E+00	1.2E-07	6.1E-04	2.6E-10	4.7E-02	4.2E-02	5.2E-13	4.8E+00	2.3E-07	6.1E-04	6.6E-10	4.7E-02	4.2E-02	1.3E-12
454	3.3E+00	1.2E-07	6.1E-04	2.5E-10	4.7E-02	4.2E-02	5.0E-13	4.6E+00	2.3E-07	6.1E-04	6.3E-10	4.7E-02	4.2E-02	1.3E-12
455	4.3E+00	1.2E-07	6.1E-04	3.3E-10	4.7E-02	4.2E-02	6.5E-13	6.0E+00	2.3E-07	6.1E-04	8.3E-10	4.7E-02	4.2E-02	1.6E-12
456	4.2E+00	1.2E-07	6.1E-04	3.1E-10	4.7E-02	4.2E-02	6.2E-13	5.9E+00	2.3E-07	6.1E-04	8.1E-10	4.7E-02	4.2E-02	1.6E-12
457	4.0E+00	1.2E-07	6.1E-04	3.0E-10	4.7E-02	4.2E-02	6.0E-13	5.7E+00	2.3E-07	6.1E-04	7.8E-10	4.7E-02	4.2E-02	1.6E-12
458	3.8E+00	1.2E-07	6.1E-04	2.8E-10	4.7E-02	4.2E-02	5.6E-13	5.4E+00	2.3E-07	6.1E-04	7.4E-10	4.7E-02	4.2E-02	1.5E-12
459	5.1E+00	1.2E-07	6.1E-04	3.8E-10	4.7E-02	4.2E-02	7.6E-13	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	4.2E-02	2.0E-12
460	4.8E+00	1.2E-07	6.1E-04	3.6E-10	4.7E-02	4.2E-02	7.2E-13	7.2E+00	2.3E-07	6.1E-04	9.9E-10	4.7E-02	4.2E-02	2.0E-12
461	4.6E+00	1.2E-07	6.1E-04	3.4E-10	4.7E-02	4.2E-02	6.8E-13	6.9E+00	2.3E-07	6.1E-04	9.5E-10	4.7E-02	4.2E-02	1.9E-12
462	7.6E+00	1.2E-07	6.1E-04	5.7E-10	4.7E-02	4.2E-02	1.1E-12	5.2E+00	2.3E-07	6.1E-04	7.1E-10	4.7E-02	4.2E-02	1.4E-12
463	8.8E+00	1.2E-07	6.1E-04	6.6E-10	4.7E-02	4.2E-02	1.3E-12	6.1E+00	2.3E-07	6.1E-04	8.4E-10	4.7E-02	4.2E-02	1.7E-12
464	8.1E+00	1.2E-07	6.1E-04	6.1E-10	4.7E-02	4.2E-02	1.2E-12	5.2E+00	2.3E-07	6.1E-04	7.1E-10	4.7E-02	4.2E-02	1.4E-12
465	9.8E+00	1.2E-07	6.1E-04	7.4E-10	4.7E-02	4.2E-02	1.5E-12	6.1E+00	2.3E-07	6.1E-04	8.4E-10	4.7E-02	4.2E-02	1.7E-12
466	1.2E+01	1.2E-07	6.1E-04	9.0E-10	4.7E-02	4.2E-02	1.8E-12	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	4.2E-02	2.0E-12
467	1.5E+01	1.2E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.2E-12	9.0E+00	2.3E-07	6.1E-04	1.2E-09	4.7E-02	4.2E-02	2.5E-12
468	8.3E+00	1.2E-07	6.1E-04	6.3E-10	4.7E-02	4.2E-02	1.2E-12	5.0E+00	2.3E-07	6.1E-04	6.9E-10	4.7E-02	4.2E-02	1.4E-12
469	1.0E+01	1.2E-07	6.1E-04	7.8E-10	4.7E-02	4.2E-02	1.5E-12	6.0E+00	2.3E-07	6.1E-04	8.2E-10	4.7E-02	4.2E-02	1.6E-12
470	1.3E+01	1.2E-07	6.1E-04	9.9E-10	4.7E-02	4.2E-02	2.0E-12	7.2E+00	2.3E-07	6.1E-04	9.9E-10	4.7E-02	4.2E-02	2.0E-12
471	1.7E+01	1.2E-07	6.1E-04	1.3E-09	4.7E-02	4.2E-02	2.6E-12	9.0E+00	2.3E-07	6.1E-04	1.2E-09	4.7E-02	4.2E-02	2.5E-12
472	1.0E+01	1.2E-07	6.1E-04	7.8E-10	4.7E-02	4.2E-02	1.5E-12	5.7E+00	2.3E-07	6.1E-04	7.9E-10	4.7E-02	4.2E-02	1.6E-12
473	1.4E+01	1.2E-07	6.1E-04	1.0E-09	4.7E-02	4.2E-02	2.0E-12	7.0E+00	2.3E-07	6.1E-04	9.6E-10	4.7E-02	4.2E-02	1.9E-12
474	1.9E+01	1.2E-07	6.1E-04	1.4E-09	4.7E-02	4.2E-02	2.8E-12	8.7E+00	2.3E-07	6.1E-04	1.2E-09	4.7E-02	4.2E-02	2.4E-12
475	9.7E+00	1.2E-07	6.1E-04	7.3E-10	4.7E-02	4.2E-02	1.4E-12	5.4E+00	2.3E-07	6.1E-04	7.4E-10	4.7E-02	4.2E-02	1.5E-12
476	1.3E+01	1.2E-07	6.1E-04	9.6E-10	4.7E-02	4.2E-02	1.9E-12	6.5E+00	2.3E-07	6.1E-04	9.0E-10	4.7E-02	4.2E-02	1.8E-12
477	1.8E+01	1.2E-07	6.1E-04	1.3E-09	4.7E-02	4.2E-02	2.7E-12	8.1E+00	2.3E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.2E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Demolition - Mitigated School

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
451	6.3E+00	1.3E-07	6.1E-04	5.1E-10	4.7E-02	4.2E-02	1.0E-12	4.4E+00	7.5E-07	6.1E-04	2.0E-09	4.7E-02	4.2E-02	4.0E-12
452	6.2E+00	1.3E-07	6.1E-04	5.0E-10	4.7E-02	4.2E-02	1.0E-12	4.6E+00	7.5E-07	6.1E-04	2.1E-09	4.7E-02	4.2E-02	4.1E-12
453	6.0E+00	1.3E-07	6.1E-04	4.9E-10	4.7E-02	4.2E-02	9.7E-13	4.8E+00	7.5E-07	6.1E-04	2.2E-09	4.7E-02	4.2E-02	4.3E-12
454	5.8E+00	1.3E-07	6.1E-04	4.7E-10	4.7E-02	4.2E-02	9.3E-13	4.9E+00	7.5E-07	6.1E-04	2.2E-09	4.7E-02	4.2E-02	4.4E-12
455	7.8E+00	1.3E-07	6.1E-04	6.3E-10	4.7E-02	4.2E-02	1.2E-12	5.1E+00	7.5E-07	6.1E-04	2.3E-09	4.7E-02	4.2E-02	4.6E-12
456	7.6E+00	1.3E-07	6.1E-04	6.1E-10	4.7E-02	4.2E-02	1.2E-12	5.4E+00	7.5E-07	6.1E-04	2.4E-09	4.7E-02	4.2E-02	4.8E-12
457	7.3E+00	1.3E-07	6.1E-04	5.9E-10	4.7E-02	4.2E-02	1.2E-12	5.6E+00	7.5E-07	6.1E-04	2.5E-09	4.7E-02	4.2E-02	5.0E-12
458	6.9E+00	1.3E-07	6.1E-04	5.6E-10	4.7E-02	4.2E-02	1.1E-12	5.8E+00	7.5E-07	6.1E-04	2.6E-09	4.7E-02	4.2E-02	5.2E-12
459	9.8E+00	1.3E-07	6.1E-04	7.9E-10	4.7E-02	4.2E-02	1.6E-12	6.0E+00	7.5E-07	6.1E-04	2.7E-09	4.7E-02	4.2E-02	5.4E-12
460	9.6E+00	1.3E-07	6.1E-04	7.7E-10	4.7E-02	4.2E-02	1.5E-12	6.4E+00	7.5E-07	6.1E-04	2.9E-09	4.7E-02	4.2E-02	5.7E-12
461	9.1E+00	1.3E-07	6.1E-04	7.4E-10	4.7E-02	4.2E-02	1.5E-12	6.7E+00	7.5E-07	6.1E-04	3.0E-09	4.7E-02	4.2E-02	6.0E-12
462	4.7E+00	1.3E-07	6.1E-04	3.8E-10	4.7E-02	4.2E-02	7.5E-13	2.0E+00	7.5E-07	6.1E-04	9.1E-10	4.7E-02	4.2E-02	1.8E-12
463	5.6E+00	1.3E-07	6.1E-04	4.5E-10	4.7E-02	4.2E-02	8.9E-13	2.2E+00	7.5E-07	6.1E-04	1.0E-09	4.7E-02	4.2E-02	2.0E-12
464	4.5E+00	1.3E-07	6.1E-04	3.6E-10	4.7E-02	4.2E-02	7.2E-13	1.9E+00	7.5E-07	6.1E-04	8.7E-10	4.7E-02	4.2E-02	1.7E-12
465	5.3E+00	1.3E-07	6.1E-04	4.3E-10	4.7E-02	4.2E-02	8.5E-13	2.2E+00	7.5E-07	6.1E-04	9.8E-10	4.7E-02	4.2E-02	1.9E-12
466	6.4E+00	1.3E-07	6.1E-04	5.2E-10	4.7E-02	4.2E-02	1.0E-12	2.4E+00	7.5E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.2E-12
467	7.9E+00	1.3E-07	6.1E-04	6.4E-10	4.7E-02	4.2E-02	1.3E-12	2.8E+00	7.5E-07	6.1E-04	1.3E-09	4.7E-02	4.2E-02	2.5E-12
468	4.3E+00	1.3E-07	6.1E-04	3.5E-10	4.7E-02	4.2E-02	6.9E-13	1.9E+00	7.5E-07	6.1E-04	8.4E-10	4.7E-02	4.2E-02	1.7E-12
469	5.0E+00	1.3E-07	6.1E-04	4.1E-10	4.7E-02	4.2E-02	8.1E-13	2.1E+00	7.5E-07	6.1E-04	9.4E-10	4.7E-02	4.2E-02	1.9E-12
470	6.1E+00	1.3E-07	6.1E-04	4.9E-10	4.7E-02	4.2E-02	9.7E-13	2.3E+00	7.5E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.1E-12
471	7.5E+00	1.3E-07	6.1E-04	6.0E-10	4.7E-02	4.2E-02	1.2E-12	2.6E+00	7.5E-07	6.1E-04	1.2E-09	4.7E-02	4.2E-02	2.4E-12
472	4.8E+00	1.3E-07	6.1E-04	3.8E-10	4.7E-02	4.2E-02	7.6E-13	2.0E+00	7.5E-07	6.1E-04	9.0E-10	4.7E-02	4.2E-02	1.8E-12
473	5.7E+00	1.3E-07	6.1E-04	4.6E-10	4.7E-02	4.2E-02	9.1E-13	2.2E+00	7.5E-07	6.1E-04	1.0E-09	4.7E-02	4.2E-02	2.0E-12
474	6.9E+00	1.3E-07	6.1E-04	5.6E-10	4.7E-02	4.2E-02	1.1E-12	2.5E+00	7.5E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.3E-12
475	4.4E+00	1.3E-07	6.1E-04	3.6E-10	4.7E-02	4.2E-02	7.1E-13	1.9E+00	7.5E-07	6.1E-04	8.6E-10	4.7E-02	4.2E-02	1.7E-12
476	5.3E+00	1.3E-07	6.1E-04	4.3E-10	4.7E-02	4.2E-02	8.5E-13	2.1E+00	7.5E-07	6.1E-04	9.6E-10	4.7E-02	4.2E-02	1.9E-12
477	6.4E+00	1.3E-07	6.1E-04	5.2E-10	4.7E-02	4.2E-02	1.0E-12	2.4E+00	7.5E-07	6.1E-04	1.1E-09	4.7E-02	4.2E-02	2.1E-12

5. Risk by Construction Phase

b. Risk From Site Prep - Mitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Site Prep - Mitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	7.3E-04	6.1E-04	1.9E-07	4.7E-02	8.2E-02	7.5E-10	6.5E-05	3.3E-04
452	4.4E-01	7.3E-04	6.1E-04	1.9E-07	4.7E-02	8.2E-02	7.5E-10	6.5E-05	3.3E-04
453	4.4E-01	7.3E-04	6.1E-04	2.0E-07	4.7E-02	8.2E-02	7.6E-10	6.6E-05	3.3E-04
454	4.5E-01	7.3E-04	6.1E-04	2.0E-07	4.7E-02	8.2E-02	7.6E-10	6.6E-05	3.3E-04
455	5.4E-01	7.3E-04	6.1E-04	2.4E-07	4.7E-02	8.2E-02	9.2E-10	8.0E-05	4.0E-04
456	5.4E-01	7.3E-04	6.1E-04	2.4E-07	4.7E-02	8.2E-02	9.2E-10	8.0E-05	4.0E-04
457	5.5E-01	7.3E-04	6.1E-04	2.4E-07	4.7E-02	8.2E-02	9.3E-10	8.1E-05	4.0E-04
458	5.4E-01	7.3E-04	6.1E-04	2.4E-07	4.7E-02	8.2E-02	9.2E-10	8.0E-05	4.0E-04
459	6.8E-01	7.3E-04	6.1E-04	3.0E-07	4.7E-02	8.2E-02	1.2E-09	1.0E-04	5.0E-04
460	6.8E-01	7.3E-04	6.1E-04	3.0E-07	4.7E-02	8.2E-02	1.2E-09	1.0E-04	5.1E-04
461	6.8E-01	7.3E-04	6.1E-04	3.0E-07	4.7E-02	8.2E-02	1.2E-09	1.0E-04	5.0E-04
462	7.8E-01	7.3E-04	6.1E-04	3.4E-07	4.7E-02	8.2E-02	1.3E-09	1.1E-04	5.7E-04
463	9.7E-01	7.3E-04	6.1E-04	4.3E-07	4.7E-02	8.2E-02	1.6E-09	1.4E-04	7.1E-04
464	7.9E-01	7.3E-04	6.1E-04	3.5E-07	4.7E-02	8.2E-02	1.4E-09	1.2E-04	5.8E-04
465	1.0E+00	7.3E-04	6.1E-04	4.4E-07	4.7E-02	8.2E-02	1.7E-09	1.5E-04	7.3E-04
466	1.3E+00	7.3E-04	6.1E-04	5.7E-07	4.7E-02	8.2E-02	2.2E-09	1.9E-04	9.5E-04
467	1.8E+00	7.3E-04	6.1E-04	7.8E-07	4.7E-02	8.2E-02	3.0E-09	2.6E-04	1.3E-03
468	7.7E-01	7.3E-04	6.1E-04	3.4E-07	4.7E-02	8.2E-02	1.3E-09	1.1E-04	5.6E-04
469	9.8E-01	7.3E-04	6.1E-04	4.3E-07	4.7E-02	8.2E-02	1.7E-09	1.4E-04	7.2E-04
470	1.3E+00	7.3E-04	6.1E-04	5.7E-07	4.7E-02	8.2E-02	2.2E-09	1.9E-04	9.5E-04
471	1.8E+00	7.3E-04	6.1E-04	8.1E-07	4.7E-02	8.2E-02	3.1E-09	2.7E-04	1.3E-03
472	9.2E-01	7.3E-04	6.1E-04	4.0E-07	4.7E-02	8.2E-02	1.6E-09	1.3E-04	6.7E-04
473	1.2E+00	7.3E-04	6.1E-04	5.4E-07	4.7E-02	8.2E-02	2.1E-09	1.8E-04	9.0E-04
474	1.7E+00	7.3E-04	6.1E-04	7.6E-07	4.7E-02	8.2E-02	3.0E-09	2.5E-04	1.3E-03
475	8.3E-01	7.3E-04	6.1E-04	3.7E-07	4.7E-02	8.2E-02	1.4E-09	1.2E-04	6.1E-04
476	1.1E+00	7.3E-04	6.1E-04	4.8E-07	4.7E-02	8.2E-02	1.9E-09	1.6E-04	8.1E-04
477	1.5E+00	7.3E-04	6.1E-04	6.8E-07	4.7E-02	8.2E-02	2.6E-09	2.2E-04	1.1E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated School

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	3.8E+00	1.3E-07	6.1E-04	2.9E-10	4.7E-02	8.2E-02	1.1E-12	5.1E+00	2.3E-07	6.1E-04	7.0E-10	4.7E-02	8.2E-02	2.7E-12
452	3.6E+00	1.3E-07	6.1E-04	2.8E-10	4.7E-02	8.2E-02	1.1E-12	5.0E+00	2.3E-07	6.1E-04	6.9E-10	4.7E-02	8.2E-02	2.7E-12
453	3.5E+00	1.3E-07	6.1E-04	2.7E-10	4.7E-02	8.2E-02	1.0E-12	4.8E+00	2.3E-07	6.1E-04	6.7E-10	4.7E-02	8.2E-02	2.6E-12
454	3.3E+00	1.3E-07	6.1E-04	2.5E-10	4.7E-02	8.2E-02	9.8E-13	4.6E+00	2.3E-07	6.1E-04	6.4E-10	4.7E-02	8.2E-02	2.5E-12
455	4.3E+00	1.3E-07	6.1E-04	3.3E-10	4.7E-02	8.2E-02	1.3E-12	6.0E+00	2.3E-07	6.1E-04	8.4E-10	4.7E-02	8.2E-02	3.3E-12
456	4.2E+00	1.3E-07	6.1E-04	3.2E-10	4.7E-02	8.2E-02	1.2E-12	5.9E+00	2.3E-07	6.1E-04	8.2E-10	4.7E-02	8.2E-02	3.2E-12
457	4.0E+00	1.3E-07	6.1E-04	3.0E-10	4.7E-02	8.2E-02	1.2E-12	5.7E+00	2.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12
458	3.8E+00	1.3E-07	6.1E-04	2.9E-10	4.7E-02	8.2E-02	1.1E-12	5.4E+00	2.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12
459	5.1E+00	1.3E-07	6.1E-04	3.9E-10	4.7E-02	8.2E-02	1.5E-12	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
460	4.8E+00	1.3E-07	6.1E-04	3.7E-10	4.7E-02	8.2E-02	1.4E-12	7.2E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
461	4.6E+00	1.3E-07	6.1E-04	3.5E-10	4.7E-02	8.2E-02	1.4E-12	6.9E+00	2.3E-07	6.1E-04	9.6E-10	4.7E-02	8.2E-02	3.7E-12
462	7.6E+00	1.3E-07	6.1E-04	5.8E-10	4.7E-02	8.2E-02	2.2E-12	5.2E+00	2.3E-07	6.1E-04	7.2E-10	4.7E-02	8.2E-02	2.8E-12
463	8.8E+00	1.3E-07	6.1E-04	6.7E-10	4.7E-02	8.2E-02	2.6E-12	6.1E+00	2.3E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
464	8.1E+00	1.3E-07	6.1E-04	6.2E-10	4.7E-02	8.2E-02	2.4E-12	5.2E+00	2.3E-07	6.1E-04	7.2E-10	4.7E-02	8.2E-02	2.8E-12
465	9.8E+00	1.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12	6.1E+00	2.3E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
466	1.2E+01	1.3E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
467	1.5E+01	1.3E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.3E-12	9.0E+00	2.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
468	8.3E+00	1.3E-07	6.1E-04	6.3E-10	4.7E-02	8.2E-02	2.5E-12	5.0E+00	2.3E-07	6.1E-04	7.0E-10	4.7E-02	8.2E-02	2.7E-12
469	1.0E+01	1.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12	6.0E+00	2.3E-07	6.1E-04	8.3E-10	4.7E-02	8.2E-02	3.2E-12
470	1.3E+01	1.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12	7.2E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
471	1.7E+01	1.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	5.1E-12	9.0E+00	2.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
472	1.0E+01	1.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12	5.7E+00	2.3E-07	6.1E-04	8.0E-10	4.7E-02	8.2E-02	3.1E-12
473	1.4E+01	1.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12	7.0E+00	2.3E-07	6.1E-04	9.7E-10	4.7E-02	8.2E-02	3.8E-12
474	1.9E+01	1.3E-07	6.1E-04	1.4E-09	4.7E-02	8.2E-02	5.5E-12	8.7E+00	2.3E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.7E-12
475	9.7E+00	1.3E-07	6.1E-04	7.4E-10	4.7E-02	8.2E-02	2.9E-12	5.4E+00	2.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12
476	1.3E+01	1.3E-07	6.1E-04	9.8E-10	4.7E-02	8.2E-02	3.8E-12	6.5E+00	2.3E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12
477	1.8E+01	1.3E-07	6.1E-04	1.4E-09	4.7E-02	8.2E-02	5.3E-12	8.1E+00	2.3E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.4E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Site Prep - Mitigated School

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
451	6.3E+00	1.4E-07	6.1E-04	5.2E-10	4.7E-02	8.2E-02	2.0E-12	4.4E+00	7.6E-07	6.1E-04	2.0E-09	4.7E-02	8.2E-02	7.8E-12
452	6.2E+00	1.4E-07	6.1E-04	5.1E-10	4.7E-02	8.2E-02	2.0E-12	4.6E+00	7.6E-07	6.1E-04	2.1E-09	4.7E-02	8.2E-02	8.2E-12
453	6.0E+00	1.4E-07	6.1E-04	4.9E-10	4.7E-02	8.2E-02	1.9E-12	4.8E+00	7.6E-07	6.1E-04	2.2E-09	4.7E-02	8.2E-02	8.5E-12
454	5.8E+00	1.4E-07	6.1E-04	4.7E-10	4.7E-02	8.2E-02	1.8E-12	4.9E+00	7.6E-07	6.1E-04	2.2E-09	4.7E-02	8.2E-02	8.7E-12
455	7.8E+00	1.4E-07	6.1E-04	6.4E-10	4.7E-02	8.2E-02	2.5E-12	5.1E+00	7.6E-07	6.1E-04	2.3E-09	4.7E-02	8.2E-02	9.1E-12
456	7.6E+00	1.4E-07	6.1E-04	6.2E-10	4.7E-02	8.2E-02	2.4E-12	5.4E+00	7.6E-07	6.1E-04	2.5E-09	4.7E-02	8.2E-02	9.6E-12
457	7.3E+00	1.4E-07	6.1E-04	6.0E-10	4.7E-02	8.2E-02	2.3E-12	5.6E+00	7.6E-07	6.1E-04	2.6E-09	4.7E-02	8.2E-02	9.9E-12
458	6.9E+00	1.4E-07	6.1E-04	5.7E-10	4.7E-02	8.2E-02	2.2E-12	5.8E+00	7.6E-07	6.1E-04	2.6E-09	4.7E-02	8.2E-02	1.0E-11
459	9.8E+00	1.4E-07	6.1E-04	8.0E-10	4.7E-02	8.2E-02	3.1E-12	6.0E+00	7.6E-07	6.1E-04	2.8E-09	4.7E-02	8.2E-02	1.1E-11
460	9.6E+00	1.4E-07	6.1E-04	7.8E-10	4.7E-02	8.2E-02	3.0E-12	6.4E+00	7.6E-07	6.1E-04	2.9E-09	4.7E-02	8.2E-02	1.1E-11
461	9.1E+00	1.4E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12	6.7E+00	7.6E-07	6.1E-04	3.1E-09	4.7E-02	8.2E-02	1.2E-11
462	4.7E+00	1.4E-07	6.1E-04	3.8E-10	4.7E-02	8.2E-02	1.5E-12	2.0E+00	7.6E-07	6.1E-04	9.2E-10	4.7E-02	8.2E-02	3.6E-12
463	5.6E+00	1.4E-07	6.1E-04	4.6E-10	4.7E-02	8.2E-02	1.8E-12	2.2E+00	7.6E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
464	4.5E+00	1.4E-07	6.1E-04	3.7E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.9E-10	4.7E-02	8.2E-02	3.4E-12
465	5.3E+00	1.4E-07	6.1E-04	4.4E-10	4.7E-02	8.2E-02	1.7E-12	2.2E+00	7.6E-07	6.1E-04	9.9E-10	4.7E-02	8.2E-02	3.8E-12
466	6.4E+00	1.4E-07	6.1E-04	5.3E-10	4.7E-02	8.2E-02	2.0E-12	2.4E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.3E-12
467	7.9E+00	1.4E-07	6.1E-04	6.5E-10	4.7E-02	8.2E-02	2.5E-12	2.8E+00	7.6E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
468	4.3E+00	1.4E-07	6.1E-04	3.5E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
469	5.0E+00	1.4E-07	6.1E-04	4.1E-10	4.7E-02	8.2E-02	1.6E-12	2.1E+00	7.6E-07	6.1E-04	9.5E-10	4.7E-02	8.2E-02	3.7E-12
470	6.1E+00	1.4E-07	6.1E-04	5.0E-10	4.7E-02	8.2E-02	1.9E-12	2.3E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.1E-12
471	7.5E+00	1.4E-07	6.1E-04	6.1E-10	4.7E-02	8.2E-02	2.4E-12	2.6E+00	7.6E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.7E-12
472	4.8E+00	1.4E-07	6.1E-04	3.9E-10	4.7E-02	8.2E-02	1.5E-12	2.0E+00	7.6E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12
473	5.7E+00	1.4E-07	6.1E-04	4.7E-10	4.7E-02	8.2E-02	1.8E-12	2.2E+00	7.6E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
474	6.9E+00	1.4E-07	6.1E-04	5.7E-10	4.7E-02	8.2E-02	2.2E-12	2.5E+00	7.6E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.5E-12
475	4.4E+00	1.4E-07	6.1E-04	3.6E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.7E-10	4.7E-02	8.2E-02	3.4E-12
476	5.3E+00	1.4E-07	6.1E-04	4.3E-10	4.7E-02	8.2E-02	1.7E-12	2.1E+00	7.6E-07	6.1E-04	9.7E-10	4.7E-02	8.2E-02	3.8E-12
477	6.4E+00	1.4E-07	6.1E-04	5.2E-10	4.7E-02	8.2E-02	2.0E-12	2.4E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.2E-12

5. Risk by Construction Phase

c. Risk From Grading - Mitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	4.6E-04	6.1E-04	1.2E-07	4.7E-02	8.2E-02	4.8E-10	4.2E-05	2.1E-04
452	4.4E-01	4.6E-04	6.1E-04	1.2E-07	4.7E-02	8.2E-02	4.8E-10	4.2E-05	2.1E-04
453	4.4E-01	4.6E-04	6.1E-04	1.2E-07	4.7E-02	8.2E-02	4.8E-10	4.2E-05	2.1E-04
454	4.5E-01	4.6E-04	6.1E-04	1.2E-07	4.7E-02	8.2E-02	4.8E-10	4.2E-05	2.1E-04
455	5.4E-01	4.6E-04	6.1E-04	1.5E-07	4.7E-02	8.2E-02	5.8E-10	5.1E-05	2.6E-04
456	5.4E-01	4.6E-04	6.1E-04	1.5E-07	4.7E-02	8.2E-02	5.9E-10	5.1E-05	2.6E-04
457	5.5E-01	4.6E-04	6.1E-04	1.5E-07	4.7E-02	8.2E-02	5.9E-10	5.2E-05	2.6E-04
458	5.4E-01	4.6E-04	6.1E-04	1.5E-07	4.7E-02	8.2E-02	5.9E-10	5.1E-05	2.6E-04
459	6.8E-01	4.6E-04	6.1E-04	1.9E-07	4.7E-02	8.2E-02	7.4E-10	6.5E-05	3.2E-04
460	6.8E-01	4.6E-04	6.1E-04	1.9E-07	4.7E-02	8.2E-02	7.4E-10	6.5E-05	3.2E-04
461	6.8E-01	4.6E-04	6.1E-04	1.9E-07	4.7E-02	8.2E-02	7.4E-10	6.5E-05	3.2E-04
462	7.8E-01	4.6E-04	6.1E-04	2.2E-07	4.7E-02	8.2E-02	8.5E-10	7.3E-05	3.7E-04
463	9.7E-01	4.6E-04	6.1E-04	2.7E-07	4.7E-02	8.2E-02	1.0E-09	9.0E-05	4.5E-04
464	7.9E-01	4.6E-04	6.1E-04	2.2E-07	4.7E-02	8.2E-02	8.6E-10	7.4E-05	3.7E-04
465	1.0E+00	4.6E-04	6.1E-04	2.8E-07	4.7E-02	8.2E-02	1.1E-09	9.4E-05	4.7E-04
466	1.3E+00	4.6E-04	6.1E-04	3.6E-07	4.7E-02	8.2E-02	1.4E-09	1.2E-04	6.1E-04
467	1.8E+00	4.6E-04	6.1E-04	4.9E-07	4.7E-02	8.2E-02	1.9E-09	1.6E-04	8.2E-04
468	7.7E-01	4.6E-04	6.1E-04	2.1E-07	4.7E-02	8.2E-02	8.3E-10	7.2E-05	3.6E-04
469	9.8E-01	4.6E-04	6.1E-04	2.7E-07	4.7E-02	8.2E-02	1.1E-09	9.2E-05	4.6E-04
470	1.3E+00	4.6E-04	6.1E-04	3.6E-07	4.7E-02	8.2E-02	1.4E-09	1.2E-04	6.1E-04
471	1.8E+00	4.6E-04	6.1E-04	5.1E-07	4.7E-02	8.2E-02	2.0E-09	1.7E-04	8.5E-04
472	9.2E-01	4.6E-04	6.1E-04	2.6E-07	4.7E-02	8.2E-02	1.0E-09	8.6E-05	4.3E-04
473	1.2E+00	4.6E-04	6.1E-04	3.4E-07	4.7E-02	8.2E-02	1.3E-09	1.1E-04	5.7E-04
474	1.7E+00	4.6E-04	6.1E-04	4.8E-07	4.7E-02	8.2E-02	1.9E-09	1.6E-04	8.1E-04
475	8.3E-01	4.6E-04	6.1E-04	2.3E-07	4.7E-02	8.2E-02	9.0E-10	7.8E-05	3.9E-04
476	1.1E+00	4.6E-04	6.1E-04	3.1E-07	4.7E-02	8.2E-02	1.2E-09	1.0E-04	5.1E-04
477	1.5E+00	4.6E-04	6.1E-04	4.3E-07	4.7E-02	8.2E-02	1.7E-09	1.4E-04	7.2E-04

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Grading - Mitigated School

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	3.8E+00	1.3E-07	6.1E-04	2.9E-10	4.7E-02	8.2E-02	1.1E-12	5.1E+00	2.3E-07	6.1E-04	7.0E-10	4.7E-02	8.2E-02	2.7E-12
452	3.6E+00	1.3E-07	6.1E-04	2.8E-10	4.7E-02	8.2E-02	1.1E-12	5.0E+00	2.3E-07	6.1E-04	6.9E-10	4.7E-02	8.2E-02	2.7E-12
453	3.5E+00	1.3E-07	6.1E-04	2.7E-10	4.7E-02	8.2E-02	1.0E-12	4.8E+00	2.3E-07	6.1E-04	6.7E-10	4.7E-02	8.2E-02	2.6E-12
454	3.3E+00	1.3E-07	6.1E-04	2.5E-10	4.7E-02	8.2E-02	9.8E-13	4.6E+00	2.3E-07	6.1E-04	6.4E-10	4.7E-02	8.2E-02	2.5E-12
455	4.3E+00	1.3E-07	6.1E-04	3.3E-10	4.7E-02	8.2E-02	1.3E-12	6.0E+00	2.3E-07	6.1E-04	8.4E-10	4.7E-02	8.2E-02	3.3E-12
456	4.2E+00	1.3E-07	6.1E-04	3.2E-10	4.7E-02	8.2E-02	1.2E-12	5.9E+00	2.3E-07	6.1E-04	8.2E-10	4.7E-02	8.2E-02	3.2E-12
457	4.0E+00	1.3E-07	6.1E-04	3.0E-10	4.7E-02	8.2E-02	1.2E-12	5.7E+00	2.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12
458	3.8E+00	1.3E-07	6.1E-04	2.9E-10	4.7E-02	8.2E-02	1.1E-12	5.4E+00	2.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12
459	5.1E+00	1.3E-07	6.1E-04	3.9E-10	4.7E-02	8.2E-02	1.5E-12	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
460	4.8E+00	1.3E-07	6.1E-04	3.7E-10	4.7E-02	8.2E-02	1.4E-12	7.2E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
461	4.6E+00	1.3E-07	6.1E-04	3.5E-10	4.7E-02	8.2E-02	1.4E-12	6.9E+00	2.3E-07	6.1E-04	9.6E-10	4.7E-02	8.2E-02	3.7E-12
462	7.6E+00	1.3E-07	6.1E-04	5.8E-10	4.7E-02	8.2E-02	2.2E-12	5.2E+00	2.3E-07	6.1E-04	7.2E-10	4.7E-02	8.2E-02	2.8E-12
463	8.8E+00	1.3E-07	6.1E-04	6.7E-10	4.7E-02	8.2E-02	2.6E-12	6.1E+00	2.3E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
464	8.1E+00	1.3E-07	6.1E-04	6.2E-10	4.7E-02	8.2E-02	2.4E-12	5.2E+00	2.3E-07	6.1E-04	7.2E-10	4.7E-02	8.2E-02	2.8E-12
465	9.8E+00	1.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12	6.1E+00	2.3E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
466	1.2E+01	1.3E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12	7.4E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
467	1.5E+01	1.3E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.3E-12	9.0E+00	2.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
468	8.3E+00	1.3E-07	6.1E-04	6.3E-10	4.7E-02	8.2E-02	2.5E-12	5.0E+00	2.3E-07	6.1E-04	7.0E-10	4.7E-02	8.2E-02	2.7E-12
469	1.0E+01	1.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12	6.0E+00	2.3E-07	6.1E-04	8.3E-10	4.7E-02	8.2E-02	3.2E-12
470	1.3E+01	1.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12	7.2E+00	2.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
471	1.7E+01	1.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	5.1E-12	9.0E+00	2.3E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
472	1.0E+01	1.3E-07	6.1E-04	7.9E-10	4.7E-02	8.2E-02	3.1E-12	5.7E+00	2.3E-07	6.1E-04	8.0E-10	4.7E-02	8.2E-02	3.1E-12
473	1.4E+01	1.3E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12	7.0E+00	2.3E-07	6.1E-04	9.7E-10	4.7E-02	8.2E-02	3.8E-12
474	1.9E+01	1.3E-07	6.1E-04	1.4E-09	4.7E-02	8.2E-02	5.5E-12	8.7E+00	2.3E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.7E-12
475	9.7E+00	1.3E-07	6.1E-04	7.4E-10	4.7E-02	8.2E-02	2.9E-12	5.4E+00	2.3E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12
476	1.3E+01	1.3E-07	6.1E-04	9.8E-10	4.7E-02	8.2E-02	3.8E-12	6.5E+00	2.3E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12
477	1.8E+01	1.3E-07	6.1E-04	1.4E-09	4.7E-02	8.2E-02	5.3E-12	8.1E+00	2.3E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.4E-12

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Grading - Mitigated School

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
451	6.3E+00	1.4E-07	6.1E-04	5.2E-10	4.7E-02	8.2E-02	2.0E-12	4.4E+00	7.6E-07	6.1E-04	2.0E-09	4.7E-02	8.2E-02	7.8E-12
452	6.2E+00	1.4E-07	6.1E-04	5.1E-10	4.7E-02	8.2E-02	2.0E-12	4.6E+00	7.6E-07	6.1E-04	2.1E-09	4.7E-02	8.2E-02	8.2E-12
453	6.0E+00	1.4E-07	6.1E-04	4.9E-10	4.7E-02	8.2E-02	1.9E-12	4.8E+00	7.6E-07	6.1E-04	2.2E-09	4.7E-02	8.2E-02	8.5E-12
454	5.8E+00	1.4E-07	6.1E-04	4.7E-10	4.7E-02	8.2E-02	1.8E-12	4.9E+00	7.6E-07	6.1E-04	2.2E-09	4.7E-02	8.2E-02	8.7E-12
455	7.8E+00	1.4E-07	6.1E-04	6.4E-10	4.7E-02	8.2E-02	2.5E-12	5.1E+00	7.6E-07	6.1E-04	2.3E-09	4.7E-02	8.2E-02	9.1E-12
456	7.6E+00	1.4E-07	6.1E-04	6.2E-10	4.7E-02	8.2E-02	2.4E-12	5.4E+00	7.6E-07	6.1E-04	2.5E-09	4.7E-02	8.2E-02	9.6E-12
457	7.3E+00	1.4E-07	6.1E-04	6.0E-10	4.7E-02	8.2E-02	2.3E-12	5.6E+00	7.6E-07	6.1E-04	2.6E-09	4.7E-02	8.2E-02	9.9E-12
458	6.9E+00	1.4E-07	6.1E-04	5.7E-10	4.7E-02	8.2E-02	2.2E-12	5.8E+00	7.6E-07	6.1E-04	2.6E-09	4.7E-02	8.2E-02	1.0E-11
459	9.8E+00	1.4E-07	6.1E-04	8.0E-10	4.7E-02	8.2E-02	3.1E-12	6.0E+00	7.6E-07	6.1E-04	2.8E-09	4.7E-02	8.2E-02	1.1E-11
460	9.6E+00	1.4E-07	6.1E-04	7.8E-10	4.7E-02	8.2E-02	3.0E-12	6.4E+00	7.6E-07	6.1E-04	2.9E-09	4.7E-02	8.2E-02	1.1E-11
461	9.1E+00	1.4E-07	6.1E-04	7.5E-10	4.7E-02	8.2E-02	2.9E-12	6.7E+00	7.6E-07	6.1E-04	3.1E-09	4.7E-02	8.2E-02	1.2E-11
462	4.7E+00	1.4E-07	6.1E-04	3.8E-10	4.7E-02	8.2E-02	1.5E-12	2.0E+00	7.6E-07	6.1E-04	9.2E-10	4.7E-02	8.2E-02	3.6E-12
463	5.6E+00	1.4E-07	6.1E-04	4.6E-10	4.7E-02	8.2E-02	1.8E-12	2.2E+00	7.6E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	4.0E-12
464	4.5E+00	1.4E-07	6.1E-04	3.7E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.9E-10	4.7E-02	8.2E-02	3.4E-12
465	5.3E+00	1.4E-07	6.1E-04	4.4E-10	4.7E-02	8.2E-02	1.7E-12	2.2E+00	7.6E-07	6.1E-04	9.9E-10	4.7E-02	8.2E-02	3.8E-12
466	6.4E+00	1.4E-07	6.1E-04	5.3E-10	4.7E-02	8.2E-02	2.0E-12	2.4E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.3E-12
467	7.9E+00	1.4E-07	6.1E-04	6.5E-10	4.7E-02	8.2E-02	2.5E-12	2.8E+00	7.6E-07	6.1E-04	1.3E-09	4.7E-02	8.2E-02	4.9E-12
468	4.3E+00	1.4E-07	6.1E-04	3.5E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.5E-10	4.7E-02	8.2E-02	3.3E-12
469	5.0E+00	1.4E-07	6.1E-04	4.1E-10	4.7E-02	8.2E-02	1.6E-12	2.1E+00	7.6E-07	6.1E-04	9.5E-10	4.7E-02	8.2E-02	3.7E-12
470	6.1E+00	1.4E-07	6.1E-04	5.0E-10	4.7E-02	8.2E-02	1.9E-12	2.3E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.1E-12
471	7.5E+00	1.4E-07	6.1E-04	6.1E-10	4.7E-02	8.2E-02	2.4E-12	2.6E+00	7.6E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.7E-12
472	4.8E+00	1.4E-07	6.1E-04	3.9E-10	4.7E-02	8.2E-02	1.5E-12	2.0E+00	7.6E-07	6.1E-04	9.1E-10	4.7E-02	8.2E-02	3.5E-12
473	5.7E+00	1.4E-07	6.1E-04	4.7E-10	4.7E-02	8.2E-02	1.8E-12	2.2E+00	7.6E-07	6.1E-04	1.0E-09	4.7E-02	8.2E-02	3.9E-12
474	6.9E+00	1.4E-07	6.1E-04	5.7E-10	4.7E-02	8.2E-02	2.2E-12	2.5E+00	7.6E-07	6.1E-04	1.2E-09	4.7E-02	8.2E-02	4.5E-12
475	4.4E+00	1.4E-07	6.1E-04	3.6E-10	4.7E-02	8.2E-02	1.4E-12	1.9E+00	7.6E-07	6.1E-04	8.7E-10	4.7E-02	8.2E-02	3.4E-12
476	5.3E+00	1.4E-07	6.1E-04	4.3E-10	4.7E-02	8.2E-02	1.7E-12	2.1E+00	7.6E-07	6.1E-04	9.7E-10	4.7E-02	8.2E-02	3.8E-12
477	6.4E+00	1.4E-07	6.1E-04	5.2E-10	4.7E-02	8.2E-02	2.0E-12	2.4E+00	7.6E-07	6.1E-04	1.1E-09	4.7E-02	8.2E-02	4.2E-12

5. Risk by Construction Phase

d. Risk From Trenching - Mitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Trenching - Mitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	3.9E-04	6.1E-04	1.0E-07	4.7E-02	7.9E-02	3.8E-10	3.4E-05	1.7E-04
452	4.4E-01	3.9E-04	6.1E-04	1.0E-07	4.7E-02	7.9E-02	3.9E-10	3.4E-05	1.7E-04
453	4.4E-01	3.9E-04	6.1E-04	1.0E-07	4.7E-02	7.9E-02	3.9E-10	3.4E-05	1.7E-04
454	4.5E-01	3.9E-04	6.1E-04	1.0E-07	4.7E-02	7.9E-02	3.9E-10	3.4E-05	1.7E-04
455	5.4E-01	3.9E-04	6.1E-04	1.3E-07	4.7E-02	7.9E-02	4.7E-10	4.1E-05	2.1E-04
456	5.4E-01	3.9E-04	6.1E-04	1.3E-07	4.7E-02	7.9E-02	4.7E-10	4.2E-05	2.1E-04
457	5.5E-01	3.9E-04	6.1E-04	1.3E-07	4.7E-02	7.9E-02	4.8E-10	4.2E-05	2.1E-04
458	5.4E-01	3.9E-04	6.1E-04	1.3E-07	4.7E-02	7.9E-02	4.7E-10	4.2E-05	2.1E-04
459	6.8E-01	3.9E-04	6.1E-04	1.6E-07	4.7E-02	7.9E-02	6.0E-10	5.3E-05	2.6E-04
460	6.8E-01	3.9E-04	6.1E-04	1.6E-07	4.7E-02	7.9E-02	6.0E-10	5.3E-05	2.6E-04
461	6.8E-01	3.9E-04	6.1E-04	1.6E-07	4.7E-02	7.9E-02	6.0E-10	5.3E-05	2.6E-04
462	7.8E-01	3.9E-04	6.1E-04	1.8E-07	4.7E-02	7.9E-02	6.8E-10	6.0E-05	3.0E-04
463	9.7E-01	3.9E-04	6.1E-04	2.3E-07	4.7E-02	7.9E-02	8.4E-10	7.5E-05	3.7E-04
464	7.9E-01	3.9E-04	6.1E-04	1.8E-07	4.7E-02	7.9E-02	6.9E-10	6.1E-05	3.1E-04
465	1.0E+00	3.9E-04	6.1E-04	2.3E-07	4.7E-02	7.9E-02	8.7E-10	7.7E-05	3.9E-04
466	1.3E+00	3.9E-04	6.1E-04	3.0E-07	4.7E-02	7.9E-02	1.1E-09	1.0E-04	5.0E-04
467	1.8E+00	3.9E-04	6.1E-04	4.1E-07	4.7E-02	7.9E-02	1.5E-09	1.4E-04	6.8E-04
468	7.7E-01	3.9E-04	6.1E-04	1.8E-07	4.7E-02	7.9E-02	6.7E-10	5.9E-05	3.0E-04
469	9.8E-01	3.9E-04	6.1E-04	2.3E-07	4.7E-02	7.9E-02	8.6E-10	7.6E-05	3.8E-04
470	1.3E+00	3.9E-04	6.1E-04	3.0E-07	4.7E-02	7.9E-02	1.1E-09	1.0E-04	5.0E-04
471	1.8E+00	3.9E-04	6.1E-04	4.3E-07	4.7E-02	7.9E-02	1.6E-09	1.4E-04	7.1E-04
472	9.2E-01	3.9E-04	6.1E-04	2.1E-07	4.7E-02	7.9E-02	8.0E-10	7.1E-05	3.5E-04
473	1.2E+00	3.9E-04	6.1E-04	2.9E-07	4.7E-02	7.9E-02	1.1E-09	9.5E-05	4.7E-04
474	1.7E+00	3.9E-04	6.1E-04	4.0E-07	4.7E-02	7.9E-02	1.5E-09	1.3E-04	6.7E-04
475	8.3E-01	3.9E-04	6.1E-04	1.9E-07	4.7E-02	7.9E-02	7.3E-10	6.4E-05	3.2E-04
476	1.1E+00	3.9E-04	6.1E-04	2.6E-07	4.7E-02	7.9E-02	9.6E-10	8.5E-05	4.2E-04
477	1.5E+00	3.9E-04	6.1E-04	3.6E-07	4.7E-02	7.9E-02	1.3E-09	1.2E-04	5.9E-04

5. Risk by Construction Phase

e. Risk From Foundation - Mitigated School

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	1.4E-04	6.1E-04	3.9E-08	4.7E-02	1.3E-01	2.4E-10	1.4E-05	6.8E-05
452	4.4E-01	1.4E-04	6.1E-04	3.9E-08	4.7E-02	1.3E-01	2.4E-10	1.4E-05	6.8E-05
453	4.4E-01	1.4E-04	6.1E-04	3.9E-08	4.7E-02	1.3E-01	2.4E-10	1.4E-05	6.9E-05
454	4.5E-01	1.4E-04	6.1E-04	3.9E-08	4.7E-02	1.3E-01	2.4E-10	1.4E-05	6.9E-05
455	5.4E-01	1.4E-04	6.1E-04	4.7E-08	4.7E-02	1.3E-01	2.9E-10	1.7E-05	8.3E-05
456	5.4E-01	1.4E-04	6.1E-04	4.7E-08	4.7E-02	1.3E-01	2.9E-10	1.7E-05	8.3E-05
457	5.5E-01	1.4E-04	6.1E-04	4.8E-08	4.7E-02	1.3E-01	3.0E-10	1.7E-05	8.4E-05
458	5.4E-01	1.4E-04	6.1E-04	4.8E-08	4.7E-02	1.3E-01	2.9E-10	1.7E-05	8.3E-05
459	6.8E-01	1.4E-04	6.1E-04	6.0E-08	4.7E-02	1.3E-01	3.7E-10	2.1E-05	1.0E-04
460	6.8E-01	1.4E-04	6.1E-04	6.0E-08	4.7E-02	1.3E-01	3.7E-10	2.1E-05	1.1E-04
461	6.8E-01	1.4E-04	6.1E-04	6.0E-08	4.7E-02	1.3E-01	3.7E-10	2.1E-05	1.0E-04
462	7.8E-01	1.4E-04	6.1E-04	6.9E-08	4.7E-02	1.3E-01	4.3E-10	2.3E-05	1.2E-04
463	9.7E-01	1.4E-04	6.1E-04	8.5E-08	4.7E-02	1.3E-01	5.3E-10	2.9E-05	1.4E-04
464	7.9E-01	1.4E-04	6.1E-04	6.9E-08	4.7E-02	1.3E-01	4.3E-10	2.4E-05	1.2E-04
465	1.0E+00	1.4E-04	6.1E-04	8.8E-08	4.7E-02	1.3E-01	5.4E-10	3.0E-05	1.5E-04
466	1.3E+00	1.4E-04	6.1E-04	1.1E-07	4.7E-02	1.3E-01	7.1E-10	3.9E-05	1.9E-04
467	1.8E+00	1.4E-04	6.1E-04	1.5E-07	4.7E-02	1.3E-01	9.6E-10	5.2E-05	2.6E-04
468	7.7E-01	1.4E-04	6.1E-04	6.7E-08	4.7E-02	1.3E-01	4.2E-10	2.3E-05	1.1E-04
469	9.8E-01	1.4E-04	6.1E-04	8.6E-08	4.7E-02	1.3E-01	5.3E-10	2.9E-05	1.5E-04
470	1.3E+00	1.4E-04	6.1E-04	1.1E-07	4.7E-02	1.3E-01	7.1E-10	3.9E-05	1.9E-04
471	1.8E+00	1.4E-04	6.1E-04	1.6E-07	4.7E-02	1.3E-01	1.0E-09	5.4E-05	2.7E-04
472	9.2E-01	1.4E-04	6.1E-04	8.1E-08	4.7E-02	1.3E-01	5.0E-10	2.7E-05	1.4E-04
473	1.2E+00	1.4E-04	6.1E-04	1.1E-07	4.7E-02	1.3E-01	6.7E-10	3.6E-05	1.8E-04
474	1.7E+00	1.4E-04	6.1E-04	1.5E-07	4.7E-02	1.3E-01	9.4E-10	5.1E-05	2.6E-04
475	8.3E-01	1.4E-04	6.1E-04	7.3E-08	4.7E-02	1.3E-01	4.5E-10	2.5E-05	1.2E-04
476	1.1E+00	1.4E-04	6.1E-04	9.7E-08	4.7E-02	1.3E-01	6.0E-10	3.3E-05	1.6E-04
477	1.5E+00	1.4E-04	6.1E-04	1.3E-07	4.7E-02	1.3E-01	8.4E-10	4.5E-05	2.3E-04

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated School

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	3.8E+00	8.8E-08	6.1E-04	2.0E-10	4.7E-02	1.3E-01	1.2E-12	5.1E+00	1.6E-07	6.1E-04	4.9E-10	4.7E-02	1.3E-01	3.0E-12
452	3.6E+00	8.8E-08	6.1E-04	1.9E-10	4.7E-02	1.3E-01	1.2E-12	5.0E+00	1.6E-07	6.1E-04	4.8E-10	4.7E-02	1.3E-01	3.0E-12
453	3.5E+00	8.8E-08	6.1E-04	1.9E-10	4.7E-02	1.3E-01	1.2E-12	4.8E+00	1.6E-07	6.1E-04	4.7E-10	4.7E-02	1.3E-01	2.9E-12
454	3.3E+00	8.8E-08	6.1E-04	1.8E-10	4.7E-02	1.3E-01	1.1E-12	4.6E+00	1.6E-07	6.1E-04	4.5E-10	4.7E-02	1.3E-01	2.8E-12
455	4.3E+00	8.8E-08	6.1E-04	2.3E-10	4.7E-02	1.3E-01	1.4E-12	6.0E+00	1.6E-07	6.1E-04	5.9E-10	4.7E-02	1.3E-01	3.6E-12
456	4.2E+00	8.8E-08	6.1E-04	2.2E-10	4.7E-02	1.3E-01	1.4E-12	5.9E+00	1.6E-07	6.1E-04	5.7E-10	4.7E-02	1.3E-01	3.6E-12
457	4.0E+00	8.8E-08	6.1E-04	2.1E-10	4.7E-02	1.3E-01	1.3E-12	5.7E+00	1.6E-07	6.1E-04	5.5E-10	4.7E-02	1.3E-01	3.4E-12
458	3.8E+00	8.8E-08	6.1E-04	2.0E-10	4.7E-02	1.3E-01	1.2E-12	5.4E+00	1.6E-07	6.1E-04	5.3E-10	4.7E-02	1.3E-01	3.3E-12
459	5.1E+00	8.8E-08	6.1E-04	2.7E-10	4.7E-02	1.3E-01	1.7E-12	7.4E+00	1.6E-07	6.1E-04	7.2E-10	4.7E-02	1.3E-01	4.5E-12
460	4.8E+00	8.8E-08	6.1E-04	2.6E-10	4.7E-02	1.3E-01	1.6E-12	7.2E+00	1.6E-07	6.1E-04	7.0E-10	4.7E-02	1.3E-01	4.3E-12
461	4.6E+00	8.8E-08	6.1E-04	2.4E-10	4.7E-02	1.3E-01	1.5E-12	6.9E+00	1.6E-07	6.1E-04	6.7E-10	4.7E-02	1.3E-01	4.2E-12
462	7.6E+00	8.8E-08	6.1E-04	4.0E-10	4.7E-02	1.3E-01	2.5E-12	5.2E+00	1.6E-07	6.1E-04	5.1E-10	4.7E-02	1.3E-01	3.1E-12
463	8.8E+00	8.8E-08	6.1E-04	4.7E-10	4.7E-02	1.3E-01	2.9E-12	6.1E+00	1.6E-07	6.1E-04	5.9E-10	4.7E-02	1.3E-01	3.7E-12
464	8.1E+00	8.8E-08	6.1E-04	4.3E-10	4.7E-02	1.3E-01	2.7E-12	5.2E+00	1.6E-07	6.1E-04	5.0E-10	4.7E-02	1.3E-01	3.1E-12
465	9.8E+00	8.8E-08	6.1E-04	5.2E-10	4.7E-02	1.3E-01	3.2E-12	6.1E+00	1.6E-07	6.1E-04	5.9E-10	4.7E-02	1.3E-01	3.7E-12
466	1.2E+01	8.8E-08	6.1E-04	6.4E-10	4.7E-02	1.3E-01	3.9E-12	7.4E+00	1.6E-07	6.1E-04	7.2E-10	4.7E-02	1.3E-01	4.4E-12
467	1.5E+01	8.8E-08	6.1E-04	7.8E-10	4.7E-02	1.3E-01	4.8E-12	9.0E+00	1.6E-07	6.1E-04	8.8E-10	4.7E-02	1.3E-01	5.4E-12
468	8.3E+00	8.8E-08	6.1E-04	4.4E-10	4.7E-02	1.3E-01	2.8E-12	5.0E+00	1.6E-07	6.1E-04	4.9E-10	4.7E-02	1.3E-01	3.0E-12
469	1.0E+01	8.8E-08	6.1E-04	5.5E-10	4.7E-02	1.3E-01	3.4E-12	6.0E+00	1.6E-07	6.1E-04	5.8E-10	4.7E-02	1.3E-01	3.6E-12
470	1.3E+01	8.8E-08	6.1E-04	7.0E-10	4.7E-02	1.3E-01	4.4E-12	7.2E+00	1.6E-07	6.1E-04	7.0E-10	4.7E-02	1.3E-01	4.4E-12
471	1.7E+01	8.8E-08	6.1E-04	9.2E-10	4.7E-02	1.3E-01	5.7E-12	9.0E+00	1.6E-07	6.1E-04	8.8E-10	4.7E-02	1.3E-01	5.4E-12
472	1.0E+01	8.8E-08	6.1E-04	5.5E-10	4.7E-02	1.3E-01	3.4E-12	5.7E+00	1.6E-07	6.1E-04	5.6E-10	4.7E-02	1.3E-01	3.5E-12
473	1.4E+01	8.8E-08	6.1E-04	7.2E-10	4.7E-02	1.3E-01	4.5E-12	7.0E+00	1.6E-07	6.1E-04	6.8E-10	4.7E-02	1.3E-01	4.2E-12
474	1.9E+01	8.8E-08	6.1E-04	9.9E-10	4.7E-02	1.3E-01	6.1E-12	8.7E+00	1.6E-07	6.1E-04	8.4E-10	4.7E-02	1.3E-01	5.2E-12
475	9.7E+00	8.8E-08	6.1E-04	5.2E-10	4.7E-02	1.3E-01	3.2E-12	5.4E+00	1.6E-07	6.1E-04	5.2E-10	4.7E-02	1.3E-01	3.3E-12
476	1.3E+01	8.8E-08	6.1E-04	6.8E-10	4.7E-02	1.3E-01	4.2E-12	6.5E+00	1.6E-07	6.1E-04	6.4E-10	4.7E-02	1.3E-01	3.9E-12
477	1.8E+01	8.8E-08	6.1E-04	9.5E-10	4.7E-02	1.3E-01	5.9E-12	8.1E+00	1.6E-07	6.1E-04	7.9E-10	4.7E-02	1.3E-01	4.9E-12

Mt. Etna Community Plan Amendment and Rezone Project

Risk From Foundation - Mitigated School

	Haul2A							HaulC						
Receptor #	Conc	g/sec	D1	Dose	R1	ED	Risk	Conc.	g/sec	D1	Dose	R1	ED	Risk
451	6.3E+00	9.5E-08	6.1E-04	3.6E-10	4.7E-02	1.3E-01	2.2E-12	4.4E+00	5.3E-07	6.1E-04	1.4E-09	4.7E-02	1.3E-01	8.8E-12
452	6.2E+00	9.5E-08	6.1E-04	3.6E-10	4.7E-02	1.3E-01	2.2E-12	4.6E+00	5.3E-07	6.1E-04	1.5E-09	4.7E-02	1.3E-01	9.2E-12
453	6.0E+00	9.5E-08	6.1E-04	3.5E-10	4.7E-02	1.3E-01	2.1E-12	4.8E+00	5.3E-07	6.1E-04	1.5E-09	4.7E-02	1.3E-01	9.5E-12
454	5.8E+00	9.5E-08	6.1E-04	3.3E-10	4.7E-02	1.3E-01	2.1E-12	4.9E+00	5.3E-07	6.1E-04	1.6E-09	4.7E-02	1.3E-01	9.7E-12
455	7.8E+00	9.5E-08	6.1E-04	4.5E-10	4.7E-02	1.3E-01	2.8E-12	5.1E+00	5.3E-07	6.1E-04	1.6E-09	4.7E-02	1.3E-01	1.0E-11
456	7.6E+00	9.5E-08	6.1E-04	4.4E-10	4.7E-02	1.3E-01	2.7E-12	5.4E+00	5.3E-07	6.1E-04	1.7E-09	4.7E-02	1.3E-01	1.1E-11
457	7.3E+00	9.5E-08	6.1E-04	4.2E-10	4.7E-02	1.3E-01	2.6E-12	5.6E+00	5.3E-07	6.1E-04	1.8E-09	4.7E-02	1.3E-01	1.1E-11
458	6.9E+00	9.5E-08	6.1E-04	4.0E-10	4.7E-02	1.3E-01	2.5E-12	5.8E+00	5.3E-07	6.1E-04	1.8E-09	4.7E-02	1.3E-01	1.1E-11
459	9.8E+00	9.5E-08	6.1E-04	5.6E-10	4.7E-02	1.3E-01	3.5E-12	6.0E+00	5.3E-07	6.1E-04	1.9E-09	4.7E-02	1.3E-01	1.2E-11
460	9.6E+00	9.5E-08	6.1E-04	5.5E-10	4.7E-02	1.3E-01	3.4E-12	6.4E+00	5.3E-07	6.1E-04	2.1E-09	4.7E-02	1.3E-01	1.3E-11
461	9.1E+00	9.5E-08	6.1E-04	5.2E-10	4.7E-02	1.3E-01	3.2E-12	6.7E+00	5.3E-07	6.1E-04	2.1E-09	4.7E-02	1.3E-01	1.3E-11
462	4.7E+00	9.5E-08	6.1E-04	2.7E-10	4.7E-02	1.3E-01	1.7E-12	2.0E+00	5.3E-07	6.1E-04	6.4E-10	4.7E-02	1.3E-01	4.0E-12
463	5.6E+00	9.5E-08	6.1E-04	3.2E-10	4.7E-02	1.3E-01	2.0E-12	2.2E+00	5.3E-07	6.1E-04	7.2E-10	4.7E-02	1.3E-01	4.5E-12
464	4.5E+00	9.5E-08	6.1E-04	2.6E-10	4.7E-02	1.3E-01	1.6E-12	1.9E+00	5.3E-07	6.1E-04	6.2E-10	4.7E-02	1.3E-01	3.8E-12
465	5.3E+00	9.5E-08	6.1E-04	3.1E-10	4.7E-02	1.3E-01	1.9E-12	2.2E+00	5.3E-07	6.1E-04	6.9E-10	4.7E-02	1.3E-01	4.3E-12
466	6.4E+00	9.5E-08	6.1E-04	3.7E-10	4.7E-02	1.3E-01	2.3E-12	2.4E+00	5.3E-07	6.1E-04	7.8E-10	4.7E-02	1.3E-01	4.8E-12
467	7.9E+00	9.5E-08	6.1E-04	4.6E-10	4.7E-02	1.3E-01	2.8E-12	2.8E+00	5.3E-07	6.1E-04	8.9E-10	4.7E-02	1.3E-01	5.5E-12
468	4.3E+00	9.5E-08	6.1E-04	2.5E-10	4.7E-02	1.3E-01	1.5E-12	1.9E+00	5.3E-07	6.1E-04	6.0E-10	4.7E-02	1.3E-01	3.7E-12
469	5.0E+00	9.5E-08	6.1E-04	2.9E-10	4.7E-02	1.3E-01	1.8E-12	2.1E+00	5.3E-07	6.1E-04	6.6E-10	4.7E-02	1.3E-01	4.1E-12
470	6.1E+00	9.5E-08	6.1E-04	3.5E-10	4.7E-02	1.3E-01	2.2E-12	2.3E+00	5.3E-07	6.1E-04	7.5E-10	4.7E-02	1.3E-01	4.6E-12
471	7.5E+00	9.5E-08	6.1E-04	4.3E-10	4.7E-02	1.3E-01	2.7E-12	2.6E+00	5.3E-07	6.1E-04	8.5E-10	4.7E-02	1.3E-01	5.3E-12
472	4.8E+00	9.5E-08	6.1E-04	2.7E-10	4.7E-02	1.3E-01	1.7E-12	2.0E+00	5.3E-07	6.1E-04	6.4E-10	4.7E-02	1.3E-01	4.0E-12
473	5.7E+00	9.5E-08	6.1E-04	3.3E-10	4.7E-02	1.3E-01	2.0E-12	2.2E+00	5.3E-07	6.1E-04	7.1E-10	4.7E-02	1.3E-01	4.4E-12
474	6.9E+00	9.5E-08	6.1E-04	4.0E-10	4.7E-02	1.3E-01	2.5E-12	2.5E+00	5.3E-07	6.1E-04	8.1E-10	4.7E-02	1.3E-01	5.0E-12
475	4.4E+00	9.5E-08	6.1E-04	2.6E-10	4.7E-02	1.3E-01	1.6E-12	1.9E+00	5.3E-07	6.1E-04	6.1E-10	4.7E-02	1.3E-01	3.8E-12
476	5.3E+00	9.5E-08	6.1E-04	3.0E-10	4.7E-02	1.3E-01	1.9E-12	2.1E+00	5.3E-07	6.1E-04	6.8E-10	4.7E-02	1.3E-01	4.2E-12
477	6.4E+00	9.5E-08	6.1E-04	3.7E-10	4.7E-02	1.3E-01	2.3E-12	2.4E+00	5.3E-07	6.1E-04	7.7E-10	4.7E-02	1.3E-01	4.7E-12

5. Risk by Construction Phase

f. Risk From BC - Mitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From BC - Mitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	2.2E-04	6.1E-04	6.0E-08	4.7E-02	7.0E-01	2.0E-09	7.6E-04	3.8E-03
452	4.4E-01	2.2E-04	6.1E-04	6.0E-08	4.7E-02	7.0E-01	2.0E-09	7.7E-04	3.8E-03
453	4.4E-01	2.2E-04	6.1E-04	6.0E-08	4.7E-02	7.0E-01	2.0E-09	7.7E-04	3.9E-03
454	4.5E-01	2.2E-04	6.1E-04	6.1E-08	4.7E-02	7.0E-01	2.0E-09	7.7E-04	3.9E-03
455	5.4E-01	2.2E-04	6.1E-04	7.3E-08	4.7E-02	7.0E-01	2.4E-09	8.9E-04	4.4E-03
456	5.4E-01	2.2E-04	6.1E-04	7.4E-08	4.7E-02	7.0E-01	2.4E-09	9.0E-04	4.5E-03
457	5.5E-01	2.2E-04	6.1E-04	7.4E-08	4.7E-02	7.0E-01	2.5E-09	9.1E-04	4.6E-03
458	5.4E-01	2.2E-04	6.1E-04	7.4E-08	4.7E-02	7.0E-01	2.4E-09	9.1E-04	4.5E-03
459	6.8E-01	2.2E-04	6.1E-04	9.3E-08	4.7E-02	7.0E-01	3.1E-09	1.1E-03	5.3E-03
460	6.8E-01	2.2E-04	6.1E-04	9.3E-08	4.7E-02	7.0E-01	3.1E-09	1.1E-03	5.4E-03
461	6.8E-01	2.2E-04	6.1E-04	9.3E-08	4.7E-02	7.0E-01	3.1E-09	1.1E-03	5.5E-03
462	7.8E-01	2.2E-04	6.1E-04	1.1E-07	4.7E-02	7.0E-01	3.5E-09	5.8E-04	2.9E-03
463	9.7E-01	2.2E-04	6.1E-04	1.3E-07	4.7E-02	7.0E-01	4.4E-09	6.7E-04	3.3E-03
464	7.9E-01	2.2E-04	6.1E-04	1.1E-07	4.7E-02	7.0E-01	3.6E-09	5.8E-04	2.9E-03
465	1.0E+00	2.2E-04	6.1E-04	1.4E-07	4.7E-02	7.0E-01	4.5E-09	6.7E-04	3.4E-03
466	1.3E+00	2.2E-04	6.1E-04	1.8E-07	4.7E-02	7.0E-01	5.9E-09	8.0E-04	4.0E-03
467	1.8E+00	2.2E-04	6.1E-04	2.4E-07	4.7E-02	7.0E-01	8.0E-09	9.7E-04	4.9E-03
468	7.7E-01	2.2E-04	6.1E-04	1.0E-07	4.7E-02	7.0E-01	3.5E-09	5.6E-04	2.8E-03
469	9.8E-01	2.2E-04	6.1E-04	1.3E-07	4.7E-02	7.0E-01	4.4E-09	6.7E-04	3.3E-03
470	1.3E+00	2.2E-04	6.1E-04	1.8E-07	4.7E-02	7.0E-01	5.9E-09	8.0E-04	4.0E-03
471	1.8E+00	2.2E-04	6.1E-04	2.5E-07	4.7E-02	7.0E-01	8.3E-09	1.0E-03	5.0E-03
472	9.2E-01	2.2E-04	6.1E-04	1.3E-07	4.7E-02	7.0E-01	4.2E-09	6.4E-04	3.2E-03
473	1.2E+00	2.2E-04	6.1E-04	1.7E-07	4.7E-02	7.0E-01	5.5E-09	7.8E-04	3.9E-03
474	1.7E+00	2.2E-04	6.1E-04	2.4E-07	4.7E-02	7.0E-01	7.8E-09	9.8E-04	4.9E-03
475	8.3E-01	2.2E-04	6.1E-04	1.1E-07	4.7E-02	7.0E-01	3.8E-09	6.1E-04	3.0E-03
476	1.1E+00	2.2E-04	6.1E-04	1.5E-07	4.7E-02	7.0E-01	5.0E-09	7.3E-04	3.7E-03
477	1.5E+00	2.2E-04	6.1E-04	2.1E-07	4.7E-02	7.0E-01	6.9E-09	9.3E-04	4.6E-03

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated School

	Haul1A							Haul1B						
Receptor #	**Conc.**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	3.8E+00	7.9E-05	6.1E-04	1.8E-07	4.7E-02	7.0E-01	6.0E-09	5.1E+00	1.4E-04	6.1E-04	4.4E-07	4.7E-02	7.0E-01	1.5E-08
452	3.6E+00	7.9E-05	6.1E-04	1.8E-07	4.7E-02	7.0E-01	5.8E-09	5.0E+00	1.4E-04	6.1E-04	4.3E-07	4.7E-02	7.0E-01	1.4E-08
453	3.5E+00	7.9E-05	6.1E-04	1.7E-07	4.7E-02	7.0E-01	5.6E-09	4.8E+00	1.4E-04	6.1E-04	4.2E-07	4.7E-02	7.0E-01	1.4E-08
454	3.3E+00	7.9E-05	6.1E-04	1.6E-07	4.7E-02	7.0E-01	5.3E-09	4.6E+00	1.4E-04	6.1E-04	4.1E-07	4.7E-02	7.0E-01	1.3E-08
455	4.3E+00	7.9E-05	6.1E-04	2.1E-07	4.7E-02	7.0E-01	6.9E-09	6.0E+00	1.4E-04	6.1E-04	5.3E-07	4.7E-02	7.0E-01	1.8E-08
456	4.2E+00	7.9E-05	6.1E-04	2.0E-07	4.7E-02	7.0E-01	6.7E-09	5.9E+00	1.4E-04	6.1E-04	5.2E-07	4.7E-02	7.0E-01	1.7E-08
457	4.0E+00	7.9E-05	6.1E-04	1.9E-07	4.7E-02	7.0E-01	6.4E-09	5.7E+00	1.4E-04	6.1E-04	5.0E-07	4.7E-02	7.0E-01	1.7E-08
458	3.8E+00	7.9E-05	6.1E-04	1.8E-07	4.7E-02	7.0E-01	6.0E-09	5.4E+00	1.4E-04	6.1E-04	4.8E-07	4.7E-02	7.0E-01	1.6E-08
459	5.1E+00	7.9E-05	6.1E-04	2.4E-07	4.7E-02	7.0E-01	8.1E-09	7.4E+00	1.4E-04	6.1E-04	6.5E-07	4.7E-02	7.0E-01	2.1E-08
460	4.8E+00	7.9E-05	6.1E-04	2.3E-07	4.7E-02	7.0E-01	7.7E-09	7.2E+00	1.4E-04	6.1E-04	6.3E-07	4.7E-02	7.0E-01	2.1E-08
461	4.6E+00	7.9E-05	6.1E-04	2.2E-07	4.7E-02	7.0E-01	7.3E-09	6.9E+00	1.4E-04	6.1E-04	6.0E-07	4.7E-02	7.0E-01	2.0E-08
462	7.6E+00	7.9E-05	6.1E-04	3.6E-07	4.7E-02	7.0E-01	1.2E-08	5.2E+00	1.4E-04	6.1E-04	4.6E-07	4.7E-02	7.0E-01	1.5E-08
463	8.8E+00	7.9E-05	6.1E-04	4.2E-07	4.7E-02	7.0E-01	1.4E-08	6.1E+00	1.4E-04	6.1E-04	5.4E-07	4.7E-02	7.0E-01	1.8E-08
464	8.1E+00	7.9E-05	6.1E-04	3.9E-07	4.7E-02	7.0E-01	1.3E-08	5.2E+00	1.4E-04	6.1E-04	4.5E-07	4.7E-02	7.0E-01	1.5E-08
465	9.8E+00	7.9E-05	6.1E-04	4.7E-07	4.7E-02	7.0E-01	1.6E-08	6.1E+00	1.4E-04	6.1E-04	5.4E-07	4.7E-02	7.0E-01	1.8E-08
466	1.2E+01	7.9E-05	6.1E-04	5.7E-07	4.7E-02	7.0E-01	1.9E-08	7.4E+00	1.4E-04	6.1E-04	6.4E-07	4.7E-02	7.0E-01	2.1E-08
467	1.5E+01	7.9E-05	6.1E-04	7.0E-07	4.7E-02	7.0E-01	2.3E-08	9.0E+00	1.4E-04	6.1E-04	7.9E-07	4.7E-02	7.0E-01	2.6E-08
468	8.3E+00	7.9E-05	6.1E-04	4.0E-07	4.7E-02	7.0E-01	1.3E-08	5.0E+00	1.4E-04	6.1E-04	4.4E-07	4.7E-02	7.0E-01	1.5E-08
469	1.0E+01	7.9E-05	6.1E-04	5.0E-07	4.7E-02	7.0E-01	1.7E-08	6.0E+00	1.4E-04	6.1E-04	5.2E-07	4.7E-02	7.0E-01	1.7E-08
470	1.3E+01	7.9E-05	6.1E-04	6.3E-07	4.7E-02	7.0E-01	2.1E-08	7.2E+00	1.4E-04	6.1E-04	6.3E-07	4.7E-02	7.0E-01	2.1E-08
471	1.7E+01	7.9E-05	6.1E-04	8.3E-07	4.7E-02	7.0E-01	2.7E-08	9.0E+00	1.4E-04	6.1E-04	7.9E-07	4.7E-02	7.0E-01	2.6E-08
472	1.0E+01	7.9E-05	6.1E-04	5.0E-07	4.7E-02	7.0E-01	1.6E-08	5.7E+00	1.4E-04	6.1E-04	5.0E-07	4.7E-02	7.0E-01	1.7E-08
473	1.4E+01	7.9E-05	6.1E-04	6.5E-07	4.7E-02	7.0E-01	2.2E-08	7.0E+00	1.4E-04	6.1E-04	6.1E-07	4.7E-02	7.0E-01	2.0E-08
474	1.9E+01	7.9E-05	6.1E-04	8.9E-07	4.7E-02	7.0E-01	3.0E-08	8.7E+00	1.4E-04	6.1E-04	7.6E-07	4.7E-02	7.0E-01	2.5E-08
475	9.7E+00	7.9E-05	6.1E-04	4.7E-07	4.7E-02	7.0E-01	1.5E-08	5.4E+00	1.4E-04	6.1E-04	4.7E-07	4.7E-02	7.0E-01	1.6E-08
476	1.3E+01	7.9E-05	6.1E-04	6.2E-07	4.7E-02	7.0E-01	2.0E-08	6.5E+00	1.4E-04	6.1E-04	5.7E-07	4.7E-02	7.0E-01	1.9E-08
477	1.8E+01	7.9E-05	6.1E-04	8.6E-07	4.7E-02	7.0E-01	2.9E-08	8.1E+00	1.4E-04	6.1E-04	7.1E-07	4.7E-02	7.0E-01	2.4E-08

Mt. Etna Community Plan Amendment and Rezone Project

Risk From BC - Mitigated School

	Haul2A							HaulC						
Receptor #	**Conc**	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**
451	6.3E+00	8.5E-05	6.1E-04	3.3E-07	4.7E-02	7.0E-01	1.1E-08	4.4E+00	4.8E-04	6.1E-04	1.3E-06	4.7E-02	7.0E-01	4.2E-08
452	6.2E+00	8.5E-05	6.1E-04	3.2E-07	4.7E-02	7.0E-01	1.1E-08	4.6E+00	4.8E-04	6.1E-04	1.3E-06	4.7E-02	7.0E-01	4.4E-08
453	6.0E+00	8.5E-05	6.1E-04	3.1E-07	4.7E-02	7.0E-01	1.0E-08	4.8E+00	4.8E-04	6.1E-04	1.4E-06	4.7E-02	7.0E-01	4.6E-08
454	5.8E+00	8.5E-05	6.1E-04	3.0E-07	4.7E-02	7.0E-01	9.9E-09	4.9E+00	4.8E-04	6.1E-04	1.4E-06	4.7E-02	7.0E-01	4.7E-08
455	7.8E+00	8.5E-05	6.1E-04	4.0E-07	4.7E-02	7.0E-01	1.3E-08	5.1E+00	4.8E-04	6.1E-04	1.5E-06	4.7E-02	7.0E-01	4.9E-08
456	7.6E+00	8.5E-05	6.1E-04	3.9E-07	4.7E-02	7.0E-01	1.3E-08	5.4E+00	4.8E-04	6.1E-04	1.6E-06	4.7E-02	7.0E-01	5.2E-08
457	7.3E+00	8.5E-05	6.1E-04	3.8E-07	4.7E-02	7.0E-01	1.3E-08	5.6E+00	4.8E-04	6.1E-04	1.6E-06	4.7E-02	7.0E-01	5.4E-08
458	6.9E+00	8.5E-05	6.1E-04	3.6E-07	4.7E-02	7.0E-01	1.2E-08	5.8E+00	4.8E-04	6.1E-04	1.7E-06	4.7E-02	7.0E-01	5.5E-08
459	9.8E+00	8.5E-05	6.1E-04	5.1E-07	4.7E-02	7.0E-01	1.7E-08	6.0E+00	4.8E-04	6.1E-04	1.7E-06	4.7E-02	7.0E-01	5.8E-08
460	9.6E+00	8.5E-05	6.1E-04	4.9E-07	4.7E-02	7.0E-01	1.6E-08	6.4E+00	4.8E-04	6.1E-04	1.8E-06	4.7E-02	7.0E-01	6.1E-08
461	9.1E+00	8.5E-05	6.1E-04	4.7E-07	4.7E-02	7.0E-01	1.6E-08	6.7E+00	4.8E-04	6.1E-04	1.9E-06	4.7E-02	7.0E-01	6.4E-08
462	4.7E+00	8.5E-05	6.1E-04	2.4E-07	4.7E-02	7.0E-01	8.0E-09	2.0E+00	4.8E-04	6.1E-04	5.8E-07	4.7E-02	7.0E-01	1.9E-08
463	5.6E+00	8.5E-05	6.1E-04	2.9E-07	4.7E-02	7.0E-01	9.5E-09	2.2E+00	4.8E-04	6.1E-04	6.5E-07	4.7E-02	7.0E-01	2.2E-08
464	4.5E+00	8.5E-05	6.1E-04	2.3E-07	4.7E-02	7.0E-01	7.7E-09	1.9E+00	4.8E-04	6.1E-04	5.6E-07	4.7E-02	7.0E-01	1.9E-08
465	5.3E+00	8.5E-05	6.1E-04	2.7E-07	4.7E-02	7.0E-01	9.1E-09	2.2E+00	4.8E-04	6.1E-04	6.2E-07	4.7E-02	7.0E-01	2.1E-08
466	6.4E+00	8.5E-05	6.1E-04	3.3E-07	4.7E-02	7.0E-01	1.1E-08	2.4E+00	4.8E-04	6.1E-04	7.0E-07	4.7E-02	7.0E-01	2.3E-08
467	7.9E+00	8.5E-05	6.1E-04	4.1E-07	4.7E-02	7.0E-01	1.4E-08	2.8E+00	4.8E-04	6.1E-04	8.0E-07	4.7E-02	7.0E-01	2.7E-08
468	4.3E+00	8.5E-05	6.1E-04	2.2E-07	4.7E-02	7.0E-01	7.3E-09	1.9E+00	4.8E-04	6.1E-04	5.4E-07	4.7E-02	7.0E-01	1.8E-08
469	5.0E+00	8.5E-05	6.1E-04	2.6E-07	4.7E-02	7.0E-01	8.6E-09	2.1E+00	4.8E-04	6.1E-04	6.0E-07	4.7E-02	7.0E-01	2.0E-08
470	6.1E+00	8.5E-05	6.1E-04	3.1E-07	4.7E-02	7.0E-01	1.0E-08	2.3E+00	4.8E-04	6.1E-04	6.7E-07	4.7E-02	7.0E-01	2.2E-08
471	7.5E+00	8.5E-05	6.1E-04	3.9E-07	4.7E-02	7.0E-01	1.3E-08	2.6E+00	4.8E-04	6.1E-04	7.6E-07	4.7E-02	7.0E-01	2.5E-08
472	4.8E+00	8.5E-05	6.1E-04	2.5E-07	4.7E-02	7.0E-01	8.1E-09	2.0E+00	4.8E-04	6.1E-04	5.7E-07	4.7E-02	7.0E-01	1.9E-08
473	5.7E+00	8.5E-05	6.1E-04	2.9E-07	4.7E-02	7.0E-01	9.7E-09	2.2E+00	4.8E-04	6.1E-04	6.4E-07	4.7E-02	7.0E-01	2.1E-08
474	6.9E+00	8.5E-05	6.1E-04	3.6E-07	4.7E-02	7.0E-01	1.2E-08	2.5E+00	4.8E-04	6.1E-04	7.2E-07	4.7E-02	7.0E-01	2.4E-08
475	4.4E+00	8.5E-05	6.1E-04	2.3E-07	4.7E-02	7.0E-01	7.6E-09	1.9E+00	4.8E-04	6.1E-04	5.5E-07	4.7E-02	7.0E-01	1.8E-08
476	5.3E+00	8.5E-05	6.1E-04	2.7E-07	4.7E-02	7.0E-01	9.0E-09	2.1E+00	4.8E-04	6.1E-04	6.1E-07	4.7E-02	7.0E-01	2.0E-08
477	6.4E+00	8.5E-05	6.1E-04	3.3E-07	4.7E-02	7.0E-01	1.1E-08	2.4E+00	4.8E-04	6.1E-04	6.9E-07	4.7E-02	7.0E-01	2.3E-08

5. Risk by Construction Phase

g. Risk From Arch. Coating - Mitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Arch. Coating - Mitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	**g/sec**	**D1**	**Dose**	**R1**	**ED**	**Risk**	**HI**	**Conc**
451	4.4E-01	5.5E-05	6.1E-04	1.5E-08	4.7E-02	6.6E-01	4.6E-10	4.9E-06	2.4E-05
452	4.4E-01	5.5E-05	6.1E-04	1.5E-08	4.7E-02	6.6E-01	4.6E-10	4.9E-06	2.5E-05
453	4.4E-01	5.5E-05	6.1E-04	1.5E-08	4.7E-02	6.6E-01	4.6E-10	4.9E-06	2.5E-05
454	4.5E-01	5.5E-05	6.1E-04	1.5E-08	4.7E-02	6.6E-01	4.6E-10	4.9E-06	2.5E-05
455	5.4E-01	5.5E-05	6.1E-04	1.8E-08	4.7E-02	6.6E-01	5.6E-10	6.0E-06	3.0E-05
456	5.4E-01	5.5E-05	6.1E-04	1.8E-08	4.7E-02	6.6E-01	5.6E-10	6.0E-06	3.0E-05
457	5.5E-01	5.5E-05	6.1E-04	1.8E-08	4.7E-02	6.6E-01	5.7E-10	6.0E-06	3.0E-05
458	5.4E-01	5.5E-05	6.1E-04	1.8E-08	4.7E-02	6.6E-01	5.6E-10	6.0E-06	3.0E-05
459	6.8E-01	5.5E-05	6.1E-04	2.3E-08	4.7E-02	6.6E-01	7.1E-10	7.6E-06	3.8E-05
460	6.8E-01	5.5E-05	6.1E-04	2.3E-08	4.7E-02	6.6E-01	7.1E-10	7.6E-06	3.8E-05
461	6.8E-01	5.5E-05	6.1E-04	2.3E-08	4.7E-02	6.6E-01	7.1E-10	7.6E-06	3.8E-05
462	7.8E-01	5.5E-05	6.1E-04	2.6E-08	4.7E-02	6.6E-01	8.1E-10	8.7E-06	4.3E-05
463	9.7E-01	5.5E-05	6.1E-04	3.2E-08	4.7E-02	6.6E-01	1.0E-09	1.1E-05	5.4E-05
464	7.9E-01	5.5E-05	6.1E-04	2.7E-08	4.7E-02	6.6E-01	8.2E-10	8.8E-06	4.4E-05
465	1.0E+00	5.5E-05	6.1E-04	3.4E-08	4.7E-02	6.6E-01	1.0E-09	1.1E-05	5.6E-05
466	1.3E+00	5.5E-05	6.1E-04	4.4E-08	4.7E-02	6.6E-01	1.4E-09	1.4E-05	7.2E-05
467	1.8E+00	5.5E-05	6.1E-04	5.9E-08	4.7E-02	6.6E-01	1.8E-09	2.0E-05	9.8E-05
468	7.7E-01	5.5E-05	6.1E-04	2.6E-08	4.7E-02	6.6E-01	8.0E-10	8.5E-06	4.3E-05
469	9.8E-01	5.5E-05	6.1E-04	3.3E-08	4.7E-02	6.6E-01	1.0E-09	1.1E-05	5.4E-05
470	1.3E+00	5.5E-05	6.1E-04	4.4E-08	4.7E-02	6.6E-01	1.4E-09	1.4E-05	7.2E-05
471	1.8E+00	5.5E-05	6.1E-04	6.2E-08	4.7E-02	6.6E-01	1.9E-09	2.0E-05	1.0E-04
472	9.2E-01	5.5E-05	6.1E-04	3.1E-08	4.7E-02	6.6E-01	9.6E-10	1.0E-05	5.1E-05
473	1.2E+00	5.5E-05	6.1E-04	4.1E-08	4.7E-02	6.6E-01	1.3E-09	1.4E-05	6.8E-05
474	1.7E+00	5.5E-05	6.1E-04	5.8E-08	4.7E-02	6.6E-01	1.8E-09	1.9E-05	9.6E-05
475	8.3E-01	5.5E-05	6.1E-04	2.8E-08	4.7E-02	6.6E-01	8.7E-10	9.2E-06	4.6E-05
476	1.1E+00	5.5E-05	6.1E-04	3.7E-08	4.7E-02	6.6E-01	1.1E-09	1.2E-05	6.1E-05
477	1.5E+00	5.5E-05	6.1E-04	5.2E-08	4.7E-02	6.6E-01	1.6E-09	1.7E-05	8.5E-05

5. Risk by Construction Phase

h. Risk From Paving - Mitigated School

Mt. Etna Community Plan Amendment and Rezone Project
Risk From Paving - Mitigated School

			Onsite - Cancer Risk					Non-Cancer Risk	
Receptor #	Conc.	g/sec	D1	Dose	R1	ED	Risk	HI	Conc
451	4.4E-01	4.4E-04	6.1E-04	1.2E-07	4.7E-02	6.3E-02	3.5E-10	3.9E-05	1.9E-04
452	4.4E-01	4.4E-04	6.1E-04	1.2E-07	4.7E-02	6.3E-02	3.5E-10	3.9E-05	1.9E-04
453	4.4E-01	4.4E-04	6.1E-04	1.2E-07	4.7E-02	6.3E-02	3.5E-10	3.9E-05	2.0E-04
454	4.5E-01	4.4E-04	6.1E-04	1.2E-07	4.7E-02	6.3E-02	3.5E-10	3.9E-05	2.0E-04
455	5.4E-01	4.4E-04	6.1E-04	1.4E-07	4.7E-02	6.3E-02	4.3E-10	4.7E-05	2.4E-04
456	5.4E-01	4.4E-04	6.1E-04	1.4E-07	4.7E-02	6.3E-02	4.3E-10	4.8E-05	2.4E-04
457	5.5E-01	4.4E-04	6.1E-04	1.5E-07	4.7E-02	6.3E-02	4.3E-10	4.8E-05	2.4E-04
458	5.4E-01	4.4E-04	6.1E-04	1.4E-07	4.7E-02	6.3E-02	4.3E-10	4.8E-05	2.4E-04
459	6.8E-01	4.4E-04	6.1E-04	1.8E-07	4.7E-02	6.3E-02	5.4E-10	6.0E-05	3.0E-04
460	6.8E-01	4.4E-04	6.1E-04	1.8E-07	4.7E-02	6.3E-02	5.4E-10	6.0E-05	3.0E-04
461	6.8E-01	4.4E-04	6.1E-04	1.8E-07	4.7E-02	6.3E-02	5.4E-10	6.0E-05	3.0E-04
462	7.8E-01	4.4E-04	6.1E-04	2.1E-07	4.7E-02	6.3E-02	6.2E-10	6.9E-05	3.5E-04
463	9.7E-01	4.4E-04	6.1E-04	2.6E-07	4.7E-02	6.3E-02	7.7E-10	8.5E-05	4.3E-04
464	7.9E-01	4.4E-04	6.1E-04	2.1E-07	4.7E-02	6.3E-02	6.3E-10	7.0E-05	3.5E-04
465	1.0E+00	4.4E-04	6.1E-04	2.7E-07	4.7E-02	6.3E-02	7.9E-10	8.8E-05	4.4E-04
466	1.3E+00	4.4E-04	6.1E-04	3.5E-07	4.7E-02	6.3E-02	1.0E-09	1.2E-04	5.8E-04
467	1.8E+00	4.4E-04	6.1E-04	4.7E-07	4.7E-02	6.3E-02	1.4E-09	1.6E-04	7.8E-04
468	7.7E-01	4.4E-04	6.1E-04	2.0E-07	4.7E-02	6.3E-02	6.1E-10	6.8E-05	3.4E-04
469	9.8E-01	4.4E-04	6.1E-04	2.6E-07	4.7E-02	6.3E-02	7.8E-10	8.7E-05	4.3E-04
470	1.3E+00	4.4E-04	6.1E-04	3.5E-07	4.7E-02	6.3E-02	1.0E-09	1.2E-04	5.8E-04
471	1.8E+00	4.4E-04	6.1E-04	4.9E-07	4.7E-02	6.3E-02	1.5E-09	1.6E-04	8.1E-04
472	9.2E-01	4.4E-04	6.1E-04	2.5E-07	4.7E-02	6.3E-02	7.3E-10	8.1E-05	4.1E-04
473	1.2E+00	4.4E-04	6.1E-04	3.3E-07	4.7E-02	6.3E-02	9.7E-10	1.1E-04	5.4E-04
474	1.7E+00	4.4E-04	6.1E-04	4.6E-07	4.7E-02	6.3E-02	1.4E-09	1.5E-04	7.6E-04
475	8.3E-01	4.4E-04	6.1E-04	2.2E-07	4.7E-02	6.3E-02	6.6E-10	7.4E-05	3.7E-04
476	1.1E+00	4.4E-04	6.1E-04	2.9E-07	4.7E-02	6.3E-02	8.7E-10	9.7E-05	4.9E-04
477	1.5E+00	4.4E-04	6.1E-04	4.1E-07	4.7E-02	6.3E-02	1.2E-09	1.4E-04	6.8E-04

Appendix E
Energy Appendix

ESA

Mt. Etna Community Plan Amendment and Rezone Project
Energy Summary

Construction Fuel Consumption Summary

	gallons		
Year	**Diesel**	**Gas**	**# Years**
Total Compressed	***66,442***	***23,610***	1.75
Annual Average	37,967	13,491	

*Note: Mitigated and unmitigated construction emissions of CO_2 are identical

*Note: 10 years is used rather than 20 (buildout time) because the worst case scenario assumes 10% construction per year)

State Usage (2018)[1,2]	3,073,917,507	15,517,383,271	
Project % State	0.0012%	0.0001%	
County Usage[3]	92,000,000	1,208,000,000	
Project % County	0.0413%	0.0011%	
Construction	Total Gallons	Annual Comp	
Onsite Equipment	39,369	22,497	diesel
Onsite Equipment	0	0	gasoline
Haul Trucks	7,336	4,192	diesel
Vendor Trucks	19,737	11,278	diesel
Worker Trips	23,610	13,491	gasoline

Mt. Etna Community Plan Amendment and Rezone Project

Unmitigated Fuel Conversion - Construction

	Total CO_2 MT/yr	Fuel Type	Factor $KGCO_2$/gal	Gallons
Offroad				
Demolition	25.68	diesel	10.16	2,528
Site Preparation	57.47	diesel	10.16	5,657
Grading	39.97	diesel	10.16	3,934
Drainage/Utilities/Trenching	32.06	diesel	10.16	3,156
Foundations/ Concrete Pour	20.94	diesel	10.16	2,061
Building Construction	41.23	diesel	10.16	4,058
BC 2022	114.59	diesel	10.16	11,278
Architectural Coating	4.77	diesel	10.16	470
AC 2022	36.14	diesel	10.16	3,558
Paving	27.13	diesel	10.16	2,671

Onroad	*source: 2020 EMFAC2017 Caleemod and Const.xls*			
	Hauling	Vendor	Worker	gallons
Demolition	5,240	0	95	gallons
Site Preparation	667	0	167	gallons
Grading	667	0	167	gallons
Drainage/Utilities/Trenching	0	0	276	gallons
Foundations/ Concrete Pour	762	0	800	gallons
Building Construction	0	19,737	17,348	gallons
Architectural Coating	0	0	4,574	gallons
Paving	0	0	183	gallons
Total	7,336	19,737	23,610	

Estimated Fuel Savings from Anti-Idling Regulation (64% based on CARB emissions reductions)

	Gallons	% Idling	Gallons Idle	
Annual Haul	4,192.00	1.03	43	
Annual Vendor	11,278.29	8.80	992	
Total	15,470		1,036	
Savings			373	Annual

Source: California Air Resources Board (CARB), 2004. Staff Report: Initial Statement of Reasons for Proposed Rulemaking, Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling, Appendix F, July 2004, https://www.arb.ca.gov/regact/idling/idling.htm, accessed November 2016.

Mt. Etna Community Plan Amendment and Rezone Project
Unmitigated Fuel Conversion - Construction

Construction Water Energy Estimates

Source	Acres	Daily Use (Mgal)	days of Project	Total Use (Mgal)	Total Electricity Demand (kWh)	Annual Electricity Demand (kWh)
Project	4.09	0.01227	432	5.301	69,020	69,020

CalEEMod Water Electricity Factors

Electricity Intensity Factor To Supply (kWh/Mgal)	Electricity Intensity Factor To Treat (kWh/Mgal)	Electricity Intensity Factor To Distribute (kWh/Mgal)	Electricity Intensity Factor For Wastewater Treatment (kWh/Mgal)
9727	111	1272	1,911

	kWh
Annual Project	69,020
SDG&E	18,767,000,000
%SSDG&E	0.000368%

Sources:

Electricity Intensity Factors - California Emissions Estimator Model (CalEEMod).

Estimated construction water use assumed to be generally equivalent to landscape irrigation, based on a factor of 20.94 gallons per year per square foot of

landscaped area within the Los Angeles area (Mediterranean climate), which assumes high water demand landscaping materials and an irrigation system efficiency of 85%.

Factor is therefore (20.94 GAL/SF/year) x (43,560 SF/acre) / (365 days/year) / (0.85) = 2,940 gallons/acre/day, rounded up to 3,000 gallons/acre/day.

(U.S. Department of Energy, Energy Efficiency & Renewable Energy, Federal Energy Management Program. “Guidelines for Estimating Unmetered Landscaping Water Use." July 2010. Page 12, Table 4 - Annual Irrigation Factor – Landscaped Areas with High Water Requirements).

Mt. Etna Community Plan Amendment and Rezone Project

Total On-Road Fuel Consumption

		gal/mile	gal/min
2021Hauling	Hauling	0.15878662	5.48894E-05
2021Vendor	Vendor	0.13316957	5.4387E-05
2021Worker	Worker	0.03676531	1.00645E-06

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Idling per Day (minutes)
Demolition	2021				
Total Haul Trips	1639				
Hauling	110	15	8	20	15
Vendor	0	15	8	7.3	15
Worker	16	15	8	10.8	0
Site Preparation	2021				
Total Haul Trips	200				
Hauling	7	30	8	20	15
Vendor	0	30	8	7.3	15
Worker	14	30	8	10.8	0
Grading	2021				
Total Haul Trips	200				
Hauling	7	30	8	20	15
Vendor	0	30	8	7.3	15
Worker	14	30	8	10.8	0
Building Construction	2021				
Total Haul Trips	0				
Hauling	0	257	8	20	15
Vendor	79	257	8	7.3	15
Worker	170	257	8	10.8	0
Paving	2021				
Total Haul Trips	0				
Hauling	0	23	8	20	15
Vendor	0	23	8	7.3	15
Worker	20	23	8	10.8	0
Architectural Coating	2021				
Total Haul Trips	0				
Hauling	0	240	8	20	15
Vendor	0	240	8	7.3	15
Worker	48	240	8	10.8	0
Drainage/Utilities/Trench	2021				
Total Haul Trips	0				
Hauling	0	29	8	20	15
Vendor	0	29	8	7.3	15
Worker	24	29	8	10.8	0
Foundations/Concrete	2021				
Total Haul Trips	200				
Hauling	5	48	8	20	15
Vendor	0	48	8	7.3	15
Worker	42	48	8	10.8	0

Mt. Etna Commu **Mt. Etna Community Plan Amendment and Rezone Project**

T **Total On-Road Fuel Consumption**

Construction Phase	Regional Emissions			
	gal/mile	gal/min	gal/day	Total Gallons
Demolition				
Total Haul Trips				
Hauling	0.16	5.49E-05	349	5,240
Vendor	0.13	5.44E-05	0	0
Worker	0.04	1.01E-06	6	95
Site Preparation				
Total Haul Trips				
Hauling	0.16	5.49E-05	22	667
Vendor	0.13	5.44E-05	0	0
Worker	0.04	1.01E-06	6	167
Grading				
Total Haul Trips				
Hauling	0.16	5.49E-05	22	667
Vendor	0.13	5.44E-05	0	0
Worker	0.04	1.01E-06	6	167
Building Construction				
Total Haul Trips				
Hauling	0.16	5.49E-05	0	0
Vendor	0.13	5.44E-05	77	19,737
Worker	0.04	1.01E-06	68	17,348
Paving				
Total Haul Trips				
Hauling	0.16	5.49E-05	0	0
Vendor	0.13	5.44E-05	0	0
Worker	0.04	1.01E-06	8	183
Architectural Coating				
Total Haul Trips				
Hauling	0.16	5.49E-05	0	0
Vendor	0.13	5.44E-05	0	0
Worker	0.04	1.01E-06	19	4,574
Drainage/Utilities/Trench				
Total Haul Trips				
Hauling	0.16	5.49E-05	0	0
Vendor	0.13	5.44E-05	0	0
Worker	0.04	1.01E-06	10	276
Foundations/Concrete				
Total Haul Trips				
Hauling	0.16	5.49E-05	16	762
Vendor	0.13	5.44E-05	0	0
Worker	0.04	1.01E-06	17	800

Mt Etna Community Plan Amendment and Rezone Project
Operational Energy Analysis
Building Energy

Source	Natural Gas demand (MMBtu/yr)	Building Electricity demand (GWh/yr)	Water Electricity demand (million kWh/yr)	Total Electricity Demand
Mt Etna Affordable Hosuing	6,310	1.92	0.56	2.48

Source	CalEEMod Indoor Water Use (Mgal/yr)	CalEEMod Outdoor Water Use (Mgal/yr)	Total Water Use (Mgal/yr)	Electricity Demand from water Demand (million kWh)
Mt Etna Affordable Hosuing	26.32	16.59	42.92	0.56

CalEEMod Water Electricity Factors	Electricity Intensity Factor To Supply (kWh/Mgal)	Electricity Intensity Factor To Treat (kWh/Mgal)	Electricity Intensity Factor To Distribute (kWh/Mgal)	Electricity Intensity Factor For Wastewater Treatment (kWh/Mgal)
Mt Etna Affordable Hosuing	9,727	111	1,272	1,911

Source: California Emissions Estimator Model (CalEEMod).

Mt. Etna Community Plan Amendment and Rezone Project
Operational Vehicle Fuel Consumption

	2022
Unmitigated CO_2e (MT/year)	1,998
Mitigated CO_2e (MT/year)	1,998

Op year 1

Summary	Unmitigated	Mitigated
Gasolilne	187,528	187,528
Diesel	30,615	30,615
Natural Gas	389	389

Existing — 2022

Unmitigated Calculations

	% Emissions	CO_2e (MT)	CO_2e (kg)	CO_2e (lbs)	kg CO2/gallo	Gallons	Mcf	MBTU	GWh
Gasoline	0.834345114	0	0	NA	8.89	0	NA	NA	NA
Diesel	0.155668952	0	0	NA	10.16	0	NA	NA	NA
Natural Gas	0.009985934	0	0	NA	NA	NA	0.00	0.00	NA

Mitigated Calculations

	% Emissions	CO_2e (MT)	CO_2e (kg)	CO_2e (lbs)	kg CO2/gallo	Gallons	Mcf	MBTU	GWh
Gasoline	0.834345114	0	0	NA	8.89	0	NA	NA	NA
Diesel	0.155668952	0	0	NA	10.16	0	NA	NA	NA
Natural Gas	0.009985934	0	0	NA	NA	NA	0.00	0.00	NA

Operational Year 1 — 2022

Unmitigated Calculations

	% Emissions	CO_2e (MT)	CO_2e (kg)	CO_2e (lbs)	kg CO2/gallo	Gallons	Mcf	MBTU	GWh
Gasoline	0.834345114	1667.12308	1,667,123	NA	8.89	187,528	NA	NA	NA
Diesel	0.155668952	311.045512	311,046	NA	10.16	30,615	NA	NA	NA
Natural Gas	0.009985934	19.9531106	19,953	NA	NA	NA	375.62	389.15	NA

Mitigated Calculations

	% Emissions	CO_2e (MT)	CO_2e (kg)	CO_2e (lbs)	kg CO2/gallo	Gallons	Mcf	MBTU	GWh
Gasoline	0.834345114	1667.12308	1,667,123	NA	8.89	187,528	NA	NA	NA
Diesel	0.155668952	311.045512	311,046	NA	10.16	30,615	NA	NA	NA
Natural Gas	0.009985934	19.9531106	19,953	NA	NA	NA	375.62	389.15	NA

Emissions Percentage

	2021	2022
Gasoline	0.837591539	0.83434511
Diesel	0.153256872	0.15566895
Natural Gas	0.009151589	0.00998593

Conversion Factors:

1000	kg/MT		
8.89	kg CO_2/gallon gasoline	https://www.eia.gov/environment/emissions/co2_vol_mass.php	Feb. 2016
10.16	kg CO_2/gallon diesel	https://www.eia.gov/environment/emissions/co2_vol_mass.php	Feb. 2016
53.12	kg CO_2/ thousand cubic feet	https://www.eia.gov/environment/emissions/co2_vol_mass.php	Feb. 2016
1036	btu/cubic foot		
0.907185	MT/ton		
2000	lbs/ton		

Appendix F
GHG Emissions Appendix

ESA

F-1 Greenhouse Gas Emissions Worksheets

Mt. Etna Community Plan Amendment and Rezone Project
Unmitigated GHG Summary

CalEEMod 2016.3.2

Title: Mt. Etna Community Plan Amendment and Rezone Project - Statewide, Winter 7/29/2019

Mt. Etna Community Plan Amendment and Rezone Project - Statewide, Summer 7/29/2019

EMFAC2017 Crime Lab - EMFAC2017 Emissions and CalEEMod Input 8/5/2019

Unmitigated Construction Emissions - Max Annual

		lbs/day CO_2e				
		Onsite	**Hauling**	**Vendor**	**Worker**	**MT CO_2e**
Demolition	2021	25.68	54.64	0.00	0.79	81
Site Preparation	2021	57.47	6.95	0.00	1.39	66
Grading	2021	39.97	6.95	0.00	1.39	48
Drainage/Utilities/Trenching	2021	32.06	0.00	0.00	2.30	34
Foundations/ Concrete Pour	2021	20.94	7.95	0.00	6.67	36
Building Construction	2021	41.23	0.00	218.57	144.52	404
	2022	114.59				115
Architectural Coating	2021	4.77	0.00	0.00	38.11	43
	2022	36.14				36
Paving	2022	27.13	0.00	0.00	1.52	29
Max Project Total						892
Amortized						30

Mt. Etna Community Plan Amendment and Rezone Project

Total On-Road Emissions

Construction Phase	Daily One-Way Trips	Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Idling per Day (minutes)	Regional Emissions (MT/yr) Total CO2e
Demolition	2021					
Total Haul Trips	1639					
Hauling	110	15	8	20	15	54.64
Vendor	0	15	8	7.3	15	0.00
Worker	16	15	8	10.8	0	0.79
Site Preparation	2021					
Total Haul Trips	200					
Hauling	7	30	8	20	15	6.95
Vendor	0	30	8	7.3	15	0.00
Worker	14	30	8	10.8	0	1.39
Grading	2021					
Total Haul Trips	200					
Hauling	7	30	8	20	15	6.95
Vendor	0	30	8	7.3	15	0.00
Worker	14	30	8	10.8	0	1.39
Building Construction	2021					
Total Haul Trips	0					
Hauling	0	257	8	20	15	0.00
Vendor	79	257	8	7.3	15	218.57
Worker	170	257	8	10.8	0	144.52
Paving	2021					
Total Haul Trips	0					
Hauling	0	23	8	20	15	0.00
Vendor	0	23	8	7.3	15	0.00
Worker	20	23	8	10.8	0	1.52
Architectural Coating	2021					
Total Haul Trips	0					
Hauling	0	240	8	20	15	0.00
Vendor	0	240	8	7.3	15	0.00
Worker	48	240	8	10.8	0	38.11
Drainage/Utilities/Trench	2021					
Total Haul Trips	0					
Hauling	0	29	8	20	15	0.00
Vendor	0	29	8	7.3	15	0.00
Worker	24	29	8	10.8	0	2.30
Foundations/Concrete	2021					
Total Haul Trips	200					
Hauling	5	48	8	20	15	7.95
Vendor	0	48	8	7.3	15	0.00
Worker	42	48	8	10.8	0	6.67

Mt. Etna Community Plan Amendment and Rezone Project
Running Emissions

2021Hauling	Hauling
2021Vendor	Vendor
2021Worker	Worker

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)
Demolition	2021			
Total Haul Trips	1639			
Hauling	110	15	8	20
Vendor	0	15	8	7.3
Worker	16	15	8	10.8
Site Preparation	2021			
Total Haul Trips	200			
Hauling	7	30	8	20
Vendor	0	30	8	7.3
Worker	14	30	8	10.8
Grading	2021			
Total Haul Trips	200			
Hauling	7	30	8	20
Vendor	0	30	8	7.3
Worker	14	30	8	10.8
Building Construction	2021			
Total Haul Trips	0			
Hauling	0	257	8	20
Vendor	79	257	8	7.3
Worker	170	257	8	10.8
Paving	2021			
Total Haul Trips	0			
Hauling	0	23	8	20
Vendor	0	23	8	7.3
Worker	20	23	8	10.8
Architectural Coating	2021			
Total Haul Trips	0			
Hauling	0	240	8	20
Vendor	0	240	8	7.3
Worker	48	240	8	10.8
Drainage/Utilities/Trench	2021			
Total Haul Trips	0			
Hauling	0	29	8	20
Vendor	0	29	8	7.3
Worker	24	29	8	10.8
Foundations/Concrete	2021			
Total Haul Trips	200			
Hauling	5	48	8	20
Vendor	0	48	8	7.3
Worker	42	48	8	10.8

Mt. Etna Community Plan Amendment and Rezone Project
Running Emissions

		Running Emissions Factor (grams/mile)		
		CO2	CH4	N2O
2021Hauling	Hauling	1546.9631	0.0738889	0.2455704
2021Vendor	Vendor	1363.9486	0.0424745	0.1970464
2021Worker	Worker	304.23999	0.004311	0.0067033

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Regional Emissions (MT/year) CO2	CH4	N2O	CO2e
Demolition	2021							
Total Haul Trips	1639							
Hauling	110	15	8	20	51.05	0.06	2.35	53.46
Vendor	0	15	8	7.3	0.00	0.00	0.00	0.00
Worker	16	15	8	10.8	0.79	0.00	0.01	0.79
Site Preparation	2021							
Total Haul Trips	200							
Hauling	7	30	8	20	6.50	0.01	0.30	6.80
Vendor	0	30	8	7.3	0.00	0.00	0.00	0.00
Worker	14	30	8	10.8	1.38	0.00	0.01	1.39
Grading	2021							
Total Haul Trips	200							
Hauling	7	30	8	20	6.50	0.01	0.30	6.80
Vendor	0	30	8	7.3	0.00	0.00	0.00	0.00
Worker	14	30	8	10.8	1.38	0.00	0.01	1.39
Building Construction	2021							
Total Haul Trips	0							
Hauling	0	257	8	20	0.00	0.00	0.00	0.00
Vendor	79	257	8	7.3	202.15	0.16	8.47	210.78
Worker	170	257	8	10.8	143.56	0.05	0.92	144.52
Paving	2021							
Total Haul Trips	0							
Hauling	0	23	8	20	0.00	0.00	0.00	0.00
Vendor	0	23	8	7.3	0.00	0.00	0.00	0.00
Worker	20	23	8	10.8	1.51	0.00	0.01	1.52
Architectural Coating	2021							
Total Haul Trips	0							
Hauling	0	240	8	20	0.00	0.00	0.00	0.00
Vendor	0	240	8	7.3	0.00	0.00	0.00	0.00
Worker	48	240	8	10.8	37.85	0.01	0.24	38.11
Drainage/Utilities/Trench	2021							
Total Haul Trips	0							
Hauling	0	29	8	20	0.00	0.00	0.00	0.00
Vendor	0	29	8	7.3	0.00	0.00	0.00	0.00
Worker	24	29	8	10.8	2.29	0.00	0.01	2.30
Foundations/Concrete	2021							
Total Haul Trips	200							
Hauling	5	48	8	20	7.43	0.01	0.34	7.78
Vendor	0	48	8	7.3	0.00	0.00	0.00	0.00
Worker	42	48	8	10.8	6.62	0.00	0.04	6.67

Mt. Etna Community Plan Amendment and Rezone Project
Idling Emissions

		Idling Emissions Factor (grams/minute)		
		CO2	CH4	N2O
2021Hauling	Hauling	45.505716	0.0011209	0.0071906
2021Vendor	Vendor	24.456023	0.0006411	0.0038412
2021Worker	Worker	0	0	0

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	Idling minutes per Day (miles)	Regional Emissions (MT/year) CO2	CH4	N2O	CO2e
Demolition	2021							
Total Haul Trips	1639							
Hauling	110	15	8	15	1.13	0.00	0.05	1.18
Vendor	0	15	8	15	0.00	0.00	0.00	0.00
Worker	16	15	8	0	0.00	0.00	0.00	0.00
Site Preparation	2021							
Total Haul Trips	200							
Hauling	7	30	8	15	0.14	0.00	0.01	0.15
Vendor	0	30	8	15	0.00	0.00	0.00	0.00
Worker	14	30	8	0	0.00	0.00	0.00	0.00
Grading	2021							
Total Haul Trips	200							
Hauling	7	30	8	15	0.14	0.00	0.01	0.15
Vendor	0	30	8	15	0.00	0.00	0.00	0.00
Worker	14	30	8	0	0.00	0.00	0.00	0.00
Building Construction	2021							
Total Haul Trips	0							
Hauling	0	257	8	15	0.00	0.00	0.00	0.00
Vendor	79	257	8	15	7.45	0.00	0.34	7.79
Worker	170	257	8	0	0.00	0.00	0.00	0.00
Paving	2021							
Total Haul Trips	0							
Hauling	0	23	8	15	0.00	0.00	0.00	0.00
Vendor	0	23	8	15	0.00	0.00	0.00	0.00
Worker	20	23	8	0	0.00	0.00	0.00	0.00
Architectural Coating	2021							
Total Haul Trips	0							
Hauling	0	240	8	15	0.00	0.00	0.00	0.00
Vendor	0	240	8	15	0.00	0.00	0.00	0.00
Worker	48	240	8	0	0.00	0.00	0.00	0.00
Drainage/Utilities/Trench	2021							
Total Haul Trips	0							
Hauling	0	29	8	15	0.00	0.00	0.00	0.00
Vendor	0	29	8	15	0.00	0.00	0.00	0.00
Worker	24	29	8	0	0.00	0.00	0.00	0.00
Foundations/Concrete	2021							
Total Haul Trips	200							
Hauling	5	48	8	15	0.16	0.00	0.01	0.17
Vendor	0	48	8	15	0.00	0.00	0.00	0.00
Worker	42	48	8	0	0.00	0.00	0.00	0.00

Mt. Etna Community Plan Amendment and Rezone Project - Statewide , Annual

Mt. Etna Community Plan Amendment and Rezone Project

Statewide , Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.00	Space	0.00	0.00	0
Parking Lot	404.00	Space	1.21	161,600.00	0
Apartments Mid Rise	404.00	Dwelling Unit	2.88	404,000.00	1281

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	7			**Operational Year**	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adjusted windspeed andprecipation for SD APCD

Land Use - Acreage adjusted for site area

Construction Phase - Based on client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Off-road Equipment - Client given inputs

Trips and VMT - Based on truck size of 12 CY provided by client

Demolition -

Grading - Client given inputs

Architectural Coating - See construction assumptions

Energy Use -

Construction Off-road Equipment Mitigation - Tier 4 Final Mitigation

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	240.00
tblConstructionPhase	NumDays	230.00	48.00
tblConstructionPhase	NumDays	230.00	257.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	10.00	30.00
tblGrading	AcresOfGrading	15.00	4.00
tblGrading	AcresOfGrading	45.00	4.00
tblGrading	MaterialExported	0.00	1,200.00
tblGrading	MaterialExported	0.00	1,200.00

tblLandUse	LotAcreage	3.64	1.21
tblLandUse	LotAcreage	10.63	2.88
tblLandUse	Population	1,155.00	1,281.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	PrecipitationFrequency	54	40
tblProjectCharacteristics	WindSpeed	2.2	2.6
tblTripsAndVMT	HaulingTripNumber	487.00	1,639.00
tblTripsAndVMT	HaulingTripNumber	150.00	200.00
tblTripsAndVMT	HaulingTripNumber	150.00	200.00
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	HaulingVehicleClass	HHDT	HDT_Mix
tblTripsAndVMT	VendorTripNumber	93.00	0.00

tblTripsAndVMT	VendorTripNumber	93.00	79.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	18.00	14.00
tblTripsAndVMT	WorkerTripNumber	30.00	14.00
tblTripsAndVMT	WorkerTripNumber	25.00	24.00
tblTripsAndVMT	WorkerTripNumber	418.00	42.00
tblTripsAndVMT	WorkerTripNumber	418.00	170.00
tblTripsAndVMT	WorkerTripNumber	84.00	48.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.9665	2.2633	1.6669	4.7800e-003	0.1618	0.0834	0.2452	0.0368	0.0782	0.1151	0.0000	431.4940	431.4940	0.0672	0.0000	433.1731
2022	5.9064	1.9952	1.8140	5.6400e-003	0.2211	0.0673	0.2884	0.0599	0.0639	0.1237	0.0000	513.6509	513.6509	0.0523	0.0000	514.9587
Maximum	**5.9064**	**2.2633**	**1.8140**	**5.6400e-003**	**0.2211**	**0.0834**	**0.2884**	**0.0599**	**0.0782**	**0.1237**	**0.0000**	**513.6509**	**513.6509**	**0.0672**	**0.0000**	**514.9587**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.8255	0.7440	1.7941	4.7800e-003	0.1266	5.8400e-003	0.1324	0.0316	5.7400e-003	0.0373	0.0000	431.4938	431.4938	0.0672	0.0000	433.1729
2022	5.7963	1.0120	1.9193	5.6400e-003	0.2211	5.8100e-003	0.2269	0.0599	5.6500e-003	0.0655	0.0000	513.6507	513.6507	0.0523	0.0000	514.9585
Maximum	**5.7963**	**1.0120**	**1.9193**	**5.6400e-003**	**0.2211**	**5.8400e-003**	**0.2269**	**0.0599**	**5.7400e-003**	**0.0655**	**0.0000**	**513.6507**	**513.6507**	**0.0672**	**0.0000**	**514.9585**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	3.65	58.77	-6.68	0.00	9.20	92.27	32.66	5.40	91.98	56.92	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2021	5-31-2021	1.2211	0.3383
2	6-1-2021	8-31-2021	0.4298	0.0595
3	9-1-2021	11-30-2021	0.6734	0.4113
4	12-1-2021	2-28-2022	2.4249	2.0986
5	3-1-2022	5-31-2022	2.4527	2.1360
6	6-1-2022	8-31-2022	2.4513	2.1346
7	9-1-2022	9-30-2022	0.7952	0.6741
		Highest	2.4527	2.1360

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/21/2021	5	15	
2	Site Preparation	Site Preparation	3/22/2021	4/30/2021	5	30	
3	Grading	Grading	5/1/2021	6/11/2021	5	30	
4	Drainage/Utilities/Trenching	Trenching	6/12/2021	7/22/2021	5	29	
5	Foundations/Concrete Pour	Building Construction	7/23/2021	9/28/2021	5	48	
6	Building Construction	Building Construction	9/29/2021	9/22/2022	5	257	
7	Architectural Coating	Architectural Coating	11/24/2021	10/25/2022	5	240	
8	Paving	Paving	9/23/2022	10/25/2022	5	23	

Acres of Grading (Site Preparation Phase): 4

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.21

Residential Indoor: 818,100; Residential Outdoor: 272,700; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rollers	1	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Dumpers/Tenders	4	8.00	16	0.38
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	2	8.00	8	0.43
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Drainage/Utilities/Trenching	Air Compressors	1	8.00	78	0.48
Drainage/Utilities/Trenching	Dumpers/Tenders	2	8.00	16	0.38
Drainage/Utilities/Trenching	Excavators	1	8.00	158	0.38
Drainage/Utilities/Trenching	Forklifts	1	8.00	89	0.20
Drainage/Utilities/Trenching	Plate Compactors	2	8.00	8	0.43
Drainage/Utilities/Trenching	Rubber Tired Loaders	1	8.00	203	0.36
Drainage/Utilities/Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Foundations/Concrete Pour	Cranes	0	7.00	231	0.29
Foundations/Concrete Pour	Forklifts	0	8.00	89	0.20

Foundations/Concrete Pour	Generator Sets	0	8.00	84	0.74
Foundations/Concrete Pour	Plate Compactors	1	8.00	8	0.43
Foundations/Concrete Pour	Pumps	1	8.00	84	0.74
Foundations/Concrete Pour	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Foundations/Concrete Pour	Welders	0	8.00	46	0.45
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Sweepers/Scrubbers	1	8.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	1,639.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	14.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	12	14.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Drainage/Utilities/Trenching	10	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundations/Concrete Pour	3	42.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HDT_Mix
Building Construction	4	170.00	79.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0533	0.0000	0.0533	8.0700e-003	0.0000	8.0700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.2358	0.1617	2.9000e-004		0.0116	0.0116		0.0108	0.0108	0.0000	25.5006	25.5006	7.1800e-003	0.0000	25.6800
Total	**0.0237**	**0.2358**	**0.1617**	**2.9000e-004**	**0.0533**	**0.0116**	**0.0650**	**8.0700e-003**	**0.0108**	**0.0189**	**0.0000**	**25.5006**	**25.5006**	**7.1800e-003**	**0.0000**	**25.6800**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.9600e-003	0.2096	0.0392	6.4000e-004	0.0140	6.7000e-004	0.0147	3.8600e-003	6.4000e-004	4.4900e-003	0.0000	61.4422	61.4422	3.2300e-003	0.0000	61.5229
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	3.0000e-004	3.2200e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8312	0.8312	2.0000e-005	0.0000	0.8318
Total	**6.3900e-003**	**0.2099**	**0.0424**	**6.5000e-004**	**0.0150**	**6.8000e-004**	**0.0157**	**4.1200e-003**	**6.5000e-004**	**4.7500e-003**	**0.0000**	**62.2734**	**62.2734**	**3.2500e-003**	**0.0000**	**62.3547**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0208	0.0000	0.0208	3.1500e-003	0.0000	3.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4700e-003	0.0150	0.1746	2.9000e-004		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	25.5006	25.5006	7.1800e-003	0.0000	25.6800
Total	**3.4700e-003**	**0.0150**	**0.1746**	**2.9000e-004**	**0.0208**	**4.6000e-004**	**0.0213**	**3.1500e-003**	**4.6000e-004**	**3.6100e-003**	**0.0000**	**25.5006**	**25.5006**	**7.1800e-003**	**0.0000**	**25.6800**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.9600e-003	0.2096	0.0392	6.4000e-004	0.0140	6.7000e-004	0.0147	3.8600e-003	6.4000e-004	4.4900e-003	0.0000	61.4422	61.4422	3.2300e-003	0.0000	61.5229
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	3.0000e-004	3.2200e-003	1.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8312	0.8312	2.0000e-005	0.0000	0.8318
Total	**6.3900e-003**	**0.2099**	**0.0424**	**6.5000e-004**	**0.0150**	**6.8000e-004**	**0.0157**	**4.1200e-003**	**6.5000e-004**	**4.7500e-003**	**0.0000**	**62.2734**	**62.2734**	**3.2500e-003**	**0.0000**	**62.3547**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2100e-003	0.0000	2.2100e-003	2.4000e-004	0.0000	2.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0397	0.4406	0.3068	6.5000e-004		0.0186	0.0186		0.0173	0.0173	0.0000	57.0675	57.0675	0.0162	0.0000	57.4712
Total	**0.0397**	**0.4406**	**0.3068**	**6.5000e-004**	**2.2100e-003**	**0.0186**	**0.0208**	**2.4000e-004**	**0.0173**	**0.0176**	**0.0000**	**57.0675**	**57.0675**	**0.0162**	**0.0000**	**57.4712**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.3000e-004	0.0256	4.7800e-003	8.0000e-005	1.7100e-003	8.0000e-005	1.7900e-003	4.7000e-004	8.0000e-005	5.5000e-004	0.0000	7.4975	7.4975	3.9000e-004	0.0000	7.5074
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.3000e-004	5.6300e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.4546	1.4546	4.0000e-005	0.0000	1.4557
Total	**1.4800e-003**	**0.0261**	**0.0104**	**1.0000e-004**	**3.3900e-003**	**9.0000e-005**	**3.4900e-003**	**9.2000e-004**	**9.0000e-005**	**1.0100e-003**	**0.0000**	**8.9522**	**8.9522**	**4.3000e-004**	**0.0000**	**8.9630**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.6000e-004	0.0000	8.6000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7800e-003	0.0337	0.3506	6.5000e-004		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	57.0675	57.0675	0.0162	0.0000	57.4712
Total	**7.7800e-003**	**0.0337**	**0.3506**	**6.5000e-004**	**8.6000e-004**	**1.0400e-003**	**1.9000e-003**	**9.0000e-005**	**1.0400e-003**	**1.1300e-003**	**0.0000**	**57.0675**	**57.0675**	**0.0162**	**0.0000**	**57.4712**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.3000e-004	0.0256	4.7800e-003	8.0000e-005	1.7100e-003	8.0000e-005	1.7900e-003	4.7000e-004	8.0000e-005	5.5000e-004	0.0000	7.4975	7.4975	3.9000e-004	0.0000	7.5074
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.3000e-004	5.6300e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.4546	1.4546	4.0000e-005	0.0000	1.4557
Total	**1.4800e-003**	**0.0261**	**0.0104**	**1.0000e-004**	**3.3900e-003**	**9.0000e-005**	**3.4900e-003**	**9.2000e-004**	**9.0000e-005**	**1.0100e-003**	**0.0000**	**8.9522**	**8.9522**	**4.3000e-004**	**0.0000**	**8.9630**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2100e-003	0.0000	2.2100e-003	2.4000e-004	0.0000	2.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0295	0.3003	0.2169	4.6000e-004		0.0128	0.0128		0.0119	0.0119	0.0000	39.6763	39.6763	0.0119	0.0000	39.9741
Total	**0.0295**	**0.3003**	**0.2169**	**4.6000e-004**	**2.2100e-003**	**0.0128**	**0.0150**	**2.4000e-004**	**0.0119**	**0.0121**	**0.0000**	**39.6763**	**39.6763**	**0.0119**	**0.0000**	**39.9741**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.3000e-004	0.0256	4.7800e-003	8.0000e-005	1.7100e-003	8.0000e-005	1.7900e-003	4.7000e-004	8.0000e-005	5.5000e-004	0.0000	7.4975	7.4975	3.9000e-004	0.0000	7.5074
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.3000e-004	5.6300e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.4546	1.4546	4.0000e-005	0.0000	1.4557
Total	**1.4800e-003**	**0.0261**	**0.0104**	**1.0000e-004**	**3.3900e-003**	**9.0000e-005**	**3.4900e-003**	**9.2000e-004**	**9.0000e-005**	**1.0100e-003**	**0.0000**	**8.9522**	**8.9522**	**4.3000e-004**	**0.0000**	**8.9630**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.6000e-004	0.0000	8.6000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9500e-003	0.0215	0.2460	4.6000e-004		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	39.6763	39.6763	0.0119	0.0000	39.9740
Total	**4.9500e-003**	**0.0215**	**0.2460**	**4.6000e-004**	**8.6000e-004**	**6.6000e-004**	**1.5200e-003**	**9.0000e-005**	**6.6000e-004**	**7.5000e-004**	**0.0000**	**39.6763**	**39.6763**	**0.0119**	**0.0000**	**39.9740**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.3000e-004	0.0256	4.7800e-003	8.0000e-005	1.7100e-003	8.0000e-005	1.7900e-003	4.7000e-004	8.0000e-005	5.5000e-004	0.0000	7.4975	7.4975	3.9000e-004	0.0000	7.5074
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	5.3000e-004	5.6300e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.4546	1.4546	4.0000e-005	0.0000	1.4557
Total	**1.4800e-003**	**0.0261**	**0.0104**	**1.0000e-004**	**3.3900e-003**	**9.0000e-005**	**3.4900e-003**	**9.2000e-004**	**9.0000e-005**	**1.0100e-003**	**0.0000**	**8.9522**	**8.9522**	**4.3000e-004**	**0.0000**	**8.9630**

3.5 Drainage/Utilities/Trenching - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0231	0.2096	0.2016	3.7000e-004		0.0105	0.0105		9.8200e-003	9.8200e-003	0.0000	31.8509	31.8509	8.5000e-003	0.0000	32.0634
Total	**0.0231**	**0.2096**	**0.2016**	**3.7000e-004**		**0.0105**	**0.0105**		**9.8200e-003**	**9.8200e-003**	**0.0000**	**31.8509**	**31.8509**	**8.5000e-003**	**0.0000**	**32.0634**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	8.8000e-004	9.3300e-003	3.0000e-005	2.7900e-003	2.0000e-005	2.8100e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.4106	2.4106	7.0000e-005	0.0000	2.4123
Total	**1.2400e-003**	**8.8000e-004**	**9.3300e-003**	**3.0000e-005**	**2.7900e-003**	**2.0000e-005**	**2.8100e-003**	**7.4000e-004**	**2.0000e-005**	**7.6000e-004**	**0.0000**	**2.4106**	**2.4106**	**7.0000e-005**	**0.0000**	**2.4123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9900e-003	0.0173	0.2181	3.7000e-004		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	31.8509	31.8509	8.5000e-003	0.0000	32.0633
Total	**3.9900e-003**	**0.0173**	**0.2181**	**3.7000e-004**		**5.3000e-004**	**5.3000e-004**		**5.3000e-004**	**5.3000e-004**	**0.0000**	**31.8509**	**31.8509**	**8.5000e-003**	**0.0000**	**32.0633**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	8.8000e-004	9.3300e-003	3.0000e-005	2.7900e-003	2.0000e-005	2.8100e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.4106	2.4106	7.0000e-005	0.0000	2.4123
Total	**1.2400e-003**	**8.8000e-004**	**9.3300e-003**	**3.0000e-005**	**2.7900e-003**	**2.0000e-005**	**2.8100e-003**	**7.4000e-004**	**2.0000e-005**	**7.6000e-004**	**0.0000**	**2.4106**	**2.4106**	**7.0000e-005**	**0.0000**	**2.4123**

3.6 Foundations/Concrete Pour - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0146	0.1286	0.1491	2.4000e-004		7.1800e-003	7.1800e-003		6.9600e-003	6.9600e-003	0.0000	20.8670	20.8670	2.9400e-003	0.0000	20.9405
Total	**0.0146**	**0.1286**	**0.1491**	**2.4000e-004**		**7.1800e-003**	**7.1800e-003**		**6.9600e-003**	**6.9600e-003**	**0.0000**	**20.8670**	**20.8670**	**2.9400e-003**	**0.0000**	**20.9405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-004	0.0174	4.1300e-003	6.0000e-005	1.8100e-003	6.0000e-005	1.8700e-003	5.2000e-004	6.0000e-005	5.8000e-004	0.0000	6.1245	6.1245	2.2000e-004	0.0000	6.1299
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5800e-003	2.5500e-003	0.0270	8.0000e-005	8.0800e-003	6.0000e-005	8.1400e-003	2.1500e-003	5.0000e-005	2.2000e-003	0.0000	6.9823	6.9823	2.0000e-004	0.0000	6.9872
Total	**4.1800e-003**	**0.0199**	**0.0312**	**1.4000e-004**	**9.8900e-003**	**1.2000e-004**	**0.0100**	**2.6700e-003**	**1.1000e-004**	**2.7800e-003**	**0.0000**	**13.1068**	**13.1068**	**4.2000e-004**	**0.0000**	**13.1172**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.4900e-003	0.0108	0.1536	2.4000e-004		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	20.8670	20.8670	2.9400e-003	0.0000	20.9404
Total	**2.4900e-003**	**0.0108**	**0.1536**	**2.4000e-004**		**3.3000e-004**	**3.3000e-004**		**3.3000e-004**	**3.3000e-004**	**0.0000**	**20.8670**	**20.8670**	**2.9400e-003**	**0.0000**	**20.9404**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-004	0.0174	4.1300e-003	6.0000e-005	1.8100e-003	6.0000e-005	1.8700e-003	5.2000e-004	6.0000e-005	5.8000e-004	0.0000	6.1245	6.1245	2.2000e-004	0.0000	6.1299
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5800e-003	2.5500e-003	0.0270	8.0000e-005	8.0800e-003	6.0000e-005	8.1400e-003	2.1500e-003	5.0000e-005	2.2000e-003	0.0000	6.9823	6.9823	2.0000e-004	0.0000	6.9872
Total	**4.1800e-003**	**0.0199**	**0.0312**	**1.4000e-004**	**9.8900e-003**	**1.2000e-004**	**0.0100**	**2.6700e-003**	**1.1000e-004**	**2.7800e-003**	**0.0000**	**13.1068**	**13.1068**	**4.2000e-004**	**0.0000**	**13.1172**

3.7 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0361	0.3441	0.2559	4.7000e-004		0.0190	0.0190		0.0178	0.0178	0.0000	40.9677	40.9677	0.0103	0.0000	41.2252
Total	**0.0361**	**0.3441**	**0.2559**	**4.7000e-004**		**0.0190**	**0.0190**		**0.0178**	**0.0178**	**0.0000**	**40.9677**	**40.9677**	**0.0103**	**0.0000**	**41.2252**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.4000e-003	0.2766	0.0642	7.3000e-004	0.0178	6.4000e-004	0.0185	5.1500e-003	6.1000e-004	5.7600e-003	0.0000	70.4107	70.4107	4.0000e-003	0.0000	70.5107
Worker	0.0205	0.0146	0.1550	4.4000e-004	0.0464	3.4000e-004	0.0467	0.0123	3.1000e-004	0.0126	0.0000	40.0373	40.0373	1.1300e-003	0.0000	40.0655
Total	**0.0289**	**0.2912**	**0.2192**	**1.1700e-003**	**0.0642**	**9.8000e-004**	**0.0652**	**0.0175**	**9.2000e-004**	**0.0184**	**0.0000**	**110.4479**	**110.4479**	**5.1300e-003**	**0.0000**	**110.5762**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5200e-003	0.0674	0.2763	4.7000e-004		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	40.9676	40.9676	0.0103	0.0000	41.2252
Total	**6.5200e-003**	**0.0674**	**0.2763**	**4.7000e-004**		**7.3000e-004**	**7.3000e-004**		**7.3000e-004**	**7.3000e-004**	**0.0000**	**40.9676**	**40.9676**	**0.0103**	**0.0000**	**41.2252**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.4000e-003	0.2766	0.0642	7.3000e-004	0.0178	6.4000e-004	0.0185	5.1500e-003	6.1000e-004	5.7600e-003	0.0000	70.4107	70.4107	4.0000e-003	0.0000	70.5107
Worker	0.0205	0.0146	0.1550	4.4000e-004	0.0464	3.4000e-004	0.0467	0.0123	3.1000e-004	0.0126	0.0000	40.0373	40.0373	1.1300e-003	0.0000	40.0655
Total	**0.0289**	**0.2912**	**0.2192**	**1.1700e-003**	**0.0642**	**9.8000e-004**	**0.0652**	**0.0175**	**9.2000e-004**	**0.0184**	**0.0000**	**110.4479**	**110.4479**	**5.1300e-003**	**0.0000**	**110.5762**

3.7 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0900	0.8429	0.6975	1.3000e-003		0.0447	0.0447		0.0420	0.0420	0.0000	113.8739	113.8739	0.0285	0.0000	114.5869
Total	**0.0900**	**0.8429**	**0.6975**	**1.3000e-003**		**0.0447**	**0.0447**		**0.0420**	**0.0420**	**0.0000**	**113.8739**	**113.8739**	**0.0285**	**0.0000**	**114.5869**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0218	0.7272	0.1663	2.0200e-003	0.0496	1.5400e-003	0.0511	0.0143	1.4700e-003	0.0158	0.0000	193.9401	193.9401	0.0106	0.0000	194.2058
Worker	0.0534	0.0365	0.3952	1.1900e-003	0.1288	9.1000e-004	0.1297	0.0342	8.4000e-004	0.0351	0.0000	107.2805	107.2805	2.8200e-003	0.0000	107.3511
Total	**0.0751**	**0.7638**	**0.5615**	**3.2100e-003**	**0.1784**	**2.4500e-003**	**0.1809**	**0.0485**	**2.3100e-003**	**0.0509**	**0.0000**	**301.2206**	**301.2206**	**0.0135**	**0.0000**	**301.5569**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0181	0.1874	0.7678	1.3000e-003		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	113.8738	113.8738	0.0285	0.0000	114.5868
Total	**0.0181**	**0.1874**	**0.7678**	**1.3000e-003**		**2.0200e-003**	**2.0200e-003**		**2.0200e-003**	**2.0200e-003**	**0.0000**	**113.8738**	**113.8738**	**0.0285**	**0.0000**	**114.5868**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0218	0.7272	0.1663	2.0200e-003	0.0496	1.5400e-003	0.0511	0.0143	1.4700e-003	0.0158	0.0000	193.9401	193.9401	0.0106	0.0000	194.2058
Worker	0.0534	0.0365	0.3952	1.1900e-003	0.1288	9.1000e-004	0.1297	0.0342	8.4000e-004	0.0351	0.0000	107.2805	107.2805	2.8200e-003	0.0000	107.3511
Total	**0.0751**	**0.7638**	**0.5615**	**3.2100e-003**	**0.1784**	**2.4500e-003**	**0.1809**	**0.0485**	**2.3100e-003**	**0.0509**	**0.0000**	**301.2206**	**301.2206**	**0.0135**	**0.0000**	**301.5569**

3.8 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7496					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0900e-003	0.0285	0.0339	6.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	4.7661	4.7661	3.3000e-004	0.0000	4.7743
Total	**0.7537**	**0.0285**	**0.0339**	**6.0000e-005**		**1.7600e-003**	**1.7600e-003**		**1.7600e-003**	**1.7600e-003**	**0.0000**	**4.7661**	**4.7661**	**3.3000e-004**	**0.0000**	**4.7743**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3900e-003	1.7000e-003	0.0180	5.0000e-005	5.3900e-003	4.0000e-005	5.4300e-003	1.4300e-003	4.0000e-005	1.4700e-003	0.0000	4.6549	4.6549	1.3000e-004	0.0000	4.6581
Total	**2.3900e-003**	**1.7000e-003**	**0.0180**	**5.0000e-005**	**5.3900e-003**	**4.0000e-005**	**5.4300e-003**	**1.4300e-003**	**4.0000e-005**	**1.4700e-003**	**0.0000**	**4.6549**	**4.6549**	**1.3000e-004**	**0.0000**	**4.6581**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7496					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	2.4000e-003	0.0342	6.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.7661	4.7661	3.3000e-004	0.0000	4.7742
Total	**0.7502**	**2.4000e-003**	**0.0342**	**6.0000e-005**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**4.7661**	**4.7661**	**3.3000e-004**	**0.0000**	**4.7742**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3900e-003	1.7000e-003	0.0180	5.0000e-005	5.3900e-003	4.0000e-005	5.4300e-003	1.4300e-003	4.0000e-005	1.4700e-003	0.0000	4.6549	4.6549	1.3000e-004	0.0000	4.6581
Total	**2.3900e-003**	**1.7000e-003**	**0.0180**	**5.0000e-005**	**5.3900e-003**	**4.0000e-005**	**5.4300e-003**	**1.4300e-003**	**4.0000e-005**	**1.4700e-003**	**0.0000**	**4.6549**	**4.6549**	**1.3000e-004**	**0.0000**	**4.6581**

3.8 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6756					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0289	0.1991	0.2563	4.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	36.0860	36.0860	2.3500e-003	0.0000	36.1447
Total	**5.7045**	**0.1991**	**0.2563**	**4.2000e-004**		**0.0116**	**0.0116**		**0.0116**	**0.0116**	**0.0000**	**36.0860**	**36.0860**	**2.3500e-003**	**0.0000**	**36.1447**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0169	0.0116	0.1252	3.8000e-004	0.0408	2.9000e-004	0.0411	0.0108	2.7000e-004	0.0111	0.0000	33.9772	33.9772	8.9000e-004	0.0000	33.9995
Total	**0.0169**	**0.0116**	**0.1252**	**3.8000e-004**	**0.0408**	**2.9000e-004**	**0.0411**	**0.0108**	**2.7000e-004**	**0.0111**	**0.0000**	**33.9772**	**33.9772**	**8.9000e-004**	**0.0000**	**33.9995**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6756					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2000e-003	0.0182	0.2590	4.2000e-004		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	36.0859	36.0859	2.3500e-003	0.0000	36.1447
Total	**5.6798**	**0.0182**	**0.2590**	**4.2000e-004**		**5.6000e-004**	**5.6000e-004**		**5.6000e-004**	**5.6000e-004**	**0.0000**	**36.0859**	**36.0859**	**2.3500e-003**	**0.0000**	**36.1447**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0169	0.0116	0.1252	3.8000e-004	0.0408	2.9000e-004	0.0411	0.0108	2.7000e-004	0.0111	0.0000	33.9772	33.9772	8.9000e-004	0.0000	33.9995
Total	**0.0169**	**0.0116**	**0.1252**	**3.8000e-004**	**0.0408**	**2.9000e-004**	**0.0411**	**0.0108**	**2.7000e-004**	**0.0111**	**0.0000**	**33.9772**	**33.9772**	**8.9000e-004**	**0.0000**	**33.9995**

3.9 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0175	0.1774	0.1678	3.1000e-004		8.3000e-003	8.3000e-003		7.7800e-003	7.7800e-003	0.0000	26.9574	26.9574	7.0600e-003	0.0000	27.1338
Paving	1.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0190**	**0.1774**	**0.1678**	**3.1000e-004**		**8.3000e-003**	**8.3000e-003**		**7.7800e-003**	**7.7800e-003**	**0.0000**	**26.9574**	**26.9574**	**7.0600e-003**	**0.0000**	**27.1338**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	5.2000e-004	5.6600e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5359	1.5359	4.0000e-005	0.0000	1.5369
Total	**7.6000e-004**	**5.2000e-004**	**5.6600e-003**	**2.0000e-005**	**1.8400e-003**	**1.0000e-005**	**1.8600e-003**	**4.9000e-004**	**1.0000e-005**	**5.0000e-004**	**0.0000**	**1.5359**	**1.5359**	**4.0000e-005**	**0.0000**	**1.5369**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9800e-003	0.0305	0.2001	3.1000e-004		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	26.9574	26.9574	7.0600e-003	0.0000	27.1338
Paving	1.5900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.5700e-003**	**0.0305**	**0.2001**	**3.1000e-004**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**26.9574**	**26.9574**	**7.0600e-003**	**0.0000**	**27.1338**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	5.2000e-004	5.6600e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8600e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5359	1.5359	4.0000e-005	0.0000	1.5369
Total	**7.6000e-004**	**5.2000e-004**	**5.6600e-003**	**2.0000e-005**	**1.8400e-003**	**1.0000e-005**	**1.8600e-003**	**4.9000e-004**	**1.0000e-005**	**5.0000e-004**	**0.0000**	**1.5359**	**1.5359**	**4.0000e-005**	**0.0000**	**1.5369**

Mt. Etna Community Plan Amendment and Rezone Project

Operational GHG Emissions Summary

Category	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	MT/yr					
Area	0	4.9073	4.9073	4.75E-03	0	5.0259
Energy	0	964.2742	964.2742	0.0317	0.0114	968.4641
Mobile	0	1,994.50	1,994.50	0.1447	0	1,998.12
Waste	37.7238	0	37.7238	2.2294	0	93.4592
Water	8.3508	118.8957	127.2465	0.8625	0.0212	155.1392
Total	**46.0747**	**3,082.58**	**3,128.66**	**3.2731**	**0.0326**	**3,220.21**

Mt. Etna Community Plan Amendment and Rezone Project

Statewide , Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	0.00	Space	0.00	0.00	0
Parking Lot	404.00	Space	1.21	161,600.00	0
Apartments Mid Rise	404.00	Dwelling Unit	2.88	404,000.00	1281

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	7			**Operational Year**	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Changed for SD County

Land Use - Client given inputs

Vehicle Trips - Taken from TIA prepared by Chen+Ryan

Vehicle Emission Factors - EMFAC2017 Factors

Woodstoves - No wood fireplaces

Area Coating -

Energy Use -

Area Mitigation -

Water Mitigation -

Waste Mitigation - Based on SD Zero Waste Plan goal of 75% diversion by 2020

https://www.sandiego.gov/sites/default/files/legacy/mayor/pdf/2015/ZeroWastePlan.pdf

Fleet Mix - EMFAC2017 fleet mix

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3175	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259
Energy	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	964.2742	964.2742	0.0317	0.0114	968.4641
Mobile	1.3823	1.3774	10.5167	0.0216	2.1560	0.0192	2.1752	0.5755	0.0180	0.5934	0.0000	1,994.5034	1,994.5034	0.1447	0.0000	1,998.1217
Waste						0.0000	0.0000		0.0000	0.0000	37.7238	0.0000	37.7238	2.2294	0.0000	93.4592
Water						0.0000	0.0000		0.0000	0.0000	8.3508	118.8957	127.2465	0.8625	0.0212	155.1392
Total	**3.7339**	**1.7029**	**13.6471**	**0.0236**	**2.1560**	**0.0593**	**2.2153**	**0.5755**	**0.0581**	**0.6336**	**46.0747**	**3,082.5806**	**3,128.6552**	**3.2731**	**0.0326**	**3,220.2100**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.3175	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259
Energy	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	964.2742	964.2742	0.0317	0.0114	968.4641
Mobile	1.3823	1.3774	10.5167	0.0216	2.1560	0.0192	2.1752	0.5755	0.0180	0.5934	0.0000	1,994.5034	1,994.5034	0.1447	0.0000	1,998.1217
Waste						0.0000	0.0000		0.0000	0.0000	9.4310	0.0000	9.4310	0.5574	0.0000	23.3648
Water						0.0000	0.0000		0.0000	0.0000	6.6807	100.6232	107.3039	0.6902	0.0170	129.6372
Total	**3.7339**	**1.7029**	**13.6471**	**0.0236**	**2.1560**	**0.0593**	**2.2153**	**0.5755**	**0.0581**	**0.6336**	**16.1116**	**3,064.3081**	**3,080.4198**	**1.4288**	**0.0284**	**3,124.6137**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**65.03**	**0.59**	**1.54**	**56.35**	**12.87**	**2.97**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3823	1.3774	10.5167	0.0216	2.1560	0.0192	2.1752	0.5755	0.0180	0.5934	0.0000	1,994.5034	1,994.5034	0.1447	0.0000	1,998.1217
Unmitigated	1.3823	1.3774	10.5167	0.0216	2.1560	0.0192	2.1752	0.5755	0.0180	0.5934	0.0000	1,994.5034	1,994.5034	0.1447	0.0000	1,998.1217

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,020.00	2,020.00	2020.00	5,762,753	5,762,753
Enclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	2,020.00	2,020.00	2,020.00	5,762,753	5,762,753

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.40	19.30	39.30	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388
Enclosed Parking with Elevator	0.552843	0.039396	0.193030	0.116235	0.017695	0.005634	0.019549	0.044452	0.002104	0.001859	0.005467	0.000816	0.000920
Parking Lot	0.552843	0.039396	0.193030	0.116235	0.017695	0.005634	0.019549	0.044452	0.002104	0.001859	0.005467	0.000816	0.000920

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	627.5448	627.5448	0.0253	5.2300e-003	629.7336
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	627.5448	627.5448	0.0253	5.2300e-003	629.7336
NaturalGas Mitigated	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	336.7295	336.7295	6.4500e-003	6.1700e-003	338.7305
NaturalGas Unmitigated	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	336.7295	336.7295	6.4500e-003	6.1700e-003	338.7305

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	6.31007e+006	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	336.7295	336.7295	6.4500e-003	6.1700e-003	338.7305
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0340**	**0.2908**	**0.1237**	**1.8600e-003**		**0.0235**	**0.0235**		**0.0235**	**0.0235**	**0.0000**	**336.7295**	**336.7295**	**6.4500e-003**	**6.1700e-003**	**338.7305**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	6.31007e+006	0.0340	0.2908	0.1237	1.8600e-003		0.0235	0.0235		0.0235	0.0235	0.0000	336.7295	336.7295	6.4500e-003	6.1700e-003	338.7305
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0340**	**0.2908**	**0.1237**	**1.8600e-003**		**0.0235**	**0.0235**		**0.0235**	**0.0235**	**0.0000**	**336.7295**	**336.7295**	**6.4500e-003**	**6.1700e-003**	**338.7305**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.86366e+006	609.0605	0.0245	5.0700e-003	611.1848
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	56560	18.4843	7.4000e-004	1.5000e-004	18.5488
Total		**627.5448**	**0.0253**	**5.2200e-003**	**629.7336**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.86366e+006	609.0605	0.0245	5.0700e-003	611.1848
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	56560	18.4843	7.4000e-004	1.5000e-004	18.5488
Total		**627.5448**	**0.0253**	**5.2200e-003**	**629.7336**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3175	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259
Unmitigated	2.3175	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5883					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0911	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259
Total	**2.3175**	**0.0347**	**3.0067**	**1.6000e-004**		**0.0166**	**0.0166**		**0.0166**	**0.0166**	**0.0000**	**4.9073**	**4.9073**	**4.7500e-003**	**0.0000**	**5.0259**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5883					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0911	0.0347	3.0067	1.6000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	4.9073	4.9073	4.7500e-003	0.0000	5.0259
Total	**2.3175**	**0.0347**	**3.0067**	**1.6000e-004**		**0.0166**	**0.0166**		**0.0166**	**0.0166**	**0.0000**	**4.9073**	**4.9073**	**4.7500e-003**	**0.0000**	**5.0259**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	107.3039	0.6902	0.0170	129.6372
Unmitigated	127.2465	0.8625	0.0212	155.1392

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	26.3222 / 16.5944	127.2465	0.8625	0.0212	155.1392
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**127.2465**	**0.8625**	**0.0212**	**155.1392**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	21.0578 / 15.5822	107.3039	0.6902	0.0170	129.6372
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**107.3039**	**0.6902**	**0.0170**	**129.6372**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.4310	0.5574	0.0000	23.3648
Unmitigated	37.7238	2.2294	0.0000	93.4592

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	185.84	37.7238	2.2294	0.0000	93.4592
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**37.7238**	**2.2294**	**0.0000**	**93.4592**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	46.46	9.4310	0.5574	0.0000	23.3648
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**9.4310**	**0.5574**	**0.0000**	**23.3648**

F-2 CAP Checklist

CLIMATE ACTION PLAN CONSISTENCY CHECKLIST INTRODUCTION

In December 2015, the City adopted a Climate Action Plan (CAP) that outlines the actions that City will undertake to achieve its proportional share of State greenhouse gas (GHG) emission reductions. The purpose of the Climate Action Plan Consistency Checklist (Checklist) is to, in conjunction with the CAP, provide a streamlined review process for proposed new development projects that are subject to discretionary review and trigger environmental review pursuant to the California Environmental Quality Act (CEQA).[1]

Analysis of GHG emissions and potential climate change impacts from new development is required under CEQA. The CAP is a plan for the reduction of GHG emissions in accordance with CEQA Guidelines Section 15183.5. Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project's incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of the CAP.

This Checklist is part of the CAP and contains measures that are required to be implemented on a project-by-project basis to ensure that the specified emissions targets identified in the CAP are achieved. Implementation of these measures would ensure that new development is consistent with the CAP's assumptions for relevant CAP strategies toward achieving the identified GHG reduction targets. Projects that are consistent with the CAP as determined through the use of this Checklist may rely on the CAP for the cumulative impacts analysis of GHG emissions. Projects that are not consistent with the CAP must prepare a comprehensive project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions and incorporation of the measures in this Checklist to the extent feasible. Cumulative GHG impacts would be significant for any project that is not consistent with the CAP.

The Checklist may be updated to incorporate new GHG reduction techniques or to comply with later amendments to the CAP or local, State, or federal law.

[1] Certain projects seeking ministerial approval may be required to complete the Checklist. For example, projects in a Community Plan Implementation Overlay Zone may be required to use the Checklist to qualify for ministerial level review. See Supplemental Development Regulations in the project's community plan to determine applicability.

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CAP CONSISTENCY CHECKLIST SUBMITTAL APPLICATION

- The Checklist is required only for projects subject to CEQA review.[2]
- If required, the Checklist must be included in the project submittal package. Application submittal procedures can be found in Chapter 11: Land Development Procedures of the City's Municipal Code.
- The requirements in the Checklist will be included in the project's conditions of approval.
- The applicant must provide an explanation of how the proposed project will implement the requirements described herein to the satisfaction of the Planning Department.

Application Information

Contact Information

Project No./Name: Mt. Etna Affordable Housing - Clairemont Mesa Community Plan Amendment

Property Address: 5255 Mt. Etna Drive, San Diego, CA 92177

Applicant Name/Co.: San Diego County General Services Agency

Contact Phone: 858.694.2047 Contact Email: marc.cass@sdcounty.ca.gov

Was a consultant retained to complete this checklist? ■ Yes ☐ No If Yes, complete the following

Consultant Name: Jeff Goodson Contact Phone: 619.719.4200

Company Name: ESA Contact Email: jgoodson@esassoc.com

Project Information

1. What is the size of the project (acres)? 4.09 acres
2. Identify all applicable proposed land uses:
   - ☐ Residential (indicate # of single-family units):
   - ■ Residential (indicate # of multi-family units): Community Plan Amendment - No Specific Project
   - ☐ Commercial (total square footage):
   - ☐ Industrial (total square footage):
   - ☐ Other (describe):
3. Is the project or a portion of the project located in a Transit Priority Area? ■ Yes ☐ No
4. Provide a brief description of the project proposed:

Community Plan Amendment to the Clairemont Mesa Community Plan to allow for 404 affordable multifamily housing units on the 4.09 acre former San Diego County Sheriff's Crime Lab site. No specific residential project is proposed at this time.

[2] Certain projects seeking ministerial approval may be required to complete the Checklist. For example, projects in a Community Plan Implementation Overlay Zone may be required to use the Checklist to qualify for ministerial level review. See Supplemental Development Regulations in the project's community plan to determine applicability.

CAP CONSISTENCY CHECKLIST QUESTIONS

Step 1: Land Use Consistency

The first step in determining CAP consistency for discretionary development projects is to assess the project's consistency with the growth projections used in the development of the CAP. This section allows the City to determine a project's consistency with the land use assumptions used in the CAP.

Step 1: Land Use Consistency		
Checklist Item (Check the appropriate box and provide explanation and supporting documentation for your answer)	Yes	No
A. Is the proposed project consistent with the existing General Plan and Community Plan land use and zoning designations?;[3] OR, B. If the proposed project is not consistent with the existing land use plan and zoning designations, and includes a land use plan and/or zoning designation amendment, would the proposed amendment result in an increased density within a Transit Priority Area (TPA)[4] and implement CAP Strategy 3 actions, as determined in Step 3 to the satisfaction of the Development Services Department?; OR, C. If the proposed project is not consistent with the existing land use plan and zoning designations, does the project include a land use plan and/or zoning designation amendment that would result in an equivalent or less GHG-intensive project when compared to the existing designations?	☑	☐

If "***Yes***," proceed to Step 2 of the Checklist. For question B above, complete Step 3. For question C above, provide estimated project emissions under both existing and proposed designation(s) for comparison. Compare the maximum buildout of the existing designation and the maximum buildout of the proposed designation.

If "***No***," in accordance with the City's Significance Determination Thresholds, the project's GHG impact is significant. The project must nonetheless incorporate each of the measures identified in Step 2 to mitigate cumulative GHG emissions impacts unless the decision maker finds that a measure is infeasible in accordance with CEQA Guidelines Section 15091. Proceed and complete Step 2 of the Checklist.

Per footnote 5, completion of Step 2 of the CAP Consistency Checklist is not required, as no specific development project is proposed at this time. The proposed project is a community plan amendment to the Clairemont Mesa Community Plan to allow for a Community Plan Implementation Overlay Zone (CPIOZ) that would allow for up to 404 affordable multifamily units.

[3] This question may also be answered in the affirmative if the project is consistent with SANDAG Series 12 growth projections, which were used to determine the CAP projections, as determined by the Planning Department.

[4] This category applies to all projects that answered in the affirmative to question 3 on the previous page: Is the project or a portion of the project located in a transit priority area.

Step 2: CAP Strategies Consistency

The second step of the CAP consistency review is to review and evaluate a project's consistency with the applicable strategies and actions of the CAP. Step 2 only applies to development projects that involve permits that would require a certificate of occupancy from the Building Official or projects comprised of one and two family dwellings or townhouses as defined in the California Residential Code and their accessory structures.[5] All other development projects that would not require a certificate of occupancy from the Building Official shall implement Best Management Practices for construction activities as set forth in the Greenbook (for public projects).

Step 2: CAP Strategies Consistency			
Checklist Item (Check the appropriate box and provide explanation for your answer)	Yes	No	N/A
Strategy 1: Energy & Water Efficient Buildings			
1. *Cool/Green Roofs*. • Would the project include roofing materials with a minimum 3-year aged solar reflection and thermal emittance or solar reflection index equal to or greater than the values specified in the voluntary measures under California Green Building Standards Code (Attachment A)?; OR • Would the project roof construction have a thermal mass over the roof membrane, including areas of vegetated (green) roofs, weighing at least 25 pounds per square foot as specified in the voluntary measures under California Green Building Standards Code?; OR • Would the project include a combination of the above two options? Check "N/A" only if the project does not include a roof component. Per footnote 5, completion of Step 2 of the CAP Consistency Checklist is not required, as no specific development project is proposed at this time.	☐	☐	☐

[5] Actions that are not subject to Step 2 would include, for example: 1) discretionary map actions that do not propose specific development, 2) permits allowing wireless communication facilities, 3) special events permits, 4) use permits or other permits that do not result in the expansion or enlargement of a building (e.g., decks, garages, etc.), and 5) non-building infrastructure projects such as roads and pipelines. Because such actions would not result in new occupancy buildings from which GHG emissions reductions could be achieved, the items contained in Step 2 would not be applicable.

2. *Plumbing fixtures and fittings* With respect to plumbing fixtures or fittings provided as part of the project, would those low-flow fixtures/appliances be consistent with each of the following: Residential buildings: • Kitchen faucets: maximum flow rate not to exceed 1.5 gallons per minute at 60 psi; • Standard dishwashers: 4.25 gallons per cycle; • Compact dishwashers: 3.5 gallons per cycle; and • Clothes washers: water factor of 6 gallons per cubic feet of drum capacity? Nonresidential buildings: • Plumbing fixtures and fittings that do not exceed the maximum flow rate specified in Table A5.303.2.3.1 (voluntary measures) of the California Green Building Standards Code (See Attachment A); and • Appliances and fixtures for commercial applications that meet the provisions of Section A5.303.3 (voluntary measures) of the California Green Building Standards Code (See Attachment A)? Check "N/A" only if the project does not include any plumbing fixtures or fittings. Per footnote 5, completion of Step 2 of the CAP Consistency Checklist is not required, as no specific development project is proposed at this time.	☐	☐	☐

Strategy 3: Bicycling, Walking, Transit & Land Use			
3. *Electric Vehicle Charging* • Multiple-family projects of 17 dwelling units or less: Would 3% of the total parking spaces required, or a minimum of one space, whichever is greater, be provided with a listed cabinet, box or enclosure connected to a conduit linking the parking spaces with the electrical service, in a manner approved by the building and safety official, to allow for the future installation of electric vehicle supply equipment to provide electric vehicle charging stations at such time as it is needed for use by residents? • Multiple-family projects of more than 17 dwelling units: Of the total required listed cabinets, boxes or enclosures, would 50% have the necessary electric vehicle supply equipment installed to provide active electric vehicle charging stations ready for use by residents? • Non-residential projects: Of the total required listed cabinets, boxes or enclosures, would 50% have the necessary electric vehicle supply equipment installed to provide active electric vehicle charging stations ready for use? Check "N/A" only if the project is a single-family project or would not require the provision of listed cabinets, boxes, or enclosures connected to a conduit linking the parking spaces with electrical service, e.g., projects requiring fewer than 10 parking spaces. Per footnote 5, completion of Step 2 of the CAP Consistency Checklist is not required, as no specific development project is proposed at this time.	☐	☐	☐
Strategy 3: Bicycling, Walking, Transit & Land Use (Complete this section if project includes non-residential or mixed uses)			
4. *Bicycle Parking Spaces* Would the project provide more short- and long-term bicycle parking spaces than required in the City's Municipal Code (Chapter 14, Article 2, Division 5)?[6] Check "N/A" only if the project is a residential project. Per footnote 5, completion of Step 2 of the CAP Consistency Checklist is not required, as no specific development project is proposed at this time.	☐	☐	☐

[6] Non-portable bicycle corrals within 600 feet of project frontage can be counted towards the project's bicycle parking requirements.

5. *Shower facilities*

If the project includes nonresidential development that would accommodate over 10 tenant occupants (employees), would the project include changing/shower facilities in accordance with the voluntary measures under the California Green Building Standards Code as shown in the table below?

Number of Tenant Occupants (Employees)	Shower/Changing Facilities Required	Two-Tier (12" X 15" X 72") Personal Effects Lockers Required
0-10	0	0
11-50	1 shower stall	2
51-100	1 shower stall	3
101-200	1 shower stall	4
Over 200	1 shower stall plus 1 additional shower stall for each 200 additional tenant-occupants	1 two-tier locker plus 1 two-tier locker for each 50 additional tenant-occupants

Check "N/A" only if the project is a residential project, or if it does not include nonresidential development that would accommodate over 10 tenant occupants (employees).

Per footnote 5, completion of Step 2 of the CAP Consistency Checklist is not required, as no specific development project is proposed at this time.

☐ ☐ ☐

6. *Designated Parking Spaces*

If the project includes a nonresidential use in a TPA, would the project provide designated parking for a combination of low-emitting, fuel-efficient, and carpool/vanpool vehicles in accordance with the following table?

Number of Required Parking Spaces	Number of Designated Parking Spaces
0-9	0
10-25	2
26-50	4
51-75	6
76-100	9
101-150	11
151-200	18
201 and over	At least 10% of total

This measure does not cover electric vehicles. See Question 4 for electric vehicle parking requirements.

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces. The required designated parking spaces are to be provided within the overall minimum parking requirement, not in addition to it.

Check "N/A" only if the project is a residential project, or if it does not include nonresidential use in a TPA.

Per footnote 5, completion of Step 2 of the CAP Consistency Checklist is not required, as no specific development project is proposed at this time.

☐ ☐ ☐

7. *Transportation Demand Management Program* If the project would accommodate over 50 tenant-occupants (employees), would it include a transportation demand management program that would be applicable to existing tenants and future tenants that includes: At least one of the following components: • Parking cash out program • Parking management plan that includes charging employees market-rate for single-occupancy vehicle parking and providing reserved, discounted, or free spaces for registered carpools or vanpools • Unbundled parking whereby parking spaces would be leased or sold separately from the rental or purchase fees for the development for the life of the development And at least three of the following components: • Commitment to maintaining an employer network in the SANDAG iCommute program and promoting its RideMatcher service to tenants/employees • On-site carsharing vehicle(s) or bikesharing • Flexible or alternative work hours • Telework program • Transit, carpool, and vanpool subsidies • Pre-tax deduction for transit or vanpool fares and bicycle commute costs • Access to services that reduce the need to drive, such as cafes, commercial stores, banks, post offices, restaurants, gyms, or childcare, either onsite or within 1,320 feet (1/4 mile) of the structure/use? Check "N/A" only if the project is a residential project or if it would not accommodate over 50 tenant-occupants (employees). Per footnote 5, completion of Step 2 of the CAP Consistency Checklist is not required, as no specific development project is proposed at this time.	☐	☐	☐

Step 3: Project CAP Conformance Evaluation (if applicable)

The third step of the CAP consistency review only applies if Step 1 is answered in the affirmative under option B. The purpose of this step is to determine whether a project that is located in a TPA but that includes a land use plan and/or zoning designation amendment is nevertheless consistent with the assumptions in the CAP because it would implement CAP Strategy 3 actions. In general, a project that would result in a reduction in density inside a TPA would not be consistent with Strategy 3.The following questions must each be answered in the affirmative and fully explained.

1. **Would the proposed project implement the General Plan's City of Villages strategy in an identified Transit Priority Area (TPA) that will result in an increase in the capacity for transit-supportive residential and/or employment densities?**
   Considerations for this question:
   - Does the proposed land use and zoning designation associated with the project provide capacity for transit-supportive residential densities within the TPA?
   - Is the project site suitable to accommodate mixed-use village development, as defined in the General Plan, within the TPA?
   - Does the land use and zoning associated with the project increase the capacity for transit-supportive employment intensities within the TPA?

2. **Would the proposed project implement the General Plan's Mobility Element in Transit Priority Areas to increase the use of transit?**
   Considerations for this question:
   - Does the proposed project support/incorporate identified transit routes and stops/stations?
   - Does the project include transit priority measures?

3. **Would the proposed project implement pedestrian improvements in Transit Priority Areas to increase walking opportunities?**
   Considerations for this question:
   - Does the proposed project circulation system provide multiple and direct pedestrian connections and accessibility to local activity centers (such as transit stations, schools, shopping centers, and libraries)?
   - Does the proposed project urban design include features for walkability to promote a transit supportive environment?

4. **Would the proposed project implement the City of San Diego's Bicycle Master Plan to increase bicycling opportunities?**
   Considerations for this question:
   - Does the proposed project circulation system include bicycle improvements consistent with the Bicycle Master Plan?
   - Does the overall project circulation system provide a balanced, multimodal, "complete streets" approach to accommodate mobility needs of all users?

5. **Would the proposed project incorporate implementation mechanisms that support Transit Oriented Development?**
   Considerations for this question:
   - Does the proposed project include new or expanded urban public spaces such as plazas, pocket parks, or urban greens in the TPA?
   - Does the land use and zoning associated with the proposed project increase the potential for jobs within the TPA?
   - Do the zoning/implementing regulations associated with the proposed project support the efficient use of parking through mechanisms such as: shared parking, parking districts, unbundled parking, reduced parking, paid or time-limited parking, etc.?

6. **Would the proposed project implement the Urban Forest Management Plan to increase urban tree canopy coverage?**
   Considerations for this question:
   - Does the proposed project provide at least three different species for the primary, secondary and accent trees in order to accommodate varying parkway widths?
   - Does the proposed project include policies or strategies for preserving existing trees?
   - Does the proposed project incorporate tree planting that will contribute to the City's 20% urban canopy tree coverage goal?

Responses to San Diego CAP Checklist Step 3 Questions

The proposed Clairemont Mesa Community Plan Amendment is within a Transit Priority Area (TPA), allows for increased density affordable housing, and is consistent with assumptions in the CAP, as it implements CAP Strategy 3 actions, as demonstrated by the following response to Cap Checklist Section 3 questions:

1) **Would the proposed project implement the General Plan's City of Villages strategy in an identified Transit Priority Area (TPA) that will result in an increase in the capacity for transit-supportive residential and/or employment densities?**

   Yes. According to the City's General Plan Land Use Element, the goal of the City of Villages strategy is to provide mixed-use villages located throughout the City connected by high-quality transit (City of San Diego 2015a). The project site is located in a TPA and proposes a Community Plan Amendment to the Clairemont Mesa Community Plan to allow for increased capacity for transit-supportive and affordable multifamily residential densities and 1,500 square feet of non-residential ground floor use. A total of 404 affordable multifamily residential units are proposed for future development on the 4.09-acre site of the former San Diego Sheriff's Crime Lab site.

2) **Would the proposed project implement the General Plan's Mobility Element in Transit Priority Areas to increase the use of transit?**

   Yes. According to the City's Planning Department, "transit priority area" means an area within one-half mile of a major transit stop that is existing or planned (City of San Diego 2019). The City's General Plan Mobility Element encourages more people to live and work within walking distance of transit (City of San Diego 2015b). The General Plan supports transit through policies supportive of transit and pedestrian-oriented design, and implementation of transit priority measures. The proposed Community Plan Amendment would implement the General Plan Mobility Element in a TPA to increase the use of transit. A total of 404 affordable multifamily residential units are proposed for future development on the project site. Existing transit routes and stops are located within one mile of the project site, including MTS Bus Route 27 and 41. MTS Bus Route 27's Balboa Avenue and Genesee Avenue bus stop and MTS Bus Route 41's Genesee Avenue and Mt Etna Drive bus stop are both located within 400 feet of the project site. As detailed in the Community Plan Amendment Supplemental Development Regulation (SDR) 13, the proposed project's transportation amenities would be intended to encourage alternative modes of transportation and facilitate non-vehicular access to everyday activities. Future improvements at the project site could include transit oriented improvements on street frontages or an on-site kiosk or information center with multi-modal wayfinding information

and transit information, as determined by the City Engineer.

3) **Would the proposed project implement pedestrian improvements in Transit Priority Areas to increase walking opportunities?**

Yes. The General Plan Mobility Element includes the following goals: for the City to have a complete, functional, and interconnected pedestrian network, that is accessible to pedestrians of all abilities; and to have greater walkability achieved through pedestrian-friendly street, site, and building design (City of San Diego 2015b). The streets immediately surrounding the project site all include sidewalks and all of the signalized intersections within the vicinity include striped crosswalks, pedestrian signal heads, and ADA-compliant ramps, where crossings are allowed. Pedestrian improvements and design guidelines are proposed with the Community Plan Amendment to facilitate efficient pedestrian movement in and around the project site and with existing and proposed adjacent land uses. As detailed in the Community Plan Amendment SDR 6, design guidelines include, but are not limited to, setback requirements, unobstructed and lighted ADA accessible paths, and sidewalk improvements along Mt. Etna Drive and Genesee Avenue.

4) **Would the proposed project implement the City of San Diego's Bicycle Master Plan to increase bicycling opportunities?**

Yes. The City of San Diego's Bicycle Master Plan includes the following goals: a city where bicycling is a viable travel choice, particularly for trips of less than five miles; a safe and comprehensive local and regional bikeway network; and environmental quality, public health, recreation and mobility benefits through increased bicycling (City of San Diego 2013). There are currently Class II bike lanes provided on both sides of Genesee Avenue. The Class II bike lane adjacent to the project site on the east has been painted green for high visibility as the lane approaches Genesee Avenue and Balboa Avenue intersection to the south and sits adjacent to the right turn pocket. The proposed Community Plan Amendment includes multi-modal mobility bicycle features to encourage bicycle riding and storage, including dedicated bicycle lanes and parking areas.

5) **Would the proposed project incorporate implementation mechanisms that support Transit Oriented Development?**

Yes. The Community Plan Amendment encourages transit oriented development. As detailed above, the project site is adjacent to existing transit routes and future residents would be encouraged to utilize available transit (as detailed in the Community Plan Amendment SDR 13). In addition, at least 1,500 square feet of non-residential ground floor use would be part of the future development, which would include employment opportunities within the TPA. The non-residential ground floor uses would facilitate multi-modal access and community connectivity (Community Plan Amendment SDR 9).

6) **Would the proposed project implement the Urban Forest Management Plan to increase urban tree canopy coverage?**

Yes. The City's Urban Forest Management Plan includes goals to establish and maintain optimal levels of tree cover, age, and species diversity to maximize ecosystem benefits provided by urban trees; and to incorporate street tree plans and urban forest management in community plan updates (City of San Diego 2015c). The Community Plan Amendment SDR 7 includes landscape and streetscape development standards and design guidelines to require tree planting to increase urban tree canopy coverage. Street trees would be planted and maintained along public street frontages to provide a shaded pedestrian environment and give a pedestrian character to the street.

As determined in the above Step 3 answers, the proposed Clairemont Mesa Community Plan Amendment is consistent with the CAP.

References

City of San Diego, 2013. City of San Diego Bicycle Master Plan. Available at https://www.sandiego.gov/sites/default/files/legacy/planning/programs/transportation/mobility/pdf/bicycle_master_plan_final_dec_2013.pdf. December 2013.

City of San Diego, 2015a. City of San Diego General Plan Land Use and Community Planning Element. Available at https://www.sandiego.gov/planning/genplan. Updated June 29, 2015.

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City of San Diego, 2019. Transit Priority Areas per SB 743. Available at https://www.sandiego.gov/sites/default/files/transit-priority-map.pdf. February 5, 2019.

CLIMATE ACTION PLAN CONSISTENCY CHECKLIST
ATTACHMENT A

This attachment provides performance standards for applicable Climate Action Pan (CAP) Consistency Checklist measures.

Table 1 Roof Design Values for Question 1: Cool/Green Roofs supporting Strategy 1: Energy & Water Efficient Buildings of the Climate Action Plan

Land Use Type	Roof Slope	Minimum 3-Year Aged Solar Reflectance	Thermal Emittance	Solar Reflective Index
Low-Rise Residential	≤ 2:12	0.55	0.75	64
	> 2:12	0.20	0.75	16
High-Rise Residential Buildings, Hotels and Motels	≤ 2:12	0.55	0.75	64
	> 2:12	0.20	0.75	16
Non-Residential	≤ 2:12	0.55	0.75	64
	> 2:12	0.20	0.75	16

Source: Adapted from the California Green Building Standards Code (CALGreen) Tier 1 residential and non-residential voluntary measures shown in Tables A4.106.5.1 and A5.106.11.2.2, respectively. Roof installation and verification shall occur in accordance with the CALGreen Code.

CALGreen does not include recommended values for low-rise residential buildings with roof slopes of ≤ 2:12 for San Diego's climate zones (7 and 10). Therefore, the values for climate zone 15 that covers Imperial County are adapted here.

Solar Reflectance Index (SRI) equal to or greater than the values specified in this table may be used as an alternative to compliance with the aged solar reflectance values and thermal emittance.

Table 2	Fixture Flow Rates for Non-Residential Buildings related to Question 2: Plumbing Fixtures and Fittings supporting Strategy 1: Energy & Water Efficient Buildings of the Climate Action Plan
Fixture Type	**Maximum Flow Rate**
Showerheads	1.8 gpm @ 80 psi
Lavatory Faucets	0.35 gpm @60 psi
Kitchen Faucets	1.6 gpm @ 60 psi
Wash Fountains	1.6 [rim space(in.)/20 gpm @ 60 psi]
Metering Faucets	0.18 gallons/cycle
Metering Faucets for Wash Fountains	0.18 [rim space(in.)/20 gpm @ 60 psi]
Gravity Tank-type Water Closets	1.12 gallons/flush
Flushometer Tank Water Closets	1.12 gallons/flush
Flushometer Valve Water Closets	1.12 gallons/flush
Electromechanical Hydraulic Water Closets	1.12 gallons/flush
Urinals	0.5 gallons/flush

Source: Adapted from the California Green Building Standards Code (CALGreen) Tier 1 non-residential voluntary measures shown in Tables A5.303.2.3.1 and A5.106.11.2.2, respectively. See the California Plumbing Code for definitions of each fixture type.

Where complying faucets are unavailable, aerators rated at 0.35 gpm or other means may be used to achieve reduction.

Acronyms:
gpm = gallons per minute
psi = pounds per square inch (unit of pressure)
in. = inch

Table 3	**Standards for Appliances and Fixtures for Commercial Application related to Question 2: Plumbing Fixtures and Fittings supporting Strategy 1: Energy & Water Efficient Buildings of the Climate Action Plan**	
Appliance/Fixture Type	**Standard**	
Clothes Washers	Maximum Water Factor (WF) that will reduce the use of water by 10 percent below the California Energy Commissions' WF standards for commercial clothes washers located in Title 20 of the *California Code of Regulations*.	
Conveyor-type Dishwashers	0.70 maximum gallons per rack (2.6 L) (High-Temperature)	0.62 maximum gallons per rack (4.4 L) (Chemical)
Door-type Dishwashers	0.95 maximum gallons per rack (3.6 L) (High-Temperature)	1.16 maximum gallons per rack (2.6 L) (Chemical)
Undercounter-type Dishwashers	0.90 maximum gallons per rack (3.4 L) (High-Temperature)	0.98 maximum gallons per rack (3.7 L) (Chemical)
Combination Ovens	Consume no more than 10 gallons per hour (38 L/h) in the full operational mode.	
Commercial Pre-rinse Spray Valves (manufactured on or after January 1, 2006)	Function at equal to or less than 1.6 gallons per minute (0.10 L/s) at 60 psi (414 kPa) and • Be capable of cleaning 60 plates in an average time of not more than 30 seconds per plate. • Be equipped with an integral automatic shutoff. • Operate at static pressure of at least 30 psi (207 kPa) when designed for a flow rate of 1.3 gallons per minute (0.08 L/s) or less.	

Source: Adapted from the California Green Building Standards Code (CALGreen) Tier 1 non-residential voluntary measures shown in Section A5.303.3. See the California Plumbing Code for definitions of each appliance/fixture type.

Acronyms:
L = liter
L/h = liters per hour
L/s = liters per second
psi = pounds per square inch (unit of pressure)
kPa = kilopascal (unit of pressure)

Appendix G
Phase I Report

ESA

Phase I Environmental Site Assessment

5255 Mt. Etna Drive
San Diego, California

County of San Diego, Department of General Services
5560 Overland Avenue, Suite 410, San Diego, California 92123

June 21, 2019 | Project No. 108768001



Geotechnical | Environmental | Construction Inspection & Testing | Forensic Engineering & Expert Witness

Geophysics | Engineering Geology | Laboratory Testing | Industrial Hygiene | Occupational Safety | Air Quality | GIS

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

Ninyo & Moore
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Phase I Environmental Site Assessment

5255 Mt. Etna Drive
San Diego, California

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D – Regulatory Documentation

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G – Qualification of the Environmental Professionals

1 INTRODUCTION

Ninyo & Moore was retained by the County of San Diego, Department of General Services (herein referred to as the client) to perform a Phase I Environmental Site Assessment (ESA) of the subject property located at 5255 Mount (Mt.) Etna Drive in San Diego, California (hereinafter referred to as the site). The following sections discuss the purpose, the involved parties, the scope of services, and the limitations and exceptions associated with the Phase I ESA.

1.1 Purpose

In accordance with the ASTM International (ASTM) Standard Practice for ESAs on Commercial Real Estate E1527-13, the objective of the Phase I ESA is to identify recognized environmental conditions (RECs). The term recognized environmental conditions means "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not recognized environmental conditions."

Identification of RECs fall into the following three categories: existing RECs (as defined above); Historical RECs (HRECs); or Controlled RECs (CRECs). HRECs and CRECs are defined as follows:

- HREC – An HREC is defined as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations [AULs], institutional controls, or engineering controls)." An HREC is an environmental condition, which in the past, would have been considered a recognized environmental condition, but currently may or may not be considered a recognized environmental condition. An example of an HREC may be a former gas station where a release of gasoline had occurred, but the site was cleaned up to an unrestricted land use standard.

- CREC – A CREC is defined as a "recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by a regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, AULs, institutional controls, or engineering controls)." An example of a CREC could be a former gas station where a release of gasoline has been cleaned up to a commercial use standard, but does not meet unrestricted residential cleanup criteria.

1.2 Scope of Services

Ninyo & Moore's scope of services for this Phase I ESA included the activities listed below.

- Reviewed physical setting and background information.
- Performed a site reconnaissance.
- Reviewed federal, state, tribal, and local regulatory agency databases for the site and for properties located within a specified radius of the site.
- Reviewed reasonably ascertainable local regulatory agency files for the site, as applicable.
- Reviewed historical information for the site, such as historical aerial photographs, historical topographic maps, reverse street directories, Sanborn fire insurance maps, and building department records.
- Reviewed user-provided information, as available.
- Interviewed the property owner regarding the environmental status of the site.
- Performed a preliminary vapor encroachment screen to evaluate the potential for vapor encroachment conditions.
- Prepared this Phase I ESA report, summarizing findings and providing opinions and conclusions regarding RECs at the site.

1.3 Significant Assumptions

Ninyo & Moore assumes the information sources from the third-party environmental database vendor, regulatory agencies, and interviewees utilized for this report provided adequate and accurate information. No other significant assumptions were made during the preparation of this report.

1.4 Limitations and Exceptions

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard of care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

The findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control. Ninyo & Moore cannot warrant or guarantee that not finding indicators of any particular hazardous material means that this particular hazardous material or any other hazardous materials do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

1.5 Special Terms and Conditions

This study did not include an evaluation of geotechnical conditions or potential geologic hazards. In addition, unless otherwise indicated in this report, this Phase I ESA did not include analysis of the following, which is not intended to be all-inclusive: asbestos-containing materials, methane gas, radon, lead-based paint, lead-containing surfaces, lead in drinking water, underground pipelines, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, mold, or high voltage power lines.

1.6 User Reliance

This report may be relied upon by, and is intended exclusively for, the client and its assigns. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the above-referenced client is undertaken at said parties' sole risk.

1.7 Involved Parties

Mr. Adrian Olivares, Senior Environmental Scientist conducted the site reconnaissance, property owner interviews, and performed historical research in March 2019. Mr. Randy Wheeler, Senior Geologist, performed project oversight and quality review.

2 SITE DESCRIPTION

The following table provides a general description of the subject site. Photographs taken during the site reconnaissance are provided in Appendix A.

Table 1 – General Site Setting

General Site Setting	Description
Location	The site is located approximately 200 feet southwest of the Genesee Avenue and Mt. Etna Drive intersection (Figure 1).
Assessor Parcel Nos. (APNs)	760-103-6100 and 361-661-1200 (County of San Diego)
Property Owner	County of San Diego
Size (approximate)	4.1 acres
Structures / Site Use / Occupants	The site is developed with an approximately 66,000 square-foot single-story building, an attached 36,000 square-foot two-story warehouse building, and a 1,500 square-foot garage. The building was vacant and was formerly occupied by the County of San Diego Sheriff's Criminal Investigations Division (also referred to as Crime Lab).
Roads	Roads are not present on the site. The site is accessible via driveways along Genesee Avenue to the east and Mt. Etna Drive to the north.
Heating and Cooling Systems	The building was equipped with a combination of roof-mounted units and a cooling tower / boilers.
Electricity and Natural Gas Provider	San Diego Gas & Electric (SDG&E)
Sewer Disposal Provider	City of San Diego
Potable Water Provider	City of San Diego
Site Vicinity Description	The site vicinity is primarily comprised of single-family residences and commercial properties.

3 USER-PROVIDED INFORMATION

The User Questionnaire was submitted to the client; however, as of the date of this report, the completed questionnaire has not been received.

Table 2 – Summary of User-Provided Information

User's Responsibilities	User's Responses
Title Records	No response.
Environmental Liens or Activity and Use Limitations (AULs)	No response.
Specialized Knowledge	No response.
Commonly Known or Reasonably Ascertainable Information	No response.
Valuation Reduction for Environmental Issues	No response.
Reason for Performing Phase I ESA	No response.

4 RECORDS REVIEW

The following sections summarize records reviewed for the site.

4.1 Standard Environmental Record Source - Environmental Databases

A computerized, environmental information database search was performed by Environmental Data Resources, Inc. (EDR) on March 4, 2019. The search included federal, state, tribal, and local databases. A summary of the environmental databases searched, their corresponding search radii, and number of noted properties of potential environmental concern, is presented in the EDR report (Appendix C). The review was conducted to evaluate whether the site or properties within the site vicinity have been documented as having experienced significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects.

4.1.1 Geocoded (Mapped) Listings

The site was listed in several environmental databases searched. A summary of the site database listings is provided in the table below.

Table 3 – Environmental Database Listings – Site

Former Occupants	Database	Summary
County Sheriff Crime Lab	ECHO FINDS LOP LUST RCRA-SQG SAM SWEEPS UST UST	The site was occupied by the Crime Lab from 1980 to 2018. The facility has a closed unauthorized release case (H14261-001) associated with a diesel fuel release that impacted soil only. The case was opened in September 1991 and closed in May 1995. The facility is also listed as a small quantity generator (SQG) of waste and is listed as having an active 1,000 gallon motor fuel underground storage tank (UST). Additional information regarding the unauthorized release case, UST, and hazardous waste generation are provided in Section 4.2.1.
Clairemont Hospital	Hist Cortese	Prior to the County's acquisition of the property, the site was occupied by Clairemont Hospital. The former occupant is listed in the database; however, no other information is provided.

Note:
- A complete description of each database is provided in the EDR Report (Appendix C).

Off-site properties within 1 mile of the site appeared on various regulatory agency databases. The following table lists ASTM standard environmental databases that were searched and the number of listings (excluding unmapped properties).

Table 4 – ASTM Standard Environmental Databases		
Database Name	Search Radius (mile)	Number of Listings
FEDERAL DATABASES		
NPL (National Priority List)	1	0
Proposed NPL	1	0
NPL LIENS (Federal Superfund Liens)	site	0
Delisted NPL	1	0
FEDERAL FACILITY (Federal Facility Site Information listing)	0.5	0
SEMS (Superfund Enterprise Management System; formerly Comprehensive Environmental Response Compensation and Liability Information System)	0.5	0
SEMS-ARCHIVE (Superfund Enterprise Management System Archive)	0.5	0
CORRACTS (facilities subject to Corrective action under RCRA)	1	0
RCRA-TSDF (hazardous waste treatment, storage, or disposal facilities)	0.5	0
RCRA-LQG (large quantity generator)	0.25	1
RCRA-SQG (small quantity generator)	0.25	6
RCRA-CESQG (conditionally exempt SQG)	0.25	5
LAND USE CONTROL INFORMATION SYSTEM (LUCIS)	0.5	0
US ENGINEERING CONTROL (EC)	0.5	0
US INSTITUTIONAL CONTROL (IC)	0.5	0
ERNS (Emergency Notification System)	site	0
STATE/TRIBAL DATABASES		
RESPONSE (State Response Sites, State- and Tribal- equivalent NPL)	1	0
ENVIROSTOR (The DTSC's Site Mitigation and Brownfields Reuse Program; CERCLIS-equivalent)	1	4
SWF/LF (Solid Waste Information System)	0.5	0
San Diego County Site Assessment and Mitigation (SAM)	0.5	14
LUST (Geotracker's Leaking Underground Fuel Tank Report)	0.5	26
SLIC (Spills, Leaks, Investigation and Cleanup database by the California Regional Water Quality Control Board)	0.5	6
UST (registered underground storage tanks [USTs])	0.25	5
AST (registered aboveground storage tanks [ASTs])	0.25	1
FEMA UST (Underground Storage Tank Listing)	0.25	0
VCP (Voluntary Cleanup Program Properties)	0.5	0

Off-site properties/facilities listed in the database report were evaluated as to their potential to impact soil and/or groundwater at the site. To supplement the information in the EDR report, the State Water Resources Control Board (SWRCB) GeoTracker database and regulatory agency records from the County of San Diego, Department of Environmental Health (DEH) were reviewed. Supporting documentation is provided in Appendix D. The following properties/facilities were interpreted to represent a potential environmental concern to the site, based on their proximity to the site, the nature of the database on which they are listed, and/or the assumed direction of groundwater flow in the site vicinity (southwest).

Table 5 – Off-Site Facilities of Potential Concern			
Facility Name / Address	**Distance/ Direction from Site**	**Database**	**Summary**
Rite Aid #5653 5270 Balboa Avenue	146 feet southeast	HAZNET RCRA-CESQG	The retail store and pharmacy is a conditionally exempt small quantity generator (CESQ) that generates pharmaceutical and photo-processing type wastes. DEH records were reviewed and consisted of compliance inspection reports for select years from 2007 to 2019. The inspection reports did not indicate evidence of a spill or release at the property. Based on type of business (retail) and the absence of spills or releases, this property is not a concern to the site at this time.
Mobil T0220 / Former Mobil Station 4302 Genesee Avenue	168 feet north-northeast	Hist Cortese LOP LUST San Diego SAM SWEEPS UST	The former gasoline station has a closed unauthorized release case (H13500-001), which was closed in October 1986. According to DEH closure documents, four USTs were removed in August 1986 and two soil samples were collected from the excavation bottoms at depths of 7 and 8 feet below ground surface (bgs). DEH correspondence indicated that petroleum hydrocarbon levels were below levels of concern [at the time] (1,000 milligrams per kilogram [kg/kg]) and the case was closed without further assessment or remediation. Based on the case status (closed), the medium affected (soil), and that the primary sources of the release were removed (USTs), this property does not represent an environmental concern to the site at this time.
Genesee Shell / Shell Oil Service Station / Cagles Genesee Shell 4303 Genesee Avenue	327 feet north-northeast	HAZNET Hist Cortese LOP LUST RCRA-CESQG San Diego SAM SLIC	The former gasoline service station located on the northeast corner of Genesee Avenue and Mt. Etna Drive has a closed unauthorized release case (H03207-001) associated with a UST release that impacted soil and groundwater. According to DEH records, four USTs were removed in March and October 1999. Contaminated soil was encountered during the UST removals and an unauthorized release case was opened. As part of the UST removals, approximately 500 tons of soil and 18,000 gallons of petroleum-impacted groundwater were removed. Subsequent assessment activities included the installation and monitoring of 20 groundwater monitoring wells from December 1999 to November 2013. Depth to groundwater was approximately 50 feet bgs and flowed east to northeast. According to reviewed reports, the majority of groundwater impacts were at the property and the adjacent property to the northeast, although based on the review of isoconcentration maps, the dissolved-phase benzene plume appears to extent to the intersection of Mt. Etna Drive and Genesee Avenue. A soil vapor extraction pilot test was performed; however, no significant vacuum was measured in the observation wells indicating the remedial alternative may not be effective in removing additional petroleum contamination. In January 2003, a soil vapor assessment was performed and building occupants were found to have minimal excess cancer risk (less than 1 and 1 million). The DEH closed the case in August 2018 with residual soil and groundwater contamination left in place under the SWRCB Low Threat UST Case Closure Policy.

Table 5 – Off-Site Facilities of Potential Concern			
Facility Name / Address	**Distance/ Direction from Site**	**Database**	**Summary**
Circle K Stores 4360 Genesee Avenue	449 feet north	FINDS LUST SAM SLIC SWEEPS UST UST	The active gasoline station has a closed unauthorized release case (H29223-001) that was found during due diligence for a property transaction in April and May 2004. Assessment activities included the installation and monitoring of nine groundwater monitoring wells and three remedial wells. Groundwater reportedly flows to the southeast and the plume extends to the adjoining property to the south. According to the DEH case closure letter, there is no beneficial use of groundwater, the depth to groundwater is greater than 40 feet bgs, and there is no risk to receptors downgradient. Based on the case closure and distance from the site, this property is not a concern to the site at this time.
Chevron / Balboa Ave 5401 Balboa Avenue	489 feet east-southeast	ECHO EMI FINDS HMMD LOP LUST Hist UST Hist Cortese SAM SLIC SWEEPS UST UST	The former gasoline service station has four closed unauthorized release cases that impacted soil and groundwater (H12456-001 to -004). The first case was opened in August 1993 after contamination was encountered following a waste oil UST removal. The second case was opened following the removal of three gasoline USTs in September 1993. The two cases were combined into the third case (-003) in March 2009. Assessment activities included the installation and monitoring of 17 groundwater monitoring wells and 15 soil vapor probes. Depth to groundwater reportedly ranged from approximately 5 to 20 feet bgs and flowed to the west. A dissolved-phase plume extended to the west of the property (cross gradient from the site). Soil vapor monitoring indicated an excessive cancer risk to building occupants and remedial soil excavation was performed under the fourth case (-004). The DEH closed the Cases -003 and -004 in May 2012. Based on the case closed status, remediation performed, and the distance to the site, this property is not a concern to the site at this time.

Notes:
- Distances and direction provided by EDR
- A complete description of each database is provided in the EDR Report (Appendix C).

It is our opinion that there is a low likelihood that the remaining listings for off-site properties appearing in the database report represent a REC to the site at the current time. This opinion is based on one or more of the following factors:

1. The nature of the database(s) on which the property appears, and/or because the property did not appear on a database that reports unauthorized releases of hazardous substances;
2. Reported regulatory agency status (i.e., case closed);
3. Reported nature of the case (i.e., soil contamination only);
4. Reported distance of the property from the site; and/or
5. Location of the property in relation to the site with respect to topography or expected groundwater flow direction (generally assumed to be, based on topography, toward the southwest).

4.1.2 Non-Geocoded (Unmapped) Listings

This portion of the regulatory database report includes properties for which regulatory agencies did not report sufficient address information to be plotted by EDR. This portion of the regulatory database report includes properties for which regulatory agencies did not report sufficient address information to be plotted by EDR. Based on our review of the unmapped properties, it is our opinion that the unmapped properties are not a concern to the site based on the interpreted distance to the site.

4.2 Additional Environmental Record Sources

According to the ASTM Standard, "if the property or any of the adjoining properties is identified on one or more of the standard environmental record sources, pertinent regulatory files and/or records associated with the listing should be reviewed." With the exception of the Rite Aid property (5270 Balboa Avenue), which was discussed in Section 4.1.1, adjoining properties were not listed in the database search and regulatory files were not requested. The review of regulatory agency records for the site is discussed in the following sections. Regulatory records for the site are provided in Appendix D.

4.2.1 County of San Diego Department of Environmental Health

According to a representative of the DEH on March 25, 2019, records for the site include compliance inspection reports from 1996 to 2019, UST compliance-related testing, UST permits, and technical reports / correspondence associated with a closed unauthorized release case. The DEH files are summarized below.

Compliance Inspections

Compliance inspection reports were reviewed and pertained to inspections related to hazardous materials and waste, biomedical waste, and UST compliance for the former Crime Lab. Generally, one or more of the following types of violations were issued during each inspection:

- Waste stored longer than the allowed timeframe (90 days) and waste manifests not available.
- Waste containers improperly labeled and waste storage areas not inspected weekly.
- Active EPA ID number not maintained.
- Employee training records not available.
- Hazardous materials business plan, site map, safety data sheets, and contingency plan not available.

- Medical waste management plan and updated medical waste disposal procedures not available.
- UST overfill protection not installed.
- UST monitoring/calibration records not available.
- UST operating permit expired.
- UST continuous monitoring system not certified annually and alarm not functioning properly.
- UST sensor in containment sump modified to avoid entering in alarm mode.
- UST spill bucket has fluid.
- UST written response plan and written monitoring procedures not available.

Return to compliance documentation was available for the majority of violations beginning in January 2007. According to the December 2018 compliance inspection report, the Crime Lab moved to a new facility in August 2018. The facility's hazardous and medical wastes were disposed of in August and November 2018. Hazardous materials were transferred to the new facility in August 2018. The UST will continue to be maintained. During the inspection, the DEH inspector noted three 55-gallon drums of water treatment chemicals and one cylinder each of acetylene and oxygen (capacities not specified). In January 2019, a UST inspection was performed and no violations were reported.

UST Records

Records were reviewed and were related to inspections, UST pipe replacement activities, and annual testing of the current UST system, which consists of a double-walled, 4,000-gallon UST containing diesel fuel, and a Veeder Root TLS-3000 leak monitoring system. The UST supplies a 500 gallon emergency generator. UST operating permits were on file from August 1998 to the present. The current permit expires in August 2022. During the review of UST testing, no failed tests were found or other evidence of a release.

UST Removal and Unauthorized Release Records

UST removal technical reports and DEH documentation associated with the removal of a 1,000 gallon diesel UST in September 1991 and a 500 gallon diesel UST in May 1992 by Clairemont Hospital were reviewed. During the removal of the 1,000 gallon UST, confirmation soil sampling found elevated levels of petroleum hydrocarbons in soil samples from the UST excavation and piping trench and an unauthorized release case (H14261-001) was opened by the DEH. Total petroleum hydrocarbons (TPH) were detected at maximum concentrations of 2,600 mg/kg in the UST excavation and 304 mg/kg in the

piping trench. The excavation was backfilled with the excavated material. In November 1991, the area was re-excavated and additional soil samples were collected the sidewalls at depths ranging from 7 to 9 feet bgs and excavation bottom at a depth of approximately 15 feet bgs. Additional samples were also collected from the piping trench. Samples were analyzed for TPH and the sample with the highest concentration was also analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX). Only one sidewall sample collected from the western end of the excavation contained TPH at a concentration of 3,234 mg/kg. The sample did not contain BTEX above the laboratory reporting limit. Approximately 100 cubic yards of excavation spoils were disposed of at Miramar Landfill. The consultant recommended no further action and closure of the unauthorized release case (Law/Crandall, 2002a). In a letter dated December 22, 1993, the DEH requested the following information from Law/Crandall to facilitate case closure: 1) a site map with the location of the 1,000 gallon UST in relationship to the building and street, and 2) a registered professional's estimate of the groundwater depth, gradient, and flow direction.

According to response letter from Law/Crandall, which included a site plan, the groundwater table was estimated to be at least 80 feet bgs with localized areas of perched water. The groundwater flow direction is estimated to generally flow to the west (Law/Crandall, 1994). In a letter dated May 9, 1995, the DEH closed the unauthorized release case based on the current land use.

In May 1992, a 500 gallon diesel UST that serviced an emergency generator was removed and replaced with the current 4,000 gallon diesel UST. The UST was removed in the presence of a DEH inspector and soil samples were collected from the bottom of the UST at depths of approximately 6.5 and 8 feet bgs. Soil confirmation samples were analyzed for TPH and were below the laboratory reporting limit (Law/Crandall, 1992b).

4.2.2 San Diego County Air Pollution Control District

According to a representative of the San Diego County Air Pollution Control District (APCD) on March 26, 2019, the Crime Lab has an active permit to operate (PTO-910834) an emergency engine generator set. A notice to comply (NTC) was issued in February 1997, which required the Crime Lab to submit an application for a permit for two boilers or permanently eliminate the use of the liquid fuel for the boilers. The fuel line was disconnected from the boilers and the NTC was closed. In February 2018, an APCD inspector performed an inspection of the generator. No violations or NTCs were issued; however, the entry noted that Bay City, a service company, was coming to look at the engine.

4.2.3 Regional Water Quality Control Board, San Diego Region

According to a representative of the Regional Water Quality Control Board (RWQCB) on March 21, 2019, no files were found for the site.

4.2.4 City of San Diego Industrial Wastewater Control Program

According to a representative of the City of San Diego Industrial Wastewater Control Program (IWCP) on March 11, 2019, no records or permits were found for the site.

4.2.5 City of San Diego Fire-Rescue Department

According to a representative of the City of San Diego Fire-Rescue Department on April 4, 2019, a hazardous material permit was found to perform SB989 upgrades to an existing 1,000 gallon diesel UST dated May 2004. Ninyo & Moore notes that the upgrades were likely for the existing 4,000 gallon UST as UST removal permits were also on file to remove a 1,000 gallon diesel UST in August 1991 and a 500 gallon diesel UST in May 1992.

4.2.6 Online Regulatory Databases

Online regulatory databases were reviewed by Ninyo & Moore to supplement the environmental database search conducted by EDR. The following is a summary of pertinent information.

Table 6 – Online Regulatory Databases

Online Database/Website	Findings
DTSC EnviroStor	The site and adjacent properties are not listed.
SWRCB GeoTracker	The site and several properties within 500 feet of the site are listed. The cases are discussed in Section 4.1.1.
California Department of Resources Recycling and Recovery (CalRecycle) Solid Waste Information System	Neither the site nor properties within 1,000 feet were listed.
United States Pipeline and Hazardous Materials Safety Administration, National Pipeline Mapping System Map Viewer	A natural gas transmission line operated by SDG&E is depicted within the parking lot adjacent to the west of the site.

4.3 Physical Setting

The following table summarizes topographic, geologic, and hydrogeologic conditions in the vicinity of the site, based upon the referenced documents review and/or our visual reconnaissance of the site.

Table 7 – Physical Setting		
Physical Settings	**Reference**	**Summary**
Topography	A	The site is situated at an elevation of approximately 365 feet above mean sea level (MSL). The topography at the site is relatively flat and in the general vicinity slopes southwest toward Tecolote Canyon.
Site Geology	B	The site is underlain by very old paralic deposits, which are described as poorly sorted, moderately permeable, reddish-brown, interfingered strandline, beach, estuarine and colluvial deposits composed of siltstone, sandstone, and conglomerate.
Surface Water	A	No natural surface water bodies were observed on the site during the site reconnaissance. The nearest body of water is Tecolote Creek, located approximately 0.3 and 0.4 mile north and west of the site, respectively.
Groundwater	C	The site is located in the Tecolote Hydrologic Area (HA) within the Penasquitos Hydrologic Unit. The site is located within an area of the Tecolote HA (west of Highway 15) that is exempt from beneficial uses. According to information obtained on GeoTracker and the DEH records review of properties of properties in immediate site vicinity, groundwater is expected to be found at depths ranging from 5 to 20 feet bgs. Groundwater is expected to mimic topography and flow to the southwest. Groundwater levels, gradient, and flow direction can fluctuate due to seasonal variations, groundwater withdrawal or injection, changes in land use, and other factors.

References:
A = United States Geological Survey (USGS), La Jolla, California, 7.5-minute quadrangle map (USGS, 2018)
B = Geologic Map of the San Diego Quadrangle 30' x 60' Quadrangle , San Diego County, California (Kennedy and Tan, 2008)
C = RWQCB Water Quality Control Plan for the San Diego Basin (RWQCB, 2016)

4.4 Site Historical Use Information

Ninyo & Moore conducted a historical record search for the site. This included a review of city directories, historical fire insurance maps, historical aerial photographs, topographic maps, and building department records. The following sections summarize information obtained from the historical sources utilized for this assessment.

4.4.1 City Directories

Available historical reverse street directories from 1903 through 2014 were researched by EDR. Addresses along Mt. Etna Drive, Genesee Avenue, and Balboa Avenue were reviewed. The site was listed as Clairemont General (Community) Hospital from 1966 to 1985. From 2010 to 2014, the site was listed as the County of San Diego.

Properties of potential environmental concern in the immediate site vicinity were included historical gasoline service stations at 4299, 4302, and 4303 Genesee Avenue. The EDR City Directory Report is provided in Appendix E.

4.4.2 Sanborn® Fire Insurance Maps

Sanborn® fire insurance maps were requested from EDR; however, according to EDR's Certified Sanborn Map Report, there is no map coverage in the site vicinity (Appendix E).

4.4.3 Historical Aerial Photographs and Topographic Maps

Historical aerial photographs and topographic maps were provided by EDR for select years from 1903 through 2016. Additionally, aerial photographs were reviewed online using Google Earth. A listing of the sources reviewed and summary of notable observations from the historical review are provided in the table below. EDR-provided photographs and maps are included in Appendix E.

Table 8 – Aerial Photographs and Topographic Map Summary

Date - Source	Summary
1903 – B 1930 – B	The site and adjacent properties are depicted as undeveloped. An unpaved road is depicted to the south of the site.
1943 – B 1949 – A 1953 – A	According to the 1943 topographic map, the unpaved road to the south of the site has been reconfigured and is present to the north of the site and traverses the western portion of the site. In the 1949 and 1953 aerial photographs, the site appears vacant and several unpaved roads or trails cross the site. The surrounding area appears undeveloped.
1964 – A	The site is developed with a portion of the present-day single-story building on the western portion of the site. To the east of the building is a paved parking area and a vacant area on the southeastern portion of the site. To the north of the site is Mt. Etna Drive followed by a vacant lot. To the east is a vacant lot and Genesee Avenue. To the south of the site are two commercial structures, which appear to be under construction. To the west of the site is a vacant lot, which corresponds to the SDG&E natural gas easement, followed by single-family residences.
1966 – A 1967 – B 1970 – A	The site appears similar to the previous photograph. Three gasoline service stations are located on the northwest, northeast, and southeast corners of the Genesee Avenue and Mt. Etna Drive intersection. To the south of the site are a large parking lot, and three office or commercial buildings. Power transmission lines are depicted on the adjacent property to the west on the 1967 topographic map.
1975 – B 1979 – A	An addition to the southeastern portion of the single-story building at the site is visible. The southeastern portion of the site appears to be paved. Additional commercial development is visible on the east side of Genesee Avenue and two present-day office buildings are visible to the south of the site. The gasoline station on the southeastern corner of Genesee Avenue and Mt. Etna Drive is no longer visible.
1985 – A 1989 – A	The site appears similar to the previous photograph. The adjacent property to the east of the site is developed with an office building (4282 Genesee Avenue). The vacant lot to the west of the site is paved and appears to be a parking lot. In the 1989 photograph, the adjacent property to the north was developed with the present-day multi-tenant buildings (4310 and 4320 Genesee Avenue).
1990 – A 1994 – A	In the 1990 photograph, five canopies or trailers are visible at the site in the parking lot. In the 1994 photograph, they are no longer present. Also in 1994, the attached garage is present at the southwestern portion of the site.
1996 – A, B	The two-story warehouse portion of the site is visible in the photograph and the site resembles its current configuration.
2005 – A 2009 – A 2012 – A, B 2016 – A 2018 – C	The site and vicinity are in their present day configuration.

Sources: A = EDR Aerial Photographs
B = EDR Topographic Maps
C = Google Earth

4.4.4 Building Department Records

Ninyo & Moore attempted to review building permits at the City of San Diego Development Services Department; however, were told that records for police/sheriff facilities were not available for public review. Ninyo & Moore also reviewed the County of San Diego Planning and Development Services Records online in April 2019. No records were found for the site address.

4.5 Previous Reports

The client provided correspondence related to the closed unauthorized release case from Law/Crandall and the DEH. The case was summarized in Section 4.2.1. The client also provided a DEH letter to the County Sheriff related to the sampling and analysis of the bullet tank water at the Crime Lab dated January 12, 2017. According to the letter, the bullet tank water was tested for metals to characterize for disposal. The results of the test indicate that the metal levels in the water samples were below hazardous waste thresholds and the pH level was near neutral. Based on the results of the sampling, the water tank would not be characterized as a hazardous waste. A copy of the letter is provided in Appendix B.

4.6 Adjacent Property History

Prior to the mid-1950s or early 1960s, the surrounding area was generally undeveloped. By 1964, Mt. Etna Drive, Genesee Avenue, and the SDG&E natural gas pipeline followed by single-family residences were present. Construction of commercial structures to the south of the site was also underway. By 1966, three gasoline service stations operated at the northwest, northeast, and southeast corners of the Mt. Etna Drive and Genesee Avenue intersection. In the 1970s, there was additional commercial development along Genesee Avenue. In the 1980s, the adjacent properties to the north and northwest of the site were developed with commercial / office buildings.

5 SITE RECONNAISSANCE

The objective of the site reconnaissance was to obtain information indicating the potential for RECs in connection with the site. Mr. Adrian Olivares conducted the reconnaissance on March 20, 2019. Mr. Olivares was accompanied by Mr. Marc Cass and Mr. David Timber with the County of San Diego. A site plan is provided as Figure 2 and photographic documentation is provided in Appendix A.

5.1 Methodology and Limiting Conditions

The site reconnaissance consisted of walking on the site and driving on adjacent roads (for viewing of adjacent/nearby properties). The reconnaissance included observations of accessible portions of the site. Areas where chemicals and petroleum products were present were viewed as well as select common areas, laboratories, offices, and the two-story warehouse building.

5.2 General Site Setting

At the time of the site reconnaissance, the site was vacant and was developed with an approximately 66,000 square-foot single-story building, an attached 36,000 square-foot two-story warehouse building, and a 1,500 square-foot garage. The Sheriff's Department ceased operations at the site and removed laboratory chemicals, hazardous materials, and controlled substances to the Sherriff's new facility. The warehouse portion of site was formerly used to store evidence. The majority of shelves and racks were removed. A hydraulic elevator was present on the western portion of the warehouse. Several refrigerated rooms were also present.

The Crime Lab portion of the site building (single-story building), generally consisted of: numerous laboratories for documents, fingerprints, firearms, forensic biology, forensic - blood/alcohol, controlled substances, and trace evidence; offices; storage rooms; conference rooms; and restrooms / locker rooms. The building was equipped with a diesel-powered emergency generator and associated 4,000-gallon UST near the south-central portion of the site. The building was also equipped with cooling towers, chillers, pumps, and a boiler room. On the southwestern portion of the site, two bullet trap units were present in an outdoor enclosed area.

Paved parking areas were located on the eastern portion of the site and were accessible from Mt. Etna Drive and along Genesee Avenue. The site was relatively flat. Surface runoff is expected to flow toward storm drain inlets located to the north and east of the site.

5.3 Adjacent Property Observations

Adjacent properties were observed from the site and from publicly accessible vantage points during the site reconnaissance. The properties adjacent to the site are as follows and as depicted on Figure 2:

- **North**: Mt. Etna Drive followed from north to northeast by a multi-tenant medical building (4320 Genesee Avenue) and multi-tenant commercial building (4310 Genesee Avenue).
- **East:** Clairemont Medical Center (4282 Genesee Avenue) and Genesee Avenue followed by commercial use properties.

- **South:** Rite Aid (5270 Balboa Avenue) and parking area.
- **West:** An SDG&E easement utilized for parking.

5.4 Site Observations

Ninyo & Moore evaluated the site for evidence of the following potential environmental concerns:

Table 9 – On-Site Observations

Conditions	Observed or Noted	Comments
Hazardous Substances/Petroleum Products	X	Petroleum products observed include hydraulic fluid observed in the elevator equipment reservoir and diesel fuel associated with the backup generator. Hazardous substances include cooling tower chemicals and refrigerants used for the cooling system.
Waste Generation/Storage/Disposal		Not observed
ASTs		Not observed
Potential Evidence of USTs	X	Access covers associated with a 4,000-gallon UST were observed adjacent to the emergency generator. A Veeder Root monitoring system and emergency shut-off switch were observed within the chiller / pump room.
Potential PCB-Containing Equipment	X	A pad-mounted transformer was observed on the south-central portion of the site. No evidence of leaks was observed.
Chemical/Petroleum Odors		Not observed
Concrete Patches/Pads		Not observed
Pools of Liquid		Not observed
Sewage Discharge Pipes		Not observed
Floor Drains/Sumps	X	A sump and pump were observed in a landscaped area near the main entrance to the Crime Lab building.
Elevator	X	The warehouse portion of the site contained a hydraulic freight elevator. An elevator equipment enclosure was present on the first level. No leaks or staining were observed adjacent to the hydraulic reservoir.
Wells		Not observed
Drums	X	Three 55-gallon poly drums were observed adjacent to the cooling towers. One drum contained Aqucar 515, a microbiocide, and the second drum contained CT-535, for cooling water treatment. The label on the third drum was deteriorated and the content is unknown; however it is likely related to the cooling tower.
Unidentified Substance Containers	X	A drum was observed adjacent to the cooling towers had a deteriorated label. The drum likely contained a cooling water treatment chemical.
Stained Soil or Pavement		Not observed
Stressed Vegetation		Not observed
Pits, Ponds, or Lagoons		Not observed
Wastewater Discharges Disposal Systems		Not observed
Septic Systems/Cesspools		Not observed
Municipal Solid Waste Disposal Areas		Not observed

6 VAPOR ENCROACHMENT/INTRUSION

The purpose of the preliminary vapor encroachment screen is to identify a vapor encroachment condition (VEC), which is the presence or likely presence of potential contaminants of concern (COC) vapors in subsurface soils at the site caused by the release of vapors from contaminated soil or groundwater either on or near the site. The potential for VECs beneath the site was evaluated using a Vapor Encroachment Screening Matrix (VESM) in accordance with ASTM E 2600-15 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions. The VESM included performing a Search Distance Test to identify if there are any known or suspect contaminated properties surrounding or upgradient of the site within specific search radii, a COC Test (for those known or suspect contaminated sites identified within the Search Distance Test) to evaluate whether or not COCs are likely to be present, and a Critical Distance Test to evaluate whether or not COCs in a contaminated plume may be within the critical distance of the site (100 feet for non-petroleum hydrocarbon contaminants and 30 feet for petroleum hydrocarbon contaminants).

Based on the completion of the VESM, a VEC could not be ruled out based on the residual contamination associated with the onsite release. However, there is a low potential for a vapor intrusion risk because residual soil contamination did not contain volatiles (BTEX). Offsite properties of potential concern included several gasoline stations with closed unauthorized release cases that impacted groundwater in the site vicinity. Based on the distance from the site, case closed status, depth to groundwater (approximately 50 feet bgs), these properties of potential concern are not likely to pose a vapor intrusion risk to the site. A copy of the VESM is included in Appendix F.

7 INTERVIEWS

Interviews were conducted by Ninyo & Moore with the objective of obtaining information regarding potential RECs in connection with the site. Interviews with present owners, operators, and/or occupants of the site, as well as other knowledgeable parties as appropriate, is mandated by ASTM E 1527-13. A summary of the interviews conducted is provided in the table below.

Table 10 – Interviews	
Representative	**Summary**
Property Owner	Mr. David Timber, Project Manager with the County of San Diego Department of General Services, responded to a property background questionnaire on March 12, 2019. According to Mr. Timber, the site was used as a Sheriff's Regional Crime Lab from 1980 to December 2018. Prior to the County's acquisition of the property, the site was occupied by Clairemont Hospital. The current site consists of a 64,500 square-foot Crime Lab, a 1,500 square-foot garage, and 36,000 square-foot evidence warehouse. The garage was constructed in 1990 and the warehouse was constructed in 1994. The site formerly had a 500-gallon UST, which was removed around 1992, and replaced with a 4,000 gallon UST in the same general area. Mr. Timber provided Law/Crandall documents (see Section 4.2.1) related to the unauthorized release. Mr. Timber stated that lead material, associated with ballistics testing, may have been stored in containers at the site. Chemicals used at the site were associated with water treatment and possibly forensic science-related chemicals.
Occupant	The site was unoccupied at the time of the site visit.
Past Owners	Past ownership entities were not made available to Ninyo & Moore during the preparation of this ESA. Therefore, interviews with past site owners were not conducted.

8 FINDINGS

Based upon the results of this Phase I ESA, the following findings are provided.

- The site is located approximately 200 feet southwest of the Genesee Avenue and Mt. Etna Drive intersection in San Diego, California. Based on a review of historical resources, sometime from 1953 to 1964, the site was developed with a portion of the present-day single-story building on the western portion of the site and occupied by Clairemont Hospital. The site was used as a Sheriff's Regional Crime Lab from 1980 to 2018. The garage was constructed in 1990 and the warehouse was constructed in 1994.

- At the time of the site reconnaissance, the site was vacant and was developed with an approximately 66,000 square-foot single-story building, an attached 36,000 square-foot two-story warehouse building, and a 1,500 square-foot garage. The warehouse portion of site was formerly used to store evidence. The majority of shelves and racks were removed. A hydraulic elevator was present on the western portion of the warehouse. Several refrigerated rooms were also present. The Crime Lab portion of the site (single-story building), generally consisted of: numerous laboratories for documents, fingerprints, firearms, forensic biology, forensic - blood/alcohol, controlled substances, and trace evidence; offices; storage rooms; conference rooms; and restrooms / locker rooms. The building was equipped with a diesel-powered emergency generator and associated UST near the south-central portion of the site. The building was also equipped with cooling towers, chillers, pumps, and a boiler room. On the southwestern portion of the site, two bullet trap units were present in an outdoor enclosed area.

- Paved parking areas were located on the eastern portion of the site and were accessible from Mt. Etna Drive and along Genesee Avenue. The site was relatively flat. Surface flow is expected to flow toward storm drains located to the north and east of the site.

- Both the Clairemont Hospital and Crime Lab are listed in the environmental database report. The Crime Lab has a closed unauthorized release case (H14261-001) associated with a diesel fuel release that impacted soil only. The case was opened in September 1991 and closed in May 1995. The facility is also listed as a small quantity generator (SQG) of waste and is listed as having an active 1,000 gallon motor fuel underground storage tank (UST). Clairemont Hospital is listed in the Historical Cortese database: however, no other information is provided.

- DEH records for the site include compliance inspection reports from 1996 to 2019, UST compliance-related testing, UST permits, and technical reports / correspondence associated with a closed unauthorized release case. The DEH files are summarized below.

  - Compliance Inspections - Compliance inspection reports were reviewed and pertained to inspections related to hazardous materials and waste, biomedical waste, and UST compliance. Generally, one or more of the following types of violations were issued during each inspection:

    - Waste stored longer than the allowed timeframe (90 days) and waste manifests not available.
    - Waste containers improperly labeled and waste storage areas not inspected weekly.
    - Active EPA ID number not maintained.
    - Employee training records not available.
    - Hazardous materials business plan, site map, safety data sheets, and contingency plan not available.
    - Medical waste management plan and updated medical waste disposal procedures not available.
    - UST overfill protection not installed.
    - UST monitoring/calibration records not available.
    - UST operating permit expired.
    - UST continuous monitoring system not certified annually and alarm not functioning properly.
    - UST sensor in containment sump modified to avoid entering in alarm mode.
    - UST spill bucket has fluid.
    - UST written response plan and written monitoring procedures not available.

- Return to compliance documentation was available for the majority of violations beginning in January 2007. According to the December 2018 compliance inspection report, the Crime Lab moved to a new facility in August 2018. The facility's hazardous and medical wastes were disposed of in August and November 2018. Hazardous materials were transferred to the new facility in August 2018. The UST will continue to be maintained. During the inspection, the DEH inspector noted three 55-gallon drums of water treatment chemicals and one cylinder each of acetylene and oxygen (capacities not specified). In January 2019, a UST inspection was performed and no violations were reported.

- UST records were reviewed and were related to inspections, UST pipe replacement activities, and annual testing of the current UST system, which consists of a double-walled, 4,000 gallon UST containing diesel fuel, and a Veeder Root TLS-3000 leak monitoring system. The UST supplies a 500 gallon emergency generator. UST operating permits were on file from August 1998 to the present. The current permit expires in August 2022. During the review of UST testing, no failed tests were found or other evidence of a release.

- UST removal technical reports and DEH documentation associated with the removal of a 1,000 gallon diesel UST in September 1991 and a 500 gallon diesel UST in May 1992 by Clairemont Hospital were reviewed. During the removal of the 1,000 gallon UST, confirmation soil sampling found elevated levels of petroleum hydrocarbons in soil samples from the UST excavation and piping trench and an unauthorized release case (H14261-001) was opened by the DEH. TPH were detected at maximum concentrations of 2,600 mg/kg in the UST excavation and 304 mg/kg in the piping trench. The excavation was backfilled with the excavated material. In November 1991, the area was re-excavated and additional soil samples were collected the sidewalls at depths ranging from 7 to 9 feet bgs and excavation bottom at a depth of approximately 15 feet bgs. Additional samples were also collected from the piping trench. Samples were analyzed for TPH and the sample with the highest concentration was also analyzed for BTEX. Only one sidewall sample collected from the western end of the excavation contained TPH at a concentration of 3,234 mg/kg. The sample did not contain BTEX above the laboratory reporting limit. Approximately 100 cubic yards of excavation spoils were disposed of at Miramar Landfill. The consultant recommended no further action and closure of the unauthorized release case (Law/Crandall, 2002a). In a letter dated December 22, 1993, the DEH requested the following information from Law/Crandall to facilitate case closure: 1) a site map with the location of the 1,000 gallon UST in relationship to the building and street, and 2) a registered professional's estimate of the groundwater depth, gradient, and flow direction.

- According to response letter from Law/Crandall, which included a site plan, the groundwater table was estimated to be at least 80 feet bgs with localized areas of perched water. The groundwater flow direction is estimated to generally flow to the west (Law/Crandall, 1994). In a letter dated May 9, 1995, the DEH closed the unauthorized release case based on the current land use.

- In May 1992, a 500 gallon diesel UST that serviced an emergency generator was removed and replaced with the current 4,000 gallon diesel UST. The UST was removed in the presence of a DEH inspector and soil samples were collected from the bottom of the UST at depths of approximately 6.5 and 8 feet bgs. Soil confirmation samples were analyzed for TPH and were below the laboratory reporting limit (Law/Crandall, 1992b).

- According to APCD records, the Crime Lab has an active permit to operate (PTO-910834) an emergency engine generator set. A NTC was issued in February 1997, which required the Crime Lab to submit an application for a permit for two boilers or permanently eliminate the use of the liquid fuel for the boilers. The fuel line was disconnected from the boilers and the NTC was closed. In February 2018, an APCD inspector performed an inspection of the generator. No violations or NTCs were issued; however, the entry noted that Bay City, a service company, was coming to look at the engine.

- According to City of San Diego Fire-Rescue Department records, a hazardous material permit was found to perform SB989 upgrades to an existing 1,000 gallon diesel UST dated May 2004. Ninyo & Moore notes that the upgrades were likely for the existing 4,000 gallon UST as UST removal permits were also on file to remove a 1,000 gallon diesel UST in August 1991 and a 500 gallon diesel UST in May 1992.

- Site records were requested from the RWQCB and IWCP; however, no records were found.

- Based on the completion of the VESM, a VEC could not be ruled out based on the residual contamination associated with the onsite release. However, there is a low potential for a vapor intrusion risk because residual soil contamination did not contain volatiles (BTEX). Offsite properties of potential concern included several gasoline stations with closed unauthorized release cases that impacted groundwater in the site vicinity. Based on the distance from the site, case closed status, depth to groundwater (approximately 50 feet bgs), these properties of potential concern are not likely to pose a vapor intrusion risk to the site.

- Based on the age of the site structures, asbestos-containing materials (ACM) and lead based paint (LBP) may be present. ACM and LBP are outside the scope of a standard Phase I ESA and are not a REC.

- Based on the completion of the VESM, a VEC was not found.

9 OPINIONS

Our opinions and rationale for concluding whether the conditions listed in Section 8, above, represent RECs, HRECs, or CRECs (i.e., the presence or likely presence of hazardous substances or petroleum products on a property under conditions indicative of releases, past releases, or a material threat of a release of hazardous substances, pollutants, contaminants, and/or petroleum/petroleum products at the site) is provided below.

9.1 Evaluation of Recognized Environmental Conditions

The evaluation of RECs is provided below.

- It is our opinion that the diesel release from the former UST and piping is considered a CREC based on the case closure by the regulatory oversight agency (DEH) with residual contamination left in place. The case closure was based on the current land use of the site.

- It is our opinion that the former use of the site as a Crime Lab and use of hazardous chemicals and the current UST is considered a *de minimis* condition. The Crime Lab and UST system were regularly inspected by the DEH. NOVs were issued, however, corrective actions were performed and the facility returned to compliance. No evidence of a spill or release was found in the DEH documents, nor did the DEH request subsurface sampling.

9.2 Data Gaps

Data gaps encountered included not viewing all areas of the site buildings, including the garage area, and the absence of the User Questionnaire. It is our opinion the data gaps are not considered a significant data gap that would affect the ability of the environmental professional to identify conditions indicative of releases or threatened releases during this Phase I ESA based on the following rationale:

- There were no reported chemical use or maintenance activities performed in the garage.
- Review of the environmental database and regulatory agency records did not indicate that any maintenance activities were performed or waste associated with maintenance activities were generated at the site.
- Based on the completeness of the regulatory and historical records, and interview with other County staff, the absence of the User Questionnaire is not expected to alter the findings or conclusions of this report.

9.3 Additional Appropriate Investigation

It is our opinion that additional appropriate investigation to evaluate RECs at the site is not required.

10 CONCLUSIONS

We have performed a Phase I ESA, in conformance with the scope and limitations of the ASTM Practice E 1527-13, of the property located at 5255 Mt. Etna Drive in San Diego, California. Any exceptions to, or deletions from, this practice are described in Section 1.4 and in the body of this report. This assessment has revealed no evidence of RECs in connection with the property.

11 RECOMMENDATIONS

Based on the findings of this Phase I ESA and planned redevelopment, Ninyo & Moore recommends:

- In future site development, preparation and implementation of a soil management plan (SMP) to be used during construction activities near areas of known contamination (former UST and piping areas). For projects with known or suspected contamination, and where grading or other soil disturbance activities could encounter contaminated media, undocumented USTs, or other unknown contamination or hazards, implementation of a SMP provides protocols to address hazardous conditions, if encountered, in accordance with local, state, federal statuses, and regulations.

- If the existing UST is decommissioned, soil sampling should be performed at the time of the removal to evaluate whether an unauthorized release has occurred.

- Preparation and implementation of an appropriate worker health and safety plan.

- Asbestos-containing material and lead-based paint should be evaluated prior to razing of the site buildings. Surveys should be conducted by California Department of Public Health certified lead inspector/assessors, California Division of Occupational Safety and Health Certified Asbestos Consultants, and /or professionals appropriately qualified in their field in accordance with applicable local, state, and federal guidelines and regulations.

12 REFERENCES

ASTM International, 2013, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E-1527-13.

California Department of Toxic Substances Control, 2019, EnviroStor Website: http://www.envirostor.dtsc.ca.gov/public/: accessed in April.

California Integrated Waste Management Board, 2019, Solid Waste Information System database, http://www.ciwmb.ca.gov/SWIS: accessed in April.

California Regional Water Quality Control Board (RWQCB), 2016, Water Quality Control Plan for the San Diego Basin, amended May 17.

Environmental Data Resources Inc., 2019, Certified Sanborn Map Report, 5225 Mt. Etna Drive, San Diego, California: dated March 4.

Environmental Data Resources Inc., 2019, The EDR Aerial Photograph Decade Package, 5225 Mt. Etna Drive, San Diego, California: dated March 4.

Environmental Data Resources Inc., 2019, EDR Historical Topo Map Report, 5225 Mt. Etna Drive, San Diego, California: dated March 4.

Environmental Data Resources Inc., 2019, The EDR-City Directory Abstract, 5225 Mt. Etna Drive, San Diego, California: dated March 4.

Environmental Data Resources Inc., 2019, The EDR Radius Map Report, 5225 Mt. Etna Drive, San Diego, California: dated March 4.

Kennedy and Tan, 2008, Geologic Map of the San Diego 30' X 60' Quadrangle, San Diego County, California: United States Geological Survey.

Law/Crandall, Inc., 1992a, Report of Environmental Site Assessment and Remediation, Clairemont Hospital, 5255 Mount Etna Drive, San Diego, California: dated April 3.

Law/Crandall, Inc., 1992b, Report of Underground Storage Tank Removal, Clairemont Hospital, 5255 Mount Etna Drive, San Diego, California: dated July 1.

Law/Crandall, Inc., 1994, Responses to SAM Letter dated December 22, 1993, Unauthorized Release #T21111/H14261-001, Clairemont Hospital, 5255 Mount Etna Drive, San Diego, California: dated January 11.

National Pipeline Mapping System, 2019, Public Viewer Website, pvnpms.phmsa.dot.gov/PublicViewer/: accessed in April.

State Water Resources Control Board, 2019, Geotracker Online Database: http://geotracker.swrcb.ca.gov: accessed in April.

United States Geological Survey, 2018, La Jolla, California: 7.5-minute series (topographic), Scale 1:24,000.

13 PROFESSIONAL STATEMENT

As required by 40 CFR §312.21(d) and Section 12.13 of ASTM 1527-13, the following statement is included:

> *I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined by §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.*

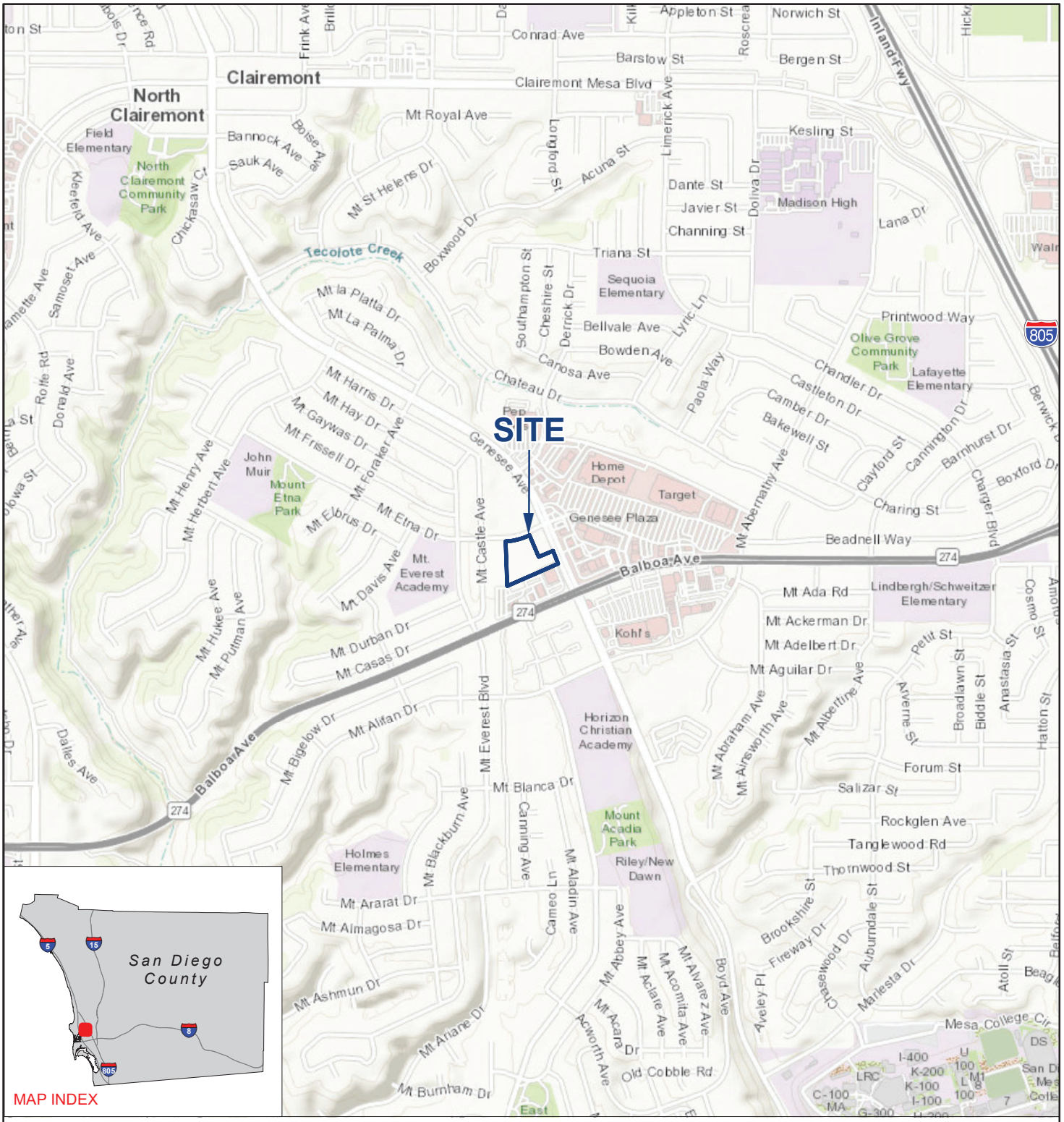


Adrian Olivares
Senior Environmental Scientist

14 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

Resumes, which document the professional qualifications, pursuant to 40 CFR §312.10(b)(2), of the persons that prepared and reviewed this report are provided as Appendix G.

FIGURES



NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE. | SOURCE: ESRI WORLD TOPO, 2019

N

FEET

0 1,500 3,000

1_108768001_SL.mxd 3/25/2019 JDL

FIGURE 1

SITE LOCATION

5225 MT. ETNA DRIVE
SAN DIEGO, CALIFORNIA

108768001 | 6/19

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants



NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE. | SOURCE: GOOGLE EARTH, 2019

2_108768001_SV.mxd 3/29/2019 AOB

FIGURE 2

SITE AND VICINITY

5225 MT. ETNA DRIVE
SAN DIEGO, CALIFORNIA

108768001 | 6/19

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

APPENDIX A

Photographic Documentation



Photograph 1: View of the site, facing south along Mt. Etna Drive.



Photograph 2: View of the main entrance to the site building.



Photograph 3: View of sump and pump, located in landscaped area near the main entrance.



Photograph 4: View of warehouse portion of the site building.



Photograph 5: **View of secure room within the warehouse portion of the site.**



Photograph 6: **View within the warehouse and cold storage rooms.**



Photograph 7: **View of 2nd floor portion of the warehouse area.**



Photograph 8: **View of freight elevator within the warehouse.**



Photograph 9: View of freight elevator hydraulic fluid reservoir and pump.



Photograph 10: View of dry transformer within warehouse.



Photograph 11: **View of backup generator.**



Photograph 12: **View of UST access covers located to the east of the generator.**



Photograph 13: **View of Veeder-Root UST monitoring system.**



Photograph 14: **View of cooling water towers, located on the south-central portion of the site.**



Photograph 15: **View of cooling water tower treatment chemicals.**



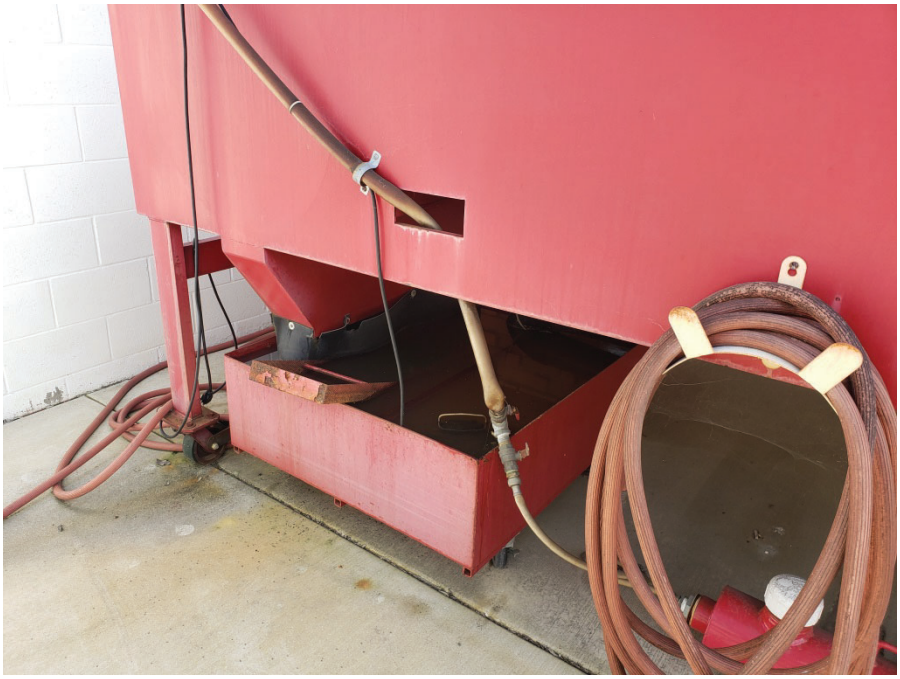
Photograph 16: **View of chiller units.**



Photograph 17: View within boiler room.



Photograph 18: View of bullet trap, located on the south eastern portion of the site.



Photograph 19: View of bullet trap, located on the south eastern portion of the site.



Photograph 20: View of bullet trap, located on the south eastern portion of the site.



Photograph 21: View of bullet trap, located on the south eastern portion of the site.



Photograph 22: View of the southwestern portion of the site.



Photograph 23: View of tires at the southwestern portion of the site.



Photograph 24: View of garage located on the southwestern portion of the site.



Photograph 25: **View of hallway along office / laboratory.**



Photograph 26: **View of laboratory.**



Photograph 27: **View of cold storage room within laboratory.**



Photograph 28: **View of storage area.**



Photograph 29: **View of laboratory area.**



Photograph 30: **View of fume hood.**



Photograph 31: **View of conference room on the southeastern portion of the site.**



Photograph 32: **View of a pad-mounted transformer and storm drain inlet, located at the south-central portion of the site.**



Photograph 33: View from the site facing northwest.



Photograph 34: View from the site facing northeast.



Photograph 35: View from the eastern portion of the site, facing north.



Photograph 36: View from the eastern portion of the site, facing east across Genesee Avenue.



Photograph 37: **View from the southeastern portion of the site, facing west toward the site building.**



Photograph 38: **View near the southern portion of the site, facing southwest.**



Photograph 39: View from the southern portion of the site, facing south.



Photograph 40: View of SDG&E easement and parking area adjacent to the east of the site, facing south.



Photograph 41: **View of SDG&E easement and parking area adjacent to the east of the site, facing north.**

APPENDIX B

User and Property Owner Provided Information

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

5255 Mounty Etna Drive
San Diego, CA
APN: 361-661-1200

Ninyo & Moore Project Number 108768001

GENERAL ENVIRONMENTAL

1. Site was used as a Sheriff's Regional Crime Lab from 1980 to December 2018. It was vacant as of Jan 1, 2019. The site acquired the site in 1990, at which time it had been operating as Clairemont Hospital. The hospital appears in historical photos from 1964 and 1966, and in a 1967 historical topo map, however when it was built is unclear.
2. The Crime Lab consists of three occupancies:

STRUCTURE	GSF
Crime Lab	64,500
Garage	1,500
Evidence Warehouse	36,000

After it acquired the site, the County added the garage and evidence warehouse.

3. Construction dates are as follows: crime lab date unknown, garage 1990, and warehouse 1994.
4. Historical use of site prior to Clairemont Hospital is unknown, however historical photos from 1953 and earlier appear to show the site as open land. We have the following documents for review:
    a. Certified Sanborn Map Review
    b. EDR Radius Map Report with Geotech
    c. EDR Historical Map Review
    d. EDR City Directory Abstract
5. A Law Crandall Engineering site plan indicates a 500-gal. UST was removed, possibly in 1992, and a 4,000 gal. tank then installed in the same general area. We have the following documents for review:
    a. Law Crandall Responses to SAM Letter (1-11-94)
6. As far as I know, only one UST remains (4,000 gal. diesel for the emergency generator)
7. Unknown
8. See Law Crandall letter (1994)

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE, Concl.

9. No
10. Unknown
11. Possibly lead, stored in containers, from ballistic testing
12. Chemicals yes (e.g. water treatment, possibly forensic science chemicals)
13. Unknown
14. Not during County ownership, however unknown prior to County acquisition
15. Municipal sanitary (MS4) system
16. No
17. No
18. Unknown
19. Unknown
20. Unknown
21. Unknown
22. Unknown: Currently no, and probably not in the past
23. Unknown: Currently no, and probably not in the past
24. Unknown for all; however it's possible a gas station may have existed on an adjoining property
25. No known issues
26. Yes. Check with facility operations for UST registration, MSDS, safety plans, stormwater documents, risk assessments
27. No
28. No
29. No

For information regarding highlighted questions, maybe check with facility operations.

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

Site Address:	5225 Mount Etna Drive San Diego, California APN: 361-661-1200	**Project No.**	**108768001**

***Please answer *in good faith and to the best of your ability* and elaborate as much as possible on any question answered "yes."**

General Environmental

1) Describe the current uses of the site. How long has the site been used for these purposes?

2) Describe the structures previously present at the site and their usage/occupants and age.

3) When were the structures constructed, if known?

4) What is the historical land use of the site? Describe the past uses, owners, and operators of the site. (Be as detailed as possible and note approximate time periods, if known.)

5) Are there currently, or were there previously any underground storage tanks (USTs) at the site? If so, please describe their capacities and contents.

6) Have all USTs been removed from the site? If so, when?

7) Was associated underground piping associated with the USTs removed?

8) Was soil and/or groundwater sampling conducted at the time of UST removal? If so, please describe.

9) Are you aware of any environmental issues associated with the site or of potential soil and/or groundwater contamination?

[ ] Yes [ ] No

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

Site Address:	5225 Mount Etna Drive San Diego, California APN: 361-661-1200	Project No.	108768001

10) Have fill soils been brought to the property?

[ ] Yes [ ] No [ ] Unknown

11) Has there been storage of hazardous materials or wastes on the property?

[ ] Yes [ ] No [ ] Unknown

12) Have any of the following items been stored on the site in containers greater than 5 gallons?

Paint [ ] Yes [ ] No [ ] Unknown
Chemicals [ ] Yes [ ] No [ ] Unknown
Pesticides/Herbicides [ ] Yes [ ] No [ ] Unknown
Automotive-Related Oils/Fuels [ ] Yes [ ] No [ ] Unknown

13) Have there been any spills or releases of chemicals, hazardous substances, or wastes on the property?

[ ] Yes [ ] No [ ] Unknown

14) Have any hazardous substances, petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or other waste materials been dumped aboveground, buried, or burned on the site?

[ ] Yes [ ] No [ ] Unknown

15) Is the site hooked up to a municipal sanitary sewer system or is there a septic tank/system?

[ ] Sanitary Sewer [ ] Septic

16) Are/were there any subsurface wastewater features, such as sumps, clarifiers, discharge systems, at the site?

[ ] Yes [ ] No [ ] Unknown

17) Does the site discharge wastewater, other than domestic wastewater or storm water, into the sewer or onto another property?

[ ] Yes [ ] No [ ] Unknown

18) Other than permission for domestic hookup, have any city, county, or other permits for wastewater discharge been issued to the site?

[ ] Yes [ ] No [ ] Unknown

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

Site Address:	5225 Mount Etna Drive San Diego, California APN: 361-661-1200	Project No.	108768001

19) Is there a transformer, capacitor, or other equipment that may contain PCBs on the site?

[ ] Yes [ ] No [ ] Unknown

20) Other than small quantities of legal pesticides used for landscape maintenance (e.g., Roundup), have pesticides, herbicides, or insecticides been applied on the site?

[ ] Yes [ ] No [ ] Unknown

21) Are/were there any wells on the site (e.g., water supply wells, groundwater monitoring wells, etc.)

[ ] Yes [ ] No [ ] Unknown

22) Are there currently, or were there previously, any pits, ponds, or lagoons on the site?

[ ] Yes [ ] No [ ] Unknown

23) Are there currently, or were there previously, areas on the site with stained soil?

[ ] Yes [ ] No [ ] Unknown

24) To your knowledge, have adjoining properties been used for industrial activities, such the following? (Please note that an adjoining property is a property that is contiguous with, or directly across the street from the site.)

Gasoline Station [ ] Yes [ ] No [ ] Unknown
Printing Facility [ ] Yes [ ] No [ ] Unknown
Metal Plating/Manufacturing [ ] Yes [ ] No [ ] Unknown
Landfill [ ] Yes [ ] No [ ] Unknown
Auto Repair Facility [ ] Yes [ ] No [ ] Unknown
Dry Cleaners [ ] Yes [ ] No [ ] Unknown
Junkyard [ ] Yes [ ] No [ ] Unknown
Waste or Wastewater Treatment [ ] Yes [ ] No [ ] Unknown
Storage, Disposal, or Recycling Facility [ ] Yes [ ] No [ ] Unknown

25) Are there any known issues related to spills/contamination with adjoining or nearby properties?

[ ] Yes [ ] No [ ] Unknown

26) Are you aware of any previously prepared documentation for the site, such as:

- environmental sampling, compliance audit, or assessment reports
- environmental permits
- registrations for aboveground or underground storage tanks
- material safety data sheets (MSDS)
- community right-to-know plans
- safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans
- geotechnical or hydrogeologic reports
- storm water documents
- risk assessments

(If so, are they available for review?)

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

Site Address:	5225 Mount Etna Drive San Diego, California APN: 361-661-1200	**Project No.**	**108768001**

Legal/Activity and Use Limitations

27) Are you aware of any environmental cleanup liens or activity and use limitations such as engineering controls, land use or deed restrictions or institutional controls associated with the site that are filed or recorded under federal, tribal, state, or local law?

[ ] Yes [ ] No

28) Are you aware of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?

[ ] Yes [ ] No

29) Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

[ ] Yes [ ] No

_____ _____
NAME (IN PRINT) DATE

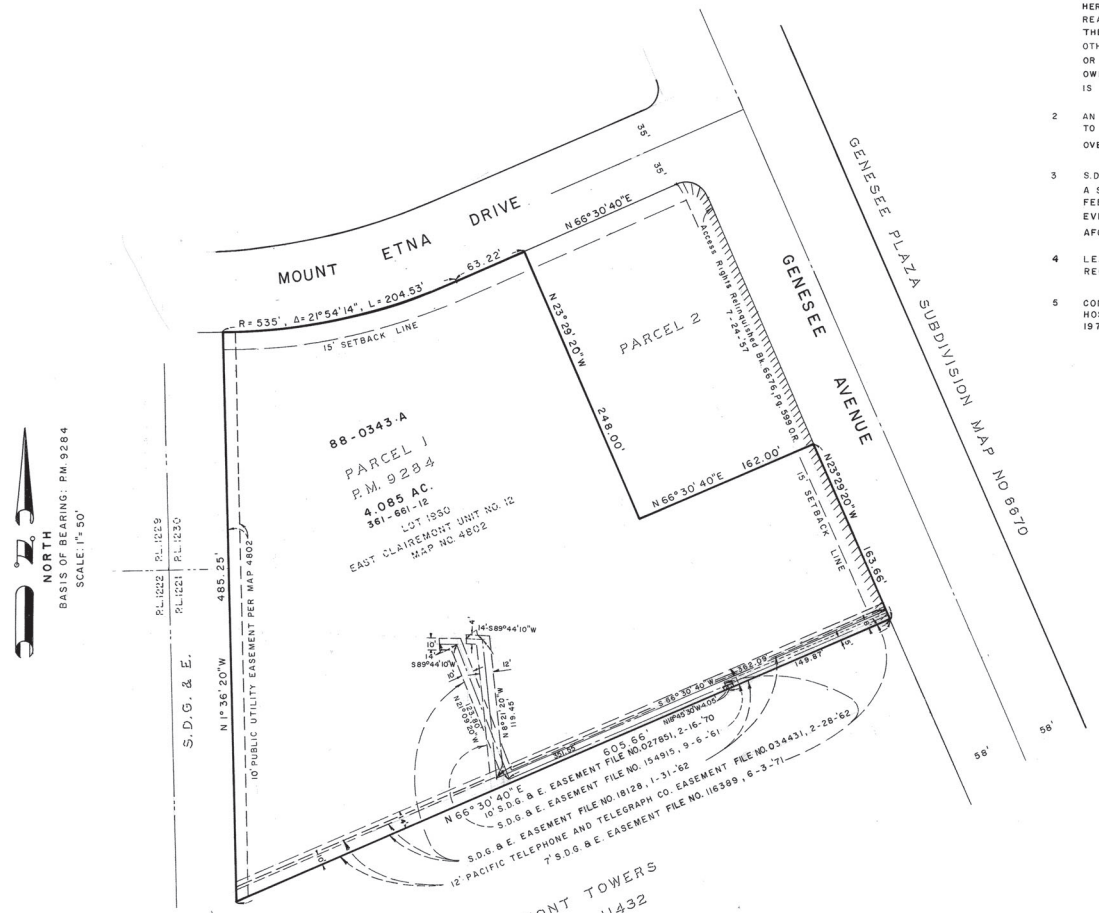
_____
SIGNATURE

[ ] Owner [ ] Occupant [ ] Owner Representative [ ] Other:

***When complete, return questionnaire via email, fax, and/or mail to the following:**

Mr. Adrian Olivares
Senior Project Environmental Scientist
Ninyo and Moore
5710 Ruffin Road
San Diego, California 92123
aolivares@ninyoandmoore.com
(858) 576-1000 Office
(858) 576-9600 FAX

PLANS	DATE	COORDINATE INDEX
PREPARED BY:		N= E=
REVIEWED BY:		W.A. NO: T.E. 3364



ADDITIONAL EASEMENTS:

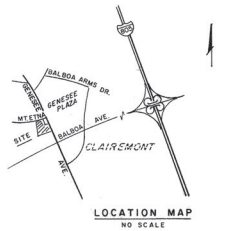
1 RESERVED ON MAP NO. 4802:
TO THE OWNER OF THE FEE UNDERLYING ANY EASEMENT HEREIN DEDICATED, THE CONTINUED USE OF THE SURFACE OF THE SAID REAL PROPERTY, SUBJECT, HOWEVER, TO THE FOLLOWING CONDITIONS: THE ERECTION OF BUILDINGS, MASONRY WALLS, MASONRY FENCES AND OTHER STRUCTURES, OR THE PLANTING OR GROWING OF TREES OR SHRUBS, OR CHANGING THE SURFACE GRADE, OR THE INSTALLATION OF PRIVATELY OWNED PIPELINES SHALL BE PROHIBITED, UNLESS WRITTEN PERMISSION IS FIRST OBTAINED FROM THE CITY OF SAN DIEGO.

2 AN EASEMENT FOR INGRESS AND EGRESS & INCIDENTAL PURPOSES TO G.M. SHUMAKER & LESLIE EADE, RECORDED FILE NO.159149, 9-6-'63 OVER AND ANY 30 FEET IN PARKING LOT OF SAID PROPERTY.

3 S.D.G. & E. EASEMENT F/P 81-075379, 3-12-'81
A STRIP OF LAND SIX FEET OR MORE IN WIDTH, BEING THREE FEET MEASURED AT RIGHT ANGLES, ON EACH SIDE OF EACH AND EVERY ELECTRIC UTILITY FACILITY INSTALLED WITHIN THE AFOREDESCRIBED LANDS ON OR BEFORE MARCH 31, 1987

4 LEASE TO CLAIREMONT GENERAL HOSPITAL PER MEMORANDUM RECORDED APRIL 16, 1962 AS FILE NO. 64167

5 CONDITIONAL USE PERMIT TO CONSTRUCT AND OPERATE A 208 BED HOSPITAL ISSUED BY THE CITY OF SAN DIEGO, RECORDED AUGUST 24, 1970 AS FILE NO. 152269



LOCATION MAP
NO SCALE

DEPARTMENT OF **GENERAL SERVICES**
REAL PROPERTY MANAGEMENT DIVISION
COUNTY OF SAN DIEGO
5555 OVERLAND AVENUE, SAN DIEGO, CALIFORNIA, 92123

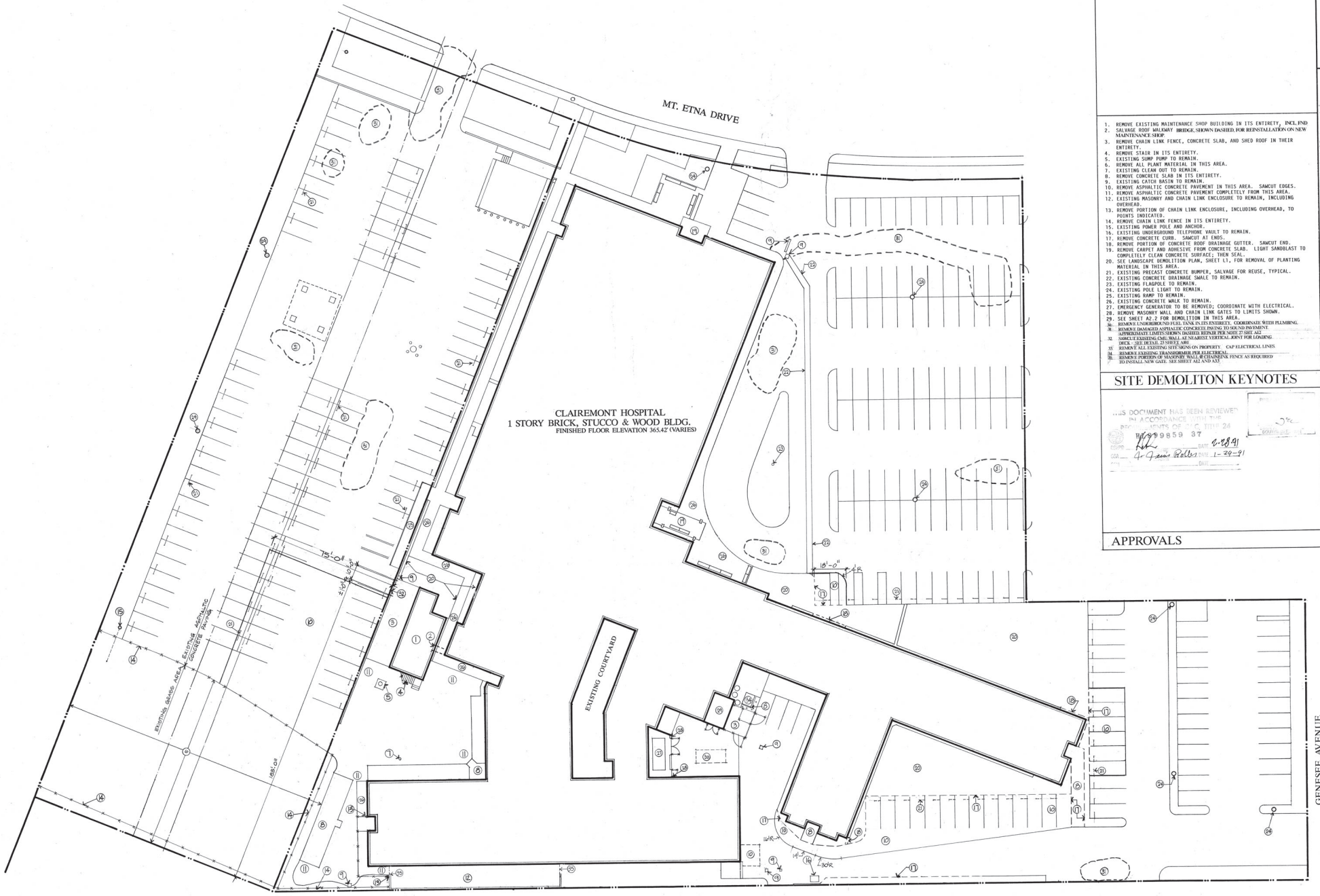
RECOMMENDED BY: _____ DATE: _____
_____ DATE: _____
APPROVED FOR ACQUISITION BY: _____ DATE: _____

REVISIONS	APPROVED	DATE	REVISIONS	APPROVED	DATE

RIGHT OF WAY PLANS
for
CLAIREMONT HOSPITAL SITE

SCALE: 1" = 50' SHEET 1 OF 1

CLCL



1. REMOVE EXISTING MAINTENANCE SHOP BUILDING IN ITS ENTIRETY, INCL FND
2. SALVAGE ROOF WALKWAY BRIDGE, SHOWN DASHED, FOR REINSTALLATION ON NEW MAINTENANCE SHOP.
3. REMOVE CHAIN LINK FENCE, CONCRETE SLAB, AND SHED ROOF IN THEIR ENTIRETY.
4. REMOVE STAIR IN ITS ENTIRETY.
5. EXISTING SUMP PUMP TO REMAIN.
6. REMOVE ALL PLANT MATERIAL IN THIS AREA.
7. EXISTING CLEAN OUT TO REMAIN.
8. REMOVE CONCRETE SLAB IN ITS ENTIRETY.
9. EXISTING CATCH BASIN TO REMAIN.
10. REMOVE ASPHALTIC CONCRETE PAVEMENT IN THIS AREA. SAWCUT EDGES.
11. REMOVE ASPHALTIC CONCRETE PAVEMENT COMPLETELY FROM THIS AREA.
12. EXISTING MASONRY AND CHAIN LINK ENCLOSURE TO REMAIN, INCLUDING OVERHEAD.
13. REMOVE PORTION OF CHAIN LINK ENCLOSURE, INCLUDING OVERHEAD, TO POINTS INDICATED.
14. REMOVE CHAIN LINK FENCE IN ITS ENTIRETY.
15. EXISTING POWER POLE AND ANCHOR.
16. EXISTING UNDERGROUND TELEPHONE VAULT TO REMAIN.
17. REMOVE CONCRETE CURB. SAWCUT AT ENDS.
18. REMOVE PORTION OF CONCRETE ROOF DRAINAGE GUTTER. SAWCUT END.
19. REMOVE CARPET AND ADHESIVE FROM CONCRETE SLAB. LIGHT SANDBLAST TO COMPLETELY CLEAN CONCRETE SURFACE; THEN SEAL.
20. SEE LANDSCAPE DEMOLITION PLAN, SHEET L1, FOR REMOVAL OF PLANTING MATERIAL IN THIS AREA.
21. EXISTING PRECAST CONCRETE BUMPER, SALVAGE FOR REUSE, TYPICAL.
22. EXISTING CONCRETE DRAINAGE SWALE TO REMAIN.
23. EXISTING FLAGPOLE TO REMAIN.
24. EXISTING POLE LIGHT TO REMAIN.
25. EXISTING RAMP TO REMAIN.
26. EXISTING CONCRETE WALK TO REMAIN.
27. EMERGENCY GENERATOR TO BE REMOVED; COORDINATE WITH ELECTRICAL.
28. REMOVE MASONRY WALL AND CHAIN LINK GATES TO LIMITS SHOWN.
29. SEE SHEET A2.2 FOR DEMOLITION IN THIS AREA.
30. REMOVE UNDERGROUND FUEL TANK IN ITS ENTIRETY. COORDINATE WITH PLUMBING.
31. REMOVE DAMAGED ASPHALTIC CONCRETE PAVING TO SOUND PAVEMENT. APPROXIMATE LIMITS SHOWN DASHED. REPAIR PER NOTE 27 SHT A1.2
32. SAWCUT EXISTING CMU WALL AT NEAREST VERTICAL JOINT FOR LOADING DOCK - SEE DETAIL 25 SHEET A6.1
33. REMOVE ALL EXISTING SITE SIGNS ON PROPERTY. CAP ELECTRICAL LINES
34. REMOVE EXISTING TRANSFORMER PER ELECTRICAL.
35. REMOVE PORTION OF MASONRY WALL & CHAIN LINK FENCE AS REQUIRED TO INSTALL NEW GATE. SEE SHEET A1.2 AND A3.3

SITE DEMOLITON KEYNOTES

...IS DOCUMENT HAS BEEN REVIEWED IN ACCORDANCE WITH THE ...REMENTS OF U.C. TITLE 24
ENFORCEMENT AGENCY
BY 99859 37
DATE 2-28-91
USA 4-Jean Roller DATE 1-29-91
DATE

APPROVALS

REVISIONS

CLAIREMONT HOSPITAL RENOVATIONS
COUNTY OF SAN DIEGO PROJECT KK9743
SAN DIEGO, CALIFORNIA

THE STICHLER DESIGN GROUP, INC.
ARCHITECTURE PLANNING INTERIORS
9245 SKYPARK COURT, SUITE 200
SAN DIEGO, CALIFORNIA 92123-4311 (619)565-4440

PROJECT 88147.1
DATE 23 MAY 90
DRAWN
APPROVED

SITE PLAN-DEMOLITION

A1.1

SITE PLAN-DEMOLITION

NORTH
0 2 4 10 20
SCALE: 1" = 20'-0"



ELISE ROTHSCHILD
DIRECTOR

County of San Diego

AMY HARBERT
ASSISTANT DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
COMMUNITY HEALTH DIVISION
5570 Overland Ave, Suite 102, San Diego, CA 92123
(858) 694-2888 FAX (858) 571-4268
www.sdcdeh.org

January 12, 2017

TO: Leonard Gonzales, Project Manager
Facilities Division
Sheriff

FROM: Rebecca Lafreniere, Deputy Director
Department of Environmental Health

SAMPLING AND ANALYSIS OF BULLET TANK WATER: SHERIFF CRIME LABORATORY, 5255 MT. ETNA DRIVE, SAN DIEGO

The attached electronic staff report provides results of the above referenced project. The report specifies recommendations to reduce/eliminate any identified problems.

If you have further questions, or desire a hard copy of this report and are unable to print from the electronic format, please contact Mark Middlestead, Industrial Hygienist at (858) 694-2118 or e-mail mark.middlestead@sdcounty.ca.gov.

(for)

REBECCA LAFRENIERE, Deputy Director
Department of Environmental Health

RL: mm: 1617-127 report.doc

Attachment

cc: anthony.demaria@sdsheriff.org
rich.debevec@sdsheriff.org

COUNTY OF SAN DIEGO

INTER-DEPARTMENTAL CORRESPONDENCE

January 12, 2017

TO: Suzy Shamsky, Supervising Industrial Hygienist
Occupational Health Program
Community Health Division

FROM: Mark Middlestead, Industrial Hygienist III
Occupational Health Program
Community Health Division

SAMPLING AND ANALYSIS OF BULLET TANK WATER: SHERIFF CRIME LABORATORY, 5255 MT. ETNA DRIVE, SAN DIEGO

SUMMARY

Subsequent to a request from Leonard Gonzales, Project Manager, Sheriff, the Occupational Health Program (OHP) collected samples of water from the bullet tank located at the Sheriff Crime Laboratory, 5255 Mt. Etna Drive in San Diego. The purpose of the sampling was to determine whether the water is considered hazardous or non-hazardous waste as defined by California regulations prior to disposal.

After review of the bullet tank process and talking with crime lab staff, a sampling strategy was developed to characterize the hazardous waste properties of the water for heavy metals and pH.

The results of the testing showed that all of the samples were below the hazardous waste limits for the various metals tested. Moreover, the pH testing of the water was approximately neutral. Based on these analytical results, the bullet tank water does not appear to be hazardous waste. However, the Sheriff should contact the appropriate wastewater agency to check if there are any permitting requirements prior to disposal of the water.

If the Sheriff becomes aware of conditions that may substantially change the make-up of the bullet tank water (that is, changes that make this analysis no longer representative), then the water must be reassessed and re-characterized.

For more detailed information, please see the DISCUSSION and RECOMMENDATIONS sections that follow.

DISCUSSION

The Sheriff Crime Laboratory is preparing to move to a new facility in the near future. The current facility, located at 5255 Mount Etna Drive, will be replaced by a new facility that is under construction at the County Operations Center. As part of this move, the existing bullet tank will be replaced by a new bullet tank. Mr. Gonzales requested that our program evaluate the water in the existing bullet tank for its potential hazardous waste properties prior to disposal of the water.

In order to develop a sampling strategy, I evaluated the existing bullet tank and process by speaking with crime lab staff, and reviewing information on the new bullet tank. Bullet tanks are used as tools for testing the ballistics of particular weapons used in crimes (see Attachment 1). The existing bullet tank is constructed of stainless steel and was installed approximately 6-7 years ago. According to crime lab staff, chemicals have not been added to water tank; even though the manufacturer (Cyber National) provides various pool type chemicals for inhibiting algae growth etc. The new proposed bullet tank is similar to the existing tank in use and function, and the manufacturer is the same.

The bullet tank is used on a weekly basis. When used, a weapon is shot through a small opening in the tank and the bullet is collected from the water for ballistic testing. Typically, each weapon is discharged 3-4 times, and the casings and any visible debris are collected during the process. The tank is used on a weekly basis. Prior to and during the shooting process ventilation is used over the headspace of the water to capture airborne particulate and move it away from the shooter. The water is also filtered during the process. According to crime lab staff, the tank is rarely drained and the filters (air and water) are disposed as hazardous waste.

Based on this information, a sampling strategy was developed to analyze the tank water for California Title 22 California Code of Regulations (CCR) metals and pH. The Title 22 metals are listed in Table II in Section 66261.24; Title 22 CCR Metals-Table II. OHP reviewed the sampling strategy with the Hazardous Materials Division (HMD) who thought it was a reasonable approach.

Prior to collecting the water samples, the tank system was turned on to circulate the water. Three samples were collected for metal analysis and an additional three samples were collected for pH. The samples were delivered to EnviroMatrix Analytical Inc. for analysis. EnviroMatrix is an accredited hazardous waste laboratory. The results of the metals analysis were compared to the regulatory limits and all of the metals were below the respective California Title 22 threshold limits for each particular metal. Moreover, the pH for all of the samples was approximately neutral. A copy of the sampling results is provided as Attachment 2.

RECOMMENDATIONS

1. Based on the analytical results the bullet tank water is not considered a hazardous waste. Moreover, because the new proposed tank is made by the same manufacturer, is similar in type and the process, it seems reasonable that these results could be used for characterizing the new tank water once it is in use. However, if Sheriff becomes aware of conditions that may substantially change the waste stream (that is, changes that make this analysis no longer representative), the water must be reevaluated and re-characterized.

2. The Sheriff should keep records of the waste determination provided in this report.

3. The Sheriff should contact the appropriate wastewater agency to verify if there are any permitting requirements prior to disposal of the water from the old bullet tank, and if any requirements may be necessary for the installation of the new tank.

If you have any questions, please contact me.



Mark Middlestead, Industrial Hygienist III
Occupational Health Program

mm: 1617-127 report.doc

Attachment 1





Bullet Tank

EnviroMatrix Analytical, Inc.

07 January 2017

County of San Diego
Attn: Mark Middlestead
5555 Overland Drive, Blg. 2, Suite 2260
San Diego, California 92123-1248

EMA Log #: 16L0670

Project Name: Bullet Tank/1617-127

Enclosed are the results of analyses for samples received by the laboratory on 12/19/16 14:47. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

Dan Verdon
Laboratory Director

CA ELAP Certification #: 2564

Client Name: County of San Diego
Project Name: Bullet Tank/1617-127

EMA Log #: 16L0670

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BT-01	16L0670-01	Wastewater	12/19/16 14:00	12/19/16 14:47
BT-02	16L0670-02	Wastewater	12/19/16 14:00	12/19/16 14:47
BT-03	16L0670-03	Wastewater	12/19/16 14:00	12/19/16 14:47
BT-04	16L0670-04	Wastewater	12/19/16 14:00	12/19/16 14:47
BT-05	16L0670-05	Wastewater	12/19/16 14:00	12/19/16 14:47
BT-06	16L0670-06	Wastewater	12/19/16 14:00	12/19/16 14:47

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: County of San Diego
Project Name: Bullet Tank/1617-127

EMA Log #: 16L0670

Total Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BT-01 (16L0670-01) Wastewater	**Sampled: 12/19/16 14:00**		**Received: 12/19/16 14:47**						
Antimony	**0.91**	0.10	mg/l	1	7010531	01/05/17	01/06/17	EPA 6010	
Arsenic	ND	0.01	"	"	"	"	"	"	
Barium	**0.41**	0.10	"	"	"	"	"	"	
Beryllium	ND	0.01	"	"	"	"	01/06/17	"	
Cadmium	ND	0.01	"	"	"	"	01/06/17	"	
Chromium	ND	0.05	"	"	"	"	"	"	
Cobalt	ND	0.05	"	"	"	"	"	"	
Copper	**0.29**	0.05	"	"	"	"	"	"	
Lead	**0.60**	0.01	"	"	"	"	"	"	
Molybdenum	ND	0.05	"	"	"	"	"	"	
Nickel	ND	0.05	"	"	"	"	"	"	
Selenium	**0.02**	0.01	"	"	"	"	"	"	
Silver	ND	0.005	"	"	"	"	"	"	
Thallium	ND	0.01	"	"	"	"	"	"	
Vanadium	ND	0.05	"	"	"	"	"	"	
Zinc	**0.23**	0.05	"	"	"	"	"	"	
Mercury	ND	0.0001	"	"	7010437	01/04/17	01/04/17	EPA 7470	
BT-02 (16L0670-02) Wastewater	**Sampled: 12/19/16 14:00**		**Received: 12/19/16 14:47**						
Antimony	**0.90**	0.10	mg/l	1	7010531	01/05/17	01/06/17	EPA 6010	
Arsenic	ND	0.01	"	"	"	"	"	"	
Barium	**0.24**	0.10	"	"	"	"	"	"	
Beryllium	ND	0.01	"	"	"	"	01/06/17	"	
Cadmium	ND	0.01	"	"	"	"	01/06/17	"	
Chromium	ND	0.05	"	"	"	"	"	"	
Cobalt	ND	0.05	"	"	"	"	"	"	
Copper	**0.29**	0.05	"	"	"	"	"	"	
Lead	**0.46**	0.01	"	"	"	"	"	"	
Molybdenum	ND	0.05	"	"	"	"	"	"	
Nickel	ND	0.05	"	"	"	"	"	"	
Selenium	**0.02**	0.01	"	"	"	"	"	"	
Silver	ND	0.005	"	"	"	"	"	"	
Thallium	ND	0.01	"	"	"	"	"	"	
Vanadium	ND	0.05	"	"	"	"	"	"	
Zinc	**0.27**	0.05	"	"	"	"	"	"	
Mercury	ND	0.0001	"	"	7010437	01/04/17	01/04/17	EPA 7470	

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Client Name: County of San Diego
Project Name: Bullet Tank/1617-127

EMA Log #: 16L0670

Total Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BT-03 (16L0670-03) Wastewater Sampled: 12/19/16 14:00 Received: 12/19/16 14:47									
Antimony	ND	0.10	mg/l	1	7010531	01/05/17	01/06/17	EPA 6010	
Arsenic	ND	0.01	"	"	"	"	"	"	
Barium	ND	0.10	"	"	"	"	"	"	
Beryllium	ND	0.01	"	"	"	"	01/06/17	"	
Cadmium	ND	0.01	"	"	"	"	01/06/17	"	
Chromium	ND	0.05	"	"	"	"	"	"	
Cobalt	ND	0.05	"	"	"	"	"	"	
Copper	ND	0.05	"	"	"	"	"	"	
Lead	ND	0.01	"	"	"	"	"	"	
Molybdenum	**0.05**	0.05	"	"	"	"	"	"	
Nickel	ND	0.05	"	"	"	"	"	"	
Selenium	**0.02**	0.01	"	"	"	"	"	"	
Silver	ND	0.005	"	"	"	"	"	"	
Thallium	ND	0.01	"	"	"	"	"	"	
Vanadium	ND	0.05	"	"	"	"	"	"	
Zinc	ND	0.05	"	"	"	"	"	"	
Mercury	ND	0.0001	"	"	7010437	01/04/17	01/04/17	EPA 7470	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: County of San Diego
Project Name: Bullet Tank/1617-127

EMA Log #: 16L0670

Conventional Chemistry Parameters by Standard/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BT-04 (16L0670-04) Wastewater	**Sampled: 12/19/16 14:00**		**Received: 12/19/16 14:47**						
pH	**7.82**	0.10	pH Units	1	6122026	12/19/16	12/19/16	SM4500-H+ B	HT-15
BT-05 (16L0670-05) Wastewater	**Sampled: 12/19/16 14:00**		**Received: 12/19/16 14:47**						
pH	**7.92**	0.10	pH Units	1	6122026	12/19/16	12/19/16	SM4500-H+ B	HT-15
BT-06 (16L0670-06) Wastewater	**Sampled: 12/19/16 14:00**		**Received: 12/19/16 14:47**						
pH	**7.94**	0.10	pH Units	1	6122026	12/19/16	12/19/16	SM4500-H+ B	HT-15

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Client Name: County of San Diego
Project Name: Bullet Tank/1617-127

EMA Log #: 16L0670

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7010437										
Blank (7010437-BLK1)				Prepared & Analyzed: 01/04/17						
Mercury	ND	0.0001	mg/l							
LCS (7010437-BS1)				Prepared & Analyzed: 01/04/17						
Mercury	0.002	0.0001	mg/l	0.00200		103	75-125			
LCS Dup (7010437-BSD1)				Prepared & Analyzed: 01/04/17						
Mercury	0.002	0.0001	mg/l	0.00200		102	75-125	2	20	
Duplicate (7010437-DUP1)		**Source: 17A0079-01**		Prepared & Analyzed: 01/04/17						
Mercury	ND	0.0001	mg/l		ND				20	
Matrix Spike (7010437-MS1)		**Source: 17A0079-01**		Prepared & Analyzed: 01/04/17						
Mercury	0.002	0.0001	mg/l	0.00200	ND	97	75-125			
Matrix Spike Dup (7010437-MSD1)		**Source: 17A0079-01**		Prepared & Analyzed: 01/04/17						
Mercury	0.002	0.0001	mg/l	0.00200	ND	95	75-125	2	20	
Batch 7010531										
Blank (7010531-BLK1)				Prepared: 01/05/17 Analyzed: 01/06/17						
Antimony	ND	0.10	mg/l							
Arsenic	ND	0.01	"							
Barium	ND	0.10	"							
Beryllium	ND	0.01	"							
Cadmium	ND	0.01	"							
Chromium	ND	0.05	"							
Cobalt	ND	0.05	"							
Copper	ND	0.05	"							
Lead	ND	0.01	"							
Molybdenum	ND	0.05	"							
Nickel	ND	0.05	"							
Selenium	ND	0.01	"							
Silver	ND	0.005	"							
Thallium	ND	0.01	"							
Vanadium	ND	0.05	"							
Zinc	ND	0.05	"							

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Client Name: County of San Diego
Project Name: Bullet Tank/1617-127

EMA Log #: 16L0670

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7010531										
LCS (7010531-BS1)				Prepared: 01/05/17 Analyzed: 01/06/17						
Antimony	0.98	0.10	mg/l	1.00		98	75-125			
Arsenic	0.95	0.01	"	1.00		95	75-125			
Barium	1.01	0.10	"	1.00		101	75-125			
Beryllium	1.05	0.01	"	1.00		105	75-125			
Cadmium	0.98	0.01	"	1.00		98	75-125			
Chromium	1.01	0.05	"	1.00		101	75-125			
Cobalt	0.99	0.05	"	1.00		99	75-125			
Copper	1.04	0.05	"	1.00		104	75-125			
Lead	1.03	0.01	"	1.00		103	75-125			
Molybdenum	0.99	0.05	"	1.00		99	75-125			
Nickel	0.95	0.05	"	1.00		95	75-125			
Selenium	0.92	0.01	"	1.00		92	75-125			
Silver	0.48	0.005	"	0.500		96	75-125			
Thallium	0.99	0.01	"	1.00		99	75-125			
Vanadium	1.04	0.05	"	1.00		104	75-125			
Zinc	0.95	0.05	"	1.00		95	75-125			
LCS Dup (7010531-BSD1)				Prepared: 01/05/17 Analyzed: 01/06/17						
Antimony	0.96	0.10	mg/l	1.00		96	75-125	1	20	
Arsenic	0.93	0.01	"	1.00		93	75-125	2	20	
Barium	0.97	0.10	"	1.00		97	75-125	4	20	
Beryllium	1.02	0.01	"	1.00		102	75-125	3	20	
Cadmium	0.94	0.01	"	1.00		94	75-125	4	20	
Chromium	0.97	0.05	"	1.00		97	75-125	4	20	
Cobalt	0.95	0.05	"	1.00		95	75-125	4	20	
Copper	1.00	0.05	"	1.00		100	75-125	3	20	
Lead	1.00	0.01	"	1.00		100	75-125	3	20	
Molybdenum	0.96	0.05	"	1.00		96	75-125	4	20	
Nickel	0.92	0.05	"	1.00		92	75-125	4	20	
Selenium	0.90	0.01	"	1.00		90	75-125	3	20	
Silver	0.48	0.005	"	0.500		95	75-125	1	20	
Thallium	0.96	0.01	"	1.00		96	75-125	3	20	
Vanadium	1.00	0.05	"	1.00		100	75-125	4	20	
Zinc	0.91	0.05	"	1.00		91	75-125	5	20	

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Client Name: County of San Diego
Project Name: Bullet Tank/1617-127

EMA Log #: 16L0670

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7010531										
Duplicate (7010531-DUP1)		**Source: 16L0670-01**		Prepared: 01/05/17 Analyzed: 01/06/17						
Antimony	1.02	0.10	mg/l		0.91			11	20	
Arsenic	ND	0.01	"		ND				20	
Barium	0.59	0.10	"		0.41			35	20	QR-02
Beryllium	ND	0.01	"		ND				20	
Cadmium	ND	0.01	"		ND				20	
Chromium	0.002	0.05	"		ND				20	
Cobalt	ND	0.05	"		ND				20	
Copper	0.33	0.05	"		0.29			13	20	
Lead	0.75	0.01	"		0.60			23	20	QR-02
Molybdenum	ND	0.05	"		ND				20	
Nickel	0.03	0.05	"		0.03			11	20	
Selenium	0.03	0.01	"		0.02			35	20	QR-02
Silver	ND	0.005	"		ND				20	
Thallium	ND	0.01	"		ND				20	
Vanadium	ND	0.05	"		ND				20	
Zinc	0.26	0.05	"		0.23			13	20	
Matrix Spike (7010531-MS1)		**Source: 16L0670-02**		Prepared: 01/05/17 Analyzed: 01/06/17						
Antimony	1.96	0.10	mg/l	1.00	0.90	105	75-125			
Arsenic	0.99	0.01	"	1.00	ND	99	75-125			
Barium	1.42	0.10	"	1.00	0.24	119	75-125			
Beryllium	1.06	0.01	"	1.00	ND	106	75-125			
Cadmium	0.94	0.01	"	1.00	ND	94	75-125			
Chromium	0.98	0.05	"	1.00	ND	98	75-125			
Cobalt	0.93	0.05	"	1.00	ND	93	75-125			
Copper	1.30	0.05	"	1.00	0.29	101	75-125			
Lead	1.58	0.01	"	1.00	0.46	111	75-125			
Molybdenum	1.04	0.05	"	1.00	ND	104	75-125			
Nickel	0.97	0.05	"	1.00	0.03	94	75-125			
Selenium	0.96	0.01	"	1.00	0.02	94	75-125			
Silver	0.46	0.005	"	0.500	ND	91	75-125			
Thallium	0.89	0.01	"	1.00	ND	89	75-125			
Vanadium	1.04	0.05	"	1.00	ND	104	75-125			
Zinc	1.17	0.05	"	1.00	0.27	89	75-125			

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Client Name: County of San Diego
Project Name: Bullet Tank/1617-127

EMA Log #: 16L0670

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7010531										
Matrix Spike Dup (7010531-MSD1)		**Source: 16L0670-02**		Prepared: 01/05/17 Analyzed: 01/06/17						
Antimony	1.96	0.10	mg/l	1.00	0.90	106	75-125	0.4	20	
Arsenic	1.00	0.01	"	1.00	ND	100	75-125	0.5	20	
Barium	1.42	0.10	"	1.00	0.24	119	75-125	0.07	20	
Beryllium	1.05	0.01	"	1.00	ND	105	75-125	2	20	
Cadmium	0.94	0.01	"	1.00	ND	94	75-125	0.1	20	
Chromium	0.97	0.05	"	1.00	ND	97	75-125	0.5	20	
Cobalt	0.93	0.05	"	1.00	ND	93	75-125	0.1	20	
Copper	1.30	0.05	"	1.00	0.29	102	75-125	0.2	20	
Lead	1.58	0.01	"	1.00	0.46	112	75-125	0.3	20	
Molybdenum	1.04	0.05	"	1.00	ND	104	75-125	0.1	20	
Nickel	0.97	0.05	"	1.00	0.03	94	75-125	0.2	20	
Selenium	0.97	0.01	"	1.00	0.02	95	75-125	0.7	20	
Silver	0.46	0.005	"	0.500	ND	92	75-125	0.7	20	
Thallium	0.90	0.01	"	1.00	ND	90	75-125	0.4	20	
Vanadium	1.03	0.05	"	1.00	ND	103	75-125	0.2	20	
Zinc	1.17	0.05	"	1.00	0.27	89	75-125	0.09	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Client Name: County of San Diego
Project Name: Bullet Tank/1617-127

EMA Log #: 16L0670

Conventional Chemistry Parameters by Standard/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6122026										
Duplicate (6122026-DUP1)		**Source: 16L0670-04**		Prepared & Analyzed: 12/19/16						
pH	7.92	0.10	pH Units		7.82			1	20	
Reference (6122026-SRM1)				Prepared & Analyzed: 12/19/16						
pH	7.81	0.10	pH Units	7.85		99	7.45-102.5			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Notes and Definitions

QR-02	The RPD result exceeded the QC limits due to non-homogeneity of sample.
HT-15	This sample was received outside of the EPA's recommended 15 minute holding time for this analysis. However, the sample was analyzed immediately upon receipt.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1610670

CHAIN-OF-CUSTODY RECORD

EnviroMatrix Analytical, Inc.

4340 Viewridge Ave., Ste. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

EMA LOG #:

Client: County of San Diego

Attn: Mark Middlestead

Samplers(s): Yue Jiang

Address: 5500 Overland Ave, San Diego, CA 92563

Phone (858) 694-2118 Fax:

Email: mark.middlestead@sdcounty.ca.gov

Billing Address: Same

Project ID: Bullet Tank

Project 1617-127 PO #:

Requested Analysis

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type	Oil & Grease □ 413.1 □ 413.2 □ 1664	8015 (TPH) □ Gas □ Diesel □ Ext	624/8260 (VOC) Full BTXE MTBE Oxy Nap	625 / 8270 (SVOC) □ PAH only	608 / 8081 (Organochlorine Pesticides)	608 / 8082 (Polychlorinated Biphenyls)	8141 (Organophosphorus Pesticides)	TBT (Organotin Compounds)	□ pH □ EC □ TSS □TDS	□ Nitrate □ Nitrite □ TKN □NH3	CAC Title 22/CAM17 Metals X TTLC □ STLC	TCLP (RCRA) □ Metals □ Organics	Cd Cr Cu Pb Ni Ag Zn □ Dissolved	Coliform, □ Total (MTF) □ Fecal (MTF)	Colilert, T+E.Coli □ P/A □ Enumeration	Enterococcus, □ MTF □ Enterolert	Heterotrophic Plate Count (HPC)	□ BOD □ COD □ Cyanide	PH	Title 22/CAM 17 Metals - STLC			
1	BT-01	12/19	2:00pm	WW												X*												
2	BT-02	12/19														X*												
3	BT-03	↓	↓	↓												X*												
4	BT-04																							X	X**			
5	BT-05																							X	X**			
6	BT-06	↓	↓	↓																				X	X**			
7																												
8																												
9																												
10																												

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water
WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By: □ Courier □ UPS □ FedEx □ USPS X Client Drop Off □ Other

[1]**Turn-Around-Time:** □ Same Day □ 1 day □ 2 day □ 3 day □ 4 day □ 5 day X STD (7 day)

[1]**Reporting Requirements:** □ Fax X PDF □ Excel □ Geotracker/EDF □ Hard Copy □ EDT

[1]**Sample Disposal:** X By Laboratory □ [2]Return to Client: P/U or Delivery □ Archive

Sample Integrity

Correct Containers: Yes No N/A — Containers Properly Preseved: Yes No N/A

Custody Seals Intact: Yes No N/A — Temp @ Receipt: 15 °C

COC/Labels Agree: Yes No N/A — Sampled By: Client EMA Autosampler

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Signature: Yue Jiang	14:47	Signature:
Print: Yue Jiang	12/19/16	Print: Michael Tacas
Company: County of SD		Company: EMA
Signature:		Signature:
Print:		Print:
Company:		Company:
Signature:		Signature:
Print:		Print:
Company:		Company:

Project/Sample Comments:

***For BT-01, BT-02 & BT-03 we assume the lab will make the determination if solids are <0.5%**

**** Hold unpreserved samples (BT-04, BT-05, BT-06) for potential STLC analysis pending the TTLC results**

[1]Additional costs may apply. Please note there is a $35 minimum charge for all clients.

[2]EMA reserves the right to return any samples that do not match our waste profile.

NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.

APPENDIX C

Environmental Database Report

5225 Mt. Etna Dr.
5225 Mt. Etna Dr.
San Diego, CA 92117

Inquiry Number: 5578947.2s
March 04, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

5225 MT. ETNA DR.
SAN DIEGO, CA 92117

COORDINATES

Latitude (North):	32.8202950 - 32° 49' 13.06''
Longitude (West):	117.1836970 - 117° 11' 1.30''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	482804.7
UTM Y (Meters):	3631189.5
Elevation:	366 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5622824 LA JOLLA, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603, 20140530
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
5225 MT. ETNA DR.
SAN DIEGO, CA 92117

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	COUNTY SHERIFF CRIME	5255 MOUNT ETNA DR	UST	Higher	1 ft.
A2	COUNTY SHERIFF CRIME	5255 MT ETNA DR	LUST, SAN DIEGO CO. SAM, SWEEPS UST, SAN DIEGO CO..	Higher	1 ft.
A3	COUNTY SHERIFF CRIME	5255 MT ETNA DR	LUST	Higher	1 ft.
B4	CLAIREMONT HOSPITAL	5255 MT ETNA	HIST CORTESE	Higher	1 ft.
A5	SAN DIEGO CNTY SHERI	5255 MT ETNA	RCRA-SQG, FINDS, ECHO	Higher	1 ft.
A6	ARYA CLEANERS	4310 GENESEE AVE	EDR Hist Cleaner	Higher	137, 0.026, North
B7	RITE AID #5653	5270 BALBOA AVE	RCRA-CESQG, HAZNET	Higher	146, 0.028, SE
C8	MOBIL T0220	4302 GENESEE AV	LUST, SAN DIEGO CO. SAM	Higher	168, 0.032, NNE
C9	FORMER MOBIL STATION	4302 GENESSEE AVE	LUST, HIST CORTESE	Higher	168, 0.032, NNE
C10	SAN DIEGO SMOG & MOB	4302 GENESEE	EDR Hist Auto	Higher	168, 0.032, NNE
C11	MOBIL T0220	4302 GENESEE AVE	SWEEPS UST, SAN DIEGO CO LOP	Higher	168, 0.032, NNE
C12	HUNTER S ENCO SERVIC	4299 GENESEE AV	EDR Hist Auto	Higher	273, 0.052, NE
D13	GENESEE PLAZA CLEANE	4203 GENESEE AV #105	DRYCLEANERS, EMI	Higher	290, 0.055, ESE
D14	STEAM CLUB	4203 GENESEE AVE 103	EDR Hist Cleaner	Higher	290, 0.055, ESE
C15	GENESEE SHELL	4303 GENESEE AV	SAN DIEGO CO. SAM, SAN DIEGO CO LOP	Higher	327, 0.062, NNE
C16	SHELL SERVICE STATIO	4303 GENESEE AVE	RCRA-CESQG	Higher	327, 0.062, NNE
C17	SHELL OIL SERVICE ST	4303 GENESEE AVE	LUST, SWEEPS UST	Higher	327, 0.062, NNE
C18	THELES SELF SERVICE	4303 GENESEE AVE	EDR Hist Auto	Higher	327, 0.062, NNE
C19	CAGLES GENESEE SHELL	4303 GENESEE AVE	HIST UST	Higher	327, 0.062, NNE
C20	GENESEE SHELL	4303 GENESEE AV	LUST, HAZNET, HIST CORTESE	Higher	327, 0.062, NNE
C21	QUICK N CLEAN	4315 GENESEE AVE	EDR Hist Cleaner	Higher	340, 0.064, NNE
E22	ATLAS CLEANERS	4340 GENESEE AVE STE	EDR Hist Cleaner	Higher	428, 0.081, NNW
E23	CIRCLE K STORES	4360 GENESEE AV	SAN DIEGO CO. SAM	Higher	449, 0.085, North
E24	CIRCLE K STORES	4360 GENESEE AV	LUST, SAN DIEGO CO. SAM, CPS-SLIC	Higher	449, 0.085, North
E25	CIRCLE K CORP	4360 GENESEE AVE	SWEEPS UST	Higher	449, 0.085, North
E26	CIRCLE K CORP 5095	4360 GENESEE AV	UST, FINDS	Higher	449, 0.085, North
D27	90896	5401 BALBOA AVE	HIST UST	Higher	489, 0.093, ESE
D28	CHEVRON / BALBOA AVE	5401 BALBOA AVENUE	LUST, SAN DIEGO CO. SAM, CPS-SLIC, UST, San Diego...	Higher	489, 0.093, ESE
D29	CHEVRON SERVICE STAT	5401 BALBOA AVE	LUST	Higher	489, 0.093, ESE
D30	DONCON INC	5401 BALBOA AVE	EDR Hist Auto	Higher	489, 0.093, ESE
D31	CHEVRON #9-0896	5401 BALBOA AVE	LUST	Higher	489, 0.093, ESE
E32	VALVOLINE INSTANT OI	4365 GENESEE AVE	AST, San Diego Co. HMMD, HAZNET	Higher	501, 0.095, North
E33	THRIFTY OIL CO	4386 GENESEE AVE	EDR Hist Auto	Higher	587, 0.111, North
F34	TGF COMPANY	4385 GENESEE AV	LUST, SAN DIEGO CO. SAM	Higher	650, 0.123, North
F35	FORMER THRIFTY STATI	4385 GENESSEE AVE	LUST, HIST CORTESE	Higher	650, 0.123, North
G36	THE HOME DEPOT STORE	4255 GENESEE AVENUE	RCRA-SQG, FINDS	Higher	695, 0.132, NE
G37	THE HOME DEPOT STORE	4255 GENESEE AVENUE	CERS HAZ WASTE, CERS	Higher	695, 0.132, NE
H38	WALGREENS #12143	5504 BALBOA AVE	RCRA-CESQG	Higher	724, 0.137, East
H39	WALGREENS #12143	5504 BALBOA AVE	RCRA-CESQG	Higher	724, 0.137, East

MAPPED SITES SUMMARY

Target Property Address:
5225 MT. ETNA DR.
SAN DIEGO, CA 92117

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
F40	MR BEST CLEANERS	4415 GENESEE AVE	RCRA-SQG, San Diego Co. HMMD, FINDS, ECHO,...	Higher	806, 0.153, North
H41	BALBOA CLEANERS	5639 BALBOA AVE	San Diego Co. HMMD, DRYCLEANERS, EMI	Higher	872, 0.165, East
H42	BALBOA CLEANERS	5657 BALBOA AVE	RCRA-SQG, San Diego Co. HMMD, DRYCLEANERS, HAZNET	Higher	872, 0.165, East
I43	EXPRESS GAS	5454 BALBOA AVE	LUST, SWEEPS UST, SAN DIEGO CO LOP	Higher	970, 0.184, ESE
I44	GENESEE PLAZA	5500 BALBOA AVE	ENVIROSTOR	Higher	970, 0.184, ESE
I45	EXPRESS GAS	5454 BALBOA AV	LUST, SAN DIEGO CO. SAM, CPS-SLIC, San Diego Co....	Higher	970, 0.184, ESE
J46	ROCKY HOME MILK STOR	6426 MT ACADIA BL	LUST, SAN DIEGO CO. SAM	Lower	1190, 0.225, South
47	CVS PHARMACY #7962	5685 BALBOA AVE	RCRA-LQG, FINDS, ECHO	Higher	1216, 0.230, East
K48	BALBOA 76	5790 BALBOA AVE	UST	Higher	1218, 0.231, East
K49	UNOCAL #5295-30847	5790 BALBOA AV	LUST, CPS-SLIC, San Diego Co. HMMD, EMI, HIST...	Higher	1218, 0.231, East
K50	BALBOA CHEVRON	5790 BALBOA AVE	UST	Higher	1218, 0.231, East
K51	UNOCAL SERV STATION	5790 BALBOA AVE	LUST, SWEEPS UST	Higher	1218, 0.231, East
K52	UNION OIL SERVICE ST	5790 BALBOA	HIST UST	Higher	1218, 0.231, East
K53	UNOCAL SERVICE STATI	5790 BALBOA AVE	LUST	Higher	1218, 0.231, East
K54	UNOCAL #5295-30847	5790 BALBOA AV	SAN DIEGO CO. SAM, SAN DIEGO CO LOP	Higher	1218, 0.231, East
K55	CVS PHARMACY #17517	5680 BALBOA AVE STE	RCRA-CESQG, FINDS, ECHO	Higher	1219, 0.231, East
K56	TARGET STORE T2465	5680 BALBOA AVE	RCRA-SQG	Higher	1219, 0.231, East
J57	SAN DIEGO USD HALE J	5331 MT ALIFAN	RCRA-SQG, FINDS, ECHO	Higher	1243, 0.235, SSE
L58	MOBIL BALBOA AVE	6066 BALBOA AV	CPS-SLIC, EMI	Lower	1848, 0.350, East
L59	BALBOA MOBIL	6066 BALBOA AV	SAN DIEGO CO. SAM	Lower	1848, 0.350, East
L60	MOBIL SERVICE STATIO	6066 BALBOA AVE	LUST, CHMIRS	Lower	1848, 0.350, East
L61	MOBIL 18-F95	6066 BALBOA AV	LUST, HIST CORTESE	Lower	1848, 0.350, East
M62	TEXACO REFIN & MARKT	6125 BALBOA AV	LUST, HIST CORTESE, SAN DIEGO CO LOP	Lower	2080, 0.394, East
M63	P S VIDAKOVICH	6125 BALBOA AVE	LUST, SWEEPS UST	Lower	2080, 0.394, East
M64	TEXACO REFIN & MARKT	6125 BALBOA AV	SAN DIEGO CO. SAM	Lower	2080, 0.394, East
L65	AM/PM	6130 BALBOA AVE	LUST, SWEEPS UST	Lower	2110, 0.400, East
L66	AM/PM/ARCO #1986	6130 BALBOA AVE	SAN DIEGO CO. SAM, SAN DIEGO CO LOP	Lower	2110, 0.400, East
L67	TESORO #42044	6130 BALBOA AVE	LUST, San Diego Co. HMMD, EMI, HAZNET, HIST...	Lower	2110, 0.400, East
N68	SAN DIEGO TSPS-MESA	5690 BALBOA ARMS DR	LUST, SWEEPS UST	Higher	2126, 0.403, ENE
N69	AT&T SAN DIEGO OSPS	5690 BALBOA ARMS DR	LUST, CPS-SLIC	Higher	2126, 0.403, ENE
N70	AT&T SAN DIEGO OSPS	5690 BALBOA ARMS DR	SAN DIEGO CO. SAM, UST, SAN DIEGO CO LOP	Higher	2126, 0.403, ENE
71	ROSEDALE FIELD & BOM	SAN DIEGO	ENVIROSTOR	Higher	2792, 0.529, NNE
72		4955 ACUNA ST	Notify 65	Lower	3495, 0.662, North
O73	ROSEDALE BOMBING TAR		UXO	Higher	4144, 0.785, ENE
O74	ROSEDALE FIELD AND B		FUDS	Higher	4144, 0.785, ENE
O75	ROSEDALE AIRPORT		ENVIROSTOR	Higher	4165, 0.789, ENE
O76	LINDA VIST MES FIELD		ENVIROSTOR	Higher	4165, 0.789, ENE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
San Diego Co. HMMD ---------- Hazardous Materials Management Division Database
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CERS TANKS ---------- California Environmental Reporting System (CERS) Tanks
CA FID UST ---------- Facility Inventory Database

Local Land Records

LIENS ---------- Environmental Liens Listing

LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data

ICE ICE
HWP EnviroStor Permitted Facilities Listing
HWT Registered Hazardous Waste Transporter Database
MINES Mines Site Location Listing
MWMP Medical Waste Management Program Listing
NPDES NPDES Permits Listing
PEST LIC Pesticide Regulation Licenses Listing
PROC Certified Processors Database
UIC UIC Listing
UIC GEO UIC GEO (GEOTRACKER)
WASTEWATER PITS Oil Wastewater Pits Listing
WDS Waste Discharge System
MILITARY PRIV SITES MILITARY PRIV SITES (GEOTRACKER)
PROJECT PROJECT (GEOTRACKER)
WDR Waste Discharge Requirements Listing
SAN DIEGO CO LOP Local Oversight Program Listing
CIWQS California Integrated Water Quality System
CERS CERS
NON-CASE INFO NON-CASE INFO (GEOTRACKER)
WIP Well Investigation Program Case List
OTHER OIL GAS OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF Recovered Government Archive Solid Waste Facilities List
RGA LUST Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CVS PHARMACY #7962 EPA ID:: CAR000229914	***5685 BALBOA AVE***	***E 1/8 - 1/4 (0.230 mi.)***	***47***	***147***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN DIEGO CNTY SHERI EPA ID:: CAR000077289	***5255 MT ETNA***	***0 - 1/8 (0.000 mi.)***	***A5***	***11***
THE HOME DEPOT STORE EPA ID:: CAD981966989	***4255 GENESEE AVENUE***	***NE 1/8 - 1/4 (0.132 mi.)***	***G36***	***94***
MR BEST CLEANERS EPA ID:: CAD981618754	***4415 GENESEE AVE***	***N 1/8 - 1/4 (0.153 mi.)***	***F40***	***110***
BALBOA CLEANERS EPA ID:: CAD981617665	***5657 BALBOA AVE***	***E 1/8 - 1/4 (0.165 mi.)***	***H42***	***134***
TARGET STORE T2465 EPA ID:: CAR000218180	5680 BALBOA AVE	E 1/8 - 1/4 (0.231 mi.)	K56	185
SAN DIEGO USD HALE J EPA ID:: CAD981452824	***5331 MT ALIFAN***	***SSE 1/8 - 1/4 (0.235 mi.)***	***J57***	***190***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are

5 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RITE AID #5653 EPA ID:: CAR000212415	***5270 BALBOA AVE***	***SE 0 - 1/8 (0.028 mi.)***	***B7***	***13***
SHELL SERVICE STATIO EPA ID:: CAR000162602	4303 GENESEE AVE	NNE 0 - 1/8 (0.062 mi.)	C16	28
WALGREENS #12143 EPA ID:: CAL000337234	5504 BALBOA AVE	E 1/8 - 1/4 (0.137 mi.)	H38	101
WALGREENS #12143 EPA ID:: CAR000253336	5504 BALBOA AVE	E 1/8 - 1/4 (0.137 mi.)	H39	105
CVS PHARMACY #17517 EPA ID:: CAR000259804	***5680 BALBOA AVE STE***	***E 1/8 - 1/4 (0.231 mi.)***	***K55***	***181***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/29/2018 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GENESEE PLAZA Facility Id: 60000749 Status: Refer: 1248 Local Agency	5500 BALBOA AVE	ESE 1/8 - 1/4 (0.184 mi.)	I44	140
ROSEDALE FIELD & BOM Facility Id: 80001221 Status: Inactive - Action Required	SAN DIEGO	NNE 1/2 - 1 (0.529 mi.)	71	242
ROSEDALE AIRPORT Facility Id: 80000912 Status: Inactive - Needs Evaluation		ENE 1/2 - 1 (0.789 mi.)	O75	244
LINDA VIST MES FIELD Facility Id: 80000647 Status: Inactive - Needs Evaluation		ENE 1/2 - 1 (0.789 mi.)	O76	245

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 26 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTY SHERIFF CRIME	***5255 MT ETNA DR***	***0 - 1/8 (0.000 mi.)***	***A2***	***8***
Database: LUST REG 9, Date of Government Version: 03/01/2001 Closed Date: 5/9/95 Status: Case Closed Case Number: 9UT2049				
COUNTY SHERIFF CRIME	5255 MT ETNA DR	0 - 1/8 (0.000 mi.)	A3	10
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0607300819				
MOBIL T0220	***4302 GENESEE AV***	***NNE 0 - 1/8 (0.032 mi.)***	***C8***	***21***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0607301854				
FORMER MOBIL STATION	***4302 GENESSEE AVE***	***NNE 0 - 1/8 (0.032 mi.)***	***C9***	***22***
Database: LUST REG 9, Date of Government Version: 03/01/2001 Closed Date: 10/24/86 Status: Case Closed Case Number: 9UT309				
SHELL OIL SERVICE ST	***4303 GENESEE AVE***	***NNE 0 - 1/8 (0.062 mi.)***	***C17***	***30***
Database: LUST REG 9, Date of Government Version: 03/01/2001 Status: Preliminary site assessment underway Case Number: 9UT3868				
GENESEE SHELL	***4303 GENESEE AV***	***NNE 0 - 1/8 (0.062 mi.)***	***C20***	***35***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0607302627				
CIRCLE K STORES	***4360 GENESEE AV***	***N 0 - 1/8 (0.085 mi.)***	***E24***	***42***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T06019761846				
CHEVRON / BALBOA AVE	***5401 BALBOA AVENUE***	***ESE 0 - 1/8 (0.093 mi.)***	***D28***	***51***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0607301497 Global Id: T0607303172				
CHEVRON SERVICE STAT	5401 BALBOA AVE	ESE 0 - 1/8 (0.093 mi.)	D29	70
Database: LUST REG 9, Date of Government Version: 03/01/2001 Status: Preliminary site assessment underway Case Number: 9UT936				
CHEVRON #9-0896	5401 BALBOA AVE	ESE 0 - 1/8 (0.093 mi.)	D31	71
Database: LUST REG 9, Date of Government Version: 03/01/2001				

Status: Preliminary site assessment workplan submitted
Case Number: 9UT2742

TGF COMPANY ***4385 GENESEE AV*** ***N 0 - 1/8 (0.123 mi.)*** ***F34*** ***92***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0607300802

FORMER THRIFTY STATI ***4385 GENESSEE AVE*** ***N 0 - 1/8 (0.123 mi.)*** ***F35*** ***93***
Database: LUST REG 9, Date of Government Version: 03/01/2001
Closed Date: 7/9/92
Status: Case Closed
Case Number: 9UT2026

EXPRESS GAS ***5454 BALBOA AVE*** ***ESE 1/8 - 1/4 (0.184 mi.)*** ***I43*** ***138***
Database: LUST REG 9, Date of Government Version: 03/01/2001
Closed Date: 4/8/97
Status: Case Closed
Case Number: 9UT1574

EXPRESS GAS ***5454 BALBOA AV*** ***ESE 1/8 - 1/4 (0.184 mi.)*** ***I45*** ***142***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0607300394

UNOCAL #5295-30847 ***5790 BALBOA AV*** ***E 1/8 - 1/4 (0.231 mi.)*** ***K49*** ***154***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0607300988
Global Id: T0607302943

UNOCAL SERV STATION ***5790 BALBOA AVE*** ***E 1/8 - 1/4 (0.231 mi.)*** ***K51*** ***176***
Database: LUST REG 9, Date of Government Version: 03/01/2001
Status: Preliminary site assessment underway
Case Number: 9UT2221

UNOCAL SERVICE STATI 5790 BALBOA AVE E 1/8 - 1/4 (0.231 mi.) K53 179
Database: LUST REG 9, Date of Government Version: 03/01/2001
Closed Date: 2/27/96
Status: Case Closed
Case Number: 9UT675

SAN DIEGO TSPS-MESA ***5690 BALBOA ARMS DR*** ***ENE 1/4 - 1/2 (0.403 mi.)*** ***N68*** ***238***
Database: LUST REG 9, Date of Government Version: 03/01/2001
Closed Date: 10/6/90
Status: Case Closed
Case Number: 9UT1388

AT&T SAN DIEGO OSPS ***5690 BALBOA ARMS DR*** ***ENE 1/4 - 1/2 (0.403 mi.)*** ***N69*** ***239***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0607300228

Lower Elevation	Address	Direction / Distance	Map ID	Page

ROCKY HOME MILK STOR ***6426 MT ACADIA BL*** ***S 1/8 - 1/4 (0.225 mi.)*** ***J46*** ***146***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0607302730

MOBIL SERVICE STATIO ***6066 BALBOA AVE*** ***E 1/4 - 1/2 (0.350 mi.)*** ***L60*** ***195***
Database: LUST REG 9, Date of Government Version: 03/01/2001

Closed Date: 9/6/94
Status: Case Closed
Case Number: 9UT285

MOBIL 18-F95 ***6066 BALBOA AV*** ***E 1/4 - 1/2 (0.350 mi.)*** ***L61*** ***198***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0607301610
Global Id: T10000001567

TEXACO REFIN & MARKT ***6125 BALBOA AV*** ***E 1/4 - 1/2 (0.394 mi.)*** ***M62*** ***203***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0607300069
Global Id: T0607393005

P S VIDAKOVICH ***6125 BALBOA AVE*** ***E 1/4 - 1/2 (0.394 mi.)*** ***M63*** ***210***
Database: LUST REG 9, Date of Government Version: 03/01/2001
Closed Date: 11/1/94
Status: Case Closed
Case Number: 9UT1056

AM/PM ***6130 BALBOA AVE*** ***E 1/4 - 1/2 (0.400 mi.)*** ***L65*** ***213***
Database: LUST REG 9, Date of Government Version: 03/01/2001
Status: Preliminary site assessment underway
Case Number: 9UT3064

TESORO #42044 ***6130 BALBOA AVE*** ***E 1/4 - 1/2 (0.400 mi.)*** ***L67*** ***216***
Database: LUST, Date of Government Version: 12/10/2018
Status: Open - Remediation
Global Id: T0607301828

SAN DIEGO CO. SAM: The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

A review of the SAN DIEGO CO. SAM list, as provided by EDR, and dated 03/23/2010 has revealed that there are 14 SAN DIEGO CO. SAM sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTY SHERIFF CRIME	***5255 MT ETNA DR***	***0 - 1/8 (0.000 mi.)***	***A2***	***8***
Case Number: H14261-001				
Facility Status: Closed Case				
MOBIL T0220	***4302 GENESEE AV***	***NNE 0 - 1/8 (0.032 mi.)***	***C8***	***21***
Case Number: H13500-001				
Facility Status: Closed Case				
GENESEE SHELL	***4303 GENESEE AV***	***NNE 0 - 1/8 (0.062 mi.)***	***C15***	***28***
Case Number: H03207-001				
Facility Status: Remedial Investigation				
CIRCLE K STORES	4360 GENESEE AV	N 0 - 1/8 (0.085 mi.)	E23	42
Case Number: H29223-002				
Facility Status: Remedial Investigation				
CIRCLE K STORES	***4360 GENESEE AV***	***N 0 - 1/8 (0.085 mi.)***	***E24***	***42***
Case Number: H29223-001				
Facility Status: Preliminary Assessment				
CHEVRON / BALBOA AVE	***5401 BALBOA AVENUE***	***ESE 0 - 1/8 (0.093 mi.)***	***D28***	***51***

Case Number: H12456-001
Case Number: H12456-002
Case Number: H12456-003
Facility Status: Remedial Investigation
Facility Status: Closed Case

TGF COMPANY	***4385 GENESEE AV***	***N 0 - 1/8 (0.123 mi.)***	***F34***	***92***
Case Number: H31396-001				
Facility Status: Closed Case				
EXPRESS GAS	***5454 BALBOA AV***	***ESE 1/8 - 1/4 (0.184 mi.)***	***I45***	***142***
Case Number: H21452-001				
Case Number: H21452-002				
Facility Status: Preliminary Assessment				
Facility Status: Closed Case				
UNOCAL #5295-30847	***5790 BALBOA AV***	***E 1/8 - 1/4 (0.231 mi.)***	***K54***	***180***
Case Number: H05864-001				
Case Number: H05864-002				
Case Number: H05864-003				
Facility Status: Closed Case				
AT&T SAN DIEGO OSPS	***5690 BALBOA ARMS DR***	***ENE 1/4 - 1/2 (0.403 mi.)***	***N70***	***240***
Case Number: H21082-001				
Case Number: H21082-002				
Facility Status: Closed Case				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROCKY HOME MILK STOR	***6426 MT ACADIA BL***	***S 1/8 - 1/4 (0.225 mi.)***	***J46***	***146***
Case Number: H21178-001				
Facility Status: Closed Case				
BALBOA MOBIL	6066 BALBOA AV	E 1/4 - 1/2 (0.350 mi.)	L59	194
Case Number: H12820-001				
Case Number: H12820-002				
Facility Status: Preliminary Assessment				
Facility Status: Closed Case				
TEXACO REFIN & MARKT	6125 BALBOA AV	E 1/4 - 1/2 (0.394 mi.)	M64	213
Case Number: H13176-001				
Case Number: H13176-002				
Facility Status: Remedial Investigation				
Facility Status: Closed Case				
AM/PM/ARCO #1986	***6130 BALBOA AVE***	***E 1/4 - 1/2 (0.400 mi.)***	***L66***	***215***
Case Number: H15189-001				
Facility Status: Remedial Investigation				

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 6 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CIRCLE K STORES	***4360 GENESEE AV***	***N 0 - 1/8 (0.085 mi.)***	***E24***	***42***
Database: CPS-SLIC, Date of Government Version: 12/10/2018				

Facility Status: Completed - Case Closed
Global Id: T10000000443

CHEVRON / BALBOA AVE ***5401 BALBOA AVENUE*** ***ESE 0 - 1/8 (0.093 mi.)*** ***D28*** ***51***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Completed - Case Closed
Global Id: T0608136465
Global Id: T10000003027

EXPRESS GAS ***5454 BALBOA AV*** ***ESE 1/8 - 1/4 (0.184 mi.)*** ***I45*** ***142***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Completed - Case Closed
Global Id: T06019769813

UNOCAL #5295-30847 ***5790 BALBOA AV*** ***E 1/8 - 1/4 (0.231 mi.)*** ***K49*** ***154***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Completed - Case Closed
Global Id: T0608121178

AT&T SAN DIEGO OSPS ***5690 BALBOA ARMS DR*** ***ENE 1/4 - 1/2 (0.403 mi.)*** ***N69*** ***239***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Completed - Case Closed
Global Id: T0608143715

Lower Elevation	Address	Direction / Distance	Map ID	Page

MOBIL BALBOA AVE ***6066 BALBOA AV*** ***E 1/4 - 1/2 (0.350 mi.)*** ***L58*** ***191***
Database: CPS-SLIC, Date of Government Version: 12/10/2018
Facility Status: Completed - Case Closed
Global Id: T10000009082

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTY SHERIFF CRIME	5255 MOUNT ETNA DR	0 - 1/8 (0.000 mi.)	A1	8
Database: UST, Date of Government Version: 12/10/2018 Facility Id: 37-000-114261 Facility Id: H14261				
CIRCLE K CORP 5095	***4360 GENESEE AV***	***N 0 - 1/8 (0.085 mi.)***	***E26***	***49***
Database: UST, Date of Government Version: 12/10/2018 Facility Id: H29223 Facility Id: 37-000-204248				
CHEVRON / BALBOA AVE	***5401 BALBOA AVENUE***	***ESE 0 - 1/8 (0.093 mi.)***	***D28***	***51***
Database: UST, Date of Government Version: 12/10/2018 Facility Id: H12456				
BALBOA 76	5790 BALBOA AVE	E 1/8 - 1/4 (0.231 mi.)	K48	154
Database: UST, Date of Government Version: 12/10/2018				

Facility Id: 37-000-211747
Facility Id: H05864

BALBOA CHEVRON | 5790 BALBOA AVE | E 1/8 - 1/4 (0.231 mi.) | K50 | 176
Database: UST, Date of Government Version: 12/10/2018
Facility Id: 37-000-211747

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VALVOLINE INSTANT OI	***4365 GENESEE AVE***	***N 0 - 1/8 (0.095 mi.)***	***E32***	***72***
Database: AST, Date of Government Version: 07/06/2016				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 10/22/2018 has revealed that there is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE HOME DEPOT STORE	***4255 GENESEE AVENUE***	***NE 1/8 - 1/4 (0.132 mi.)***	***G37***	***96***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 7 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COUNTY SHERIFF CRIME	***5255 MT ETNA DR***	***0 - 1/8 (0.000 mi.)***	***A2***	***8***
Status: A Tank Status: A Comp Number: 14261				
MOBIL T0220	***4302 GENESEE AVE***	***NNE 0 - 1/8 (0.032 mi.)***	***C11***	***23***

Comp Number: 13500				
SHELL OIL SERVICE ST Status: A Tank Status: A Comp Number: 3207	***4303 GENESEE AVE***	***NNE 0 - 1/8 (0.062 mi.)***	***C17***	***30***
CIRCLE K CORP Status: A Tank Status: A Comp Number: 29223	4360 GENESEE AVE	N 0 - 1/8 (0.085 mi.)	E25	48
CHEVRON / BALBOA AVE Status: A Tank Status: A Comp Number: 12456	***5401 BALBOA AVENUE***	***ESE 0 - 1/8 (0.093 mi.)***	***D28***	***51***
EXPRESS GAS Status: A Comp Number: 21452	***5454 BALBOA AVE***	***ESE 1/8 - 1/4 (0.184 mi.)***	***I43***	***138***
UNOCAL SERV STATION Status: A Tank Status: A Comp Number: 5864	***5790 BALBOA AVE***	***E 1/8 - 1/4 (0.231 mi.)***	***K51***	***176***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAGLES GENESEE SHELL Facility Id: 00000051295	4303 GENESEE AVE	NNE 0 - 1/8 (0.062 mi.)	C19	34
90896 Facility Id: 00000061931	5401 BALBOA AVE	ESE 0 - 1/8 (0.093 mi.)	D27	50
UNION OIL SERVICE ST Facility Id: 00000020020	5790 BALBOA	E 1/8 - 1/4 (0.231 mi.)	K52	178

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON / BALBOA AVE	***5401 BALBOA AVENUE***	***ESE 0 - 1/8 (0.093 mi.)***	***D28***	***51***

EPA ID:: CA0000866095

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 01/31/2015 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROSEDALE FIELD AND B Federal Facility ID:: CA9799F5940 INST ID:: 61320		ENE 1/2 - 1 (0.785 mi.)	O74	243

UXO: A listing of unexploded ordnance site locations

A review of the UXO list, as provided by EDR, and dated 09/30/2017 has revealed that there is 1 UXO site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROSEDALE BOMBING TAR		ENE 1/2 - 1 (0.785 mi.)	O73	243

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 4 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GENESEE PLAZA CLEANE Database: DRYCLEANERS, Date of Government Version: 08/30/2018 EPA Id: CAL000048950	***4203 GENESEE AV #105***	***ESE 0 - 1/8 (0.055 mi.)***	***D13***	***25***
MR BEST CLEANERS Database: DRYCLEANERS, Date of Government Version: 08/30/2018 EPA Id: CAD981618754	***4415 GENESEE AVE***	***N 1/8 - 1/4 (0.153 mi.)***	***F40***	***110***
BALBOA CLEANERS Database: DRYCLEANERS, Date of Government Version: 08/30/2018 EPA Id: CAL000183724	***5639 BALBOA AVE***	***E 1/8 - 1/4 (0.165 mi.)***	***H41***	***124***
BALBOA CLEANERS Database: DRYCLEANERS, Date of Government Version: 08/30/2018 EPA Id: CAD981617665	***5657 BALBOA AVE***	***E 1/8 - 1/4 (0.165 mi.)***	***H42***	***134***

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 10 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CLAIREMONT HOSPITAL Reg Id: 9UT2049	5255 MT ETNA	0 - 1/8 (0.000 mi.)	B4	11
FORMER MOBIL STATION Reg Id: 9UT309	***4302 GENESSEE AVE***	***NNE 0 - 1/8 (0.032 mi.)***	***C9***	***22***
GENESEE SHELL Reg Id: 9UT3868	***4303 GENESEE AV***	***NNE 0 - 1/8 (0.062 mi.)***	***C20***	***35***
CHEVRON / BALBOA AVE Reg Id: 9UT2742 Reg Id: 9UT936	***5401 BALBOA AVENUE***	***ESE 0 - 1/8 (0.093 mi.)***	***D28***	***51***
FORMER THRIFTY STATI Reg Id: 9UT2026	***4385 GENESSEE AVE***	***N 0 - 1/8 (0.123 mi.)***	***F35***	***93***
EXPRESS GAS Reg Id: 9UT1574	***5454 BALBOA AV***	***ESE 1/8 - 1/4 (0.184 mi.)***	***I45***	***142***
UNOCAL #5295-30847 Reg Id: 9UT675 Reg Id: 9UT2221	***5790 BALBOA AV***	***E 1/8 - 1/4 (0.231 mi.)***	***K49***	***154***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL 18-F95 Reg Id: 9UT285	***6066 BALBOA AV***	***E 1/4 - 1/2 (0.350 mi.)***	***L61***	***198***
TEXACO REFIN & MARKT Reg Id: 9UT1056	***6125 BALBOA AV***	***E 1/4 - 1/2 (0.394 mi.)***	***M62***	***203***
TESORO #42044 Reg Id: 9UT3064	***6130 BALBOA AVE***	***E 1/4 - 1/2 (0.400 mi.)***	***L67***	***216***

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 09/19/2018 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	4955 ACUNA ST	N 1/2 - 1 (0.662 mi.)	72	243

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 5 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN DIEGO SMOG & MOB	4302 GENESEE	NNE 0 - 1/8 (0.032 mi.)	C10	23
HUNTER S ENCO SERVIC	4299 GENESEE AV	NE 0 - 1/8 (0.052 mi.)	C12	25
THELES SELF SERVICE	4303 GENESEE AVE	NNE 0 - 1/8 (0.062 mi.)	C18	33
DONCON INC	5401 BALBOA AVE	ESE 0 - 1/8 (0.093 mi.)	D30	71
THRIFTY OIL CO	4386 GENESEE AVE	N 0 - 1/8 (0.111 mi.)	E33	92

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 4 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

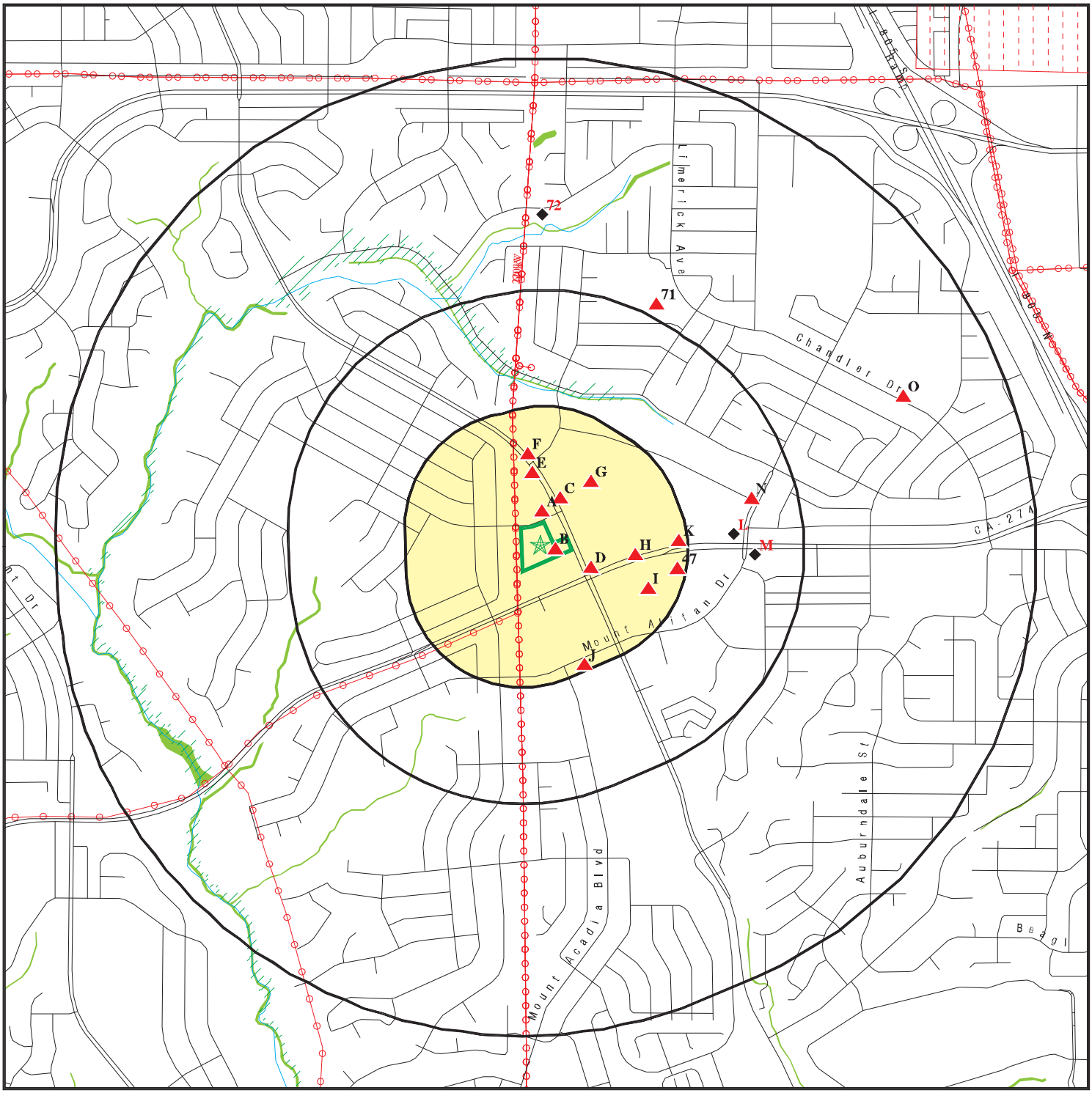
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARYA CLEANERS	4310 GENESEE AVE	N 0 - 1/8 (0.026 mi.)	A6	13
STEAM CLUB	4203 GENESEE AVE 103	ESE 0 - 1/8 (0.055 mi.)	D14	27
QUICK N CLEAN	4315 GENESEE AVE	NNE 0 - 1/8 (0.064 mi.)	C21	42
ATLAS CLEANERS	4340 GENESEE AVE STE	NNW 0 - 1/8 (0.081 mi.)	E22	42

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
CHILCOTE	SAN DIEGO CO. SAM

OVERVIEW MAP - 5578947.2S



0 1/4 1/2 1 Miles

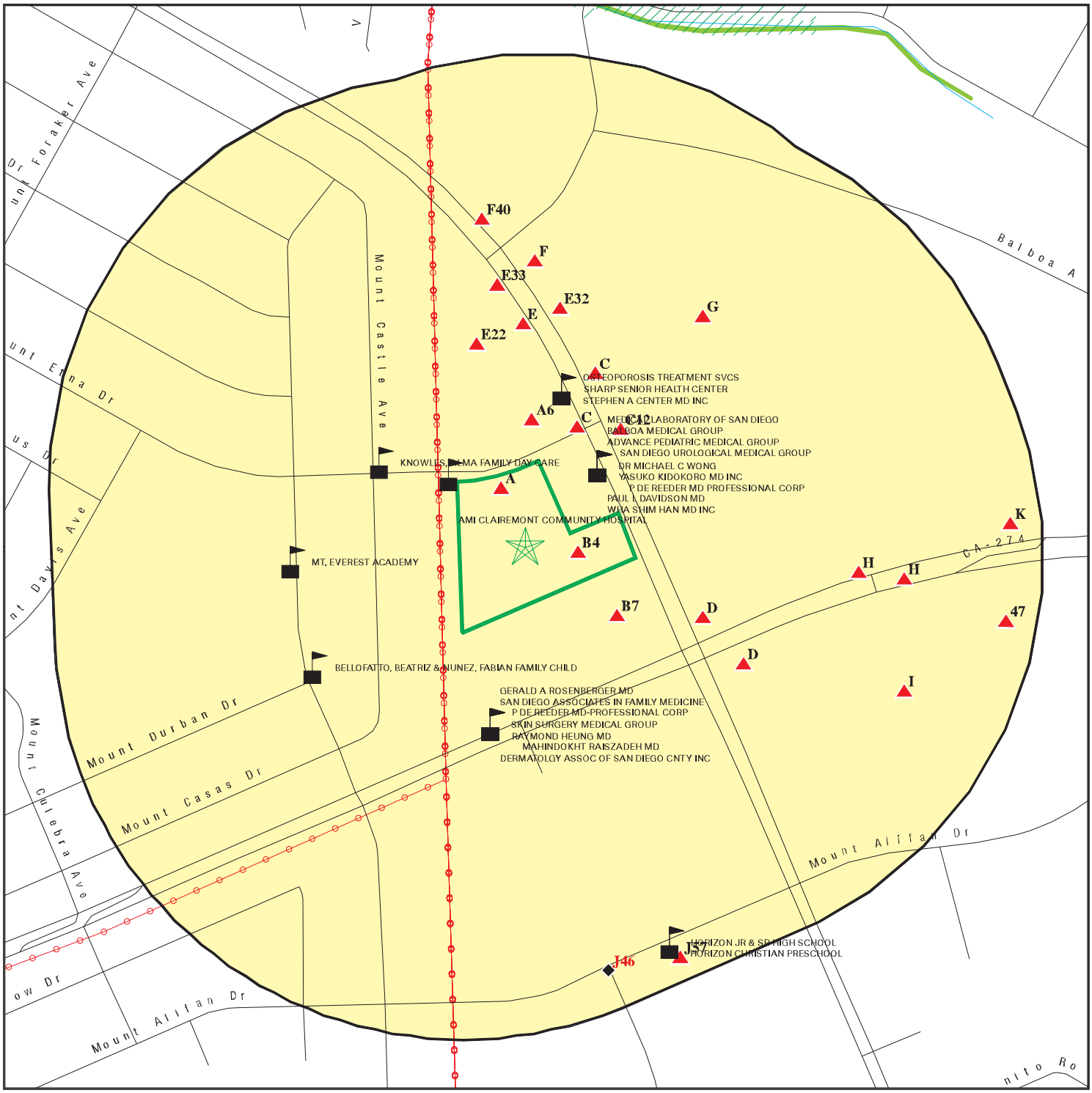
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 5225 Mt. Etna Dr.	CLIENT: Ninyo & Moore
ADDRESS: 5225 Mt. Etna Dr.	CONTACT: Adrian Olivares
San Diego CA 92117	INQUIRY #: 5578947.2s
LAT/LONG: 32.820295 / 117.183697	DATE: March 04, 2019 4:05 pm

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DETAIL MAP - 5578947.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 5225 Mt. Etna Dr.	CLIENT: Ninyo & Moore
ADDRESS: 5225 Mt. Etna Dr.	CONTACT: Adrian Olivares
San Diego CA 92117	INQUIRY #: 5578947.2s
LAT/LONG: 32.820295 / 117.183697	DATE: March 04, 2019 4:09 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		1	5	NR	NR	NR	6
RCRA-CESQG	0.250		2	3	NR	NR	NR	5
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	1	0	3	NR	4
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		12	6	8	NR	NR	26

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SAN DIEGO CO. SAM	0.500		7	3	4	NR	NR	14
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		2	2	2	NR	NR	6
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		3	2	NR	NR	NR	5
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
San Diego Co. HMMD	TP		NR	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	1	NR	NR	NR	1
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		5	2	NR	NR	NR	7
HIST UST	0.250		2	1	NR	NR	NR	3
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	1	NR	1
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		1	3	NR	NR	NR	4
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		5	2	3	NR	NR	10
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	1	NR	1
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
SAN DIEGO CO LOP	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		5	NR	NR	NR	NR	5
EDR Hist Cleaner	0.125		4	NR	NR	NR	NR	4
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	51	32	17	6	0	106

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **COUNTY SHERIFF CRIME LAB** **UST** **U003789486**
5255 MOUNT ETNA DR **N/A**
< 1/8 **SAN DIEGO, CA 92117**
1 ft.

Site 1 of 5 in cluster A

Relative: Higher
Actual: 366 ft.

UST:

Facility ID:	H14261
Permitting Agency:	SAN DIEGO COUNTY
Latitude:	32.821942
Longitude:	-117.1824734

Facility ID:	37-000-114261
Permitting Agency:	San Diego County Department of Environmental Health
Latitude:	32.82088
Longitude:	-117.18391

A2 **COUNTY SHERIFF CRIME LAB** **LUST** **1000261312**
5255 MT ETNA DR **SAN DIEGO CO. SAM** **N/A**
< 1/8 **SAN DIEGO, CA 92117** **SWEEPS UST**
1 ft. **SAN DIEGO CO LOP**

Site 2 of 5 in cluster A

Relative: Higher
Actual: 366 ft.

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT2049
Local Case:	H14261-001
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Other Means
How Stopped:	Other Means
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	09/03/1991
Date Stopped:	09/03/1991
Confirm Date:	09/25/1991
Submit Workplan:	9/17/91
Prelim Assess:	01/29/1992
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	09/13/1991
Enforce Date:	Not reported
Closed Date:	5/9/95
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	906.50
GW Depth:	~80’
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	2B
File Dispn:	File discarded, case closed
Interim Remedial Actions:	No
Cleanup and Abatement order Number:	Not reported

COUNTY SHERIFF CRIME LAB (Continued) **1000261312**

Waste Discharge Requirement Number: Not reported

SAN DIEGO CO. SAM:

Case Number:	H14261-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	5/9/1995
Date Began:	9/3/1991

SWEEPS UST:

Status:	Active
Comp Number:	14261
Number:	9
Board Of Equalization:	44-022860
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-014261-000001
Tank Status:	A
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	OTHER
Number Of Tanks:	1

SAN DIEGO CO LOP:

Record ID:	DEH1991-LSAM-H14261-001
Record Status:	Completed
Opened Date:	09/03/1991
Parcel Number:	361-661-12-00
Case Type:	LOP - Local Oversight Program
Historical Name:	CLAIREMONT HOSPITAL
SWRCB Global ID:	T0607300819
Funding:	F - LOP Federal Fund
Lead Agency:	DEH/SAM
Lead Agency Date:	09/03/1991
Census Tract:	85.04
Community:	San Diego
Jurisdiction:	SAN DIEGO
Watershed Basin Number:	906.5
Water Purveyor:	SAN DIEGO
Fire Agency:	SAN DIEGO
Thomas Bros Map Page Grid:	1248 G 3
Latitude:	32.8202948
Longitude:	-117.1836975
X MapCoord:	6274877.400
Y MapCoord:	1879551.581

A3 **COUNTY SHERIFF CRIME LAB** **LUST** **S102798442**
5255 MT ETNA DR **N/A**
< 1/8 **SAN DIEGO, CA 92117**
1 ft.

Site 3 of 5 in cluster A

Relative: Higher
Actual: 366 ft.

LUST:

Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607300819
Global Id:	T0607300819
Latitude:	32.820357
Longitude:	-117.183474
Status:	Completed - Case Closed
Status Date:	05/09/1995
Case Worker:	Not reported
RB Case Number:	9UT2049
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	H14261-001
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0607300819
Action Type:	Other
Date:	09/03/1991
Action:	Leak Reported

Global Id:	T0607300819
Action Type:	Other
Date:	09/03/1991
Action:	Leak Began

Global Id:	T0607300819
Action Type:	Other
Date:	09/03/1991
Action:	Leak Discovery

Global Id:	T0607300819
Action Type:	ENFORCEMENT
Date:	09/16/1991
Action:	Notice of Responsibility

Global Id:	T0607300819
Action Type:	Other
Date:	09/03/1991
Action:	Leak Stopped

LUST:

Global Id:	T0607300819
Status:	Completed - Case Closed
Status Date:	05/09/1995

Global Id:	T0607300819
Status:	Open - Case Begin Date
Status Date:	09/03/1991

B4 **CLAIREMONT HOSPITAL** **HIST CORTESE** **S104748168**
5255 MT ETNA **N/A**
< 1/8 **SAN DIEGO, CA 92117**
1 ft.

Site 1 of 2 in cluster B

Relative: Higher
Actual: 369 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2049

A5 **SAN DIEGO CNTY SHERIFF DEPT** **RCRA-SQG** **1004675805**
5255 MT ETNA **FINDS** **CAR000077289**
< 1/8 **SAN DIEGO, CA 92117** **ECHO**
1 ft.

Site 4 of 5 in cluster A

Relative: Higher
Actual: 366 ft.

RCRA-SQG:
Date form received by agency: 07/06/2000
Facility name: SAN DIEGO CNTY SHERIFF DEPT
Facility address: 5255 MT ETNA
PROPERTY EVIDENCE UNIT
SAN DIEGO, CA 92117
EPA ID: CAR000077289
Contact: DEBORAH WILLS
Contact address: 5255 MT ETNA PROPERTY EVIDENCE UNIT
SAN DIEGO, CA 92117
Contact country: US
Contact telephone: 858-467-4475
Contact email: Not reported
EPA Region: 09
Land type: County
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: SAN DIEGO CNTY SHERIFF DEPT
Owner/operator address: 9621 RIDGEHAVEN CT
SAN DIEGO, CA 92142
Owner/operator country: Not reported
Owner/operator telephone: 858-974-2244
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: County
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No

SAN DIEGO CNTY SHERIFF DEPT (Continued) **1004675805**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D006
. Waste name: CADMIUM

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 12/23/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110002939857

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

SAN DIEGO CNTY SHERIFF DEPT (Continued) **1004675805**

corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004675805
Registry ID: 110002939857
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002939857

A6 **ARYA CLEANERS** **EDR Hist Cleaner** **1018931643**
North **4310 GENESEE AVE** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.026 mi.
137 ft. **Site 5 of 5 in cluster A**

Relative: EDR Hist Cleaner
Higher

Actual: **371 ft.**

Year:	Name:	Type:
1991	ARYA CLEANERS	Drycleaning Plants, Except Rugs, NEC
1992	ARYA CLEANERS	Drycleaning Plants, Except Rugs, NEC
1993	ARYA CLEANERS	Garment Pressing And Cleaners' Agents
1994	ARYA CLEANERS	Garment Pressing And Cleaners' Agents
1995	ARYA CLEANERS	Garment Pressing And Cleaners' Agents

B7 **RITE AID #5653** **RCRA-CESQG** **1014387670**
SE **5270 BALBOA AVE** **HAZNET** **CAR000212415**
< 1/8 **SAN DIEGO, CA 92117**
0.028 mi.
146 ft. **Site 2 of 2 in cluster B**

Relative: RCRA-CESQG:
Higher
Date form received by agency: 04/14/2017
Actual: **370 ft.**
Facility name: RITE AID #5653
Facility address: 5270 BALBOA AVE
SAN DIEGO, CA 921170000
EPA ID: CAR000212415
Mailing address: HUNTER LN
CAMP HILL, PA 17011
Contact: DAVID W CROZIER
Contact address: HUNTER LN
CAMP HILL, PA 17011
Contact country: US
Contact telephone: (717) 975-8643
Contact email: EHS@RITEAID.COM
EPA Region: 09
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting

RITE AID #5653 (Continued) **1014387670**

from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	SFT BAL-GEN LLC
Owner/operator address:	BALBOA AVE STE 303 SAN DIEGO, CA 92117
Owner/operator country:	US
Owner/operator telephone:	(858) 277-1818
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	10/26/1998
Owner/Op end date:	Not reported
Owner/operator name:	THRIFTY PAYLESS INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	02/25/1999
Owner/Op end date:	Not reported
Owner/operator name:	RITE AID CORP
Owner/operator address:	30 HUNTER LN CAMP HILL, PA 17011
Owner/operator country:	US
Owner/operator telephone:	717-730-8225
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	09/01/1962
Owner/Op end date:	Not reported
Owner/operator name:	RITE AID CORP
Owner/operator address:	30 HUNTER LN CAMP HILL, PA 17011
Owner/operator country:	US
Owner/operator telephone:	717-730-8225
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator

RITE AID #5653 (Continued) **1014387670**

Owner/Op start date: 09/01/1962
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB’s

. Waste code: 291
. Waste name: Latex waste

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

RITE AID #5653 (Continued) **1014387670**

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

RITE AID #5653 (Continued) **1014387670**

Historical Generators:
Date form received by agency: 08/05/2014
Site name: RITE AID NO 5653
Classification: Large Quantity Generator

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 232
. Waste name: Pesticides and other waste associated with pesticide production

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D024
. Waste name: M-CRESOL

RITE AID #5653 (Continued) **1014387670**

. Waste code: D026
. Waste name: CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS

Date form received by agency: 09/03/2010
Site name: RITE AID 5653
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D016
. Waste name: 2,4-D

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U080
. Waste name: METHANE, DICHLORO-

. Waste code: U160

RITE AID #5653 (Continued) **1014387670**

. Waste name: 2-BUTANONE, PEROXIDE (R,T)

Violation Status: No violations found

HAZNET:

Facility Name:	RITE AID #5653
envid:	1014387670
Year:	2017
GEPAID:	CAR000212415
Contact:	DAVID CROZIER
Telephone:	7179758643
Mailing Name:	Not reported
Mailing Address:	30 HUNTER LN
Mailing City,St,Zip:	CAMP HILL, PA 17011
Gen County:	San Diego
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.005
Cat Decode:	Other inorganic solid waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Diego

envid:	1014387670
Year:	2017
GEPAID:	CAR000212415
Contact:	DAVID CROZIER
Telephone:	7179758643
Mailing Name:	Not reported
Mailing Address:	30 HUNTER LN
Mailing City,St,Zip:	CAMP HILL, PA 17011
Gen County:	San Diego
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.005
Cat Decode:	Other inorganic solid waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Diego

envid:	1014387670
Year:	2017
GEPAID:	CAR000212415
Contact:	DAVID CROZIER
Telephone:	7179758643
Mailing Name:	Not reported
Mailing Address:	30 HUNTER LN
Mailing City,St,Zip:	CAMP HILL, PA 17011
Gen County:	San Diego
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus inorganics

RITE AID #5653 (Continued) **1014387670**

Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0005
Cat Decode:	Off-specification, aged or surplus inorganics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Diego

envid:	1014387670
Year:	2017
GEPAID:	CAR000212415
Contact:	DAVID CROZIER
Telephone:	7179758643
Mailing Name:	Not reported
Mailing Address:	30 HUNTER LN
Mailing City,St,Zip:	CAMP HILL, PA 17011
Gen County:	San Diego
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus inorganics
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0005
Cat Decode:	Off-specification, aged or surplus inorganics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Diego

envid:	1014387670
Year:	2017
GEPAID:	CAR000212415
Contact:	DAVID CROZIER
Telephone:	7179758643
Mailing Name:	Not reported
Mailing Address:	30 HUNTER LN
Mailing City,St,Zip:	CAMP HILL, PA 17011
Gen County:	San Diego
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Waste Category:	Unspecified solvent mixture
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0065
Cat Decode:	Unspecified solvent mixture
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Diego

Click this hyperlink while viewing on your computer to access
85 additional CA_HAZNET: record(s) in the EDR Site Report.

C8 **MOBIL T0220** **LUST** **S108407134**
NNE **4302 GENESEE AV** **SAN DIEGO CO. SAM** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.032 mi.
168 ft. **Site 1 of 12 in cluster C**

Relative:
Higher

Actual:
370 ft.

LUST:

Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607301854
Global Id:	T0607301854
Latitude:	32.8214035
Longitude:	-117.1830562
Status:	Completed - Case Closed
Status Date:	10/24/1986
Case Worker:	KH
RB Case Number:	9UT309
Local Agency:	SAN DIEGO COUNTY LOP
File Location:	Local Agency
Local Case Number:	H13500-001
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607301854
Contact Type:	Local Agency Caseworker
Contact Name:	KEVIN HEATON
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	kevin.heaton@sdcounty.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607301854
Action Type:	Other
Date:	08/08/1986
Action:	Leak Reported

Global Id:	T0607301854
Action Type:	Other
Date:	08/08/1986
Action:	Leak Began

Global Id:	T0607301854
Action Type:	Other
Date:	08/08/1986
Action:	Leak Discovery

LUST:

Global Id:	T0607301854
Status:	Completed - Case Closed
Status Date:	10/24/1986

Global Id:	T0607301854
Status:	Open - Case Begin Date
Status Date:	08/08/1986

MOBIL T0220 (Continued) **S108407134**

SAN DIEGO CO. SAM:
Case Number: H13500-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 10/24/1986
Date Began: 8/8/1986

C9 **FORMER MOBIL STATION** **LUST** **S102430284**
NNE **4302 GENESSEE AVE** **HIST CORTESE** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.032 mi.
168 ft. **Site 2 of 12 in cluster C**

Relative:
Higher

Actual:
370 ft.

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT309
Local Case: H13500-001
Substance: Gasoline
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Tank
Cause: Overfill
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 08/08/1986
Date Stopped: / /
Confirm Date: / /
Submit Workplan: Not reported
Prelim Assess: / /
Desc Pollution: Not reported
Remed Plan: 10/17/1986
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 08/12/1986
Enforce Date: Not reported
Closed Date: 10/24/86
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 906.50
GW Depth: UNKW
Beneficial Use: Not reported
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 37

FORMER MOBIL STATION (Continued) **S102430284**

Reg By: LTNKA
Reg Id: 9UT309

C10 **SAN DIEGO SMOG & MOBILE** **EDR Hist Auto** **1008998644**
NNE **4302 GENESEE** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.032 mi.
168 ft. **Site 3 of 12 in cluster C**

Relative: EDR Hist Auto
Higher

Actual:
370 ft.

Year:	Name:	Type:
1970	BROADBENT S JIM SERVICE CENTER	GASOLINE STATIONS
1974	GENESEE MT ETNA MOBILE SERVICE	Gasoline Service Stations
1975	LARRY S SERVICE CENTER	GASOLINE STATIONS
1975	GENESEE MT ETNA MOBILE SERVICE	Gasoline Service Stations
1976	GENESEE MT ETNA MOBILE SERVICE	Gasoline Service Stations
1977	GENESEE MT ETNA MOBILE SERVICE	Gasoline Service Stations
1978	GENESEE MT ETNA MOBILE SERVICE	Gasoline Service Stations
1979	GENESEE MT ETNA MOBILE SERVICE	Gasoline Service Stations
1980	WALLY S MOBIL SERVICE	GASOLINE STATIONS
1980	GENESEE MT ETNA MOBILE SERVICE	Gasoline Service Stations
1982	GENESEE MT ETNA MOBILE SERVICE	Gasoline Service Stations
1982	WALLYS MOBILE SOUTH	Gasoline Service Stations
1983	GENESEE MT ETNA MOBILE SERVICE	Gasoline Service Stations
1983	WALLYS MOBILE SOUTH	Gasoline Service Stations
1984	WALLY S MOBIL SERVICE	GASOLINE STATIONS
1985	SAN DIEGO SMOG	Gasoline Service Stations
1985	SAN DIEGO SMOG & MOBILE	Gasoline Service Stations
1986	SAN DIEGO SMOG & MOBILE	Gasoline Service Stations
1986	SAN DIEGO SMOG	Gasoline Service Stations
1987	SAN DIEGO SMOG	Gasoline Service Stations
1987	SAN DIEGO SMOG & MOBILE	Gasoline Service Stations

C11 **MOBIL T0220** **SWEEPS UST** **S106929538**
NNE **4302 GENESEE AVE** **SAN DIEGO CO LOP** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.032 mi.
168 ft. **Site 4 of 12 in cluster C**

Relative: SWEEPS UST:
Higher

Actual:
370 ft.

Status:	Not reported
Comp Number:	13500
Number:	Not reported
Board Of Equalization:	44-000400
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-013500-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported

MOBIL T0220 (Continued) **S106929538**

Number Of Tanks: 4

Status: Not reported
Comp Number: 13500
Number: Not reported
Board Of Equalization: 44-000400
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-013500-000002
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 13500
Number: Not reported
Board Of Equalization: 44-000400
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-013500-000003
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 13500
Number: Not reported
Board Of Equalization: 44-000400
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-013500-000004
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

SAN DIEGO CO LOP:
Record ID: DEH1986-LSAM-H13500-001
Record Status: Completed
Opened Date: 08/08/1986

MOBIL T0220 (Continued) **S106929538**

Parcel Number:	361-661-20-00
Case Type:	LOP - Local Oversight Program
Historical Name:	MOBIL
SWRCB Global ID:	T0607301854
Funding:	S - LOP State Fund
Lead Agency:	DEH/SAM
Lead Agency Date:	08/08/1986
Census Tract:	85.04
Community:	San Diego
Jurisdiction:	SAN DIEGO
Watershed Basin Number:	906.5
Water Purveyor:	SAN DIEGO
Fire Agency:	SAN DIEGO
Thomas Bros Map Page Grid:	1248 G 2
Latitude:	32.8208055
Longitude:	-117.1831437
X MapCoord:	6274982.624
Y MapCoord:	1879726.330

C12 **HUNTER S ENCO SERVICE** **EDR Hist Auto** **1008998983**
NE **4299 GENESEE AV** **N/A**
< 1/8 **SAN DIEGO, CA**
0.052 mi.
273 ft. **Site 5 of 12 in cluster C**

Relative: EDR Hist Auto
Higher

Actual: **370 ft.**

Year:	Name:	Type:
1970	HUNTER S ENCO SERVICE	GASOLINE STATIONS
1973	SAKATANI TOM & AKAKO	Gasoline Service Stations
1974	SAKATANI TOM & AKAKO	Gasoline Service Stations
1975	SAKATANI TOM & AKAKO	Gasoline Service Stations

D13 **GENESEE PLAZA CLEANERS** **DRYCLEANERS** **1006823758**
ESE **4203 GENESEE AV #105** **EMI** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.055 mi.
290 ft. **Site 1 of 7 in cluster D**

Relative: DRYCLEANERS:
Higher

Actual: **373 ft.**

EPA Id:	CAL000048950
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	06/25/1991
Facility Active:	No
Inactive Date:	06/30/2017
Facility Addr2:	Not reported
Owner Name:	RICHARD MORTON
Owner Address:	3515 MT CAROL DR
Owner Address 2:	Not reported
Owner Telephone:	8582794244
Contact Name:	RICK MORTON-OWNER
Contact Address:	3515 MT CAROL DR
Contact Address 2:	Not reported

GENESEE PLAZA CLEANERS (Continued) **1006823758**

Contact Telephone:	8582794244
Mailing Name:	Not reported
Mailing Address 1:	4203 GENESEE AVE STE 105
Mailing Address 2:	Not reported
Mailing City:	SAN DIEGO
Mailing State:	CA
Mailing Zip:	921174950
Owner Fax:	0000000000
Region Code:	4

EMI:

Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	90030
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	90030
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	90030
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0

GENESEE PLAZA CLEANERS (Continued) **1006823758**

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

D14 **STEAM CLUB** **EDR Hist Cleaner** **1018844281**
ESE **4203 GENESEE AVE 103267** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.055 mi.
290 ft. **Site 2 of 7 in cluster D**

Relative: EDR Hist Cleaner
Higher

Actual:
373 ft.

Year:	Name:	Type:
1991	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
1992	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
1993	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
1994	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
1995	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
1996	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
1997	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
1998	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
1999	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2000	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2001	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2002	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2002	STEAM CLUB	Carpet And Upholstery Cleaning
2003	STEAM CLUB	Carpet And Upholstery Cleaning
2003	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2004	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2004	STEAM CLUB	Carpet And Upholstery Cleaning
2005	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2005	STEAM CLUB	Carpet And Upholstery Cleaning
2006	STEAM CLUB	Carpet And Upholstery Cleaning
2006	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2007	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2007	STEAM CLUB	Carpet And Upholstery Cleaning
2008	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2008	STEAM CLUB	Carpet And Upholstery Cleaning
2009	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2009	STEAM CLUB	Carpet And Upholstery Cleaning
2010	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2010	STEAM CLUB	Carpet And Upholstery Cleaning
2011	STEAM CLUB	Carpet And Upholstery Cleaning
2011	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2012	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2012	STEAM CLUB	Carpet And Upholstery Cleaning
2013	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs
2014	GENESEE PLAZA CLEANERS	Drycleaning Plants, Except Rugs

C15 **GENESEE SHELL** **SAN DIEGO CO. SAM** **S108407065**
NNE **4303 GENESEE AV** **SAN DIEGO CO LOP** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.062 mi.
327 ft. **Site 6 of 12 in cluster C**

Relative:
Higher

Actual:
370 ft.

SAN DIEGO CO. SAM:

Case Number:	H03207-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Remedial Investigation
Date:	10/14/1999
Date Began:	3/19/1999

SAN DIEGO CO LOP:

Record ID:	DEH1999-LSAM-H03207-001
Record Status:	Completed
Opened Date:	03/19/1999
Parcel Number:	361-261-23-00
Case Type:	LOP - Local Oversight Program
Historical Name:	SHELL OIL
SWRCB Global ID:	T0607302627
Funding:	S - LOP State Fund
Lead Agency:	DEH/SAM
Lead Agency Date:	03/24/1999
Census Tract:	85.07
Community:	San Diego
Jurisdiction:	SAN DIEGO
Watershed Basin Number:	906.5
Water Purveyor:	SAN DIEGO
Fire Agency:	SAN DIEGO
Thomas Bros Map Page Grid:	1248 G 2
Latitude:	32.8217296
Longitude:	-117.1827111
X MapCoord:	6275136.113
Y MapCoord:	1880045.826

C16 **SHELL SERVICE STATION NO 135906** **RCRA-CESQG** **1008372086**
NNE **4303 GENESEE AVE** **CAR000162602**
< 1/8 **SAN DIEGO, CA 92117**
0.062 mi.
327 ft. **Site 7 of 12 in cluster C**

Relative:
Higher

Actual:
370 ft.

RCRA-CESQG:

Date form received by agency:	04/04/2017
Facility name:	SHELL SERVICE STATION NO 135906
Facility address:	4303 GENESEE AVE SAN DIEGO, CA 92117
EPA ID:	CAR000162602
Mailing address:	S WILMINGTON AVE CARSON, CA 90801
Contact:	ANDREA WING
Contact address:	S WILMINGTON AVE CARSON, CA 90801
Contact country:	US
Contact telephone:	714-731-1050
Contact email:	ANDREA.WING@SHELL.COM
EPA Region:	09

SHELL SERVICE STATION NO 135906 (Continued) **1008372086**

Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	ADAM ESTES
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/02/2017
Owner/Op end date:	Not reported

Owner/operator name:	ANDREA WING
Owner/operator address:	S WILMINGTON AVE
	CARSON, 90810
Owner/operator country:	US
Owner/operator telephone:	707-933-2366
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	03/02/2017
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

SHELL SERVICE STATION NO 135906 (Continued) **1008372086**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D018
. Waste name: BENZENE

Historical Generators:
Date form received by agency: 05/06/2005
Site name: SHELL SERVICE STATION NO 135906
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

C17 **SHELL OIL SERVICE STATION** **LUST S103891810**
NNE **4303 GENESEE AVE** **SWEEPS UST N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.062 mi.
327 ft. **Site 8 of 12 in cluster C**

Relative:
Higher

Actual:
370 ft.

LUST REG 9:
Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT3868
Local Case: H03207-001

SHELL OIL SERVICE STATION (Continued) **S103891810**

Substance: Waste Oil
Qty Leaked: Not reported
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 03/19/1999
Date Stopped: 03/19/1999
Confirm Date: / /
Submit Workplan: Not reported
Prelim Assess: 03/24/1999
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 03/31/1999
Enforce Date: 3/31/99
Closed Date: Not reported
Enforce Type: SEL
Pilot Program: LOP
Basin Number: 906.50
GW Depth: Not reported
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 1B
File Dispn: Administratively opened on database, however no file physically exists
Interim Remedial Actions: Not reported
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 3207
Number: 9
Board Of Equalization: 44-000074
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-003207-000001
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 3207
Number: 9
Board Of Equalization: 44-000074
Referral Date: Not reported

SHELL OIL SERVICE STATION (Continued) **S103891810**

Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-003207-000002
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 3207
Number: 9
Board Of Equalization: 44-000074
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-003207-000003
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 3207
Number: 9
Board Of Equalization: 44-000074
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-003207-000005
Tank Status: A
Capacity: 550
Active Date: Not reported
Tank Use: PETROLEUM
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 3207
Number: Not reported
Board Of Equalization: 44-000074
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-003207-000004
Tank Status: Not reported
Capacity: 550

SHELL OIL SERVICE STATION (Continued) **S103891810**

Active Date: Not reported
Tank Use: PETROLEUM
STG: WASTE
Content: Not reported
Number Of Tanks: 1

C18 **THELES SELF SERVICE SHELL** **EDR Hist Auto** **1008998631**
NNE **4303 GENESEE AVE** **N/A**
< 1/8 **SAN DIEGO, CA**
0.062 mi.
327 ft. **Site 9 of 12 in cluster C**

Relative: EDR Hist Auto
Higher

Actual:
370 ft.

Year:	Name:	Type:
1966	BALBOA SHELL SERVICE	GASOLINE STATIONS
1970	BALBOA SHELL SERVICE	GASOLINE STATIONS
1975	GENESEE SHELL SERVICE	GASOLINE STATIONS
1975	GENESEE SHELL	Gasoline Service Stations
1976	GENESEE SHELL	Gasoline Service Stations
1977	GENESEE SHELL	Gasoline Service Stations
1978	GENESEE SHELL	Gasoline Service Stations
1979	GENESEE SHELL	Gasoline Service Stations
1980	CUMMINGS BILL SELF SERV SHELL	GASOLINE STATIONS
1980	GENESEE SHELL	Gasoline Service Stations
1982	GENESEE SHELL	Gasoline Service Stations
1983	GENESEE SHELL	Gasoline Service Stations
1984	THELES SELF SERVICE SHELL	GASOLINE STATIONS
1988	CAOLE MARVIN	Gasoline Service Stations
1989	CAOLE MARVIN	Gasoline Service Stations, NEC
1990	CAOLE MARVIN	Gasoline Service Stations, NEC
1990	J H BRIGGS OIL INC	Petroleum Products, NEC
1991	CAOLE MARVIN	Gasoline Service Stations, NEC
1991	J H BRIGGS OIL INC	Petroleum Products, NEC
1992	J H BRIGGS OIL INC	Petroleum Products, NEC
1992	CAOLE MARVIN	Gasoline Service Stations, NEC
1993	J H BRIGGS OIL INC	Petroleum Products, NEC
1993	CAOLE MARVIN	Gasoline Service Stations, NEC
1994	GENESEE SHELL INC	General Automotive Repair Shops
1995	GENESEE SHELL INC	General Automotive Repair Shops
1996	GENESEE SHELL INC	General Automotive Repair Shops
1997	GENESEE SHELL INC	General Automotive Repair Shops
1998	GENESEE SHELL INC	General Automotive Repair Shops
1999	GENESEE SHELL INC	General Automotive Repair Shops
2000	GENESEE SHELL INC	General Automotive Repair Shops
2001	GENESEE SHELL INC	Gasoline Service Stations
2002	GENESEE SHELL INC	Gasoline Service Stations
2003	GENESEE AUTO CARE	Gasoline Service Stations
2004	GENESEE AUTO CARE	Gasoline Service Stations
2005	GENESEE AUTO CARE	Gasoline Service Stations
2006	GENESEE AUTO CARE	Gasoline Service Stations
2007	GENESEE AUTO CARE	Gasoline Service Stations
2008	GENESEE AUTO CARE	Gasoline Service Stations
2009	GENESEE AUTO CARE	Gasoline Service Stations
2010	GENESEE AUTO CARE	Gasoline Service Stations
2011	GENESEE AUTO CARE	Gasoline Service Stations
2012	GENESEE AUTO CARE	Gasoline Service Stations
2013	GENESEE AUTO CARE	Gasoline Service Stations

THELES SELF SERVICE SHELL (Continued) **1008998631**

2014 GENESEE AUTO CARE Gasoline Service Stations

C19 **CAGLES GENESEE SHELL** **HIST UST** **U001573060**
NNE **4303 GENESEE AVE** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.062 mi.
327 ft. **Site 10 of 12 in cluster C**

Relative:
Higher

Actual:
370 ft.

HIST UST:

File Number:	0002F317
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002F317.pdf
Region:	STATE
Facility ID:	00000051295
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MARVIN CAGLE
Telephone:	6195609725
Owner Name:	SHELL OIL COMPANY
Owner Address:	P.O. BOX 4848
Owner City,St,Zip:	ANAHEIM, CA 92803
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	1983
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, Groundwater Monitoring Well, 10
Tank Num:	002
Container Num:	2
Year Installed:	1983
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, Groundwater Monitoring Well, 10
Tank Num:	003
Container Num:	3
Year Installed:	1983
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, Groundwater Monitoring Well, 10
Tank Num:	004
Container Num:	4
Year Installed:	1964
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	Stock Inventor, 10

CAGLES GENESEE SHELL (Continued) **U001573060**

Click here for Geo Tracker PDF:

C20 **GENESEE SHELL** **LUST** **S104745632**
NNE **4303 GENESEE AV** **HAZNET** **N/A**
< 1/8 **SAN DIEGO, CA 92117** **HIST CORTESE**
0.062 mi.
327 ft. **Site 11 of 12 in cluster C**

Relative: **Higher**
Actual: **370 ft.**

LUST:

Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607302627
Global Id:	T0607302627
Latitude:	32.8214465
Longitude:	-117.1828698
Status:	Completed - Case Closed
Status Date:	08/15/2018
Case Worker:	EM
RB Case Number:	9UT3868
Local Agency:	SAN DIEGO COUNTY LOP
File Location:	Local Agency
Local Case Number:	H03207-001
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	This site is currently a vacant building and fenced off lot. This case was opened in March 1999 due to elevated soil samples noted during the removal of a 500 gallon used oil Underground Storage Tank (UST). On October 1999, the remaining USTs (Three 12,000-gallon gasoline USTs), dispensers and piping were all removed and the facility ceased operations as a service station. Approximately 500 tons of soil and 18,000 gallons of impacted water were removed during both UST removals. From December 1999 to November 2013, 20 groundwater monitoring wells were installed, at which time the groundwater plume was delineated. The majority of the groundwater impacts were limited to the site and the offsite area about 200 feet northeast, which is solely a large parking area for the adjacent shopping complex. Figures 8 and 9 from the May 2018 Corrective Action Plan Addendum and Request for Case Closure (CAPA) provide the most recent distribution of dissolved contamination levels at the site. In December 1999, a Soil Vapor Extraction (SVE) pilot test was performed. No significant vacuums were noted in observation wells located 20 feet away from the extraction wells. A soil vapor assessment in January 2003 revealed no excess cancer risks for occupants of the onsite building. Benzene was calculated to have an excess carcinogenic risk of 9.14 x 10-7, which is less than the acceptable 1.0 x 10-6 excess carcinogenic risk. A June 2015 Corrective Action Plan (CAP) was submitted for monitored natural attenuation (MNA) followed by case closure when adequate plume stability had been determined via MNA. The CAP was approved by DEH and the 60-day notification period ended with one comment received from Mr. Max Younan, who identified himself as a nearby property owner on whose property at least one monitoring well was located. He asked if the CAP would affect him. AECOM informed Mr. Younan that the CAP described how groundwater monitoring for the case would continue as it had in the recent past. Mr. Younan was satisfied with the answer. Following two years of monitoring, the May 2018 CAPA was submitted. The CAPA proposed natural attenuation because: The plume is stable and decreasing. No Separate Phase Hydrocarbons remain on

GENESEE SHELL (Continued) **S104745632**

the groundwater. There are no supply wells within a \\% mile of the site. Groundwater is designated as having no beneficial uses. All utilities are above the groundwater table, which is at an average of 50 feet bgs There are no health risks based the November 2003 soil vapor sampling report. Based on degradation analyses, it is estimated that benzene in groundwater will degrade to the Water Quality Objective (WQO) of 46 ug/l by 2069. Based on mass balance, the mass would reach zero kilograms of benzene by 2090. MtBE is currently below the primary WQO of 1,800 ug/l. Approximately 11,778 cubic yards of soil remain on site with concentrations over 100 mg/kg TPH. This soil is located in the southern (lower) and northern (former UST) portion of the property from 10 50 feet bgs, per Figures 12 15 of the May 7, 2018 TPHg in Soil document. ANY CONTAMINATED SOIL EXCAVATED AS PART OF SUBSURFACE CONSTRUCTION WORK MUST BE MANAGED IN ACCORDANCE WITH THE LEGAL REQUIREMENTS AT THAT TIME. DEH concurs with the consultants conclusions and approves case closure. Permit #DEH2018-LMWP-003546 was issued by DEH for destruction of the 22 wells (including 3 SVE wells) associated with the site.

LUST:
Global Id: T0607302627
Contact Type: Local Agency Caseworker
Contact Name: EWAN MOFFAT
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261
City: San Diego
Email: ewan.moffat@sdcounty.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607302627
Action Type: RESPONSE
Date: 01/12/2017
Action: Other Report / Document

Global Id: T0607302627
Action Type: Other
Date: 03/19/1999
Action: Leak Reported

Global Id: T0607302627
Action Type: RESPONSE
Date: 07/25/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: RESPONSE
Date: 07/31/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: RESPONSE
Date: 12/24/2013
Action: Site Assessment Report - Regulator Responded

Global Id: T0607302627
Action Type: RESPONSE

GENESEE SHELL (Continued) **S104745632**

Date: 06/10/2015
Action: CAP/RAP - Feasibility Study Report - Regulator Responded

Global Id: T0607302627
Action Type: RESPONSE
Date: 10/07/2015
Action: CAP/RAP - Other Report - Regulator Responded

Global Id: T0607302627
Action Type: RESPONSE
Date: 04/19/2016
Action: Other Workplan - Regulator Responded

Global Id: T0607302627
Action Type: RESPONSE
Date: 04/06/2018
Action: Request for Closure - Regulator Responded

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 07/14/2009
Action: Letter - Notice

Global Id: T0607302627
Action Type: RESPONSE
Date: 07/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 11/03/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 04/15/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 02/04/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 02/24/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 11/06/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 01/21/2016
Action: Technical Correspondence / Assistance / Other

GENESEE SHELL (Continued) **S104745632**

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 08/15/2018
Action: Closure/No Further Action Letter

Global Id: T0607302627
Action Type: RESPONSE
Date: 04/02/2009
Action: Monitoring Report - Quarterly

Global Id: T0607302627
Action Type: RESPONSE
Date: 01/23/2009
Action: Monitoring Report - Quarterly

Global Id: T0607302627
Action Type: RESPONSE
Date: 01/27/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: RESPONSE
Date: 03/22/2010
Action: Soil and Water Investigation Workplan

Global Id: T0607302627
Action Type: RESPONSE
Date: 01/02/2014
Action: Monitoring Report - Quarterly

Global Id: T0607302627
Action Type: RESPONSE
Date: 01/02/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: RESPONSE
Date: 12/17/2014
Action: Monitoring Report - Quarterly

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 02/19/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 04/17/2018
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 04/17/2018
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302627
Action Type: RESPONSE

GENESEE SHELL (Continued) **S104745632**

Date: 07/22/2009
Action: Monitoring Report - Quarterly

Global Id: T0607302627
Action Type: RESPONSE
Date: 07/31/2009
Action: Other Report / Document

Global Id: T0607302627
Action Type: RESPONSE
Date: 05/29/2014
Action: Monitoring Report - Quarterly

Global Id: T0607302627
Action Type: RESPONSE
Date: 05/13/2014
Action: Correspondence

Global Id: T0607302627
Action Type: RESPONSE
Date: 02/28/2018
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: Other
Date: 03/19/1999
Action: Leak Began

Global Id: T0607302627
Action Type: RESPONSE
Date: 07/29/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: RESPONSE
Date: 07/27/2015
Action: Monitoring Report - Quarterly

Global Id: T0607302627
Action Type: RESPONSE
Date: 02/03/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: REMEDIATION
Date: 12/15/1999
Action: Free Product Removal

Global Id: T0607302627
Action Type: REMEDIATION
Date: 10/14/1999
Action: Excavation

Global Id: T0607302627
Action Type: REMEDIATION
Date: 03/19/1999
Action: Excavation

GENESEE SHELL (Continued) **S104745632**

Global Id: T0607302627
Action Type: RESPONSE
Date: 10/26/2010
Action: Site Assessment Report

Global Id: T0607302627
Action Type: RESPONSE
Date: 01/27/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: RESPONSE
Date: 03/01/2003
Action: Soil Vapor Intrusion Investigation Report

Global Id: T0607302627
Action Type: ENFORCEMENT
Date: 03/31/1999
Action: Notice of Responsibility

Global Id: T0607302627
Action Type: Other
Date: 03/19/1999
Action: Leak Discovery

Global Id: T0607302627
Action Type: RESPONSE
Date: 07/25/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: RESPONSE
Date: 12/17/2015
Action: Correspondence

Global Id: T0607302627
Action Type: Other
Date: 03/19/1999
Action: Leak Stopped

Global Id: T0607302627
Action Type: RESPONSE
Date: 12/16/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: RESPONSE
Date: 04/01/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: RESPONSE
Date: 07/29/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0607302627
Action Type: RESPONSE

GENESEE SHELL (Continued) **S104745632**

Date: 12/29/2011
Action: Soil and Water Investigation Workplan - Regulator Responded

LUST:
Global Id: T0607302627
Status: Completed - Case Closed
Status Date: 08/15/2018

Global Id: T0607302627
Status: Open - Case Begin Date
Status Date: 03/19/1999

Global Id: T0607302627
Status: Open - Remediation
Status Date: 10/14/1999

Global Id: T0607302627
Status: Open - Site Assessment
Status Date: 07/07/2009

HAZNET:
Facility Name: SHELL SERVICE STATION NO 135906
envid: S104745632
Year: 2015
GEPAID: CAR000162602
Contact: ADAM ESTES
Telephone: 3172917007
Mailing Name: Not reported
Mailing Address: PO BOX 2099
Mailing City,St,Zip: HOUSTON, TX 772522099
Gen County: San Diego
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.063
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Diego

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT3868

C21
NNE
< 1/8
0.064 mi.
340 ft.

QUICK N CLEAN
4315 GENESEE AVE
SAN DIEGO, CA 92117

EDR Hist Cleaner **1018649885**
N/A

Site 12 of 12 in cluster C

Relative:
Higher

Actual:
368 ft.

EDR Hist Cleaner

Year:	Name:	Type:
1996	QUICK N CLEAN	Garment Pressing And Cleaners' Agents
1997	QUICK N CLEAN	Garment Pressing And Cleaners' Agents
1998	QUICK N CLEAN	Garment Pressing And Cleaners' Agents

E22
NNW
< 1/8
0.081 mi.
428 ft.

ATLAS CLEANERS
4340 GENESEE AVE STE 106
SAN DIEGO, CA 92117

EDR Hist Cleaner **1019932473**
N/A

Site 1 of 7 in cluster E

Relative:
Higher

Actual:
370 ft.

EDR Hist Cleaner

Year:	Name:	Type:
2001	ATLAS CLEANERS	Drycleaning Plants, Except Rugs
2004	ATLAS CLEANERS	Drycleaning Plants, Except Rugs

E23
North
< 1/8
0.085 mi.
449 ft.

CIRCLE K STORES
4360 GENESEE AV
SAN DIEGO, CA 92117

SAN DIEGO CO. SAM **S107619763**
N/A

Site 2 of 7 in cluster E

Relative:
Higher

Actual:
370 ft.

SAN DIEGO CO. SAM:

Case Number:	H29223-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	OX
Facility Status:	Remedial Investigation
Date:	7/24/2008
Date Began:	7/24/2008

E24
North
< 1/8
0.085 mi.
449 ft.

CIRCLE K STORES
4360 GENESEE AV
SAN DIEGO, CA 92117

LUST **S108406991**
SAN DIEGO CO. SAM **N/A**
CPS-SLIC

Site 3 of 7 in cluster E

Relative:
Higher

Actual:
370 ft.

LUST:

Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T06019761846
Global Id:	T06019761846
Latitude:	32.822688
Longitude:	-117.184277
Status:	Completed - Case Closed
Status Date:	12/06/2013
Case Worker:	JC
RB Case Number:	Not reported

CIRCLE K STORES (Continued) **S108406991**

Local Agency: SAN DIEGO COUNTY LOP
File Location: Local Agency
Local Case Number: H29223-001
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Comments: The Site is an operating Circle K gasoline service station and minimart. The facility is bounded on the north and east by Genesee Avenue and by a parking lot and strip mall to the south and west. The above-ground structures at the Site consist of a single story building and two fuel dispensers under a single canopy. Below-ground structures consist of three underground storage tanks (USTs) and associated product piping. The Site is surrounded by commercial properties. In April and May 2004, six soil borings were advanced at the Site as part of a due diligence assessment during property transfer. The four direct-push borings hit refusal before reaching their target depths. Based on the results of the assessment, the Department of Environmental Health (DEH) opened Unauthorized Release Case H29223-001. Cumulative soil sample analytical data indicate residual hydrocarbon-impacted soil was present primarily beneath the former dispenser islands and from beneath the gasoline USTs. There is no residual soil contamination with concentrations greater than 100 milligrams per kilogram. Nine groundwater monitoring wells and three remedial wells have been installed at the Site. Groundwater was monitored between June 2006 and August 2013. Liquid-phase hydrocarbons (LPH) have never been present at the Site. Hydrocarbon impacted groundwater at the Site appears to be consistent with a release from the USTs, which have subsequently been upgraded. On-site dissolved-phase petroleum hydrocarbon concentrations generally appear to be stable to declining over time. The results from the recent installation of two groundwater monitoring wells (MW-8 and MW-9) suggest that the dissolved-phase MTBE plume has migrated offsite to the southeast; however since this area has no beneficial groundwater uses and the depth to groundwater is greater than 40 feet below grade, there is no risk to receptors downgradient. Dissolved-phase petroleum hydrocarbon concentrations in off-site well MW-9 suggest the MTBE and TBA concentrations migrating off-site attenuate with increased distance from the source area. A Corrective Action Plan (CAP) was submitted on January 26, 2010 requesting case closure. The CAP concluded that no active remediation is required to mitigate remaining hydrocarbon impacts beneath the Site. It was proposed that groundwater data be collected during the subsequent four semi-annual monitoring and sampling events to determine groundwater contaminant trends and distribution. The public participation process for the above-referenced CAP was completed. DEH received no public comments and concurred with the CAP. According to the environmental consultants registered professional, the Site presents no significant risk to human health and the environment. DEH concurs with this conclusion.

LUST:
Global Id: T06019761846
Contact Type: Local Agency Caseworker
Contact Name: JAMES CLAY
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261
City: San Diego
Email: james.clay@sdcounty.ca.gov
Phone Number: Not reported

CIRCLE K STORES (Continued) **S108406991**

LUST:

Global Id:	T06019761846
Action Type:	Other
Date:	10/07/2004
Action:	Leak Reported
Global Id:	T06019761846
Action Type:	RESPONSE
Date:	07/13/2012
Action:	Monitoring Report - Quarterly
Global Id:	T06019761846
Action Type:	RESPONSE
Date:	01/25/2013
Action:	Site Assessment Report - Regulator Responded
Global Id:	T06019761846
Action Type:	RESPONSE
Date:	10/15/2012
Action:	Monitoring Report - Quarterly
Global Id:	T06019761846
Action Type:	RESPONSE
Date:	01/24/2013
Action:	Monitoring Report - Quarterly
Global Id:	T06019761846
Action Type:	RESPONSE
Date:	10/07/2013
Action:	Request for Closure - Regulator Responded
Global Id:	T06019761846
Action Type:	RESPONSE
Date:	04/10/2013
Action:	Monitoring Report - Quarterly
Global Id:	T06019761846
Action Type:	RESPONSE
Date:	07/26/2013
Action:	Monitoring Report - Quarterly
Global Id:	T06019761846
Action Type:	RESPONSE
Date:	05/13/2013
Action:	Other Report / Document
Global Id:	T06019761846
Action Type:	ENFORCEMENT
Date:	07/09/2009
Action:	Technical Correspondence / Assistance / Other
Global Id:	T06019761846
Action Type:	RESPONSE
Date:	10/08/2013
Action:	Monitoring Report - Quarterly
Global Id:	T06019761846

CIRCLE K STORES (Continued) **S108406991**

Action Type: ENFORCEMENT
Date: 10/29/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 06/18/2010
Action: Notice of Responsibility

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 06/16/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 01/28/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 12/22/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 03/07/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 11/06/2013
Action: Notification - Preclosure

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 07/27/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 06/23/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 03/21/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 03/01/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T06019761846
Action Type: RESPONSE
Date: 02/03/2010

CIRCLE K STORES (Continued) **S108406991**

Action: Corrective Action Plan / Remedial Action Plan

Global Id: T06019761846
Action Type: RESPONSE
Date: 02/03/2010
Action: Monitoring Report - Quarterly

Global Id: T06019761846
Action Type: RESPONSE
Date: 06/04/2009
Action: Monitoring Report - Quarterly

Global Id: T06019761846
Action Type: RESPONSE
Date: 04/20/2009
Action: Monitoring Report - Quarterly

Global Id: T06019761846
Action Type: RESPONSE
Date: 04/29/2010
Action: Monitoring Report - Quarterly

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 12/06/2013
Action: Closure/No Further Action Letter

Global Id: T06019761846
Action Type: RESPONSE
Date: 06/15/2010
Action: Monitoring Report - Quarterly

Global Id: T06019761846
Action Type: Other
Date: 04/27/2005
Action: Leak Began

Global Id: T06019761846
Action Type: RESPONSE
Date: 10/08/2010
Action: Monitoring Report - Quarterly

Global Id: T06019761846
Action Type: RESPONSE
Date: 01/14/2010
Action: Monitoring Report - Quarterly

Global Id: T06019761846
Action Type: Other
Date: 04/27/2005
Action: Leak Discovery

Global Id: T06019761846
Action Type: RESPONSE
Date: 03/21/2011
Action: Monitoring Report - Quarterly

CIRCLE K STORES (Continued) **S108406991**

Global Id: T06019761846
Action Type: RESPONSE
Date: 04/15/2011
Action: Other Report / Document

Global Id: T06019761846
Action Type: ENFORCEMENT
Date: 07/13/2005
Action: Notice of Responsibility

Global Id: T06019761846
Action Type: Other
Date: 07/03/2005
Action: Leak Stopped

Global Id: T06019761846
Action Type: RESPONSE
Date: 01/13/2012
Action: Monitoring Report - Quarterly

Global Id: T06019761846
Action Type: RESPONSE
Date: 01/13/2012
Action: Monitoring Report - Quarterly - Regulator Responded

Global Id: T06019761846
Action Type: RESPONSE
Date: 04/20/2012
Action: Request for Closure - Regulator Responded

Global Id: T06019761846
Action Type: RESPONSE
Date: 07/26/2012
Action: Soil and Water Investigation Workplan - Regulator Responded

LUST:
Global Id: T06019761846
Status: Completed - Case Closed
Status Date: 12/06/2013

Global Id: T06019761846
Status: Open - Case Begin Date
Status Date: 10/07/2004

Global Id: T06019761846
Status: Open - Eligible for Closure
Status Date: 06/03/2005

Global Id: T06019761846
Status: Open - Site Assessment
Status Date: 06/03/2005

SAN DIEGO CO. SAM:
Case Number: H29223-001
Agency: DEH Site Assessment & Mitigation

CIRCLE K STORES (Continued) **S108406991**

Funding:	**LOP - State Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Preliminary Assessment
Date:	6/3/2005
Date Began:	4/27/2005

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	08/15/2212
Global Id:	T10000000443
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H29223-002
Latitude:	32.8416541
Longitude:	-117.1973963
Case Type:	Cleanup Program Site
Case Worker:	JC
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Administratively Closed on August 15, 2012

Click here to access the California GeoTracker records for this facility:

E25 **CIRCLE K CORP** **SWEEPS UST** **S102815303**
North **4360 GENESEE AVE** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.085 mi.
449 ft. **Site 4 of 7 in cluster E**

Relative: **Higher**

Actual: **370 ft.**

SWEEPS UST:

Status:	Active
Comp Number:	29223
Number:	9
Board Of Equalization:	44-003292
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-029223-000001
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	3

Status:	Active
Comp Number:	29223
Number:	9
Board Of Equalization:	44-003292
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88

CIRCLE K CORP (Continued) **S102815303**

Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-029223-000002
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 29223
Number: 9
Board Of Equalization: 44-003292
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-029223-000003
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

E26 **CIRCLE K CORP 5095** **UST 1008201904**
North **4360 GENESEE AV** **FINDS N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.085 mi.
449 ft. **Site 5 of 7 in cluster E**

Relative:
Higher

Actual:
370 ft.

UST:
Facility ID: 37-000-204248
Permitting Agency: San Diego County Department of Environmental Health
Latitude: 32.82261
Longitude: -117.1839

Facility ID: H29223
Permitting Agency: SAN DIEGO COUNTY
Latitude: 32.823924
Longitude: -117.1829869

FINDS:

Registry ID: 110021107531

Environmental Interest/Information System
HAZARDOUS AIR POLLUTANT MAJOR

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

D27 **90896** **HIST UST** **U001572885**
ESE **5401 BALBOA AVE** **N/A**
< 1/8 **SAN DIEGO, CA 92111**
0.093 mi.
489 ft. **Site 3 of 7 in cluster D**

Relative:
Higher

Actual:
370 ft.

HIST UST:

File Number:	0002ADF1
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002ADF1.pdf
Region:	STATE
Facility ID:	00000061931
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	HOLMBERG,DON
Telephone:	6192791010
Owner Name:	CHEVRON U.S.A. INC.
Owner Address:	575 MARKET
Owner City,St,Zip:	SAN FRANCISCO, CA 94105
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	1968
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1968
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1968
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	1968
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	0000130
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

D28
ESE
< 1/8
0.093 mi.
489 ft.

Relative:
Higher

Actual:
370 ft.

CHEVRON / BALBOA AVENUE
5401 BALBOA AVENUE
SAN DIEGO, CA 92111

Site 4 of 7 in cluster D

LUST **1000905571**
SAN DIEGO CO. SAM **CA0000866095**
CPS-SLIC
UST
San Diego Co. HMMD
SWEEPS UST
RCRA NonGen / NLR
FINDS
ECHO
EMI
HIST CORTESE
SAN DIEGO CO LOP

LUST:

Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607301497
Global Id:	T0607301497
Latitude:	32.8191260197204
Longitude:	-117.181334495544
Status:	Completed - Case Closed
Status Date:	05/07/2012
Case Worker:	EB
RB Case Number:	9UT2742
Local Agency:	SAN DIEGO COUNTY LOP
File Location:	Local Agency
Local Case Number:	H12456-003
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	This case was opened following the discovery of contaminated soil during the removal of a waste oil underground storage tank (UST) in August 1993 (Former case H12456-001) and the current case was opened following the discovery of contaminated soil during the removal of three gasoline USTs in September 1993. These two cases were combined into H12456-003 on March 19, 2009. Soil sample data indicated that gasoline contaminated soil was present in the vicinity of the former northern dispenser islands, in the vicinity of the southwestern dispenser island and the product piping lines that connected the two islands. Soil at the northern dispenser islands was impacted from near the surface to a depth of 25 feet and at the southwestern islands from the near surface to a depth of 10 feet. The consultant estimated the total volume of contaminated soil at the site at 748 cubic yards. Monitoring wells were installed at the site in 1997 and free product was detected in three wells (B2, B4 and EW1) at that time. A total of seventeen monitoring wells were associated with this site. Groundwater monitoring began in May 1997 and continued until April 2011. Two wells (B7 and B10) were destroyed and replaced with new wells in 2004. Free product was last observed in well EW1 in January 2010. According to the consultant utilities in the vicinity of the site include sewer and storm drain pipes, cable, gas and electrical, phone and water lines. In general, these lines are buried between one and one-half (1.5) and eight (8) feet below grade. Since the depth to groundwater at the site has been as shallow as five feet, the subsurface utilities could be a potential means of migration of contaminants in groundwater. According to the consultant, there has not been any evidence of migration along utility lines. Limited free-product recovery efforts were made between April 1999 and January 2003 resulting in a total of 1.82 gallons product recovered. In April 2001 a high-vacuum dual-phase

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

extraction (HVDPE) pilot test was completed which removed an estimated 400 gallons of impacted groundwater and 7.8 pound of hydrocarbon vapors. Between April 2001 and April 2002 a total of seven 24-hour and one 72-hour two-phase extraction events (TPE) were completed. The consultant estimated the total mass of hydrocarbons removed through vapor extraction during these TPE events was 167 pounds. The consultant also reported that a total of 16,172 gallons of water were removed during the first five TPE events. An unknown quantity of groundwater was removed during the remaining events. In August 2008 both a step drawdown and constant discharge test was completed on well EW1 with a total of 80 gallons of water being removed. A feasibility test for multiphase extraction was conducted in January 2010 on EW1. An estimated seven pounds of hydrocarbon vapor and 30 gallons of water/free product were removed during this test. Free product was not observed in EW1 following the feasibility test. A human health risk assessment (HHRA) was conducted in 2006 and benzene concentrations in soil vapor exceeded the DEH excess cancer risk threshold of one-in-one million (1 x 10-6) at five feet at three vapor probe locations (SV8, SV10, and SV15). This indicated that there was a potential health risk for future on-site development which would require additional mitigation and/or implementation of engineering controls. According to the consultant, there were no other sensitive receptors or surface water bodies with complete exposure pathways that could be impacted by the site. To mitigate the potential health risk the property owner/developer (owner) decided to proceed with active remediation as previously proposed in a Corrective Action Plan (CAP) dated March 1, 2010 that was rescinded by Chevron on March 17, 2010. This remedial activity was completed under VAP case H12456-004. Remedial soil excavation at the site was completed under VAP case H12456-004. A total of 3,857 tons of contaminated soil were excavated. A total of 2,550 tons were treated and recycled by Soil Safe of California - TPST in Adelanto and 1,307 tons were disposed at the Otay landfill in Chula Vista. In addition, 18,437 gallons of groundwater were removed during dewatering activities and transported to K-Pure Waterworks facility in Rancho Cucamonga. Following excavation, a soil vapor survey and human health risk assessment was conducted at the site. The estimated excess cancer risks of 2 x 10-8 and hazard values 4.89 x 10-5 were below the DEH threshold values. The consultant concluded that the remediation at the site was successful in eliminating the risks to human health from vapor intrusion. Prior to the excavation, the groundwater plume was delineated and the maximum concentrations were found at the locations where free product had previously been detected at the former product lines and dispenser areas. Outside of these areas, contaminant concentrations in groundwater were either low or not detected. According to the consultant the plume had high concentrations of contaminants in the impacted area, however the contaminant concentrations appeared to be stable and/or contracting. Groundwater beneath the site is classified as having no beneficial uses. There has not been free product detected at the site since January 2010. The contaminated soil has mostly been removed by excavation. The sources of free product have been removed from the site. The risks to human health from vapor intrusion have been eliminated by the remediation conducted under the VAP case. According to the consultant, the time for benzene to degrade to the maximum contaminant level (MCL) of 1 ug/l by natural attenuation could take up to 1,400 years, MTBE could take 130 years, and TBA could take 210

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

years, respectively, to reach the State notification level of 12 ug/l. Ethylbenzene is currently below the State MCL of 300 ug/l. A Revised CAP Addendum dated April 18, 2011 was submitted by Chevron which recommended remediation through natural attenuation and the use of engineering controls. DEH concurred with the Revised CAP Addendum on October 5, 2011 with conditions that soil remediation proposed by the owner was completed to mitigate the potential health risks to on-site development. As stated above, this work was accomplished under the VAP case H12456-004. The consultant stated that free product has not reoccurred at the site, that the site does not pose a risk to the environment or human health if engineering controls are used, and that the plume was stabile and contracting. The consultant requested no further action on the case and DEH concurred with this recommendation with conditions. Remediation of the site has occurred under VAP case H12456-004 and DEH concurs with the recommendation to close this case.

LUST:
Global Id: T0607301497
Contact Type: Local Agency Caseworker
Contact Name: Ellen Beacon
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261
City: San Diego
Email: ellen.beacon@sdcounty.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 03/05/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301497
Action Type: Other
Date: 09/23/1993
Action: Leak Reported

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 06/09/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 03/18/2009
Action: Letter - Notice

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 07/08/2009
Action: Letter - Notice

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 09/15/2009
Action: Technical Correspondence / Assistance / Other

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Global Id: T0607301497
Action Type: RESPONSE
Date: 07/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 06/29/2011
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 05/17/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 03/08/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 10/05/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 09/15/2011
Action: File review

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 05/07/2012
Action: Closure/No Further Action Letter

Global Id: T0607301497
Action Type: RESPONSE
Date: 05/27/2009
Action: CAP/RAP - Other Report

Global Id: T0607301497
Action Type: RESPONSE
Date: 07/10/2009
Action: CAP/RAP - Other Report

Global Id: T0607301497
Action Type: RESPONSE
Date: 02/26/2010
Action: CAP/RAP - Feasibility Study Report

Global Id: T0607301497
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607301497
Action Type: RESPONSE

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Date: 10/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607301497
Action Type: RESPONSE
Date: 10/30/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0607301497
Action Type: Other
Date: 09/23/1993
Action: Leak Began

Global Id: T0607301497
Action Type: Other
Date: 09/23/1993
Action: Leak Discovery

Global Id: T0607301497
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607301497
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607301497
Action Type: RESPONSE
Date: 06/01/2011
Action: Correspondence

Global Id: T0607301497
Action Type: RESPONSE
Date: 08/05/2011
Action: Well Destruction Report

Global Id: T0607301497
Action Type: ENFORCEMENT
Date: 10/05/1993
Action: Notice of Responsibility

Global Id: T0607301497
Action Type: Other
Date: 09/23/1993
Action: Leak Stopped

Global Id: T0607301497
Action Type: RESPONSE
Date: 02/14/2012
Action: Well Destruction Report

Global Id: T0607301497
Action Type: RESPONSE
Date: 03/01/2010
Action: CAP/RAP - Other Report - Regulator Responded

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Global Id: T0607301497
Action Type: RESPONSE
Date: 04/18/2011
Action: CAP/RAP - Other Report - Regulator Responded

LUST:
Global Id: T0607301497
Status: Completed - Case Closed
Status Date: 05/07/2012

Global Id: T0607301497
Status: Open - Case Begin Date
Status Date: 09/23/1993

Global Id: T0607301497
Status: Open - Remediation
Status Date: 05/13/1997

Lead Agency: SAN DIEGO COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607303172
Global Id: T0607303172
Latitude: 32.819148
Longitude: -117.181334
Status: Completed - Case Closed
Status Date: 04/01/2009
Case Worker: EB
RB Case Number: 9UT936
Local Agency: SAN DIEGO COUNTY LOP
File Location: Local Agency
Local Case Number: H12456-001
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Case -001was opened when waste oil tank failed a tightness test and later was confirmed upon removal. This case -001, is being administratively closed and managed under case H12456-003. See H12456-003 for further case information.

LUST:
Global Id: T0607303172
Contact Type: Local Agency Caseworker
Contact Name: Ellen Beacon
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261
City: San Diego
Email: ellen.beacon@sdcounty.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607303172
Action Type: Other
Date: 03/25/1988
Action: Leak Reported

Global Id: T0607303172
Action Type: Other

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Date: 03/25/1988
Action: Leak Began

Global Id: T0607303172
Action Type: Other
Date: 03/25/1988
Action: Leak Discovery

Global Id: T0607303172
Action Type: ENFORCEMENT
Date: 03/25/1988
Action: Notice of Responsibility

Global Id: T0607303172
Action Type: Other
Date: 03/25/1988
Action: Leak Stopped

LUST:
Global Id: T0607303172
Status: Completed - Case Closed
Status Date: 04/01/2009

Global Id: T0607303172
Status: Open - Case Begin Date
Status Date: 03/25/1988

Global Id: T0607303172
Status: Open - Site Assessment
Status Date: 08/28/1989

SAN DIEGO CO. SAM:
Case Number: H12456-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Closed Case
Date: 3/18/2009
Date Began: 3/25/1988

Case Number: H12456-002
Agency: DEH Site Assessment & Mitigation
Funding: **Non Billable**
Facility Type: Failed Integrity Test
Facility Status: Closed Case
Date: 4/12/1990
Date Began: 4/25/1989

Case Number: H12456-003
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Remedial Investigation
Date: 5/13/1997
Date Began: 9/23/1993

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	04/12/1990
Global Id:	T0608136465
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H12456-002
Latitude:	32.819176
Longitude:	-117.181364
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	05/17/2012
Global Id:	T10000003027
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H12456-004
Latitude:	32.8192883140648
Longitude:	-117.181141376495
Case Type:	Cleanup Program Site
Case Worker:	EB
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	The site was a former Chevron station. This case was opened after the Chevron rescinded the Revised Corrective Action Plan (CAP) dated March 1, 2010 that specified the remedial alternative would be excavation of contaminated soil. Chevron then submitted a Revised CAP Addendum dated April 18, 2011 for natural attenuation with the stipulation that engineering controls would be required due to potential risks from vapor intrusion of volatile organic compounds (VOCs), if the site were to be developed. This potential risk was due to residual soil impacts on the site. The property owner/developer of the property was concerned with the requirement of using engineering controls. On May 17, 2011 the current case was opened by the property owner/developer to proceed with the implementation of the proposed soil mitigation activities outlined in the Voluntarily Assistance Program Application prepared by SCS Engineers dated May 5, 2011 and the Revised Corrective Action Plan (CAP) dated March 1, 2010 that was prepared by Stantec, Inc. This mitigation plan was approved on June 24, 2011. It should be noted that this mitigation plan only addressed petroleum impacts to soil and not groundwater. Separately, Chevron submitted their Revised CAP Addendum dated April 18, 2011 which addressed groundwater impacts. That plan was approved by DEH on October 5, 2011 and was handled under case number H12456-003. Soil sample data previously collected by Chevron indicated that gasoline

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

contaminated soil was present in the vicinity of the former northern dispenser islands, in the vicinity of the southwestern dispenser island and the product piping lines that connected the two islands. Soil at the northern dispenser islands was impacted from near the surface to a depth of 25 feet and at the southwestern islands from the near surface to a depth of 10 feet. Chevrons consultant had estimated the total volume of contaminated soil at the site was 748 cubic yards. Remedial soil excavation at the site took place between August 18, 2011 and September 26, 2011. A total of 3,857 tons of contaminated soil were excavated. A total of 2,550 tons were treated and recycled by Soil Safe of California - TPST in Adelanto and 1,307 tons were disposed at the Otay landfill in Chula Vista. In addition, 18,437 gallons of groundwater were removed during dewatering activities and transported to K-Pure Waterworks facility in Rancho Cucamonga. Additional soil samples were collected by SCS Engineers during the remedial action to characterize the soil. Confirmation soil samples were collected from the sidewalls and bottom of the excavations. The consultant estimated that the amount of contaminated soil remaining on-site after the remedial excavation is approximately 443 cubic yards with approximately 192 cubic yards located in area 1 and 251 cubic yards located in area 2. Please refer to Figure 4 through 7 in the Corrective Action Report dated January 20, 2012 for the location of the remediation areas and confirmation results. Prior to implementation of remedial excavation, human health risk assessments were conducted by both Chevron and the owner/developers consultant. Both concluded that the benzene concentrations in soil vapor exceeded the DEH excess cancer risk threshold of one-in-one million (1 x 10-6). Following excavation, a soil vapor survey and human health risk assessment was conducted at the site. The estimated excess cancer risk 2 X10-8 and hazard values 4.89 X10-5 were below the DEH threshold values. The consultant concluded that the remediation at the site was successful in eliminating the risks to human health from vapor intrusion. The consultant has recommended no further action for this case and DEH concurs with this recommendation.
Not reported

Click here to access the California GeoTracker records for this facility:

UST:

Facility ID:	H12456
Permitting Agency:	SAN DIEGO COUNTY
Latitude:	32.82049
Longitude:	-117.179996

HMMD SAN DIEGO:

Permit Number:	112456
Business Type:	6HK29
EPA Id Number:	CAL920105585
APN:	419-700-18-00
Last HMMD Inspection:	01/13/2003
Facility Telephone:	858-279-1010
Permit Status:	INAC
Permit Expiration:	01/31/2005
Date Last Updated:	11/02/2012
Facility Owner:	DON HOLMBERG
Facility Mailing Address:	PO BOX 6004

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Facility Mailing City: SAN RAMON
Facility Mailing State: CA
Facility Mailing Zip: 94583-
UST Owner: CHEVRON USA INC
Handle Regulated Hazmat: Y
Own Or Operate UST: Y
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Violations Inactive Permits:
Permit Number: 112456
Update Date: 11/02/2012
Inspection Date: 01/13/2003
Violation Code: 6HV3109
Violation: NO SCALED PLOT PLAN AVAIL/TO HMD
Violation Citation: Scaled Plot plan showing tank, piping & equipment location not available/complete/submitted to HMD. 2711(a)(8), 2632(d)(1) (C)
Activity: Inactive Permit

Permit Number: 112456
Update Date: 11/02/2012
Inspection Date: 01/13/2003
Violation Code: 6HV3257
Violation: 2NDRY CONTAINMENT NOT LIQUID FREE
Violation Citation: Secondary containment system components not liquid free. 2631(d)(4)
Activity: Inactive Permit

Permit Number: 112456
Update Date: 11/02/2012
Inspection Date: 01/13/2003
Violation Code: 6HV3263
Violation: MONITOR SYSTEM NOT ALL FUNCTIONAL
Violation Citation: Monitoring system components &/or devices are not all functional. 2630, 2641(j), 2632
Activity: Inactive Permit

UST:
UST Name: UNDERGROUND TANK 112456 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 112456
Tank Type: SINGLE WALL
Additional Id: 1
Capacity Gallons: 10000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 1993-09-28 00:00:00
Year Installed: 1968-01-01 00:00:00
Pipe Type: LINED TRENCH
Delivery System: PRESSURE
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 112456 T002

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Last Update:	2012-11-02 14:17:38
Permit Number:	112456
Tank Type:	SINGLE WALL
Additional Id:	2
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1993-09-28 00:00:00
Year Installed:	1968-01-01 00:00:00
Pipe Type:	LINED TRENCH
Delivery System:	PRESSURE
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR
UST Name:	UNDERGROUND TANK 112456 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	112456
Tank Type:	SINGLE WALL
Additional Id:	3
Capacity Gallons:	5000
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1993-09-28 00:00:00
Year Installed:	1968-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	PRESSURE
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR
UST Name:	UNDERGROUND TANK 112456 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	112456
Tank Type:	SINGLE WALL
Additional Id:	4
Capacity Gallons:	1000
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1988-03-08 00:00:00
Year Installed:	1968-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 112456 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	112456
Tank Type:	DOUBLE WALL
Additional Id:	NT1713 / AT5014
Capacity Gallons:	12000
UST Contents:	REGULAR UNLEADED

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	2004-06-03 00:00:00
Year Installed:	1993-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	20
UST Monitor Method:	DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.
UST Name:	UNDERGROUND TANK 112456 T006
Last Update:	2012-11-02 14:17:38
Permit Number:	112456
Tank Type:	DOUBLE WALL
Additional Id:	NT1713 / AT5014
Capacity Gallons:	12000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	2004-06-03 00:00:00
Year Installed:	1993-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	20
UST Monitor Method:	DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.
UST Name:	UNDERGROUND TANK 112456 T007
Last Update:	2012-11-02 14:17:38
Permit Number:	112456
Tank Type:	DOUBLE WALL
Additional Id:	NT1713 / AT5014
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	REMOVED
Remove Close Date:	2004-06-03 00:00:00
Year Installed:	1993-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	20
UST Monitor Method:	DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.
UST Name:	UNDERGROUND TANK 112456 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	112456
Tank Type:	DOUBLE WALL
Additional Id:	NT1713 / AT5014
Capacity Gallons:	1000
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	2004-06-03 00:00:00
Year Installed:	1993-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Monitor Code: 21
UST Monitor Method: DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL.

SWEEPS UST:
Status: Active
Comp Number: 12456
Number: 9
Board Of Equalization: 44-022575
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-012456-000001
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Status: Active
Comp Number: 12456
Number: 9
Board Of Equalization: 44-022575
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-012456-000002
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 12456
Number: 9
Board Of Equalization: 44-022575
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-012456-000003
Tank Status: A
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Status: Not reported
Comp Number: 12456
Number: Not reported
Board Of Equalization: 44-022575
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-012456-000004
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: PETROLEUM
STG: WASTE
Content: Not reported
Number Of Tanks: 1

RCRA NonGen / NLR:
Date form received by agency: 05/13/2013
Facility name: CHEVRON 90896
Facility address: 5401 BALBOA AVE
SAN DIEGO, CA 92111
EPA ID: CA0000866095
Mailing address: PO BOX 6004
SAN RAMON, CA 94583
Contact: JOCKO RODRIGUEZ
Contact address: PO BOX 6004
SAN RAMON, CA 94583
Contact country: US
Contact telephone: 877-386-6044
Contact email: NAWTDESK@CHEVRON.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: CHEVRON USA
Owner/operator address: PO BOX 6004
SAN RAMON, CA 94583
Owner/operator country: US
Owner/operator telephone: 877-386-6044
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/01/1993
Owner/Op end date: Not reported

Owner/operator name: JOCKO RODRIGUEZ
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/01/1993
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/16/2002
Site name: CHEVRON STATION NO 90896
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 05/27/2000
Site name: CHEVRON STATION NO 90896
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D018
. Waste name: BENZENE

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Date form received by agency: 09/01/1996
Site name: CHEVRON STATION NO 90896
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002620496

Environmental Interest/Information System
HAZARDOUS AIR POLLUTANT MAJOR

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000905571
Registry ID:	110002620496
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002620496

EMI:

Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	4539
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	4539
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	4539
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	4539
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	4539
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	4539
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.9702172
Reactive Organic Gases Tons/Yr:	1.9702172
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2005
County Code:	37
Air Basin:	SD
Facility ID:	4539
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.9702172
Reactive Organic Gases Tons/Yr:	1.9702172
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2006
County Code:	37
Air Basin:	SD
Facility ID:	4539
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.9702172
Reactive Organic Gases Tons/Yr:	1.9702172
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2742

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT936

SAN DIEGO CO LOP:
Record ID: DEH1988-LSAM-H12456-001
Record Status: Completed
Opened Date: 03/25/1988
Parcel Number: 419-700-18-00
Case Type: LOP - Local Oversight Program
Historical Name: CHEVRON # 9-0896
SWRCB Global ID: T0607303172
Funding: S - LOP State Fund
Lead Agency: DEH/SAM
Lead Agency Date: 03/25/1988
Census Tract: 85.09
Community: San Diego
Jurisdiction: SAN DIEGO
Watershed Basin Number: 906.5
Water Purveyor: SAN DIEGO
Fire Agency: SAN DIEGO
Thomas Bros Map Page Grid: 1248 H 3
Latitude: 32.8191406
Longitude: -117.1813448
X MapCoord: 6275530.365
Y MapCoord: 1879112.869

Record ID: DEH1993-LSAM-H12456-003
Record Status: Completed
Opened Date: 09/23/1993
Parcel Number: 419-700-18-00
Case Type: LOP - Local Oversight Program
Historical Name: CHEVRON #9-0896
SWRCB Global ID: T0607301497
Funding: S - LOP State Fund
Lead Agency: DEH/SAM
Lead Agency Date: 10/05/1993
Census Tract: 85.09
Community: San Diego
Jurisdiction: SAN DIEGO
Watershed Basin Number: 906.5
Water Purveyor: SAN DIEGO
Fire Agency: SAN DIEGO
Thomas Bros Map Page Grid: 1248 H 3
Latitude: 32.8191406
Longitude: -117.1813448
X MapCoord: 6275530.365
Y MapCoord: 1879112.869

Record ID: DEH1990-LSAM-H12456-002
Record Status: Completed
Opened Date: 03/23/1990
Parcel Number: 419-700-18-00
Case Type: Not reported
Historical Name: CHEVRON
SWRCB Global ID: T0608136465

CHEVRON / BALBOA AVENUE (Continued) **1000905571**

Funding:	N - Non-Billable
Lead Agency:	DEH/SAM
Lead Agency Date:	04/12/1990
Census Tract:	85.09
Community:	San Diego
Jurisdiction:	SAN DIEGO
Watershed Basin Number:	906.5
Water Purveyor:	SAN DIEGO
Fire Agency:	SAN DIEGO
Thomas Bros Map Page Grid:	1248 H 3
Latitude:	32.8191406
Longitude:	-117.1813448
X MapCoord:	6275530.365
Y MapCoord:	1879112.869

D29 **CHEVRON SERVICE STATION** **LUST S100232691**
ESE **5401 BALBOA AVE** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.093 mi.
489 ft. **Site 5 of 7 in cluster D**

Relative: **Higher**

Actual: **370 ft.**

LUST REG 9:

Region:	9
Status:	Preliminary site assessment underway
Case Number:	9UT936
Local Case:	H12456-001
Substance:	Waste Oil
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency:	San Diego
How Found:	Tank Test
How Stopped:	Close Tank
Source:	Tank
Cause:	Corrosion
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	04/01/1988
Date Stopped:	08/03/1988
Confirm Date:	03/25/1988
Submit Workplan:	Not reported
Prelim Assess:	04/01/1988
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	04/01/1988
Enforce Date:	3/25/88
Closed Date:	Not reported
Enforce Type:	SEL
Pilot Program:	LOP
Basin Number:	906.50
GW Depth:	Not reported
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	3A
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes

CHEVRON SERVICE STATION (Continued) **S100232691**

Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

D30 **DONCON INC** **EDR Hist Auto** **1008997138**
ESE **5401 BALBOA AVE** **N/A**
< 1/8 **SAN DIEGO, CA 92111**
0.093 mi.
489 ft. **Site 6 of 7 in cluster D**

Relative: EDR Hist Auto
Higher

Actual:
370 ft.

Year:	Name:	Type:
1970	RECTDR S DEL CHEVRON STATION	GASOLINE STATIONS
1971	RECTOR DELBERT W	Gasoline Service Stations
1972	RECTOR DELBERT W	Gasoline Service Stations
1973	RECTOR DELBERT W	Gasoline Service Stations
1975	HOLMBERG S DON CHEVRON SERVICE	GASOLINE STATIONS
1980	HOLMBERG S DON CHEVRON SERVICE	GASOLINE STATIONS
1984	HOLMBERG S DON CHEVRON SERVICE	GASOLINE STATIONS
1985	HOLMBERG DON CHEVRON	Gasoline Service Stations
1986	HOLMBERG DON CHEVRON	Gasoline Service Stations
1987	HOLMBERG DON CHEVRON	Gasoline Service Stations
1988	HOLMBERG DON CHEVRON	Gasoline Service Stations
1989	HOLMBERG DON CHEVRON	Gasoline Service Stations
1990	HOLMBERG DON CHEVRON	Gasoline Service Stations
1991	HOLMBERG DON CHEVRON	Gasoline Service Stations
1992	DONCON I	Gasoline Service Stations
1993	DONCON INC	Gasoline Service Stations
1994	DONCON INC	Gasoline Service Stations
1995	DONCON INC	Gasoline Service Stations
1996	DONCON INC	Gasoline Service Stations
1997	DONCON INC	Gasoline Service Stations
1998	DONCON INC	Gasoline Service Stations
1999	DONCON INC	Gasoline Service Stations
2000	DONCON INC	Gasoline Service Stations
2001	DONCON INC	Gasoline Service Stations
2002	DONCON INC	Gasoline Service Stations
2003	DONCON INC	Gasoline Service Stations

D31 **CHEVRON #9-0896** **LUST** **S101308183**
ESE **5401 BALBOA AVE** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.093 mi.
489 ft. **Site 7 of 7 in cluster D**

Relative: LUST REG 9:
Higher

Actual:
370 ft.

Region:	9
Status:	Preliminary site assessment workplan submitted
Case Number:	9UT2742
Local Case:	H12456-003
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank

CHEVRON #9-0896 (Continued) **S101308183**

Source:	Tank
Cause:	Other Cause
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	09/23/1993
Date Stopped:	09/23/1993
Confirm Date:	10/05/1993
Submit Workplan:	5/9/94
Prelim Assess:	/ /
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	05/05/1994
Enforce Date:	Not reported
Closed Date:	Not reported
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	906.50
GW Depth:	Not reported
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	3A
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Not reported
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

E32 **VALVOLINE INSTANT OIL CHANGE GN0092** **AST** **S104750674**
North **4365 GENESEE AVE** **San Diego Co. HMMD** **N/A**
< 1/8 **SAN DIEGO, CA 92117** **HAZNET**
0.095 mi.
501 ft. **Site 6 of 7 in cluster E**

Relative: **Higher**

Actual: **370 ft.**

AST:

Certified Unified Program Agencies:	San Diego
Owner:	EZ LUBE, INC
Total Gallons:	3400
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

Certified Unified Program Agencies:	Not reported
Owner:	Henley Pacific LA LLC
Total Gallons:	Not reported
CERSID:	10160757
Facility ID:	37-000-216453
Business Name:	Henley Pacific LA LLC dba Valvoline Instant Oil
Phone:	858-268-0222
Fax:	Not reported
Mailing Address:	17802 Sky Park Circle Ste 104
Mailing Address City:	Irvine
Mailing Address State:	CA
Mailing Address Zip Code:	Not reported
Operator Name:	Henley Pacific LA LLC
Operator Phone:	617-243-0404
Owner Phone:	617-243-0404
Owner Mail Address:	54 Jaconnet St Ste100
Owner State:	MA
Owner Zip Code:	2461
Owner Country:	United States
Property Owner Name:	T G F CO
Property Owner Phone:	858-495-4912
Property Owner Mailing Address:	8095 OTHELLO AVE
Property Owner City:	SAN DIEGO
Property Owner Stat :	CA
Property Owner Zip Code:	92111
Property Owner Country:	United States
EPAID:	CAL000370651

HMMD SAN DIEGO:

Permit Number:	Not reported
Business Type:	Not reported
EPA Id Number:	CAL000370651
APN:	Not reported
Last HMMD Inspection:	Not reported
Facility Telephone:	858-268-0222
Permit Status:	Permit Renewed
Permit Expiration:	Not reported
Date Last Updated:	04/11/2018
Facility Owner:	Not reported
Facility Mailing Address:	17802 Sky Park Circle Ste 104, Irvine, CA 92614-6405
Facility Mailing City:	Not reported
Facility Mailing State:	Not reported
Facility Mailing Zip:	Not reported
UST Owner:	N
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

Inspection Violation:

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-216453
Program Element:	Hazardous Waste Generator
Inspection Type:	Routine
Inspection Number:	4092856
Return To Compliance Date:	2015-05-21T00:00:00.000
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2018-09-15T00:00:00.000
Inspection Date:	2015-04-28T00:00:00.000
Violation Code:	3010025 Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer stating the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed and that the tank system has sufficient structural strength, compatibility with the waste(s) to be transferred, stored or treated, and corrosion protection so that it will not collapse, rupture, or fail. This assessment shall be obtained prior to placing the tank system in service, and shall be kept on file at the facility. The tank assessment shall be good for five years. This assessment shall also include, at a minimum, the following information: 22 CCR 15 66265.192(a), 66265.192(h).

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-216453
Program Element:	Hazardous Materials Release Response Plans
Inspection Type:	Routine
Inspection Number:	5651132
Return To Compliance Date:	2018-02-27T00:00:00.000
Nov:	No
Violation Classification:	Minor
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2018-09-15T00:00:00.000
Inspection Date:	2017-05-09T17:17:00.000
Violation Code:	1020002 Initial and/or annual employee training not conducted for hazardous materials management and/or employee training records not available or not maintained for 3 years. HSC 25505(a)(4)

Waste and Materials:

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2018-HCHEM-0178169
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2018-09-15T02:31:26.000
Chemical Name:	Motor Oil

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Common Name: Motor Oil
Case Number: Not reported

Record ID: DEH2012-HUPFP-216453
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0178170
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2018-09-15T02:31:26.000
Chemical Name: Ethylene Glycol
Common Name: Antifreeze
Case Number: Not reported

Record ID: DEH2012-HUPFP-216453
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HCHEM-0178171
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2018-09-15T02:31:26.000
Chemical Name: Not reported
Common Name: Automatic Transmission Fluid
Case Number: Not reported

Record ID: DEH2012-HUPFP-216453
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0152673
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-09-15T02:31:26.000
Chemical Name: Waste Motor Oil
Common Name: Waste Motor Oil
Case Number: Not reported

Record ID: DEH2012-HUPFP-216453
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2018-HWAST-0152674
Trade Secret: N
Hazardous Material Type: Not reported
Last Updated: 2018-09-15T02:31:26.000
Chemical Name: Ethylene Glycol
Common Name: Waste Antifreeze
Case Number: Not reported

Record ID: DEH2012-HUPFP-216453
Permit Status: Permit Renewed
Active Permit: Y
Child Record Id: DEH2016-HCHEM-0096453
Trade Secret: N
Hazardous Material Type: Mixture
Last Updated: 2016-09-28T02:32:08.000
Chemical Name: Motor Oil
Common Name: Motor Oil
Case Number: Not reported

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0096454
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-09-28T02:32:08.000
Chemical Name:	Ethylene Glycol
Common Name:	Antifreeze
Case Number:	Not reported

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0096455
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2016-09-28T02:32:08.000
Chemical Name:	Not reported
Common Name:	Automatic Transmission Fluid
Case Number:	Not reported

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HWAST-0078626
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2016-09-28T02:32:08.000
Chemical Name:	Waste Motor Oil
Common Name:	Waste Motor Oil
Case Number:	Not reported

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HWAST-0078627
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2016-09-28T02:32:08.000
Chemical Name:	Ethylene Glycol
Common Name:	Waste Antifreeze
Case Number:	Not reported

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2017-HCHEM-0140832
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2017-09-15T02:31:01.000
Chemical Name:	Motor Oil
Common Name:	Motor Oil
Case Number:	Not reported

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Active Permit:	Y
Child Record Id:	DEH2017-HCHEM-0140833
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2017-09-15T02:31:01.000
Chemical Name:	Ethylene Glycol
Common Name:	Antifreeze
Case Number:	Not reported

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2017-HCHEM-0140834
Trade Secret:	N
Hazardous Material Type:	Mixture
Last Updated:	2017-09-15T02:31:01.000
Chemical Name:	Not reported
Common Name:	Automatic Transmission Fluid
Case Number:	Not reported

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2017-HWAST-0119399
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2017-09-15T02:31:01.000
Chemical Name:	Waste Motor Oil
Common Name:	Waste Motor Oil
Case Number:	Not reported

Record ID:	DEH2012-HUPFP-216453
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2017-HWAST-0119400
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2017-09-15T02:31:01.000
Chemical Name:	Ethylene Glycol
Common Name:	Waste Antifreeze
Case Number:	Not reported

Permit Number:	216453
Business Type:	6HK26
EPA Id Number:	CAL000370651
APN:	361-261-34-00
Last HMMD Inspection:	06/18/2012
Facility Telephone:	858-268-0222
Permit Status:	OPEN
Permit Expiration:	10/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	HENLEY PACIFIC LA LLC
Facility Mailing Address:	54 JACONNET ST #100
Facility Mailing City:	NEWTON HIGHLANDS
Facility Mailing State:	MA
Facility Mailing Zip:	02461

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

UST Owner: Not reported
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 216453
Update Date: 11/02/2012
Case Number: Not reported
Name: ANTIFREEZE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Permit Number: 216453
Update Date: 11/02/2012
Case Number: 8002-05-9
Name: OILS, LUBRICATING
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CHRONIC

Permit Number: 216453
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: USED OIL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 216453
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: ANTIFREEZE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 216453
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 444 USED BATTERIES
Other Information: LEAD ACID BATTERIES
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 216453
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Other Information:	DRAINED OIL FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	216453
Update Date:	11/02/2012
Inspection Date:	06/18/2012
Violation Code:	6HV1012
Violation:	SPCC PLAN NOT PREPARED
Violation Citation:	Spill Prevention Countermeasures & Control Plan not prepared as required. 25270.5 (c)
Activity:	ACTIVE

Permit Number:	216453
Update Date:	11/02/2012
Inspection Date:	06/18/2012
Violation Code:	6HV0215
Violation:	OIL FILTERS IMPROPERLY MANAGED
Violation Citation:	Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity:	ACTIVE

Permit Number:	216453
Business Type:	6HK26
EPA Id Number:	CAL000370651
APN:	361-261-34-00
Last HMMD Inspection:	06/18/2012
Facility Telephone:	858-268-0222
Permit Status:	OPEN
Permit Expiration:	10/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	HENLEY PACIFIC LA LLC
Facility Mailing Address:	54 JACONNET ST #100
Facility Mailing City:	NEWTON HIGHLANDS
Facility Mailing State:	MA
Facility Mailing Zip:	02461
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	ANTIFREEZE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	OILS, LUBRICATING
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	CHRONIC

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	USED OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information:	ANTIFREEZE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 444 USED BATTERIES
Other Information:	LEAD ACID BATTERIES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 888 USED OIL FILTERS
Other Information:	DRAINED OIL FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	216453
Update Date:	11/02/2012
Inspection Date:	06/18/2012
Violation Code:	6HV1012
Violation:	SPCC PLAN NOT PREPARED
Violation Citation:	Spill Prevention Countermeasures & Control Plan not prepared as required. 25270.5 (c)
Activity:	ACTIVE

Permit Number:	216453
Update Date:	11/02/2012

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Inspection Date:	06/18/2012
Violation Code:	6HV0215
Violation:	OIL FILTERS IMPROPERLY MANAGED
Violation Citation:	Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity:	ACTIVE

Permit Number:	216453
Business Type:	6HK26
EPA Id Number:	CAL000370651
APN:	361-261-34-00
Last HMMD Inspection:	06/18/2012
Facility Telephone:	858-268-0222
Permit Status:	OPEN
Permit Expiration:	10/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	HENLEY PACIFIC LA LLC
Facility Mailing Address:	54 JACONNET ST #100
Facility Mailing City:	NEWTON HIGHLANDS
Facility Mailing State:	MA
Facility Mailing Zip:	02461
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	ANTIFREEZE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	OILS, LUBRICATING
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	CHRONIC

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	USED OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information:	ANTIFREEZE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 444 USED BATTERIES
Other Information:	LEAD ACID BATTERIES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 888 USED OIL FILTERS
Other Information:	DRAINED OIL FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	216453
Update Date:	11/02/2012
Inspection Date:	06/18/2012
Violation Code:	6HV1012
Violation:	SPCC PLAN NOT PREPARED
Violation Citation:	Spill Prevention Countermeasures & Control Plan not prepared as required. 25270.5 (c)
Activity:	ACTIVE

Permit Number:	216453
Update Date:	11/02/2012
Inspection Date:	06/18/2012
Violation Code:	6HV0215
Violation:	OIL FILTERS IMPROPERLY MANAGED
Violation Citation:	Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity:	ACTIVE

Permit Number:	203441
Business Type:	6HK26
EPA Id Number:	CAL000279220
APN:	361-261-34-00
Last HMMD Inspection:	09/08/2011
Facility Telephone:	858-268-0222
Permit Status:	INAC
Permit Expiration:	09/30/2012
Date Last Updated:	11/02/2012
Facility Owner:	EZ LUBE, INC

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Facility Mailing Address:	3540 HOWARD WY #200
Facility Mailing City:	COSTA MESA
Facility Mailing State:	CA
Facility Mailing Zip:	92626
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Violations Inactive Permits:

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0131
Violation:	UPF Permit NOT OBTAINED for HAZWASTE
Violation Citation:	A Unified Program Facility permit has not been obtained for the generation of hazardous waste. 68.905
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0216
Violation:	HAZMATS WITHOUT PROPER LABELS
Violation Citation:	Hazardous materials have not been adequately labeled within 10 days & are now declared hazardous waste. HSC 25124(b)(3)(A) & 66262.34(f)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV1002
Violation:	HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation:	Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0215
Violation:	OIL FILTERS IMPROPERLY MANAGED
Violation Citation:	Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity:	Inactive Permit

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	11/02/2007
Violation Code:	6HV1601
Violation:	HAZWASTE TANKS W/O P.E. ASSESSMENT
Violation Citation:	Failed to obtain a P.E. assessment for hazardous waste tank system. 66265.191(a) or 66265.192(a)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	10/13/2009
Violation Code:	6HV0216
Violation:	HAZMATS WITHOUT PROPER LABELS
Violation Citation:	Hazardous materials have not been adequately labeled within 10 days & are now declared hazardous waste. HSC 25124(b)(3)(A) & 66262.34(f)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	10/13/2009
Violation Code:	6HV0218
Violation:	FILTERS:FUEL/OIL NOT LABELED OR CLOSED
Violation Citation:	Failed to label &/or close drained used oil filters &/or used fuel filters. 25250.22 and 66266.130(c)(3)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	09/08/2011
Violation Code:	6HV1605
Violation:	NO DAILY TANK INSPECTION/LOG
Violation Citation:	Failed to inspect and/or document daily HW tank system inspections. 66265.195 (c)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	09/08/2011
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	Inactive Permit

Permit Number:	203441
Business Type:	6HK26
EPA Id Number:	CAL000279220
APN:	361-261-34-00
Last HMMD Inspection:	09/08/2011
Facility Telephone:	858-268-0222
Permit Status:	INAC
Permit Expiration:	09/30/2012
Date Last Updated:	11/02/2012
Facility Owner:	EZ LUBE, INC

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Facility Mailing Address:	3540 HOWARD WY #200
Facility Mailing City:	COSTA MESA
Facility Mailing State:	CA
Facility Mailing Zip:	92626
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Violations Inactive Permits:

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0131
Violation:	UPF Permit NOT OBTAINED for HAZWASTE
Violation Citation:	A Unified Program Facility permit has not been obtained for the generation of hazardous waste. 68.905
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0216
Violation:	HAZMATS WITHOUT PROPER LABELS
Violation Citation:	Hazardous materials have not been adequately labeled within 10 days & are now declared hazardous waste. HSC 25124(b)(3)(A) & 66262.34(f)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV1002
Violation:	HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation:	Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0215
Violation:	OIL FILTERS IMPROPERLY MANAGED
Violation Citation:	Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity:	Inactive Permit

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	11/02/2007
Violation Code:	6HV1601
Violation:	HAZWASTE TANKS W/O P.E. ASSESSMENT
Violation Citation:	Failed to obtain a P.E. assessment for hazardous waste tank system. 66265.191(a) or 66265.192(a)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	10/13/2009
Violation Code:	6HV0216
Violation:	HAZMATS WITHOUT PROPER LABELS
Violation Citation:	Hazardous materials have not been adequately labeled within 10 days & are now declared hazardous waste. HSC 25124(b)(3)(A) & 66262.34(f)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	10/13/2009
Violation Code:	6HV0218
Violation:	FILTERS:FUEL/OIL NOT LABELED OR CLOSED
Violation Citation:	Failed to label &/or close drained used oil filters &/or used fuel filters. 25250.22 and 66266.130(c)(3)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	09/08/2011
Violation Code:	6HV1605
Violation:	NO DAILY TANK INSPECTION/LOG
Violation Citation:	Failed to inspect and/or document daily HW tank system inspections. 66265.195 (c)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	09/08/2011
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	Inactive Permit

Permit Number:	203441
Business Type:	6HK26
EPA Id Number:	CAL000279220
APN:	361-261-34-00
Last HMMD Inspection:	09/08/2011
Facility Telephone:	858-268-0222
Permit Status:	INAC
Permit Expiration:	09/30/2012
Date Last Updated:	11/02/2012
Facility Owner:	EZ LUBE, INC

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Facility Mailing Address:	3540 HOWARD WY #200
Facility Mailing City:	COSTA MESA
Facility Mailing State:	CA
Facility Mailing Zip:	92626
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Violations Inactive Permits:

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0131
Violation:	UPF Permit NOT OBTAINED for HAZWASTE
Violation Citation:	A Unified Program Facility permit has not been obtained for the generation of hazardous waste. 68.905
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0216
Violation:	HAZMATS WITHOUT PROPER LABELS
Violation Citation:	Hazardous materials have not been adequately labeled within 10 days & are now declared hazardous waste. HSC 25124(b)(3)(A) & 66262.34(f)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV1002
Violation:	HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation:	Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	04/29/2004
Violation Code:	6HV0215
Violation:	OIL FILTERS IMPROPERLY MANAGED
Violation Citation:	Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity:	Inactive Permit

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	11/02/2007
Violation Code:	6HV1601
Violation:	HAZWASTE TANKS W/O P.E. ASSESSMENT
Violation Citation:	Failed to obtain a P.E. assessment for hazardous waste tank system. 66265.191(a) or 66265.192(a)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	10/13/2009
Violation Code:	6HV0216
Violation:	HAZMATS WITHOUT PROPER LABELS
Violation Citation:	Hazardous materials have not been adequately labeled within 10 days & are now declared hazardous waste. HSC 25124(b)(3)(A) & 66262.34(f)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	10/13/2009
Violation Code:	6HV0218
Violation:	FILTERS:FUEL/OIL NOT LABELED OR CLOSED
Violation Citation:	Failed to label &/or close drained used oil filters &/or used fuel filters. 25250.22 and 66266.130(c)(3)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	09/08/2011
Violation Code:	6HV1605
Violation:	NO DAILY TANK INSPECTION/LOG
Violation Citation:	Failed to inspect and/or document daily HW tank system inspections. 66265.195 (c)
Activity:	Inactive Permit

Permit Number:	203441
Update Date:	11/02/2012
Inspection Date:	09/08/2011
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	Inactive Permit

Permit Number:	216453
Business Type:	6HK26
EPA Id Number:	CAL000370651
APN:	361-261-34-00
Last HMMD Inspection:	06/18/2012
Facility Telephone:	858-268-0222
Permit Status:	OPEN
Permit Expiration:	10/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	HENLEY PACIFIC LA LLC

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Facility Mailing Address:	54 JACONNET ST #100
Facility Mailing City:	NEWTON HIGHLANDS
Facility Mailing State:	MA
Facility Mailing Zip:	02461
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	ANTIFREEZE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	OILS, LUBRICATING
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	CHRONIC

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	USED OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information:	ANTIFREEZE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 444 USED BATTERIES
Other Information:	LEAD ACID BATTERIES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Permit Number:	216453
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 888 USED OIL FILTERS
Other Information:	DRAINED OIL FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	216453
Update Date:	11/02/2012
Inspection Date:	06/18/2012
Violation Code:	6HV1012
Violation:	SPCC PLAN NOT PREPARED
Violation Citation:	Spill Prevention Countermeasures & Control Plan not prepared as required. 25270.5 (c)
Activity:	ACTIVE

Permit Number:	216453
Update Date:	11/02/2012
Inspection Date:	06/18/2012
Violation Code:	6HV0215
Violation:	OIL FILTERS IMPROPERLY MANAGED
Violation Citation:	Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity:	ACTIVE

Permit Number:	125220
Business Type:	6HK26
EPA Id Number:	CAL000106173
APN:	361-261-34-00
Last HMMD Inspection:	03/20/2003
Facility Telephone:	858-268-0222
Permit Status:	CHNG
Permit Expiration:	05/31/2004
Date Last Updated:	11/02/2012
Facility Owner:	HAL TUCKER
Facility Mailing Address:	23718 FAMBROUGH ST
Facility Mailing City:	NEWHALL
Facility Mailing State:	CA
Facility Mailing Zip:	91321-3436
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

HAZNET:

Facility Name:	VALVOLINE INSTANT OIL CHANGE GN0092
envid:	S104750674
Year:	2017
GEPAID:	CAL000370651

VALVOLINE INSTANT OIL CHANGE GN0092 (Continued) **S104750674**

Contact:	JOSE HERRERA
Telephone:	9494741300
Mailing Name:	Not reported
Mailing Address:	17802 SKY PARK CIRCLE STE 104
Mailing City,St,Zip:	IRVINE, CA 926140000
Gen County:	San Diego
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.85
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	San Diego

envid:	S104750674
Year:	2016
GEPAID:	CAL000370651
Contact:	JOSE HERRERA
Telephone:	9494741300
Mailing Name:	Not reported
Mailing Address:	54 JACONNET ST STE 100
Mailing City,St,Zip:	NEWTON HIGHLANDS, MA 024611956
Gen County:	San Diego
TSD EPA ID:	AZR000515924
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.45
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

envid:	S104750674
Year:	2013
GEPAID:	CAL000370651
Contact:	Jose Herrera
Telephone:	9494741300
Mailing Name:	Not reported
Mailing Address:	54 JACONNET ST
Mailing City,St,Zip:	NEWTON HIGHLANDS, MA 024610000
Gen County:	San Diego
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	8.34
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

E33 **THRIFTY OIL CO** **EDR Hist Auto** **1008999496**
North **4386 GENESEE AVE** **N/A**
< 1/8 **SAN DIEGO, CA**
0.111 mi.
587 ft. **Site 7 of 7 in cluster E**

Relative: EDR Hist Auto
Higher

Actual: Year: Name: Type:
369 ft. 1975 THRIFTY OIL CO GASOLINE STATIONS

F34 **TGF COMPANY** **LUST** **S108407271**
North **4385 GENESEE AV** **SAN DIEGO CO. SAM** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.123 mi.
650 ft. **Site 1 of 3 in cluster F**

Relative: LUST:
Higher

Actual:
366 ft.

Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607300802
Global Id:	T0607300802
Latitude:	32.822918
Longitude:	-117.183474
Status:	Completed - Case Closed
Status Date:	08/13/1992
Case Worker:	Not reported
RB Case Number:	9UT2026
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	H31396-001
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607300802
Action Type:	Other
Date:	04/11/1991
Action:	Leak Reported
Global Id:	T0607300802
Action Type:	ENFORCEMENT
Date:	07/09/1992
Action:	Closure/No Further Action Letter
Global Id:	T0607300802
Action Type:	Other
Date:	08/17/1990
Action:	Leak Began
Global Id:	T0607300802
Action Type:	Other
Date:	08/17/1990
Action:	Leak Discovery
Global Id:	T0607300802
Action Type:	ENFORCEMENT
Date:	05/02/1991
Action:	Notice of Responsibility

TGF COMPANY (Continued) **S108407271**

Global Id: T0607300802
Action Type: Other
Date: 08/17/1990
Action: Leak Stopped

LUST:
Global Id: T0607300802
Status: Completed - Case Closed
Status Date: 08/13/1992

Global Id: T0607300802
Status: Open - Case Begin Date
Status Date: 08/17/1990

SAN DIEGO CO. SAM:
Case Number: H31396-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 8/13/1992
Date Began: 8/17/1990

F35 **FORMER THRIFTY STATION** **LUST** **S102430370**
North **4385 GENESSEE AVE** **HIST CORTESE** **N/A**
< 1/8 **SAN DIEGO, CA 92117**
0.123 mi.
650 ft. **Site 2 of 3 in cluster F**

Relative: **Higher**

Actual: **366 ft.**

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT2026
Local Case: H31396-001
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency: San Diego
How Found: Other Means
How Stopped: Other Means
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 04/11/1991
Date Stopped: 04/11/1991
Confirm Date: 08/17/1990
Submit Workplan: 5/2/91
Prelim Assess: / /
Desc Pollution: 5/7/92
Remed Plan: / /
Remed Action: 5/7/92
Began Monitor: Not reported
Release Date: 04/11/1991
Enforce Date: Not reported

FORMER THRIFTY STATION (Continued) **S102430370**

Closed Date: 7/9/92
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 906.50
GW Depth: Not reported
Beneficial Use: Not reported
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2026

G36 **THE HOME DEPOT STORE #0680** **RCRA-SQG** **1000196416**
NE **4255 GENESEE AVENUE** **FINDS** **CAD981966989**
1/8-1/4 **SAN DIEGO, CA 92117**
0.132 mi.
695 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
370 ft.

RCRA-SQG:
Date form received by agency: 06/29/2005
Facility name: HOME DEPOT USA HD 0680
Facility address: 4255 GENESEE
SAN DIEGO, CA 92117
EPA ID: CAD981966989
Mailing address: 1905 ASTON AVE
SUITE 100
SAN DIEGO, CA 92008
Contact: ROBERT PERKINS
Contact address: 1905 ASTON AVE SUITE 100
SAN DIEGO, CA 92008
Contact country: US
Contact telephone: 760-602-8700
Contact email: RPERKINS@3ECOMPANY.COM
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: HOME DEPOT USA
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

THE HOME DEPOT STORE #0680 (Continued) **1000196416**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/30/1986
Owner/Op end date: Not reported

Owner/operator name: HOME DEPOT USA
Owner/operator address: 2455 PACES FERRY RD
ATLANTA, GA 30339
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/30/1986
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D009
. Waste name: MERCURY

. Waste code: D016

THE HOME DEPOT STORE #0680 (Continued) **1000196416**

. Waste name: 2,4-D

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 01/29/1987
Site name: HOME DEPOT #680 THE
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110055691997

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

G37 **THE HOME DEPOT STORE #0680** **CERS HAZ WASTE S121776278**
NE **4255 GENESEE AVENUE** **CERS N/A**
1/8-1/4 **SAN DIEGO, CA 92117**
0.132 mi.
695 ft. **Site 2 of 2 in cluster G**

Relative: CERS HAZ WASTE:
Higher Site ID: 403791
Actual: CERS ID: 10126165
370 ft. CERS Description: Hazardous Waste Generator

THE HOME DEPOT STORE #0680 (Continued) **S121776278**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Irkhin Anastasiya Inspection ID:5610671
Eval Division:	San Diego County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-18-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Schiess Romina Inspection ID:4655206
Eval Division:	San Diego County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-20-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Irkhin Anastasiya Inspection ID:5610671
Eval Division:	San Diego County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-18-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector: Schiess Romina Inspection ID:4655206
Eval Division:	San Diego County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Diego County Env Health
Entity Title:	Not reported
Affiliation Address:	PO Box 129261
Affiliation City:	San Diego
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92112-9261
Affiliation Phone:	(858) 505-6880

Affiliation Type Desc:	Document Preparer
Entity Name:	ARCADIS U.S., Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

THE HOME DEPOT STORE #0680 (Continued) **S121776278**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jan Marnicki, Agent for The Home Depot U.S.A, Inc.
Entity Title:	Regulatory Compliance Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	The Home Depot USA, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	ARCADIS U.S., Inc.
Entity Title:	Not reported
Affiliation Address:	160 Chape Road, Suite 201, C/O Compliance Department
Affiliation City:	Manchester
Affiliation State:	CT
Affiliation Country:	Not reported
Affiliation Zip:	06042
Affiliation Phone:	(860) 645-1084
Affiliation Type Desc:	Legal Owner
Entity Name:	The Home Depot U.S.A., Inc.
Entity Title:	Not reported
Affiliation Address:	2455 Paces Ferry Road, C-19
Affiliation City:	Atlanta
Affiliation State:	GA
Affiliation Country:	United States
Affiliation Zip:	30339
Affiliation Phone:	(770) 433-8211
Affiliation Type Desc:	Operator
Entity Name:	The Home Depot U.S.A., Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(770) 433-8211
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	160 Chape Road, Suite 201, C/O Compliance Department
Affiliation City:	Manchester

THE HOME DEPOT STORE #0680 (Continued) **S121776278**

Affiliation State: CT
Affiliation Country: Not reported
Affiliation Zip: 06042
Affiliation Phone: Not reported

CERS TANKS:
Site ID: 403791
CERS ID: 10126165
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Irkhin Anastasiya Inspection ID:5610671
Eval Division: San Diego County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-18-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Schiess Romina Inspection ID:4655206
Eval Division: San Diego County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-20-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Irkhin Anastasiya Inspection ID:5610671
Eval Division: San Diego County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-18-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Inspector: Schiess Romina Inspection ID:4655206
Eval Division: San Diego County Department of Env Health
Eval Program: HW
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Diego County Env Health
Entity Title: Not reported
Affiliation Address: PO Box 129261
Affiliation City: San Diego
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92112-9261

THE HOME DEPOT STORE #0680 (Continued) **S121776278**

Affiliation Phone:	(858) 505-6880
Affiliation Type Desc:	Document Preparer
Entity Name:	ARCADIS U.S., Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jan Marnicki, Agent for The Home Depot U.S.A, Inc.
Entity Title:	Regulatory Compliance Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	The Home Depot USA, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	ARCADIS U.S., Inc.
Entity Title:	Not reported
Affiliation Address:	160 Chape Road, Suite 201, C/O Compliance Department
Affiliation City:	Manchester
Affiliation State:	CT
Affiliation Country:	Not reported
Affiliation Zip:	06042
Affiliation Phone:	(860) 645-1084
Affiliation Type Desc:	Legal Owner
Entity Name:	The Home Depot U.S.A., Inc.
Entity Title:	Not reported
Affiliation Address:	2455 Paces Ferry Road, C-19
Affiliation City:	Atlanta
Affiliation State:	GA
Affiliation Country:	United States
Affiliation Zip:	30339
Affiliation Phone:	(770) 433-8211
Affiliation Type Desc:	Operator
Entity Name:	The Home Depot U.S.A., Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

THE HOME DEPOT STORE #0680 (Continued) **S121776278**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(770) 433-8211
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	160 Chape Road, Suite 201, C/O Compliance Department
Affiliation City:	Manchester
Affiliation State:	CT
Affiliation Country:	Not reported
Affiliation Zip:	06042
Affiliation Phone:	Not reported

H38 **WALGREENS #12143** **RCRA-CESQG** **1016954506**
East **5504 BALBOA AVE** **CAL000337234**
1/8-1/4 **SAN DIEGO, CA 92111**
0.137 mi.
724 ft. **Site 1 of 4 in cluster H**

Relative: **Higher**

Actual: **373 ft.**

RCRA-CESQG:

Date form received by agency:	04/15/2016
Facility name:	WALGREENS #12143
Facility address:	5504 BALBOA AVE SAN DIEGO, CA 92111
EPA ID:	CAL000337234
Mailing address:	GREY HAWK CT STE 200 CARLSBAD, CA 92010
Contact:	KARINA ROMERO
Contact address:	GREY HAWK CT STE 200 CARLSBAD, CA 92010
Contact country:	US
Contact telephone:	760-602-8700
Contact email:	REGULATORY@3ECOMPANY.COM
EPA Region:	09
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	TGF CO
Owner/operator address:	N CITYFRONT PLAZA DR SUITE 240

WALGREENS #12143 (Continued) **1016954506**

CHICAGO, IL 60611
Owner/operator country: US
Owner/operator telephone: 312-416-9100
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/25/2008
Owner/Op end date: Not reported

Owner/operator name: WALGREEN CO.
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/11/2008
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WALGREENS #12143 (Continued) **1016954506**

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D010
. Waste name: SELENIUM

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS

Historical Generators:
Date form received by agency: 06/09/2014
Site name: WALGREENS #12143
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D024

WALGREENS #12143 (Continued) **1016954506**

. Waste name: M-CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U165
. Waste name: NAPHTHALENE

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 4

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 35

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 9

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 9

Waste code: P001
Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Amount (Lbs): 1

Waste code: P075
Waste name: NICOTINE, & SALTS
Amount (Lbs): 1

WALGREENS #12143 (Continued) **1016954506**

Violation Status: No violations found

H39 **WALGREENS #12143** **RCRA-CESQG** **1017785840**
East **5504 BALBOA AVE** **CAR000253336**
1/8-1/4 **SAN DIEGO, CA 92111**
0.137 mi.
724 ft. **Site 2 of 4 in cluster H**

Relative:
Higher

Actual:
373 ft.

RCRA-CESQG:

Date form received by agency:	04/15/2016
Facility name:	WALGREENS #12143
Facility address:	5504 BALBOA AVE SAN DIEGO, CA 92111
EPA ID:	CAR000253336
Mailing address:	GREYHAWK CT SUITE 200 CARLSBAD, CA 92010
Contact:	KARINA ROMERO
Contact address:	GREYHAWK CT SUITE 200 CARLSBAD, CA 92010
Contact country:	US
Contact telephone:	760-602-8700
Contact email:	REGULATORY@3ECOMPANY.COM
EPA Region:	09
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	TGF CO
Owner/operator address:	N CITYFRONT PLAZA DR SUITE 240 CHICAGO, IL 60611
Owner/operator country:	US
Owner/operator telephone:	312-416-9100
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	08/25/2008
Owner/Op end date:	Not reported
Owner/operator name:	WALGREEN CO.
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported

WALGREENS #12143 (Continued) **1017785840**

Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/11/2008
Owner/Op end date: Not reported

Owner/operator name: TGF CO
Owner/operator address: 455 N CITYFRONT PLAZA DR STE 2400
CHICAGO, IL 60611
Owner/operator country: US
Owner/operator telephone: 312-416-9100
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/25/2008
Owner/Op end date: Not reported

Owner/operator name: WALGREEN CO
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/25/2008
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide,

WALGREENS #12143 (Continued) **1017785840**

bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D010
. Waste name: SELENIUM

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS

Historical Generators:
Date form received by agency: 04/20/2015
Site name: WALGREEN NO 12143
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135

WALGREENS #12143 (Continued) **1017785840**

. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 232
. Waste name: Pesticides and other waste associated with pesticide production

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D007
. Waste name: CHROMIUM

WALGREENS #12143 (Continued) **1017785840**

. Waste code: D009
. Waste name: MERCURY

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 85

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

WALGREENS #12143 (Continued) **1017785840**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 85

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 18

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 18

Waste code: P001
Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Amount (Lbs): 5

Waste code: P075
Waste name: NICOTINE, & SALTS
Amount (Lbs): 15

Violation Status: No violations found

F40 **MR BEST CLEANERS** **RCRA-SQG** **1000163267**
North **4415 GENESEE AVE** **San Diego Co. HMMD** **CAD981618754**
1/8-1/4 **SAN DIEGO, CA 92117** **FINDS**
0.153 mi. **ECHO**
806 ft. **Site 3 of 3 in cluster F** **DRYCLEANERS**
EMI
Relative: **HAZNET**
Higher

Actual: **366 ft.**

RCRA-SQG:
Date form received by agency: 10/27/1993
Facility name: MR BEST CLEANERS
Facility address: 4415 GENESEE AVE
SAN DIEGO, CA 92117
EPA ID: CAD981618754
Contact: BRAD SAUCIER
Contact address: 4415 GENESEE AVE
SAN DIEGO, CA 92117
Contact country: US
Contact telephone: 619-278-1050
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: BRAD SAUCIER
Owner/operator address: 4415 GENESEE AVE
SAN DIEGO, CA 92117
Owner/operator country: Not reported
Owner/operator telephone: 619-278-1056

MR BEST CLEANERS (Continued) **1000163267**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

HMMD SAN DIEGO:
Permit Number: Not reported
Business Type: Not reported
EPA Id Number: CAD981618754
APN: Not reported
Last HMMD Inspection: Not reported
Facility Telephone: 858-278-1050
Permit Status: Permit Renewed
Permit Expiration: Not reported
Date Last Updated: 07/11/2018
Facility Owner: Not reported
Facility Mailing Address: 4415 GENESEE AVE, SAN DIEGO, CA 92117
Facility Mailing City: Not reported
Facility Mailing State: Not reported
Facility Mailing Zip: Not reported
UST Owner: N
Handle Regulated Hazmat: Not reported

MR BEST CLEANERS (Continued) **1000163267**

Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

Inspection Violation:

Record ID:	DEH2006-HUPFP-206592
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-206592
Program Element:	Hazardous Materials Release Response Plans
Inspection Type:	Routine
Inspection Number:	4093728
Return To Compliance Date:	2015-09-30T00:00:00.000
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2018-07-11T00:00:00.000
Inspection Date:	2015-02-11T00:00:00.000
Violation Code:	1010001 Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet; HSC 6.95 25507(a).

Record ID:	DEH2006-HUPFP-206592
Permit Status:	Permit Renewed
Active Permit:	Y
Facility Id Number:	37-000-206592
Program Element:	Hazardous Materials Release Response Plans
Inspection Type:	Routine
Inspection Number:	4093728
Return To Compliance Date:	2015-09-30T00:00:00.000
Nov:	No
Violation Classification:	Class II
Underground Storage Tank Id:	Not reported
Container/Tank Id:	Not reported
Last Update:	2018-07-11T00:00:00.000
Inspection Date:	2015-02-11T00:00:00.000
Violation Code:	1010002 Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet; HSC 6.95 25508(a)1A

Waste and Materials:

Record ID:	DEH2006-HUPFP-206592
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HCHEM-0103799
Trade Secret:	N
Hazardous Material Type:	Pure
Last Updated:	2018-07-11T02:30:41.000
Chemical Name:	SYNTHETIC ALIPHATIC HYDROCARBON
Common Name:	DF-2000 DRY CLEANING FLUID
Case Number:	Not reported

MR BEST CLEANERS (Continued) **1000163267**

Record ID:	DEH2006-HUPFP-206592
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HWAST-0085737
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-07-11T02:30:41.000
Chemical Name:	WASTE 252 STILL BOTTOM WASTE (OTHER)
Common Name:	DF-2000 STILLBOTTOM WASTE
Case Number:	Not reported

Record ID:	DEH2006-HUPFP-206592
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2016-HWAST-0085738
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-07-11T02:30:41.000
Chemical Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Common Name:	DF-2000 CONTAMINATED FILTERS
Case Number:	Not reported

Permit Number:	102833
Business Type:	6HK53
EPA Id Number:	CAD981618754
APN:	361-261-02-00
Last HMMD Inspection:	08/17/2004
Facility Telephone:	858-278-1050
Permit Status:	INAC
Permit Expiration:	11/30/2006
Date Last Updated:	11/02/2012
Facility Owner:	BRAD SAUCIER/JACK RYAN
Facility Mailing Address:	4415 GENESEE AV
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92117-3005
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Violations Inactive Permits:

Permit Number:	102833
Update Date:	11/02/2012
Inspection Date:	03/05/2003
Violation Code:	6HV0138
Violation:	NO TSDF SIGNED MANIFEST ONSITE
Violation Citation:	Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity:	Inactive Permit

Permit Number:	206592

MR BEST CLEANERS (Continued) **1000163267**

Business Type:	6HK53
EPA Id Number:	CAD981618754
APN:	361-261-02-00
Last HMMD Inspection:	08/22/2011
Facility Telephone:	858-278-1050
Permit Status:	OPEN
Permit Expiration:	12/31/2012
Date Last Updated:	11/02/2012
Facility Owner:	GABRIELA OSORIO
Facility Mailing Address:	4415 GENESEE AV
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92117
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	206592
Update Date:	11/02/2012
Case Number:	Not reported
Name:	SYNTHETIC ALIPHATIC HYDROCARBON
Other Information:	DF-2000 DRY CLEANING FLUID
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	206592
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	DF-2000 CONTAMINATED FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	206592
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 252 STILL BOTTOM WASTE (OTHER)
Other Information:	DF-2000 STILLBOTTOM WASTE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	206592
Update Date:	11/02/2012
Inspection Date:	08/22/2011
Violation Code:	6HV1013
Violation:	HMBP NOT AVAILABLE FOR REVIEW
Violation Citation:	Copy of HMBP not onsite for inspector’s review. 25505(e)
Activity:	ACTIVE

MR BEST CLEANERS (Continued) **1000163267**

Permit Number:	206592
Update Date:	11/02/2012
Inspection Date:	08/22/2011
Violation Code:	6HV0138
Violation:	NO TSDF SIGNED MANIFEST ONSITE
Violation Citation:	Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity:	ACTIVE

Permit Number:	206592
Update Date:	11/02/2012
Inspection Date:	12/11/2009
Violation Code:	6HV0138
Violation:	NO TSDF SIGNED MANIFEST ONSITE
Violation Citation:	Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity:	ACTIVE

Permit Number:	206592
Business Type:	6HK53
EPA Id Number:	CAD981618754
APN:	361-261-02-00
Last HMMD Inspection:	08/22/2011
Facility Telephone:	858-278-1050
Permit Status:	OPEN
Permit Expiration:	12/31/2012
Date Last Updated:	11/02/2012
Facility Owner:	GABRIELA OSORIO
Facility Mailing Address:	4415 GENESEE AV
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92117
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	206592
Update Date:	11/02/2012
Case Number:	Not reported
Name:	SYNTHETIC ALIPHATIC HYDROCARBON
Other Information:	DF-2000 DRY CLEANING FLUID
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	206592
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	DF-2000 CONTAMINATED FILTERS

MR BEST CLEANERS (Continued) **1000163267**

Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 206592
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 252 STILL BOTTOM WASTE (OTHER)
Other Information: DF-2000 STILLBOTTOM WASTE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:

Permit Number: 206592
Update Date: 11/02/2012
Inspection Date: 08/22/2011
Violation Code: 6HV1013
Violation: HMBP NOT AVAILABLE FOR REVIEW
Violation Citation: Copy of HMBP not onsite for inspector's review. 25505(e)
Activity: ACTIVE

Permit Number: 206592
Update Date: 11/02/2012
Inspection Date: 08/22/2011
Violation Code: 6HV0138
Violation: NO TSDF SIGNED MANIFEST ONSITE
Violation Citation: Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity: ACTIVE

Permit Number: 206592
Update Date: 11/02/2012
Inspection Date: 12/11/2009
Violation Code: 6HV0138
Violation: NO TSDF SIGNED MANIFEST ONSITE
Violation Citation: Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity: ACTIVE

FINDS:

Registry ID: 110002726024

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

HAZARDOUS AIR POLLUTANT MAJOR

RCRAInfo is a national information system that supports the Resource

MR BEST CLEANERS (Continued) **1000163267**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000163267
Registry ID:	110002726024
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002726024

DRYCLEANERS:

EPA Id:	CAD981618754
NAICS Code:	333312
NAICS Description:	Commercial Laundry, Drycleaning, and Pressing Machine Manufacturing
SIC Code:	3582
SIC Description:	Commercial Laundry, Drycleaning and Pressing Machines
Create Date:	04/10/1987
Facility Active:	No
Inactive Date:	06/30/2017
Facility Addr2:	Not reported
Owner Name:	WAHEED POLES
Owner Address:	4415 GENESEE AVE
Owner Address 2:	Not reported
Owner Telephone:	0000000000
Contact Name:	WAHEED POLES
Contact Address:	4415 GENESEE AVE
Contact Address 2:	Not reported
Contact Telephone:	8582781050
Mailing Name:	Not reported
Mailing Address 1:	4415 GENESEE AVE
Mailing Address 2:	Not reported
Mailing City:	SAN DIEGO
Mailing State:	CA
Mailing Zip:	921173005
Owner Fax:	0000000000
Region Code:	4

EMI:

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0

MR BEST CLEANERS (Continued) **1000163267**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

MR BEST CLEANERS (Continued) **1000163267**

Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.1151
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2005
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2006
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.35
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2007
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216

MR BEST CLEANERS (Continued) **1000163267**

Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.35
Reactive Organic Gases Tons/Yr:	.24451
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2008
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.35
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2009
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.34999999999999998
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2010
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.34999999999999998
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0

MR BEST CLEANERS (Continued) **1000163267**

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2011
County Code: 37
Air Basin: SD
Facility ID: 837
Air District Name: SD
SIC Code: 7216
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.35
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2012
County Code: 37
Air Basin: SD
Facility ID: 837
Air District Name: SD
SIC Code: 7216
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.35
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2013
County Code: 37
Air Basin: SD
Facility ID: 837
Air District Name: SD
SIC Code: 7216
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.35
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2014

MR BEST CLEANERS (Continued) **1000163267**

County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.35
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2015
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.35
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2016
County Code:	37
Air Basin:	SD
Facility ID:	837
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.35
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

HAZNET:

Facility Name:	MR BEST CLEANERS
envid:	1000163267
Year:	2014
GEPAID:	CAD981618754
Contact:	GABRIELA OSORIO OWNER
Telephone:	8582781050

MR BEST CLEANERS (Continued) **1000163267**

Mailing Name:	Not reported
Mailing Address:	4415 GENESEE AVE
Mailing City,St,Zip:	SAN DIEGO, CA 921173005
Gen County:	San Diego
TSD EPA ID:	TXD077603371
TSD County:	99
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

envid:	1000163267
Year:	2012
GEPAID:	CAD981618754
Contact:	GABRIELA OSORIO OWNER
Telephone:	8582781050
Mailing Name:	Not reported
Mailing Address:	4415 GENESEE AVE
Mailing City,St,Zip:	SAN DIEGO, CA 921173005
Gen County:	San Diego
TSD EPA ID:	TXD077603371
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.15
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

envid:	1000163267
Year:	2010
GEPAID:	CAD981618754
Contact:	GABRIELA OSORIO OWNER
Telephone:	8582781050
Mailing Name:	Not reported
Mailing Address:	4415 GENESEE AVE
Mailing City,St,Zip:	SAN DIEGO, CA 921173005
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.145
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

envid:	1000163267
Year:	2009
GEPAID:	CAD981618754
Contact:	GABRIELA OSORIO OWNER
Telephone:	8582781050

MR BEST CLEANERS (Continued) **1000163267**

Mailing Name:	Not reported
Mailing Address:	4415 GENESEE AVE
Mailing City,St,Zip:	SAN DIEGO, CA 921173005
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.125
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

envid:	1000163267
Year:	2008
GEPAID:	CAD981618754
Contact:	GABRIELA OSORIO OWNER
Telephone:	8582781050
Mailing Name:	Not reported
Mailing Address:	4415 GENESEE AVE
Mailing City,St,Zip:	SAN DIEGO, CA 921173005
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.275
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

Click this hyperlink while viewing on your computer to access
16 additional CA_HAZNET: record(s) in the EDR Site Report.

H41
East
1/8-1/4
0.165 mi.
872 ft.

BALBOA CLEANERS
5639 BALBOA AVE
SAN DIEGO, CA 92111

San Diego Co. HMMD **S104757132**
DRYCLEANERS **N/A**
EMI

Site 3 of 4 in cluster H

Relative:
Higher

Actual:
370 ft.

HMMD SAN DIEGO:

Permit Number:	138988
Business Type:	6HK53
EPA Id Number:	CAL000183724
APN:	419-700-44-00
Last HMMD Inspection:	05/11/2010
Facility Telephone:	858-278-1171
Permit Status:	OPEN
Permit Expiration:	10/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	JONG YOUNG KIM
Facility Mailing Address:	5639 BALBOA AV
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92111-
UST Owner:	Not reported

BALBOA CLEANERS (Continued) **S104757132**

Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 138988
Update Date: 11/02/2012
Case Number: 127-18-4
Name: PERCHLOROETHYLENE, TETRACHLOROETHYLENE,
Other Information: CL2CCCL2, 99% PERC DRY CLEANING FL
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Permit Number: 138988
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 251 STILL BOTTOMS W/HALOG ORGANICS
Other Information: STILL BOTTOMS & PERC
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 138988
Update Date: 11/02/2012
Inspection Date: 02/27/2007
Violation Code: 6HV1014
Violation: HMBP INCOMPLETE/NOT AMENDED
Violation Citation: HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity: ACTIVE

Permit Number: 138988
Update Date: 11/02/2012
Inspection Date: 05/18/2005
Violation Code: 6HV0138
Violation: NO TSDF SIGNED MANIFEST ONSITE
Violation Citation: Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity: ACTIVE

Permit Number: 138988
Update Date: 11/02/2012
Inspection Date: 05/18/2005
Violation Code: 6HV0202
Violation: WASTE CONTAINER W/O LABELS
Violation Citation: Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity: ACTIVE

Permit Number: 138988

BALBOA CLEANERS (Continued) **S104757132**

Update Date:	11/02/2012
Inspection Date:	05/18/2005
Violation Code:	6HV1002
Violation:	HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation:	Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity:	ACTIVE

Permit Number:	Not reported
Business Type:	Not reported
EPA Id Number:	CAL000183724
APN:	Not reported
Last HMMD Inspection:	Not reported
Facility Telephone:	8582781171
Permit Status:	Permit Renewed
Permit Expiration:	Not reported
Date Last Updated:	08/02/2017
Facility Owner:	Not reported
Facility Mailing Address:	11106 Pegasus Ave, San Diego, CA 92126
Facility Mailing City:	Not reported
Facility Mailing State:	Not reported
Facility Mailing Zip:	Not reported
UST Owner:	N
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

Waste and Materials:

Record ID:	DEH2002-HUPFP-138988
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2017-HWAST-0114777
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2018-08-24T02:30:30.000
Chemical Name:	Petroleum Naptha dry cleaning chemical
Common Name:	waste dry cleaning hydrocarbon
Case Number:	Not reported

Record ID:	DEH2002-HUPFP-138988
Permit Status:	Permit Renewed
Active Permit:	Y
Child Record Id:	DEH2015-HWAST-0049444
Trade Secret:	N
Hazardous Material Type:	Not reported
Last Updated:	2016-07-22T02:32:54.000
Chemical Name:	Petroleum Naptha dry cleaning chemical
Common Name:	waste dry cleaning hydrocarbon
Case Number:	Not reported

Permit Number:	138988
Business Type:	6HK53
EPA Id Number:	CAL000183724

BALBOA CLEANERS (Continued) **S104757132**

APN:	419-700-44-00
Last HMMD Inspection:	05/11/2010
Facility Telephone:	858-278-1171
Permit Status:	OPEN
Permit Expiration:	10/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	JONG YOUNG KIM
Facility Mailing Address:	5639 BALBOA AV
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92111-
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	138988
Update Date:	11/02/2012
Case Number:	127-18-4
Name:	PERCHLOROETHYLENE, TETRACHLOROETHYLENE,
Other Information:	CL2CCCL2, 99% PERC DRY CLEANING FL
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC

Permit Number:	138988
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 251 STILL BOTTOMS W/HALOG ORGANICS
Other Information:	STILL BOTTOMS & PERC
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	138988
Update Date:	11/02/2012
Inspection Date:	02/27/2007
Violation Code:	6HV1014
Violation:	HMBP INCOMPLETE/NOT AMENDED
Violation Citation:	HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity:	ACTIVE

Permit Number:	138988
Update Date:	11/02/2012
Inspection Date:	05/18/2005
Violation Code:	6HV0138
Violation:	NO TSDF SIGNED MANIFEST ONSITE
Violation Citation:	Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity:	ACTIVE

BALBOA CLEANERS (Continued) **S104757132**

Permit Number:	138988
Update Date:	11/02/2012
Inspection Date:	05/18/2005
Violation Code:	6HV0202
Violation:	WASTE CONTAINER W/O LABELS
Violation Citation:	Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity:	ACTIVE

Permit Number:	138988
Update Date:	11/02/2012
Inspection Date:	05/18/2005
Violation Code:	6HV1002
Violation:	HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation:	Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity:	ACTIVE

Permit Number:	138988
Business Type:	6HK53
EPA Id Number:	CAL000183724
APN:	419-700-44-00
Last HMMD Inspection:	05/11/2010
Facility Telephone:	858-278-1171
Permit Status:	OPEN
Permit Expiration:	10/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	JONG YOUNG KIM
Facility Mailing Address:	5639 BALBOA AV
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92111-
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	138988
Update Date:	11/02/2012
Case Number:	127-18-4
Name:	PERCHLOROETHYLENE, TETRACHLOROETHYLENE,
Other Information:	CL2CCCL2, 99% PERC DRY CLEANING FL
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC

Permit Number:	138988
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 251 STILL BOTTOMS W/HALOG ORGANICS
Other Information:	STILL BOTTOMS & PERC
Material Waste:	Waste

BALBOA CLEANERS (Continued) **S104757132**

Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 138988
Update Date: 11/02/2012
Inspection Date: 02/27/2007
Violation Code: 6HV1014
Violation: HMBP INCOMPLETE/NOT AMENDED
Violation Citation: HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity: ACTIVE

Permit Number: 138988
Update Date: 11/02/2012
Inspection Date: 05/18/2005
Violation Code: 6HV0138
Violation: NO TSDF SIGNED MANIFEST ONSITE
Violation Citation: Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity: ACTIVE

Permit Number: 138988
Update Date: 11/02/2012
Inspection Date: 05/18/2005
Violation Code: 6HV0202
Violation: WASTE CONTAINER W/O LABELS
Violation Citation: Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity: ACTIVE

Permit Number: 138988
Update Date: 11/02/2012
Inspection Date: 05/18/2005
Violation Code: 6HV1002
Violation: HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation: Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity: ACTIVE

DRYCLEANERS:
EPA Id: CAL000183724
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 01/16/2002
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: JUNGMIN YOON
Owner Address: 11106 PEGASUS AVE
Owner Address 2: Not reported

BALBOA CLEANERS (Continued) **S104757132**

Owner Telephone: 8583822890
Contact Name: JUNGMIN YOON
Contact Address: 11106 PEGASUS AVE
Contact Address 2: Not reported
Contact Telephone: 8583822890
Mailing Name: Not reported
Mailing Address 1: 5639 BALBOA AVE
Mailing Address 2: Not reported
Mailing City: SAN DIEGO
Mailing State: CA
Mailing Zip: 921112705
Owner Fax: Not reported
Region Code: 4

EMI:
Year: 1999
County Code: 37
Air Basin: SD
Facility ID: 590
Air District Name: SD
SIC Code: 7216
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2000
County Code: 37
Air Basin: SD
Facility ID: 590
Air District Name: SD
SIC Code: 7216
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2005
County Code: 37
Air Basin: SD
Facility ID: 7146
Air District Name: SD
SIC Code: 7216
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported

BALBOA CLEANERS (Continued) **S104757132**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2006
County Code:	37
Air Basin:	SD
Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.31
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2007
County Code:	37
Air Basin:	SD
Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.31
Reactive Organic Gases Tons/Yr:	.216566
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2008
County Code:	37
Air Basin:	SD
Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.31
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

BALBOA CLEANERS (Continued) **S104757132**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	2009
County Code:	37
Air Basin:	SD
Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.31
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	2010
County Code:	37
Air Basin:	SD
Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.31
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	2011
County Code:	37
Air Basin:	SD
Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.31
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	2012
County Code:	37
Air Basin:	SD

BALBOA CLEANERS (Continued) **S104757132**

Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.31
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2013
County Code:	37
Air Basin:	SD
Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.31
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2014
County Code:	37
Air Basin:	SD
Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.31
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2015
County Code:	37
Air Basin:	SD
Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

BALBOA CLEANERS (Continued) **S104757132**

Total Organic Hydrocarbon Gases Tons/Yr:	0.31
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2016
County Code:	37
Air Basin:	SD
Facility ID:	7146
Air District Name:	SD
SIC Code:	7216
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.31
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

H42 **BALBOA CLEANERS** **RCRA-SQG** **1000163903**
East **5657 BALBOA AVE** **San Diego Co. HMMD** **CAD981617665**
1/8-1/4 **SAN DIEGO, CA 92111** **DRYCLEANERS**
0.165 mi. **HAZNET**
872 ft. **Site 4 of 4 in cluster H**

Relative: **Higher**

Actual: **370 ft.**

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	BALBOA CLEANERS
Facility address:	5657 BALBOA AVE SAN DIEGO, CA 92111
EPA ID:	CAD981617665
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212

BALBOA CLEANERS (Continued) **1000163903**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: STEPHEN KINGREY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 12/08/1986
Site name: BALBOA CLEANERS
Classification: Large Quantity Generator

Violation Status: No violations found

HMMD SAN DIEGO:
Permit Number: 102641
Business Type: 6HK53
EPA Id Number: CAD981617665
APN: 419-700-44-00
Last HMMD Inspection: 07/20/2000
Facility Telephone: 278-1171
Permit Status: INAC
Permit Expiration: 07/20/2000
Date Last Updated: 11/02/2012
Facility Owner: EDWARD S CHEUN
Facility Mailing Address: 5657 BALBOA AV

BALBOA CLEANERS (Continued) **1000163903**

Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92111-2705
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

DRYCLEANERS:

EPA Id:	CAD981617665
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	04/10/1987
Facility Active:	No
Inactive Date:	06/30/2007
Facility Addr2:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner Telephone:	0000000000
Contact Name:	Not reported
Contact Address:	5639 BALBO AVE
Contact Address 2:	Not reported
Contact Telephone:	8582781171
Mailing Name:	Not reported
Mailing Address 1:	5639 BALBO AVE
Mailing Address 2:	Not reported
Mailing City:	SAN DIEGO
Mailing State:	CA
Mailing Zip:	921112705
Owner Fax:	Not reported
Region Code:	4

HAZNET:

Facility Name:	BALBOA CLEANERS
envid:	1000163903
Year:	2005
GEPAID:	CAD981617665
Contact:	--
Telephone:	8582781171
Mailing Name:	Not reported
Mailing Address:	5639 BALBO AVE
Mailing City,St,Zip:	SAN DIEGO, CA 921112705
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Transfer Station
Tons:	0.19
Cat Decode:	Not reported
Method Decode:	Not reported

BALBOA CLEANERS (Continued) **1000163903**

Facility County: San Diego

envid: 1000163903
Year: 2001
GEPAID: CAD981617665
Contact: --
Telephone: 8582781171
Mailing Name: Not reported
Mailing Address: 5639 BALBO AVE
Mailing City,St,Zip: SAN DIEGO, CA 921112705
Gen County: Not reported
TSD EPA ID: CAT000613976
TSD County: Not reported
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: Transfer Station
Tons: 0.19
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Diego

envid: 1000163903
Year: 2000
GEPAID: CAD981617665
Contact: --
Telephone: 8582781171
Mailing Name: Not reported
Mailing Address: 5639 BALBO AVE
Mailing City,St,Zip: SAN DIEGO, CA 921112705
Gen County: Not reported
TSD EPA ID: OHD980587364
TSD County: Not reported
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: Transfer Station
Tons: 0.33
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Diego

envid: 1000163903
Year: 2000
GEPAID: CAD981617665
Contact: --
Telephone: 8582781171
Mailing Name: Not reported
Mailing Address: 5639 BALBO AVE
Mailing City,St,Zip: SAN DIEGO, CA 921112705
Gen County: Not reported
TSD EPA ID: CAD981397417
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Not reported
Tons: 0.2
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Diego

BALBOA CLEANERS (Continued) **1000163903**

envid:	1000163903
Year:	1999
GEPAID:	CAD981617665
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	5657 BALBOA AVE
Mailing City,St,Zip:	SAN DIEGO, CA 921112705
Gen County:	Not reported
TSD EPA ID:	CAD981397417
TSD County:	Not reported
Waste Category:	Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	Not reported
Tons:	.2293
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

Click this hyperlink while viewing on your computer to access
6 additional CA_HAZNET: record(s) in the EDR Site Report.

I43 **EXPRESS GAS** **LUST** **S101301876**
ESE **5454 BALBOA AVE** **SWEEPS UST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92111** **SAN DIEGO CO LOP**
0.184 mi.
970 ft. **Site 1 of 3 in cluster I**

Relative:
Higher

Actual:
367 ft.

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT1574
Local Case:	H21452-001
Substance:	Regular Gasoline
Qty Leaked:	Not reported
Abate Method:	VEED
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	11/06/1989
Date Stopped:	10/17/1989
Confirm Date:	11/15/1989
Submit Workplan:	Not reported
Prelim Assess:	12/13/1989
Desc Pollution:	Not reported
Remed Plan:	03/01/1990
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	11/06/1989
Enforce Date:	11/16/88
Closed Date:	4/8/97
Enforce Type:	SEL
Pilot Program:	LOP
Basin Number:	906.50

EXPRESS GAS (Continued) **S101301876**

GW Depth: 4'
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 21452
Number: 9
Board Of Equalization: 44-022912
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 21452
Number: Not reported
Board Of Equalization: 44-022912
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-021452-000001
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 3

Status: Not reported
Comp Number: 21452
Number: Not reported
Board Of Equalization: 44-022912
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-021452-000002
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL

EXPRESS GAS (Continued) **S101301876**

STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	21452
Number:	Not reported
Board Of Equalization:	44-022912
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-021452-000003
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

SAN DIEGO CO LOP:

Record ID:	DEH1989-LSAM-H21452-001
Record Status:	Completed
Opened Date:	11/06/1989
Parcel Number:	361-261-47-00
Case Type:	LOP - Local Oversight Program
Historical Name:	EXPRESS GAS
SWRCB Global ID:	T0607300394
Funding:	F - LOP Federal Fund
Lead Agency:	DEH/SAM
Lead Agency Date:	11/15/1989
Census Tract:	85.07
Community:	San Diego
Jurisdiction:	SAN DIEGO
Watershed Basin Number:	906.5
Water Purveyor:	SAN DIEGO
Fire Agency:	SAN DIEGO
Thomas Bros Map Page Grid:	1248 H 3
Latitude:	32.8200997
Longitude:	-117.1814108
X MapCoord:	6275513.803
Y MapCoord:	1879523.921

I44 **GENESEE PLAZA** **ENVIROSTOR** **S108936083**
ESE **5500 BALBOA AVE** **N/A**
1/8-1/4 **SAN DIEGO, CA 92111**
0.184 mi.
970 ft. **Site 2 of 3 in cluster I**

Relative:
Higher

Actual:
367 ft.

ENVIROSTOR:

Facility ID:	60000749
Status:	Refer: 1248 Local Agency
Status Date:	05/24/2006
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation

GENESEE PLAZA (Continued) **S108936083**

Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Assembly: Not reported
Senate: Not reported
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 32.81990
Longitude: -117.1814
APN: 361-261-17, 361-261-24, 361-261-33, 361-261-34, 361-261-35
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 361-261-17
Alias Type: APN
Alias Name: 361-261-24
Alias Type: APN
Alias Name: 361-261-33
Alias Type: APN
Alias Name: 361-261-34
Alias Type: APN
Alias Name: 361-261-35
Alias Type: APN
Alias Name: 60000749
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: SB 1248 Notification
Completed Date: 05/24/2006
Comments: DTSC is not involved with this project.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

I45 **EXPRESS GAS** **LUST** **S104745652**
ESE **5454 BALBOA AV** **SAN DIEGO CO. SAM** **N/A**
1/8-1/4 **SAN DIEGO, CA 92111** **CPS-SLIC**
0.184 mi. **San Diego Co. HMMD**
970 ft. **Site 3 of 3 in cluster I** **HIST CORTESE**

Relative: Higher
Actual: 367 ft.

LUST:
Lead Agency: SAN DIEGO COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607300394
Global Id: T0607300394
Latitude: 32.8204964959762
Longitude: -117.179811000824
Status: Completed - Case Closed
Status Date: 04/28/1997
Case Worker: Not reported
RB Case Number: 9UT1574
Local Agency: Not reported
File Location: Local Agency
Local Case Number: H21452-001
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607300394
Action Type: Other
Date: 11/06/1989
Action: Leak Reported

Global Id: T0607300394
Action Type: Other
Date: 10/17/1989
Action: Leak Began

Global Id: T0607300394
Action Type: Other
Date: 10/17/1989
Action: Leak Discovery

Global Id: T0607300394
Action Type: Other
Date: 10/17/1989
Action: Leak Stopped

Global Id: T0607300394
Action Type: ENFORCEMENT
Date: 11/16/1988
Action: Notice of Responsibility

LUST:
Global Id: T0607300394
Status: Completed - Case Closed
Status Date: 04/28/1997

Global Id: T0607300394
Status: Open - Case Begin Date
Status Date: 11/16/1988

EXPRESS GAS (Continued) **S104745652**

SAN DIEGO CO. SAM:

Case Number:	H21452-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Closed Case
Date:	4/28/1997
Date Began:	10/17/1989

Case Number:	H21452-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Preliminary Assessment
Date:	5/19/2006
Date Began:	Not reported

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	04/14/2014
Global Id:	T06019769813
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H21452-002
Latitude:	32.8208030469821
Longitude:	-117.178673744202
Case Type:	Cleanup Program Site
Case Worker:	CF
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Staff of the County of San Diego, Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), reviewed file related to the above-referenced property and the status letter by Groundwater and Environmental Services, Inc. (GES) dated January 3, 2014. The letter provides a narrative of events related to redevelopment of a shopping plaza and potential worker exposure concerns related to an unauthorized release at a service station. The shopping plaza owner applied to DEHs Voluntary Assistance Program (VAP) case and requested DEH to concur with the consultant that the contamination at a service station adjoining the property was not a risk to plaza construction workers. A VAP case was opened for the Genesee Plaza Shopping Center on May 22, 2006. At the time, the shopping center, which is located on Balboa Avenue between Genesee Avenue and Mt. Abernathy Drive in San Diego, was slated for redevelopment. The plans entailed the demolition of selected buildings within the plaza, which were to be replaced with new construction and expanded parking areas. Upon review of the redevelopment plans, the City of San Diego Development Services Department (the City) noted that an unauthorized release case (#H05864-003) was open for a service station (addressed as 5790 Balboa Avenue) located adjacent to the plaza. The redevelopment planned for the immediate vicinity of the service station entailed the re-paving of parking areas and the reconstruction of sidewalks.

EXPRESS GAS (Continued) **S104745652**

Demolition and building reconstruction activities were planned for plaza buildings located a minimum of 100 feet away from the service station. The City raised concerns with respect to potential health effects to construction workers from the unauthorized release at the service station. The VAP case was opened so that an appropriately-licensed consultant could provide the City with a letter stating that the release posed no health risk to workers on the redevelopment project. However, the project proceeded without the letter ever having been written. The unauthorized release case for the service station (#H05864-003) closed on January 10, 2007. In the above-referenced status letter, GES concluded that there was no risk of worker exposure to the unauthorized release at the time redevelopment work was performed at the shopping plaza and has recommended no further action and case closure. DEH concurs with these recommendations.

Click here to access the California GeoTracker records for this facility:

HMMD SAN DIEGO:

Permit Number:	103289
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	DEH-103289
Last HMMD Inspection:	Not reported
Facility Telephone:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Date Last Updated:	11/02/2012
Facility Owner:	Not reported
Facility Mailing Address:	Not reported
Facility Mailing City:	Not reported
Facility Mailing State:	Not reported
Facility Mailing Zip:	Not reported
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Permit Number:	119559
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	DEH-119559
Last HMMD Inspection:	12/20/1989
Facility Telephone:	858-571-5454
Permit Status:	INAC
Permit Expiration:	12/20/1989
Date Last Updated:	11/02/2012
Facility Owner:	PRESTIGE CAR WASH
Facility Mailing Address:	5454 BALBOA AV
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92111-2702
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported

EXPRESS GAS (Continued) **S104745652**

Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported
Permit Number:	121452
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	361-261-35-00
Last HMMD Inspection:	12/21/1988
Facility Telephone:	858-279-0383
Permit Status:	INAC
Permit Expiration:	Not reported
Date Last Updated:	11/02/2012
Facility Owner:	EXPRESS GAS CORP
Facility Mailing Address:	5454 BALBOA AV 155
Facility Mailing City:	SAN DIEGO
Facility Mailing State:	CA
Facility Mailing Zip:	92111-2702
UST Owner:	SUNBELT HOLDINGS
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 121452 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	121452
Tank Type:	SINGLE WALL
Additional Id:	1
Capacity Gallons:	1
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1989-10-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 121452 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	121452
Tank Type:	SINGLE WALL
Additional Id:	2
Capacity Gallons:	12000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1989-10-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported

EXPRESS GAS (Continued) **S104745652**

Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 121452 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	121452
Tank Type:	SINGLE WALL
Additional Id:	3
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1989-10-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT1574

J46 **ROCKY HOME MILK STORE CLARIMON** **LUST S108407209**
South **6426 MT ACADIA BL** **SAN DIEGO CO. SAM N/A**
1/8-1/4 **SAN DIEGO, CA 92111**
0.225 mi.
1190 ft. **Site 1 of 2 in cluster J**

Relative:
Lower

Actual:
365 ft.

LUST:

Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607302730
Global Id:	T0607302730
Latitude:	32.8165107
Longitude:	-117.1828182
Status:	Completed - Case Closed
Status Date:	10/10/1984
Case Worker:	DTB
RB Case Number:	9UT419
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	H21178-001
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607302730
Contact Type:	Regional Board Caseworker
Contact Name:	DAVID T. BARKER
Organization Name:	SAN DIEGO RWQCB (REGION 9)

ROCKY HOME MILK STORE CLARIMON (Continued) **S108407209**

Address: 2375 NORTHSIDE DRIVE, SUITE 100
City: SAN DIEGO
Email: david.barker@waterboards.ca.gov
Phone Number: 6195213007

LUST:
Global Id: T0607302730
Action Type: Other
Date: 08/21/1984
Action: Leak Reported

Global Id: T0607302730
Action Type: Other
Date: 08/21/1984
Action: Leak Discovery

LUST:
Global Id: T0607302730
Status: Completed - Case Closed
Status Date: 10/10/1984

Global Id: T0607302730
Status: Open - Case Begin Date
Status Date: 01/10/1984

Global Id: T0607302730
Status: Open - Site Assessment
Status Date: 01/10/1984

SAN DIEGO CO. SAM:
Case Number: H21178-001
Agency: CA Regional Water Quality Control Board
Funding: **Non Billable**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 10/10/1984
Date Began: 8/21/1984

47
East
1/8-1/4
0.230 mi.
1216 ft.

CVS PHARMACY #7962
5685 BALBOA AVE
SAN DIEGO, CA 92111

RCRA-LQG **1015740303**
FINDS **CAR000229914**
ECHO

Relative:
Higher

Actual:
366 ft.

RCRA-LQG:
Date form received by agency: 03/01/2014
Facility name: CVS PHARMACY #7962
Facility address: 5685 BALBOA AVE
SAN DIEGO, CA 92111
EPA ID: CAR000229914
Mailing address: CVS DR-23062A
WOONSOCKET, CA 02895
Contact: WENDY L BRANT
Contact address: CVS DR-23062A
WOONSOCKET, RI 02895

CVS PHARMACY #7962 (Continued) **1015740303**

Contact country:	Not reported
Contact telephone:	401-770-7457
Contact email:	WENDY.BRANT@CVSCAREMARK.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	LONGS DRUG STORES CALIFORNIA LLC
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	10/22/2008
Owner/Op end date:	Not reported

Owner/operator name:	LONGS DRUG STORES CALIFORNIA, LLC
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	10/22/2008
Owner/Op end date:	Not reported

Owner/operator name:	BALBOA REALTY LLC
Owner/operator address:	WOMBLE RD STE 107
	SAN DIEGO, CA 92106
Owner/operator country:	Not reported
Owner/operator telephone:	619-231-9606
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/08/1968
Owner/Op end date:	Not reported

CVS PHARMACY #7962 (Continued) **1015740303**

Owner/operator name: BALBOA REALTY LLC
Owner/operator address: 2750 WOMBLE RD STE 107
SAN DIEGO, CA 92106
Owner/operator country: US
Owner/operator telephone: 619-231-9606
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/08/1968
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331

CVS PHARMACY #7962 (Continued) **1015740303**

. Waste name: Off-specification, aged, or surplus organics

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016

CVS PHARMACY #7962 (Continued) **1015740303**

. Waste name: 2,4-D

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: P081
. Waste name: NITROGLYCERINE (R)

. Waste code: P188
. Waste name: BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U010
. Waste name: AZIRINO[2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA,8AALPHA,8BALPHA)]-

. Waste code: U031
. Waste name: 1-BUTANOL (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]-

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U058
. Waste name: CYCLOPHOSPHAMIDE

CVS PHARMACY #7962 (Continued) **1015740303**

. Waste code: U059
. Waste name: DAUNOMYCIN

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO-

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO-

. Waste code: U089
. Waste name: DIETHYLSTILBESTEROL

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

. Waste code: U132
. Waste name: HEXACHLOROPHENE

. Waste code: U150
. Waste name: MELPHALAN

. Waste code: U151
. Waste name: MERCURY

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL

. Waste code: U204
. Waste name: SELENIOUS ACID

. Waste code: U205
. Waste name: SELENIUM SULFIDE

. Waste code: U206
. Waste name: GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-, D-

. Waste code: U210
. Waste name: ETHENE, TETRACHLORO-

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

CVS PHARMACY #7962 (Continued) **1015740303**

. Waste code: U411
. Waste name: PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE (OR) PROPOXUR

Historical Generators:
Date form received by agency: 09/04/2012
Site name: CVS PHARMACY NO 7962
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)-

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: P081
. Waste name: NITROGLYCERINE (R)

Violation Status: No violations found

FINDS:

Registry ID: 110054821010

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

STATE MASTER

CVS PHARMACY #7962 (Continued) **1015740303**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1015740303
Registry ID: 110054821010
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110054821010

K48 **BALBOA 76** **UST** **U003942677**
East **5790 BALBOA AVE** **N/A**
1/8-1/4 **SAN DIEGO, CA 92111**
0.231 mi.
1218 ft. **Site 1 of 9 in cluster K**

Relative: Higher
Actual: 370 ft.

UST:
Facility ID: 37-000-211747
Permitting Agency: San Diego County Department of Environme
Latitude: 32.82058
Longitude: -117.1786

Facility ID: H05864
Permitting Agency: SAN DIEGO COUNTY
Latitude: 32.8220013
Longitude: -117.1772608

K49 **UNOCAL #5295-30847** **LUST** **S104746270**
East **5790 BALBOA AV** **CPS-SLIC** **N/A**
1/8-1/4 **SAN DIEGO, CA 92111** **San Diego Co. HMMD**
0.231 mi. **EMI**
1218 ft. **Site 2 of 9 in cluster K** **HIST CORTESE**

Relative: Higher
Actual: 370 ft.

LUST:
Lead Agency: SAN DIEGO COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607300988
Global Id: T0607300988
Latitude: 32.8206182148846
Longitude: -117.178754210472
Status: Completed - Case Closed
Status Date: 01/10/2007
Case Worker: EM
RB Case Number: 9UT2221
Local Agency: SAN DIEGO COUNTY LOP
File Location: Local Agency
Local Case Number: H05864-003
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607300988
Contact Type: Local Agency Caseworker
Contact Name: EWAN MOFFAT
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261

UNOCAL #5295-30847 (Continued) **S104746270**

City: San Diego
Email: ewan.moffat@sdcounty.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607300988
Action Type: Other
Date: 03/12/1991
Action: Leak Reported

Global Id: T0607300988
Action Type: Other
Date: 03/04/1991
Action: Leak Began

Global Id: T0607300988
Action Type: Other
Date: 03/04/1991
Action: Leak Discovery

Global Id: T0607300988
Action Type: ENFORCEMENT
Date: 05/14/1992
Action: Notice of Responsibility

Global Id: T0607300988
Action Type: Other
Date: 03/04/1991
Action: Leak Stopped

LUST:
Global Id: T0607300988
Status: Completed - Case Closed
Status Date: 01/10/2007

Global Id: T0607300988
Status: Open - Case Begin Date
Status Date: 03/04/1991

Lead Agency: SAN DIEGO COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607302943
Global Id: T0607302943
Latitude: 32.820547
Longitude: -117.178564
Status: Completed - Case Closed
Status Date: 03/14/1996
Case Worker: Not reported
RB Case Number: 9UT675
Local Agency: Not reported
File Location: Local Agency
Local Case Number: H05864-001
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

UNOCAL #5295-30847 (Continued) **S104746270**

LUST:
Global Id: T0607302943
Action Type: Other
Date: 02/09/1987
Action: Leak Reported

Global Id: T0607302943
Action Type: Other
Date: 02/09/1987
Action: Leak Began

Global Id: T0607302943
Action Type: Other
Date: 02/09/1987
Action: Leak Discovery

Global Id: T0607302943
Action Type: ENFORCEMENT
Date: 02/09/1987
Action: Notice of Responsibility

Global Id: T0607302943
Action Type: Other
Date: 02/09/1987
Action: Leak Stopped

LUST:
Global Id: T0607302943
Status: Completed - Case Closed
Status Date: 03/14/1996

Global Id: T0607302943
Status: Open - Case Begin Date
Status Date: 02/09/1987

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 10/02/1989
Global Id: T0608121178
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H05864-002
Latitude: 32.820569
Longitude: -117.178565
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

UNOCAL #5295-30847 (Continued) **S104746270**

HMMD SAN DIEGO:

Permit Number:	105864
Business Type:	6HK28
EPA Id Number:	CAL000279376
APN:	361-261-20-00
Last HMMD Inspection:	02/03/2009
Facility Telephone:	858-492-9039
Permit Status:	CHNG
Permit Expiration:	03/31/2010
Date Last Updated:	11/02/2012
Facility Owner:	CONOCO PHILLIPS/ KAYO OIL CO.
Facility Mailing Address:	600 NORTH DAIRY ASHFORD TA 1136B
Facility Mailing City:	HOUSTON
Facility Mailing State:	TX
Facility Mailing Zip:	77079
UST Owner:	CONOCOPHILLIPS CO
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 105864 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	105864
Tank Type:	SINGLE WALL
Additional Id:	5295-22
Capacity Gallons:	10000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1994-08-02 00:00:00
Year Installed:	1981-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name:	UNDERGROUND TANK 105864 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	105864
Tank Type:	SINGLE WALL
Additional Id:	5295-11
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1994-08-02 00:00:00
Year Installed:	1981-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UNOCAL #5295-30847 (Continued) **S104746270**

UST Name:	UNDERGROUND TANK 105864 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	105864
Tank Type:	SINGLE WALL
Additional Id:	5295-34 UNLEADED PLUS
Capacity Gallons:	280
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1965-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 105864 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	105864
Tank Type:	DOUBLE WALL
Additional Id:	004 REGULAR UNLEADED, RT3086
Capacity Gallons:	15000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT

UST Name:	UNDERGROUND TANK 105864 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	105864
Tank Type:	DOUBLE WALL
Additional Id:	005, RT3086
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT

Permit Number:	105864
Business Type:	6HK28
EPA Id Number:	CAL000279376
APN:	361-261-20-00
Last HMMD Inspection:	02/03/2009

UNOCAL #5295-30847 (Continued) **S104746270**

Facility Telephone:	858-492-9039
Permit Status:	CHNG
Permit Expiration:	03/31/2010
Date Last Updated:	11/02/2012
Facility Owner:	CONOCO PHILLIPS/ KAYO OIL CO.
Facility Mailing Address:	600 NORTH DAIRY ASHFORD TA 1136B
Facility Mailing City:	HOUSTON
Facility Mailing State:	TX
Facility Mailing Zip:	77079
UST Owner:	CONOCOPHILLIPS CO
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 105864 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	105864
Tank Type:	SINGLE WALL
Additional Id:	5295-22
Capacity Gallons:	10000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1994-08-02 00:00:00
Year Installed:	1981-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name:	UNDERGROUND TANK 105864 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	105864
Tank Type:	SINGLE WALL
Additional Id:	5295-11
Capacity Gallons:	10000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1994-08-02 00:00:00
Year Installed:	1981-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name:	UNDERGROUND TANK 105864 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	105864
Tank Type:	SINGLE WALL
Additional Id:	5295-34 UNLEADED PLUS
Capacity Gallons:	280

UNOCAL #5295-30847 (Continued) **S104746270**

UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1965-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 105864 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	105864
Tank Type:	DOUBLE WALL
Additional Id:	004 REGULAR UNLEADED, RT3086
Capacity Gallons:	15000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT

UST Name:	UNDERGROUND TANK 105864 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	105864
Tank Type:	DOUBLE WALL
Additional Id:	005, RT3086
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT

Permit Number:	211747
Business Type:	6HK28
EPA Id Number:	CAL00279376
APN:	361-261-20-00
Last HMMD Inspection:	01/11/2012
Facility Telephone:	619-858-4929
Permit Status:	OPEN
Permit Expiration:	12/31/2012
Date Last Updated:	11/02/2012
Facility Owner:	LA CIMA OIL CO, INC
Facility Mailing Address:	PO BOX 2432

UNOCAL #5295-30847 (Continued) **S104746270**

Facility Mailing City:	RANCHO SANTA FE
Facility Mailing State:	CA
Facility Mailing Zip:	92067
UST Owner:	LA CIMA OIL CO, INC
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	211747
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	REGULAR UNLEADED
Other Information:	UNDERGROUND TANK 105864 T004 REGULAR UNLEADED
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	211747
Update Date:	11/02/2012
Case Number:	Not reported
Name:	SUPER UNLEADED
Other Information:	UNDERGROUND TANK 105864 T005
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/28/2011
Violation Code:	6HV3105
Violation:	NO CURRENT FINANCIAL RESPONSIBILITY
Violation Citation:	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809
Activity:	ACTIVE

Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/28/2011
Violation Code:	6HV3193
Violation:	NO TRAINING/RECORD INCOMPLETE-NOT ONSITE
Violation Citation:	Facility employee(s) are not trained, training records are incomplete, and/or not onsite. 2715(f)
Activity:	ACTIVE

Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/28/2011
Violation Code:	6HV0225
Violation:	ACCUMULATED HW>180 OR >270 DAYS
Violation Citation:	Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity:	ACTIVE

UNOCAL #5295-30847 (Continued) **S104746270**

Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/11/2012
Violation Code:	6HV3104
Violation:	FORMS A & B NOT AVAIL./SUBMITTED
Violation Citation:	CUPA UST form(s) A and/or B not available/complete/submitted to HMD. 25286(a); 2711
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/11/2012
Violation Code:	6HV3191
Violation:	NO D.O. CERT/NOTIFICATION/CHANGE
Violation Citation:	Designated Operator Notification/Change form not submitted and/or D.O. not ICC certified. 2715 (a)(b)
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/11/2012
Violation Code:	6HV3267
Violation:	DISP. CONTAINMENT NOT ADEQ. MONITORED
Violation Citation:	Dispenser containment not adequately monitored. 2636(f)(1) or (f)(5)(A)
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/27/2010
Violation Code:	6HV3251
Violation:	MONITOR IN ALARM AT START OF INSPECTION
Violation Citation:	Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/27/2010
Violation Code:	6HV3251
Violation:	MONITOR IN ALARM AT START OF INSPECTION
Violation Citation:	Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/27/2010
Violation Code:	6HV3255
Violation:	SPILL CONTAIN. NOT DRY/IN GOOD CONDITION
Violation Citation:	Spill container is not in good condition and/or liquid free. 2635(b)(1), 2636(a)(1)
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/27/2010

UNOCAL #5295-30847 (Continued) **S104746270**

Violation Code: 6HV3257
Violation: 2NDRY CONTAINMENT NOT LIQUID FREE
Violation Citation: Secondary containment system components not liquid free. 2631(d)(4)
Activity: ACTIVE

Permit Number: 211747
Update Date: 11/02/2012
Inspection Date: 01/27/2010
Violation Code: 6HV3157
Violation: EQUIP. TAMPERING/RECORD FALSIFICATION
Violation Citation: Monitoring system disabled or tampered with and/or monitoring records falsified. 25299(f)
Activity: ACTIVE

UST:
UST Name: UNDERGROUND TANK 105864 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 211747
Tank Type: SINGLE WALL
Additional Id: 5295-22
Capacity Gallons: 10000
UST Contents: PREMIUM UNLEADED
Other Content Info: PREMIUM UNLEADED
Reg Status: REMOVED
Remove Close Date: 1994-08-02 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 105864 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 211747
Tank Type: SINGLE WALL
Additional Id: 5295-11
Capacity Gallons: 10000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 1994-08-02 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 105864 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 211747
Tank Type: SINGLE WALL
Additional Id: 5295-34 UNLEADED PLUS
Capacity Gallons: 280
UST Contents: Not reported
Other Content Info: WASTE OIL

UNOCAL #5295-30847 (Continued) **S104746270**

Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1965-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 105864 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	211747
Tank Type:	DOUBLE WALL
Additional Id:	004 REGULAR UNLEADED, RT3086, RT5046, RT5071, RT53
Capacity Gallons:	15000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT
UST Name:	UNDERGROUND TANK 105864 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	211747
Tank Type:	DOUBLE WALL
Additional Id:	005, RT3086, RT5046, RT5071, RT5307
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT

Permit Number:	211747
Business Type:	6HK28
EPA Id Number:	CAL00279376
APN:	361-261-20-00
Last HMMD Inspection:	01/11/2012
Facility Telephone:	619-858-4929
Permit Status:	OPEN
Permit Expiration:	12/31/2012
Date Last Updated:	11/02/2012
Facility Owner:	LA CIMA OIL CO, INC
Facility Mailing Address:	PO BOX 2432
Facility Mailing City:	RANCHO SANTA FE
Facility Mailing State:	CA

UNOCAL #5295-30847 (Continued) **S104746270**

Facility Mailing Zip:	92067
UST Owner:	LA CIMA OIL CO, INC
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	211747
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	REGULAR UNLEADED
Other Information:	UNDERGROUND TANK 105864 T004 REGULAR UNLEADED
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	211747
Update Date:	11/02/2012
Case Number:	Not reported
Name:	SUPER UNLEADED
Other Information:	UNDERGROUND TANK 105864 T005
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/28/2011
Violation Code:	6HV3105
Violation:	NO CURRENT FINANCIAL RESPONSIBILITY
Violation Citation:	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809
Activity:	ACTIVE

Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/28/2011
Violation Code:	6HV3193
Violation:	NO TRAINING/RECORD INCOMPLETE-NOT ONSITE
Violation Citation:	Facility employee(s) are not trained, training records are incomplete, and/or not onsite. 2715(f)
Activity:	ACTIVE

Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/28/2011
Violation Code:	6HV0225
Violation:	ACCUMULATED HW>180 OR >270 DAYS
Violation Citation:	Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity:	ACTIVE

Permit Number:	211747

UNOCAL #5295-30847 (Continued) **S104746270**

Update Date:	11/02/2012
Inspection Date:	01/11/2012
Violation Code:	6HV3104
Violation:	FORMS A & B NOT AVAIL./SUBMITTED
Violation Citation:	CUPA UST form(s) A and/or B not available/complete/submitted to HMD. 25286(a); 2711
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/11/2012
Violation Code:	6HV3191
Violation:	NO D.O. CERT/NOTIFICATION/CHANGE
Violation Citation:	Designated Operator Notification/Change form not submitted and/or D.O. not ICC certified. 2715 (a)(b)
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/11/2012
Violation Code:	6HV3267
Violation:	DISP. CONTAINMENT NOT ADEQ. MONITORED
Violation Citation:	Dispenser containment not adequately monitored. 2636(f)(1) or (f)(5)(A)
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/27/2010
Violation Code:	6HV3251
Violation:	MONITOR IN ALARM AT START OF INSPECTION
Violation Citation:	Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/27/2010
Violation Code:	6HV3251
Violation:	MONITOR IN ALARM AT START OF INSPECTION
Violation Citation:	Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/27/2010
Violation Code:	6HV3255
Violation:	SPILL CONTAIN. NOT DRY/IN GOOD CONDITION
Violation Citation:	Spill container is not in good condition and/or liquid free. 2635(b)(1), 2636(a)(1)
Activity:	ACTIVE
Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/27/2010
Violation Code:	6HV3257

UNOCAL #5295-30847 (Continued) **S104746270**

Violation: 2NDRY CONTAINMENT NOT LIQUID FREE
Violation Citation: Secondary containment system components not liquid free. 2631(d)(4)
Activity: ACTIVE

Permit Number: 211747
Update Date: 11/02/2012
Inspection Date: 01/27/2010
Violation Code: 6HV3157
Violation: EQUIP. TAMPERING/RECORD FALSIFICATION
Violation Citation: Monitoring system disabled or tampered with and/or monitoring records falsified. 25299(f)
Activity: ACTIVE

UST:
UST Name: UNDERGROUND TANK 105864 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 211747
Tank Type: SINGLE WALL
Additional Id: 5295-22
Capacity Gallons: 10000
UST Contents: PREMIUM UNLEADED
Other Content Info: PREMIUM UNLEADED
Reg Status: REMOVED
Remove Close Date: 1994-08-02 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 105864 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 211747
Tank Type: SINGLE WALL
Additional Id: 5295-11
Capacity Gallons: 10000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 1994-08-02 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 105864 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 211747
Tank Type: SINGLE WALL
Additional Id: 5295-34 UNLEADED PLUS
Capacity Gallons: 280
UST Contents: Not reported
Other Content Info: WASTE OIL
Reg Status: REMOVED

UNOCAL #5295-30847 (Continued) **S104746270**

Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1965-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 105864 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	211747
Tank Type:	DOUBLE WALL
Additional Id:	004 REGULAR UNLEADED, RT3086, RT5046, RT5071, RT53
Capacity Gallons:	15000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT
UST Name:	UNDERGROUND TANK 105864 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	211747
Tank Type:	DOUBLE WALL
Additional Id:	005, RT3086, RT5046, RT5071, RT5307
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT

Permit Number:	211747
Business Type:	6HK28
EPA Id Number:	CAL00279376
APN:	361-261-20-00
Last HMMD Inspection:	01/11/2012
Facility Telephone:	619-858-4929
Permit Status:	OPEN
Permit Expiration:	12/31/2012
Date Last Updated:	11/02/2012
Facility Owner:	LA CIMA OIL CO, INC
Facility Mailing Address:	PO BOX 2432
Facility Mailing City:	RANCHO SANTA FE
Facility Mailing State:	CA
Facility Mailing Zip:	92067

UNOCAL #5295-30847 (Continued) **S104746270**

UST Owner:	LA CIMA OIL CO, INC
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	211747
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	REGULAR UNLEADED
Other Information:	UNDERGROUND TANK 105864 T004 REGULAR UNLEADED
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	211747
Update Date:	11/02/2012
Case Number:	Not reported
Name:	SUPER UNLEADED
Other Information:	UNDERGROUND TANK 105864 T005
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/28/2011
Violation Code:	6HV3105
Violation:	NO CURRENT FINANCIAL RESPONSIBILITY
Violation Citation:	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809
Activity:	ACTIVE

Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/28/2011
Violation Code:	6HV3193
Violation:	NO TRAINING/RECORD INCOMPLETE-NOT ONSITE
Violation Citation:	Facility employee(s) are not trained, training records are incomplete, and/or not onsite. 2715(f)
Activity:	ACTIVE

Permit Number:	211747
Update Date:	11/02/2012
Inspection Date:	01/28/2011
Violation Code:	6HV0225
Violation:	ACCUMULATED HW>180 OR >270 DAYS
Violation Citation:	Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity:	ACTIVE

Permit Number:	211747
Update Date:	11/02/2012

UNOCAL #5295-30847 (Continued) **S104746270**

Inspection Date: 01/11/2012
Violation Code: 6HV3104
Violation: FORMS A & B NOT AVAIL./SUBMITTED
Violation Citation: CUPA UST form(s) A and/or B not available/complete/submitted to HMD. 25286(a); 2711
Activity: ACTIVE

Permit Number: 211747
Update Date: 11/02/2012
Inspection Date: 01/11/2012
Violation Code: 6HV3191
Violation: NO D.O. CERT/NOTIFICATION/CHANGE
Violation Citation: Designated Operator Notification/Change form not submitted and/or D.O. not ICC certified. 2715 (a)(b)
Activity: ACTIVE

Permit Number: 211747
Update Date: 11/02/2012
Inspection Date: 01/11/2012
Violation Code: 6HV3267
Violation: DISP. CONTAINMENT NOT ADEQ. MONITORED
Violation Citation: Dispenser containment not adequately monitored. 2636(f)(1) or (f)(5)(A)
Activity: ACTIVE

Permit Number: 211747
Update Date: 11/02/2012
Inspection Date: 01/27/2010
Violation Code: 6HV3251
Violation: MONITOR IN ALARM AT START OF INSPECTION
Violation Citation: Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)
Activity: ACTIVE

Permit Number: 211747
Update Date: 11/02/2012
Inspection Date: 01/27/2010
Violation Code: 6HV3251
Violation: MONITOR IN ALARM AT START OF INSPECTION
Violation Citation: Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)
Activity: ACTIVE

Permit Number: 211747
Update Date: 11/02/2012
Inspection Date: 01/27/2010
Violation Code: 6HV3255
Violation: SPILL CONTAIN. NOT DRY/IN GOOD CONDITION
Violation Citation: Spill container is not in good condition and/or liquid free. 2635(b)(1), 2636(a)(1)
Activity: ACTIVE

Permit Number: 211747
Update Date: 11/02/2012
Inspection Date: 01/27/2010
Violation Code: 6HV3257
Violation: 2NDRY CONTAINMENT NOT LIQUID FREE

UNOCAL #5295-30847 (Continued) **S104746270**

Violation Citation: Secondary containment system components not liquid free. 2631(d)(4)
Activity: ACTIVE

Permit Number: 211747
Update Date: 11/02/2012
Inspection Date: 01/27/2010
Violation Code: 6HV3157
Violation: EQUIP. TAMPERING/RECORD FALSIFICATION
Violation Citation: Monitoring system disabled or tampered with and/or monitoring records falsified. 25299(f)
Activity: ACTIVE

UST:
UST Name: UNDERGROUND TANK 105864 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 211747
Tank Type: SINGLE WALL
Additional Id: 5295-22
Capacity Gallons: 10000
UST Contents: PREMIUM UNLEADED
Other Content Info: PREMIUM UNLEADED
Reg Status: REMOVED
Remove Close Date: 1994-08-02 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 105864 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 211747
Tank Type: SINGLE WALL
Additional Id: 5295-11
Capacity Gallons: 10000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 1994-08-02 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 105864 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 211747
Tank Type: SINGLE WALL
Additional Id: 5295-34 UNLEADED PLUS
Capacity Gallons: 280
UST Contents: Not reported
Other Content Info: WASTE OIL
Reg Status: REMOVED
Remove Close Date: 1986-11-08 00:00:00

UNOCAL #5295-30847 (Continued) **S104746270**

Year Installed:	1965-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 105864 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	211747
Tank Type:	DOUBLE WALL
Additional Id:	004 REGULAR UNLEADED, RT3086, RT5046, RT5071, RT53
Capacity Gallons:	15000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT
UST Name:	UNDERGROUND TANK 105864 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	211747
Tank Type:	DOUBLE WALL
Additional Id:	005, RT3086, RT5046, RT5071, RT5307
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1994-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT

EMI:

Year:	2006
County Code:	37
Air Basin:	SD
Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.39
Reactive Organic Gases Tons/Yr:	2.39
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

UNOCAL #5295-30847 (Continued) **S104746270**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	2007
County Code:	37
Air Basin:	SD
Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.39
Reactive Organic Gases Tons/Yr:	2.39
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	2008
County Code:	37
Air Basin:	SD
Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.39
Reactive Organic Gases Tons/Yr:	2.39
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	2009
County Code:	37
Air Basin:	SD
Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.3900000000000001
Reactive Organic Gases Tons/Yr:	2.3900000000000001
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	2010
County Code:	37
Air Basin:	SD

UNOCAL #5295-30847 (Continued) **S104746270**

Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.3900000000000001
Reactive Organic Gases Tons/Yr:	2.3900000000000001
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2011
County Code:	37
Air Basin:	SD
Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.39
Reactive Organic Gases Tons/Yr:	2.39
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2012
County Code:	37
Air Basin:	SD
Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.39
Reactive Organic Gases Tons/Yr:	2.39
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2013
County Code:	37
Air Basin:	SD
Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

UNOCAL #5295-30847 (Continued) **S104746270**

Total Organic Hydrocarbon Gases Tons/Yr:	2.39
Reactive Organic Gases Tons/Yr:	2.39
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2014
County Code:	37
Air Basin:	SD
Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.39
Reactive Organic Gases Tons/Yr:	2.39
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2015
County Code:	37
Air Basin:	SD
Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.39
Reactive Organic Gases Tons/Yr:	2.39
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2016
County Code:	37
Air Basin:	SD
Facility ID:	4722
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.39
Reactive Organic Gases Tons/Yr:	2.39
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported

UNOCAL #5295-30847 (Continued) **S104746270**

Part. Matter 10 Micrometers and Smllr Tons/Yr:Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT675

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2221

K50 **BALBOA CHEVRON** **UST** **U004270864**
East **5790 BALBOA AVE** **N/A**
1/8-1/4 **SAN DIEGO, CA 92111**
0.231 mi.
1218 ft. **Site 3 of 9 in cluster K**

Relative:
Higher

Actual:
370 ft.

UST:

Facility ID:	37-000-211747
Permitting Agency:	San Diego County Department of Environmental Health
Latitude:	32.82058
Longitude:	-117.1786

K51 **UNOCAL SERV STATION #5295** **LUST** **S101301877**
East **5790 BALBOA AVE** **SWEEPS UST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92111**
0.231 mi.
1218 ft. **Site 4 of 9 in cluster K**

Relative:
Higher

Actual:
370 ft.

LUST REG 9:

Region:	9
Status:	Preliminary site assessment underway
Case Number:	9UT2221
Local Case:	H05864-003
Substance:	Unleaded Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Other Means
How Stopped:	Other Means
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	03/12/1991
Date Stopped:	03/12/1991
Confirm Date:	03/04/1991
Submit Workplan:	5/20/92
Prelim Assess:	08/03/1992
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	03/12/1991

UNOCAL SERV STATION #5295 (Continued) **S101301877**

Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 906.50
GW Depth: Not reported
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: No
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 5864
Number: 9
Board Of Equalization: 44-001057
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005864-000001
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 2

Status: Active
Comp Number: 5864
Number: 9
Board Of Equalization: 44-001057
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005864-000002
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5864
Number: Not reported
Board Of Equalization: 44-001057
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported

UNOCAL SERV STATION #5295 (Continued) **S101301877**

SWRCB Tank Id:	37-000-005864-000003
Tank Status:	Not reported
Capacity:	280
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	1

K52 **UNION OIL SERVICE STATION 529** **HIST UST** **U001573081**
East **5790 BALBOA** **N/A**
1/8-1/4 **SAN DIEGO, CA 92117**
0.231 mi.
1218 ft. **Site 5 of 9 in cluster K**

Relative:
Higher

Actual:
370 ft.

HIST UST:

File Number:	0002F4AA
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002F4AA.pdf
Region:	STATE
Facility ID:	00000020020
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	PAUL DILLS
Telephone:	6192927965
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	123 CAMINO DE LA REINA
Owner City,St,Zip:	SAN DIEGO, CA 92108
Total Tanks:	0003
Tank Num:	001
Container Num:	5295-22
Year Installed:	1981
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10
Tank Num:	002
Container Num:	5295-11
Year Installed:	1981
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	5295-34
Year Installed:	1965
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

UNION OIL SERVICE STATION 529 (Continued) **U001573081**

Click here for Geo Tracker PDF:

K53 **UNOCAL SERVICE STATION #5295** **LUST** **S101301878**
East **5790 BALBOA AVE** **N/A**
1/8-1/4 **SAN DIEGO, CA 92117**
0.231 mi.
1218 ft. **Site 6 of 9 in cluster K**

Relative:
Higher

Actual:
370 ft.

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT675
Local Case:	H05864-001
Substance:	Waste Oil
Qty Leaked:	280
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Not reported
Cause:	Not reported
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	02/06/1987
Date Stopped:	02/06/1987
Confirm Date:	02/09/1987
Submit Workplan:	Not reported
Prelim Assess:	/ /
Desc Pollution:	3/1/90
Remed Plan:	/ /
Remed Action:	8/3/92
Began Monitor:	Not reported
Release Date:	02/09/1987
Enforce Date:	2/9/87
Closed Date:	2/27/96
Enforce Type:	SEL
Pilot Program:	LOP
Basin Number:	906.50
GW Depth:	~5’
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	2B
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

K54 **UNOCAL #5295-30847** **SAN DIEGO CO. SAM** **S105690916**
East **5790 BALBOA AV** **SAN DIEGO CO LOP** **N/A**
1/8-1/4 **SAN DIEGO, CA 92111**
0.231 mi.
1218 ft. **Site 7 of 9 in cluster K**

Relative:
Higher

Actual:
370 ft.

SAN DIEGO CO. SAM:

Case Number:	H05864-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	3/14/1996
Date Began:	2/9/1987

Case Number:	H05864-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Failed Integrity Test
Facility Status:	Closed Case
Date:	10/2/1989
Date Began:	10/11/1988

Case Number:	H05864-003
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Closed Case
Date:	1/10/2007
Date Began:	3/4/1991

SAN DIEGO CO LOP:

Record ID:	DEH1987-LSAM-H05864-001
Record Status:	Completed
Opened Date:	02/09/1987
Parcel Number:	361-261-20-00
Case Type:	LOP - Local Oversight Program
Historical Name:	TOSCO 76 #5295
SWRCB Global ID:	T0607302943
Funding:	F - LOP Federal Fund
Lead Agency:	DEH/SAM
Lead Agency Date:	02/09/1987
Census Tract:	85.07
Community:	San Diego
Jurisdiction:	SAN DIEGO
Watershed Basin Number:	906.5
Water Purveyor:	SAN DIEGO
Fire Agency:	SAN DIEGO
Thomas Bros Map Page Grid:	1248 H 2
Latitude:	32.8205797
Longitude:	-117.1785956
X MapCoord:	6276385.755
Y MapCoord:	1879615.790

Record ID:	DEH1991-LSAM-H05864-003
Record Status:	Completed
Opened Date:	03/12/1991
Parcel Number:	361-261-20-00
Case Type:	LOP - Local Oversight Program

UNOCAL #5295-30847 (Continued) **S105690916**

Historical Name:	TOSCO 76 #5295
SWRCB Global ID:	T0607300988
Funding:	F - LOP Federal Fund
Lead Agency:	DEH/SAM
Lead Agency Date:	03/04/1991
Census Tract:	85.07
Community:	San Diego
Jurisdiction:	SAN DIEGO
Watershed Basin Number:	906.5
Water Purveyor:	SAN DIEGO
Fire Agency:	SAN DIEGO
Thomas Bros Map Page Grid:	1248 H 2
Latitude:	32.8205797
Longitude:	-117.1785956
X MapCoord:	6276385.755
Y MapCoord:	1879615.790

Record ID:	DEH1989-LSAM-H05864-002
Record Status:	Completed
Opened Date:	09/22/1989
Parcel Number:	361-261-20-00
Case Type:	Not reported
Historical Name:	UNION #5295
SWRCB Global ID:	T0608121178
Funding:	N - Non-Billable
Lead Agency:	DEH/SAM
Lead Agency Date:	09/22/1989
Census Tract:	85.07
Community:	San Diego
Jurisdiction:	SAN DIEGO
Watershed Basin Number:	906.5
Water Purveyor:	SAN DIEGO
Fire Agency:	SAN DIEGO
Thomas Bros Map Page Grid:	1248 H 2
Latitude:	32.8205797
Longitude:	-117.1785956
X MapCoord:	6276385.755
Y MapCoord:	1879615.790

K55 **CVS PHARMACY #17517** **RCRA-CESQG 1018273783**
East **5680 BALBOA AVE STE B** **FINDS CAR000259804**
1/8-1/4 **SAN DIEGO, CA 92111** **ECHO**
0.231 mi.
1219 ft. **Site 8 of 9 in cluster K**

Relative: **Higher**

Actual: **370 ft.**

RCRA-CESQG:

Date form received by agency:	03/29/2016
Facility name:	CVS PHARMACY #17517
Facility address:	5680 BALBOA AVE STE B SAN DIEGO, CA 92111
EPA ID:	CAR000259804
Mailing address:	CVS DR WOONSOCKET, RI 02895
Contact:	NICOLE WILKINSON
Contact address:	CVS DR MAIL CODE 2340 WOONSOCKET, RI 02895
Contact country:	US
Contact telephone:	401-770-7132

CVS PHARMACY #17517 (Continued) **1018273783**

Contact email: NICOLE.WILKINSON@CVSHEALTH.COM
EPA Region: 09
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: GARFIELD BEACH CVS LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/16/2015
Owner/Op end date: Not reported

Owner/operator name: TGF COMPANY
Owner/operator address: OTHELLO AVE
SAN DIEGO, CA 92111
Owner/operator country: US
Owner/operator telephone: 858-495-4900
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/01/1982
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No

CVS PHARMACY #17517 (Continued) **1018273783**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

CVS PHARMACY #17517 (Continued) **1018273783**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

. Waste code: U188
. Waste name: PHENOL

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL

. Waste code: U205
. Waste name: SELENIUM SULFIDE

Violation Status: No violations found

FINDS:

Registry ID: 110067711239

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CVS PHARMACY #17517 (Continued) **1018273783**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1018273783
Registry ID: 110067711239
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110067711239

K56 **TARGET STORE T2465** **RCRA-SQG** **1014465354**
East **5680 BALBOA AVE** **CAR000218180**
1/8-1/4 **SAN DIEGO, CA 92111**
0.231 mi.
1219 ft. **Site 9 of 9 in cluster K**

Relative: Higher
Actual: 370 ft.

RCRA-SQG:
Date form received by agency: 03/01/2014
Facility name: TARGET STORE T2465
Facility address: 5680 BALBOA AVE
SAN DIEGO, CA 92111-2702
EPA ID: CAR000218180
Mailing address: P.O. BOX 111
MINNEAPOLIS, MN 55440
Contact: STEVE MUSSER
Contact address: P.O. BOX 111
MINNEAPOLIS, MN 55440
Contact country: Not reported
Contact telephone: 800-587-2228
Contact email: POC@TARGET.COM
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: TARGET CORPORATION
Owner/operator address: P.O. BOX 111
MINNEAPOLIS, MN 55440
Owner/operator country: Not reported
Owner/operator telephone: 800-587-2228
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/11/2008
Owner/Op end date: Not reported

Owner/operator name: TARGET CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported

TARGET STORE T2465 (Continued) **1014465354**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/11/2008
Owner/Op end date: Not reported

Owner/operator name: TARGET CORP
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/08/2008
Owner/Op end date: Not reported

Owner/operator name: TARGET CORP
Owner/operator address: PO BOX 111
MINNEAPOLIS, MN 55440
Owner/operator country: US
Owner/operator telephone: 800-587-2228
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/08/2008
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

TARGET STORE T2465 (Continued) **1014465354**

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

TARGET STORE T2465 (Continued) **1014465354**

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)-

. Waste code: P075
. Waste name: NICOTINE, & SALTS

. Waste code: P081
. Waste name: NITROGLYCERINE (R)

. Waste code: U002
. Waste name: ACETONE (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO-

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]-

. Waste code: U044
. Waste name: CHLOROFORM

. Waste code: U058
. Waste name: CYCLOPHOSPHAMIDE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-

. Waste code: U150
. Waste name: MELPHALAN

. Waste code: U154
. Waste name: METHANOL (I)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL

. Waste code: U279

TARGET STORE T2465 (Continued) **1014465354**

. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Historical Generators:
Date form received by agency: 04/11/2011
Site name: TARGET STORE NO 2465
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D005
. Waste name: BARIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P046
. Waste name: BENZENEETHANAMINE, ALPHA,ALPHA-DIMETHYL-

. Waste code: P075
. Waste name: NICOTINE, & SALTS

Violation Status: No violations found

J57 **SAN DIEGO USD HALE JR HS** **RCRA-SQG** **1000110693**
SSE **5331 MT ALIFAN** **FINDS** **CAD981452824**
1/8-1/4 **SAN DIEGO, CA 92117** **ECHO**
0.235 mi.
1243 ft. **Site 2 of 2 in cluster J**

Relative: Higher

Actual: 369 ft.

RCRA-SQG:

Date form received by agency:	03/12/1986
Facility name:	SAN DIEGO USD HALE JR HS
Facility address:	5331 MT ALIFAN SAN DIEGO, CA 92117
EPA ID:	CAD981452824
Mailing address:	4100 NORMAL ST AFIRST 112 SAN DIEGO, CA 92103
Contact:	ENVIRONMENTAL MANAGER
Contact address:	5331 MT ALIFAN CLAIREMONT, CA 92111
Contact country:	US
Contact telephone:	619-293-8116
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	SAN DIEGO USD
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	District
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

SAN DIEGO USD HALE JR HS (Continued) **1000110693**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110008269417

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000110693
Registry ID:	110008269417
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008269417

L58 **MOBIL BALBOA AVE** **CPS-SLIC 1006823925**
East **6066 BALBOA AV** **EMI N/A**
1/4-1/2 **SAN DIEGO, CA 92117**
0.350 mi.
1848 ft. **Site 1 of 7 in cluster L**

Relative:
Lower

Actual:
364 ft.

CPS-SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	11/15/2017
Global Id:	T10000009082
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	DEH2016-LSAM-000379
Latitude:	32.82068
Longitude:	-117.17654
Case Type:	Cleanup Program Site
Case Worker:	EM
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Not reported
Potential Media Affected:	Not reported

MOBIL BALBOA AVE (Continued) **1006823925**

Potential Contaminants of Concern: Not reported
Site History: This site is currently a vacant lot being developed into a tunnel car wash. There were two former Local Oversight Program (LOP) releases from the Mobil service station that was formally at this property, which was demolished in 2009. The first former LOP release (H12820-001) involved a gasoline release from USTs that were removed in August 1986. The case was closed August 8, 1994. The second LOP release (H12820-002) was discovered during a Phase II investigation in August 2009. The extent of soil contamination was further delineated with additional soil borings. All four tanks, piping and dispensers were removed in August 19, 2009 and all structures on site were demolished. Eight groundwater monitoring wells were installed at which time the groundwater plume was delineated. A Corrective Action Plan (CAP) was submitted. The suggested clean up method, natural attenuation, was approved. This VAP case was opened to evaluate the any risks from the former LOP cases or anything else discovered during the grading of the site for new car wash. A June 2017 Soil Mitigation Plan and Community Health & Safety Plan were submitted and approved. Excavation of the property occurred in June through August 2017. Grading and excavation took place from depths of two to ten feet. Soils with hydrocarbon impacts were noted in three locations based on Photo Ionization Detector (PID) monitoring Approximately 446 tons of contaminated soil was excavated and disposed of at appropriate facilities. No soil was reused off site. Due to shallow groundwater (noted at eight feet bgs), approximately 23,800 gallons of groundwater was pumped from two excavations and transported under manifest to appropriate facilities. Although none of the car wash footprint will be constructed over areas of former contamination, a Liquid Boot vapor barrier was installed. The consultant states that any onsite contamination remaining does not pose a significant threat to future occupants or to the environment. DEH concurs with these conclusions.

Click here to access the California GeoTracker records for this facility:

EMI:

Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	4191
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	4191

MOBIL BALBOA AVE (Continued) **1006823925**

Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	4191
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	4191
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	4191
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3

MOBIL BALBOA AVE (Continued) **1006823925**

Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	4191
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.7201524
Reactive Organic Gases Tons/Yr:	2.7201524
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2005
County Code:	37
Air Basin:	SD
Facility ID:	4191
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.7201524
Reactive Organic Gases Tons/Yr:	2.7201524
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

L59 **BALBOA MOBIL** **SAN DIEGO CO. SAM** **S105690223**
East **6066 BALBOA AV** **N/A**
1/4-1/2 **SAN DIEGO, CA 92111**
0.350 mi.
1848 ft. **Site 2 of 7 in cluster L**

Relative: SAN DIEGO CO. SAM:
Lower

Case Number:	H12820-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Closed Case
Date:	9/6/1994
Date Began:	8/1/1986

Actual:
364 ft.

Case Number:	H12820-002
Agency:	DEH Site Assessment & Mitigation

BALBOA MOBIL (Continued) **S105690223**

Funding:	**LOP - State Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Preliminary Assessment
Date:	8/31/2009
Date Began:	6/22/2009

L60 **MOBIL SERVICE STATION #18-F95** **LUST S102433803**
East **6066 BALBOA AVE** **CHMIRS N/A**
1/4-1/2 **SAN DIEGO, CA 92117**
0.350 mi.
1848 ft. **Site 3 of 7 in cluster L**

Relative:
Lower

Actual:
364 ft.

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT285
Local Case:	H12820-001
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	No Action Taken - no action has as yet been taken at the site
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	08/06/1986
Date Stopped:	08/06/1986
Confirm Date:	08/01/1986
Submit Workplan:	Not reported
Prelim Assess:	05/15/1991
Desc Pollution:	12/29/93
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	08/06/1986
Enforce Date:	Not reported
Closed Date:	9/6/94
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	906.50
GW Depth:	4’
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	2B
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

CHMIRS:

OES Incident Number:	8114
OES notification:	Not reported
OES Date:	5/24/1993
OES Time:	02:50:00 PM
Date Completed:	**Not reported**

MOBIL SERVICE STATION #18-F95 (Continued) **S102433803**

Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	MOBIL OIL
Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1993
Agency:	MOBIL OIL
Incident Date:	LAST 30 DAYS
Admin Agency:	Not reported
Amount:	UNKNOWN
Contained:	Not reported
Site Type:	Not reported
E Date:	Not reported
Substance:	GASOLINE
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported

MOBIL SERVICE STATION #18-F95 (Continued) **S102433803**

Fatals:	Not reported
Comments:	Not reported
Description:	SUSPECT THEFT OF GASOLINE BY AN EMPLOYEE OR LEAKING TANKS. TANK TESTS AND GROUND SAMPLES TO BE TESTED FOR TOMMORROW.
OES Incident Number:	08-1944
OES notification:	03/10/2008
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Service Station
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Oz.
Other:	Not reported
Date/Time:	1200
Year:	2008
Agency:	Veeder Roots
Incident Date:	3/4/2008
Admin Agency:	San Diego County Health Services Dept.
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline
Quantity Released:	3
Unknown:	Not reported
Substance #2:	Not reported

MOBIL SERVICE STATION #18-F95 (Continued) **S102433803**

Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	**HISTORICAL SPILL****Customer drove off with nozzle in the vehicle from dispenser # 2.

L61 **MOBIL 18-F95** **LUST S104747510**
East **6066 BALBOA AV** **HIST CORTESE N/A**
1/4-1/2 **SAN DIEGO, CA 92111**
0.350 mi.
1848 ft. **Site 4 of 7 in cluster L**

Relative: **Lower**

Actual: **364 ft.**

LUST:

Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607301610
Global Id:	T0607301610
Latitude:	32.820648
Longitude:	-117.176553
Status:	Completed - Case Closed
Status Date:	09/06/1994
Case Worker:	Not reported
RB Case Number:	9UT285
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	H12820-001
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607301610
Action Type:	Other
Date:	08/01/1986
Action:	Leak Reported
Global Id:	T0607301610
Action Type:	Other
Date:	08/01/1986
Action:	Leak Began
Global Id:	T0607301610
Action Type:	Other
Date:	08/01/1986
Action:	Leak Discovery
Global Id:	T0607301610

MOBIL 18-F95 (Continued) **S104747510**

Action Type: ENFORCEMENT
Date: 08/06/1986
Action: Notice of Responsibility

Global Id: T0607301610
Action Type: Other
Date: 08/01/1986
Action: Leak Stopped

LUST:
Global Id: T0607301610
Status: Completed - Case Closed
Status Date: 09/06/1994

Global Id: T0607301610
Status: Open - Case Begin Date
Status Date: 08/01/1986

Lead Agency: SAN DIEGO COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000001567
Global Id: T10000001567
Latitude: 32.8206497716114
Longitude: -117.176570892334
Status: Completed - Case Closed
Status Date: 03/19/2014
Case Worker: EM
RB Case Number: Not reported
Local Agency: SAN DIEGO COUNTY LOP
File Location: Local Agency
Local Case Number: H12820-002
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: 8/24/09 Phase II Site Assessment Report submitted by ETIC for ExxonMobil. Report showed elevated levels of benzene, toluene,xylene, MTBE and TBA in soil and groundwater. 8/31/09 DEH case H12820-002 opened. Groundwater assessment has indicated a shrinking plume. A 2013 CAP has suggested natural attenuation. DEH concurs.

LUST:
Global Id: T10000001567
Contact Type: Local Agency Caseworker
Contact Name: EWAN MOFFAT
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261
City: San Diego
Email: ewan.moffat@sdcounty.ca.gov
Phone Number: Not reported

LUST:
Global Id: T10000001567
Action Type: Other
Date: 09/30/2009
Action: Leak Stopped

Global Id: T10000001567

MOBIL 18-F95 (Continued) **S104747510**

Action Type: RESPONSE
Date: 05/01/2012
Action: Monitoring Report - Semi-Annually

Global Id: T10000001567
Action Type: RESPONSE
Date: 08/28/2013
Action: CAP/RAP - Other Report - Regulator Responded

Global Id: T10000001567
Action Type: RESPONSE
Date: 03/28/2013
Action: Site Assessment Report - Regulator Responded

Global Id: T10000001567
Action Type: RESPONSE
Date: 01/28/2013
Action: Request for Closure - Regulator Responded

Global Id: T10000001567
Action Type: Other
Date: 09/30/2009
Action: Leak Reported

Global Id: T10000001567
Action Type: RESPONSE
Date: 02/10/2013
Action: Monitoring Report - Semi-Annually

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 10/07/2009
Action: Letter - Notice

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 09/16/2009
Action: Notice of Responsibility

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 10/13/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 05/12/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 06/16/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 03/25/2013

MOBIL 18-F95 (Continued) **S104747510**

Action: Technical Correspondence / Assistance / Other

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 08/28/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 08/29/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T10000001567
Action Type: RESPONSE
Date: 11/15/2009
Action: Well Installation Workplan

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 11/20/2013
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 01/02/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T10000001567
Action Type: RESPONSE
Date: 08/08/2009
Action: Unauthorized Release Form

Global Id: T10000001567
Action Type: RESPONSE
Date: 08/24/2009
Action: Site Assessment Report

Global Id: T10000001567
Action Type: RESPONSE
Date: 01/30/2010
Action: Monitoring Report - Quarterly

Global Id: T10000001567
Action Type: RESPONSE
Date: 07/30/2010
Action: Monitoring Report - Quarterly

Global Id: T10000001567
Action Type: RESPONSE
Date: 04/15/2014
Action: Well Destruction Report

Global Id: T10000001567
Action Type: REMEDIATION
Date: 08/19/2009
Action: Pump & Treat (P&T) Groundwater

MOBIL 18-F95 (Continued) **S104747510**

Global Id: T10000001567
Action Type: REMEDIATION
Date: 08/19/2009
Action: Excavation

Global Id: T10000001567
Action Type: Other
Date: 08/03/2009
Action: Leak Began

Global Id: T10000001567
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Quarterly

Global Id: T10000001567
Action Type: RESPONSE
Date: 10/31/2010
Action: Monitoring Report - Quarterly

Global Id: T10000001567
Action Type: RESPONSE
Date: 01/30/2011
Action: Monitoring Report - Quarterly

Global Id: T10000001567
Action Type: ENFORCEMENT
Date: 03/19/2014
Action: Closure/No Further Action Letter

Global Id: T10000001567
Action Type: Other
Date: 08/03/2009
Action: Leak Discovery

Global Id: T10000001567
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Quarterly

Global Id: T10000001567
Action Type: RESPONSE
Date: 07/14/2011
Action: Monitoring Report - Quarterly

Global Id: T10000001567
Action Type: RESPONSE
Date: 10/24/2011
Action: Monitoring Report - Quarterly

Global Id: T10000001567
Action Type: RESPONSE
Date: 02/07/2012
Action: Other Report / Document

Global Id: T10000001567
Action Type: RESPONSE

MOBIL 18-F95 (Continued) **S104747510**

Date: 01/28/2011
Action: Other Report / Document

Global Id: T10000001567
Action Type: RESPONSE
Date: 12/13/2010
Action: Site Assessment Report - Regulator Responded

LUST:
Global Id: T10000001567
Status: Completed - Case Closed
Status Date: 03/19/2014

Global Id: T10000001567
Status: Open - Case Begin Date
Status Date: 10/05/2009

Global Id: T10000001567
Status: Open - Eligible for Closure
Status Date: 05/16/2013

Global Id: T10000001567
Status: Open - Site Assessment
Status Date: 10/05/2009

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT285

M62 **TEXACO REFIN & MARKTNG #4133** **LUST** **S100946396**
East **6125 BALBOA AV** **HIST CORTESE** **N/A**
1/4-1/2 **SAN DIEGO, CA 92111** **SAN DIEGO CO LOP**
0.394 mi.
2080 ft. **Site 1 of 3 in cluster M**

Relative:
Lower

Actual:
363 ft.

LUST:
Lead Agency: SAN DIEGO COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607300069
Global Id: T0607300069
Latitude: 32.819852
Longitude: -117.175778
Status: Completed - Case Closed
Status Date: 11/01/1994
Case Worker: Not reported
RB Case Number: 9UT1056
Local Agency: Not reported
File Location: Local Agency
Local Case Number: H13176-001
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

TEXACO REFIN & MARKTNG #4133 (Continued) **S100946396**

Global Id: T0607300069
Action Type: Other
Date: 07/21/1988
Action: Leak Reported

Global Id: T0607300069
Action Type: Other
Date: 07/21/1988
Action: Leak Began

Global Id: T0607300069
Action Type: Other
Date: 07/21/1988
Action: Leak Discovery

Global Id: T0607300069
Action Type: ENFORCEMENT
Date: 07/21/1988
Action: Notice of Responsibility

Global Id: T0607300069
Action Type: Other
Date: 07/21/1988
Action: Leak Stopped

LUST:
Global Id: T0607300069
Status: Completed - Case Closed
Status Date: 11/01/1994

Global Id: T0607300069
Status: Open - Case Begin Date
Status Date: 07/21/1988

Lead Agency: SAN DIEGO COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607393005
Global Id: T0607393005
Latitude: 32.819865
Longitude: -117.175761
Status: Completed - Case Closed
Status Date: 09/03/2014
Case Worker: JS
RB Case Number: Not reported
Local Agency: SAN DIEGO COUNTY LOP
File Location: Local Agency
Local Case Number: H13176-002
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: The Site is a former Texaco service station located on the southeast corner of Balboa Avenue and Mount Alifan Drive in San Diego. The Site is currently a Shell-Branded service station and consists of four dispensers, four underground storage tanks (USTs), a station building, and a detached carwash. In January 2002, during a routine Hazardous Material Division inspection, a sheen was observed on the water in the fill sumps. Water samples were collected from the fill

TEXACO REFIN & MARKTNG #4133 (Continued) **S100946396**

sumps and analyzed. Based on the laboratory results, the Department of Environmental Health (DEH) opened case H13176-002 on February 20, 2002. A brief summary of assessment and cleanup activities are presented below: Prior to case H13176-002 being opened, four monitoring wells were installed (P-1 through P-4) on September 3, 1997. These monitoring wells were later included in the groundwater monitoring and sampling program for this case; Between September 2004 and March 2012, three soil borings (SB-1, SB-3 and SB-4) were advanced and 11 monitoring wells (MW-01 through MW-11) were installed; On November 17, 2003, the product dispensers and piping were upgraded. On November 19, 2003, remedial excavation was conducted beneath dispenser D3 to a depth of 6 feet. SOIL Based on the analytical results from soil samples collected during the monitoring well installation, the soil boring advancement, and the product dispenser/piping upgrade activities, the consultant concludes that petroleum hydrocarbon impacted soil has been adequately defined and is limited to the Site. The consultant estimates that approximately 59 cubic yards of total petroleum hydrocarbon impacted soil greater than 100 milligrams per kilogram remains beneath the Site. GROUNDWATER The groundwater has been monitored and sampled between December 2004 and March 2013. A total of 15 monitoring wells were installed at the Site. Free product was not observed in the Sites monitoring well network. The consultant states that dissolved-phase concentrations of petroleum hydrocarbons and fuel oxygenates are decreasing or stable in all monitoring wells with the exception of TBA in MW-5. The consultant also states that dissolved-phase concentrations are below Water Quality Objectives for non-beneficial use basins. Based on the groundwater samples collected from the Sites monitoring well network, the consultant concludes that the dissolved-phase plume is adequately defined. A Corrective Action Plan (CAP) and CAP Addendum dated January 4, 2013 and July 19, 2013, respectively, was submitted to DEH. The CAP and CAP Addendum recommends No Further Action and Case Closure. Based on data obtained throughout the case history, Shell and their consultant concludes that Site conditions present no significant risk to human health, the environment, and nearby sensitive receptors. DEH concurs with these conclusions.

LUST:

Global Id:	T0607393005
Contact Type:	Local Agency Caseworker
Contact Name:	JON SENAHA
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	jon.senaha@sdcounty.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0607393005
Action Type:	RESPONSE
Date:	07/31/2012
Action:	Site Assessment Report - Regulator Responded
Global Id:	T0607393005
Action Type:	RESPONSE
Date:	01/04/2013

TEXACO REFIN & MARKTNG #4133 (Continued) **S100946396**

Action: Request for Closure - Regulator Responded

Global Id: T0607393005
Action Type: Other
Date: 01/11/2002
Action: Leak Reported

Global Id: T0607393005
Action Type: RESPONSE
Date: 10/29/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0607393005
Action Type: RESPONSE
Date: 07/19/2013
Action: Request for Closure - Regulator Responded

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 04/08/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607393005
Action Type: RESPONSE
Date: 04/25/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0607393005
Action Type: RESPONSE
Date: 09/11/2013
Action: Correspondence

Global Id: T0607393005
Action Type: RESPONSE
Date: 03/09/2009
Action: Other Workplan

Global Id: T0607393005
Action Type: RESPONSE
Date: 04/29/2009
Action: Monitoring Report - Quarterly

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 03/10/2010
Action: Letter - Notice

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 05/07/2010
Action: Notice of Responsibility

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 02/02/2012
Action: Technical Correspondence / Assistance / Other

TEXACO REFIN & MARKTNG #4133 (Continued) **S100946396**

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 04/17/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 09/05/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 10/23/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607393005
Action Type: RESPONSE
Date: 07/28/2009
Action: Monitoring Report - Quarterly

Global Id: T0607393005
Action Type: RESPONSE
Date: 04/29/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 07/10/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 09/03/2014
Action: Closure/No Further Action Letter

Global Id: T0607393005
Action Type: RESPONSE
Date: 10/29/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0607393005
Action Type: RESPONSE
Date: 01/20/2009
Action: Soil and Water Investigation Report

Global Id: T0607393005
Action Type: Other
Date: 01/11/2002
Action: Leak Began

Global Id: T0607393005
Action Type: RESPONSE
Date: 10/27/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607393005
Action Type: ENFORCEMENT

TEXACO REFIN & MARKTNG #4133 (Continued) **S100946396**

Date: 04/25/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 04/25/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607393005
Action Type: Other
Date: 01/11/2002
Action: Leak Discovery

Global Id: T0607393005
Action Type: RESPONSE
Date: 04/28/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607393005
Action Type: ENFORCEMENT
Date: 02/20/2002
Action: Notice of Responsibility

Global Id: T0607393005
Action Type: Other
Date: 01/11/2002
Action: Leak Stopped

Global Id: T0607393005
Action Type: RESPONSE
Date: 10/28/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607393005
Action Type: RESPONSE
Date: 04/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0607393005
Action Type: RESPONSE
Date: 07/29/2010
Action: Site Assessment Report - Regulator Responded

LUST:
Global Id: T0607393005
Status: Completed - Case Closed
Status Date: 09/03/2014

Global Id: T0607393005
Status: Open - Case Begin Date
Status Date: 01/11/2002

Global Id: T0607393005
Status: Open - Eligible for Closure
Status Date: 05/14/2013

Global Id: T0607393005

TEXACO REFIN & MARKTNG #4133 (Continued) **S100946396**

Status: Open - Remediation
Status Date: 07/13/2004

Global Id: T0607393005
Status: Open - Site Assessment
Status Date: 07/08/2009

Global Id: T0607393005
Status: Open - Site Assessment
Status Date: 05/14/2013

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1056

SAN DIEGO CO LOP:
Record ID: DEH1988-LSAM-H13176-001
Record Status: Completed
Opened Date: 07/21/1988
Parcel Number: 362-420-04-00
Case Type: LOP - Local Oversight Program
Historical Name: PRO-AUTO SERVICE EXXON
SWRCB Global ID: T0607300069
Funding: F - LOP Federal Fund
Lead Agency: DEH/SAM
Lead Agency Date: 07/21/1988
Census Tract: 85.09
Community: San Diego
Jurisdiction: SAN DIEGO
Watershed Basin Number: 906.5
Water Purveyor: SAN DIEGO
Fire Agency: SAN DIEGO
Thomas Bros Map Page Grid: 1248 H 3
Latitude: 32.8198585
Longitude: -117.1757624
X MapCoord: 6277253.862
Y MapCoord: 1879348.154

Record ID: DEH2002-LSAM-H13176-002
Record Status: Completed
Opened Date: 01/11/2002
Parcel Number: 362-420-04-00
Case Type: LOP - Local Oversight Program
Historical Name: TEXACO
SWRCB Global ID: T0607393005
Funding: S - LOP State Fund
Lead Agency: DEH/SAM
Lead Agency Date: 02/20/2002
Census Tract: 85.09
Community: San Diego
Jurisdiction: SAN DIEGO
Watershed Basin Number: 906.5
Water Purveyor: SAN DIEGO

TEXACO REFIN & MARKTNG #4133 (Continued) **S100946396**

Fire Agency:	SAN DIEGO
Thomas Bros Map Page Grid:	1248 H 3
Latitude:	32.8198585
Longitude:	-117.1757624
X MapCoord:	6277253.862
Y MapCoord:	1879348.154

M63 **P S VIDAKOVICH** **LUST S102429533**
East **6125 BALBOA AVE** **SWEEPS UST N/A**
1/4-1/2 **SAN DIEGO, CA 92117**
0.394 mi.
2080 ft. **Site 2 of 3 in cluster M**

Relative:
Lower

Actual:
363 ft.

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT1056
Local Case:	H13176-001
Substance:	Unleaded Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency:	San Diego
How Found:	Not reported
How Stopped:	Not reported
Source:	Not reported
Cause:	Not reported
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	07/21/1988
Date Stopped:	07/21/1988
Confirm Date:	07/21/1988
Submit Workplan:	Not reported
Prelim Assess:	09/08/1988
Desc Pollution:	12/28/92
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	4/26/93
Release Date:	09/08/1988
Enforce Date:	Not reported
Closed Date:	11/1/94
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	906.50
GW Depth:	12’
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	2B
File Dispn:	File discarded, case closed
Interim Remedial Actions:	No
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

SWEEPS UST:

Status:	Active
Comp Number:	13176
Number:	9

P S VIDAKOVICH (Continued) **S102429533**

Board Of Equalization: 44-000285
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-013176-000005
Tank Status: A
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 13176
Number: 9
Board Of Equalization: 44-000285
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-013176-000006
Tank Status: A
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 13176
Number: 9
Board Of Equalization: 44-000285
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-013176-000007
Tank Status: A
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 13176
Number: 9
Board Of Equalization: 44-000285
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-013176-000008

P S VIDAKOVICH (Continued) **S102429533**

Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	OTHER
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	13176
Number:	Not reported
Board Of Equalization:	44-000285
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-013176-000001
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	4

Status:	Not reported
Comp Number:	13176
Number:	Not reported
Board Of Equalization:	44-000285
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-013176-000002
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	13176
Number:	Not reported
Board Of Equalization:	44-000285
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-013176-000003
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED

P S VIDAKOVICH (Continued) **S102429533**

Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	13176
Number:	Not reported
Board Of Equalization:	44-000285
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-013176-000004
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

M64 **TEXACO REFIN & MARKTNG #4133** **SAN DIEGO CO. SAM** **S106875152**
East **6125 BALBOA AV** **N/A**
1/4-1/2 **SAN DIEGO, CA 92111**
0.394 mi.
2080 ft. **Site 3 of 3 in cluster M**

Relative: **Lower**
Actual: **363 ft.**

SAN DIEGO CO. SAM:

Case Number:	H13176-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Closed Case
Date:	11/1/1994
Date Began:	7/21/1988
Case Number:	H13176-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Remedial Investigation
Date:	7/13/2004
Date Began:	1/11/2002

L65 **AM/PM** **LUST** **S102424107**
East **6130 BALBOA AVE** **SWEEPS UST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92111**
0.400 mi.
2110 ft. **Site 5 of 7 in cluster L**

Relative: **Lower**
Actual: **363 ft.**

LUST REG 9:

Region:	9
Status:	Preliminary site assessment underway
Case Number:	9UT3064
Local Case:	H15189-001
Substance:	Unleaded Gasoline
Qty Leaked:	0
Abate Method:	Not reported

AM/PM (Continued) **S102424107**

Local Agency: San Diego
How Found: Inventory Control
How Stopped: Other Means
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 05/15/1995
Date Stopped: 05/15/1995
Confirm Date: / /
Submit Workplan: Not reported
Prelim Assess: 05/23/1995
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 05/15/1995
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 906.50
GW Depth: Not reported
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: High priority
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 15189
Number: 9
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-015189-000001
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 3

Status: Active
Comp Number: 15189
Number: 9
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported

AM/PM (Continued) **S102424107**

SWRCB Tank Id: 37-000-015189-000002
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 15189
Number: 9
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-015189-000003
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

L66 **AM/PM/ARCO #1986** **SAN DIEGO CO. SAM** **S105692373**
East **6130 BALBOA AVE** **SAN DIEGO CO LOP** **N/A**
1/4-1/2 **SAN DIEGO, CA 92111**
0.400 mi.
2110 ft. **Site 6 of 7 in cluster L**

Relative:
Lower

Actual:
363 ft.

SAN DIEGO CO. SAM:
Case Number: H15189-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Remedial Investigation
Date: 12/20/1995
Date Began: 12/1/1994

SAN DIEGO CO LOP:
Record ID: DEH1994-LSAM-H15189-001
Record Status: Open
Opened Date: 12/01/1994
Parcel Number: 362-420-03-00
Case Type: LOP - Local Oversight Program
Historical Name: ARCO 1986
SWRCB Global ID: T0607301828
Funding: S - LOP State Fund
Lead Agency: DEH/SAM
Lead Agency Date: 12/01/1994
Census Tract: 85.07
Community: San Diego
Jurisdiction: SAN DIEGO
Watershed Basin Number: 906.5
Water Purveyor: SAN DIEGO

AM/PM/ARCO #1986 (Continued) **S105692373**

Fire Agency:	SAN DIEGO
Thomas Bros Map Page Grid:	1248 H 2
Latitude:	32.8206197
Longitude:	-117.1756806
X MapCoord:	6277279.758
Y MapCoord:	1879629.022

L67 **TESORO #42044** **LUST** **S104748423**
East **6130 BALBOA AVE** **San Diego Co. HMMD** **N/A**
1/4-1/2 **SAN DIEGO, CA 92111** **EMI**
0.400 mi. **HAZNET**
2110 ft. **Site 7 of 7 in cluster L** **HIST CORTESE**

Relative:
Lower

Actual:
363 ft.

LUST:

Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607301828
Global Id:	T0607301828
Latitude:	32.82062425956
Longitude:	-117.175701608598
Status:	Open - Remediation
Status Date:	12/20/1995
Case Worker:	EP
RB Case Number:	9UT3064
Local Agency:	SAN DIEGO COUNTY LOP
File Location:	Local Agency
Local Case Number:	H15189-001
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Contamination was discovered on this site in 1993 and subsequently a case was opened to evaluate and assess the level of contamination. Free product removal has been ongoing with the site assessment. Additional groundwater monitoring wells are to be installed to help delineate the contamination on site. Please see the Environmental Data tab for additional site specific information.

LUST:

Global Id:	T0607301828
Contact Type:	Local Agency Caseworker
Contact Name:	ED PAREDES
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	SAN DIEGO
Email:	ed.paredes@sdcounty.ca.gov
Phone Number:	8585056806

LUST:

Global Id:	T0607301828
Action Type:	RESPONSE
Date:	07/30/2012
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607301828
Action Type:	RESPONSE
Date:	07/30/2018
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607301828

TESORO #42044 (Continued) **S104748423**

Action Type: RESPONSE
Date: 07/30/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 07/16/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301828
Action Type: Other
Date: 12/01/1994
Action: Leak Reported

Global Id: T0607301828
Action Type: RESPONSE
Date: 06/09/2015
Action: Soil Vapor Intrusion Investigation Workplan - Regulator Responded

Global Id: T0607301828
Action Type: RESPONSE
Date: 03/10/2015
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 03/04/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 11/16/2016
Action: Email Correspondence

Global Id: T0607301828
Action Type: RESPONSE
Date: 01/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 07/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 12/24/2015
Action: Site Assessment Report - Regulator Responded

Global Id: T0607301828
Action Type: RESPONSE
Date: 09/20/2016
Action: Correspondence - Regulator Responded

Global Id: T0607301828
Action Type: RESPONSE
Date: 09/30/2016

TESORO #42044 (Continued) **S104748423**

Action: Other Report / Document - Regulator Responded

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 07/15/2009
Action: Letter - Notice

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 11/17/2016
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301828
Action Type: RESPONSE
Date: 01/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 04/26/2018
Action: CAP/RAP - Other Report - Regulator Responded

Global Id: T0607301828
Action Type: REMEDIATION
Date: 11/13/1998
Action: Free Product Removal

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 06/10/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 05/26/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 02/07/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 06/26/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301828
Action Type: RESPONSE
Date: 10/30/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 11/22/2013
Action: Technical Correspondence / Assistance / Other

TESORO #42044 (Continued) **S104748423**

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 06/30/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 03/18/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 08/17/2018
Action: Technical Correspondence / Assistance / Other

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 08/22/2018
Action: Email Correspondence

Global Id: T0607301828
Action Type: RESPONSE
Date: 04/27/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 01/30/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 07/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 07/30/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: Other
Date: 12/01/1994
Action: Leak Began

Global Id: T0607301828
Action Type: RESPONSE
Date: 01/30/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: Other
Date: 12/01/1994
Action: Leak Discovery

Global Id: T0607301828
Action Type: RESPONSE

TESORO #42044 (Continued) **S104748423**

Date: 04/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 10/12/2010
Action: Other Report / Document

Global Id: T0607301828
Action Type: RESPONSE
Date: 10/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 01/30/2018
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 05/23/1995
Action: Notice of Responsibility

Global Id: T0607301828
Action Type: Other
Date: 12/01/1994
Action: Leak Stopped

Global Id: T0607301828
Action Type: RESPONSE
Date: 01/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 11/04/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0607301828
Action Type: RESPONSE
Date: 12/12/2011
Action: Other Report / Document - Regulator Responded

Global Id: T0607301828
Action Type: RESPONSE
Date: 04/12/2012
Action: Other Report / Document - Regulator Responded

Global Id: T0607301828
Action Type: ENFORCEMENT
Date: 11/02/2010
Action: Technical Correspondence / Assistance / Other

TESORO #42044 (Continued) **S104748423**

LUST:
Global Id: T0607301828
Status: Open - Case Begin Date
Status Date: 12/01/1994

Global Id: T0607301828
Status: Open - Remediation
Status Date: 12/20/1995

HMMD SAN DIEGO:
Permit Number: 115189
Business Type: 6HK28
EPA Id Number: CAL000225448
APN: 362-420-03-00
Last HMMD Inspection: 06/08/2012
Facility Telephone: 858-292-0991
Permit Status: OPEN
Permit Expiration: 01/31/2013
Date Last Updated: 11/02/2012
Facility Owner: BP WEST COAST PRODUCTS LLC
Facility Mailing Address: PO BOX 6038
Facility Mailing City: ARTESIA
Facility Mailing State: CA
Facility Mailing Zip: 90702-6038
UST Owner: BP WEST COAST PRODUCTS LLC
Handle Regulated Hazmat: Y
Own Or Operate UST: Y
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 115189
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: REGULAR UNLEADED
Other Information: UNDERGROUND TANK 115189 T004
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 115189
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: SUPER UNLEADED
Other Information: UNDERGROUND TANK 115189 T005
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 115189
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 134 AQUEOUS SOL'N W/LESS 10% ORG
Other Information: TEST WATER

TESORO #42044 (Continued) **S104748423**

Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 115189
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: USED FUEL FILTERS & ABSORBENT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 115189
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: WASTE GASOLINE-WATER MIX
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 115189
Update Date: 11/02/2012
Inspection Date: 06/24/2004
Violation Code: 6HV3262
Violation: SEC CONT PIPING DRAINAGE OBSTRUCTED
Violation Citation: Secondary containment piping obstructed preventing drainage to sump. 2632
Activity: ACTIVE

UST:
UST Name: UNDERGROUND TANK 115189 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: SINGLE WALL
Additional Id: NT2254
Capacity Gallons: 12000
UST Contents: LEADED
Other Content Info: LEADED
Reg Status: REMOVED
Remove Close Date: 2001-06-03 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: PRESSURE
Monitor Code: 02
UST Monitor Method: SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name: UNDERGROUND TANK 115189 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: SINGLE WALL
Additional Id: NT2254
Capacity Gallons: 12000

TESORO #42044 (Continued) **S104748423**

UST Contents:	MIDGRADE UNLEADED
Other Content Info:	MIDGRADE UNLEADED
Reg Status:	REMOVED
Remove Close Date:	2001-06-03 00:00:00
Year Installed:	1981-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	PRESSURE
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 115189 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	115189
Tank Type:	SINGLE WALL
Additional Id:	NT2254
Capacity Gallons:	12000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	2001-06-03 00:00:00
Year Installed:	1981-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	PRESSURE
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 115189 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	115189
Tank Type:	DOUBLE WALL
Additional Id:	NT2254, RT2791,RT4231
Capacity Gallons:	20000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2001-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF
UST Name:	UNDERGROUND TANK 115189 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	115189
Tank Type:	DOUBLE WALL
Additional Id:	NT2254, RT2791,RT4231
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2001-01-01 00:00:00
Pipe Type:	DOUBLE WALL

TESORO #42044 (Continued) **S104748423**

Delivery System: PRESSURE
Monitor Code: 31A
UST Monitor Method: DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

Permit Number: 115189
Business Type: 6HK28
EPA Id Number: CAL000225448
APN: 362-420-03-00
Last HMMD Inspection: 06/08/2012
Facility Telephone: 858-292-0991
Permit Status: OPEN
Permit Expiration: 01/31/2013
Date Last Updated: 11/02/2012
Facility Owner: BP WEST COAST PRODUCTS LLC
Facility Mailing Address: PO BOX 6038
Facility Mailing City: ARTESIA
Facility Mailing State: CA
Facility Mailing Zip: 90702-6038
UST Owner: BP WEST COAST PRODUCTS LLC
Handle Regulated Hazmat: Y
Own Or Operate UST: Y
Subject To APSA: Not reported
Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 115189
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: REGULAR UNLEADED
Other Information: UNDERGROUND TANK 115189 T004
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 115189
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: SUPER UNLEADED
Other Information: UNDERGROUND TANK 115189 T005
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 115189
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 134 AQUEOUS SOL'N W/LESS 10% ORG
Other Information: TEST WATER
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 115189
Update Date: 11/02/2012

TESORO #42044 (Continued) **S104748423**

Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: USED FUEL FILTERS & ABSORBENT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 115189
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: WASTE GASOLINE-WATER MIX
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 115189
Update Date: 11/02/2012
Inspection Date: 06/24/2004
Violation Code: 6HV3262
Violation: SEC CONT PIPING DRAINAGE OBSTRUCTED
Violation Citation: Secondary containment piping obstructed preventing drainage to sump. 2632
Activity: ACTIVE

UST:
UST Name: UNDERGROUND TANK 115189 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: SINGLE WALL
Additional Id: NT2254
Capacity Gallons: 12000
UST Contents: LEADED
Other Content Info: LEADED
Reg Status: REMOVED
Remove Close Date: 2001-06-03 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: PRESSURE
Monitor Code: 02
UST Monitor Method: SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name: UNDERGROUND TANK 115189 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: SINGLE WALL
Additional Id: NT2254
Capacity Gallons: 12000
UST Contents: MIDGRADE UNLEADED
Other Content Info: MIDGRADE UNLEADED
Reg Status: REMOVED
Remove Close Date: 2001-06-03 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: SINGLE WALL

TESORO #42044 (Continued) **S104748423**

Delivery System: PRESSURE
Monitor Code: 02
UST Monitor Method: SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name: UNDERGROUND TANK 115189 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: SINGLE WALL
Additional Id: NT2254
Capacity Gallons: 12000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 2001-06-03 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: PRESSURE
Monitor Code: 02
UST Monitor Method: SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name: UNDERGROUND TANK 115189 T004
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: DOUBLE WALL
Additional Id: NT2254, RT2791,RT4231
Capacity Gallons: 20000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: ACTIVE
Remove Close Date: Not reported
Year Installed: 2001-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: PRESSURE
Monitor Code: 31A
UST Monitor Method: DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

UST Name: UNDERGROUND TANK 115189 T005
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: DOUBLE WALL
Additional Id: NT2254, RT2791,RT4231
Capacity Gallons: 12000
UST Contents: PREMIUM UNLEADED
Other Content Info: PREMIUM UNLEADED
Reg Status: ACTIVE
Remove Close Date: Not reported
Year Installed: 2001-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: PRESSURE
Monitor Code: 31A
UST Monitor Method: DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

TESORO #42044 (Continued) **S104748423**

Permit Number:	115189
Business Type:	6HK28
EPA Id Number:	CAL000225448
APN:	362-420-03-00
Last HMMD Inspection:	06/08/2012
Facility Telephone:	858-292-0991
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	BP WEST COAST PRODUCTS LLC
Facility Mailing Address:	PO BOX 6038
Facility Mailing City:	ARTESIA
Facility Mailing State:	CA
Facility Mailing Zip:	90702-6038
UST Owner:	BP WEST COAST PRODUCTS LLC
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	115189
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	REGULAR UNLEADED
Other Information:	UNDERGROUND TANK 115189 T004
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	115189
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	SUPER UNLEADED
Other Information:	UNDERGROUND TANK 115189 T005
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	115189
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 134 AQUEOUS SOL'N W/LESS 10% ORG
Other Information:	TEST WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	115189
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	USED FUEL FILTERS & ABSORBENT
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

TESORO #42044 (Continued) **S104748423**

Permit Number: 115189
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: WASTE GASOLINE-WATER MIX
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 115189
Update Date: 11/02/2012
Inspection Date: 06/24/2004
Violation Code: 6HV3262
Violation: SEC CONT PIPING DRAINAGE OBSTRUCTED
Violation Citation: Secondary containment piping obstructed preventing drainage to sump. 2632
Activity: ACTIVE

UST:
UST Name: UNDERGROUND TANK 115189 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: SINGLE WALL
Additional Id: NT2254
Capacity Gallons: 12000
UST Contents: LEADED
Other Content Info: LEADED
Reg Status: REMOVED
Remove Close Date: 2001-06-03 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: PRESSURE
Monitor Code: 02
UST Monitor Method: SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name: UNDERGROUND TANK 115189 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: SINGLE WALL
Additional Id: NT2254
Capacity Gallons: 12000
UST Contents: MIDGRADE UNLEADED
Other Content Info: MIDGRADE UNLEADED
Reg Status: REMOVED
Remove Close Date: 2001-06-03 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: PRESSURE
Monitor Code: 02
UST Monitor Method: SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name: UNDERGROUND TANK 115189 T003
Last Update: 2012-11-02 14:17:38

TESORO #42044 (Continued) **S104748423**

Permit Number:	115189
Tank Type:	SINGLE WALL
Additional Id:	NT2254
Capacity Gallons:	12000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	2001-06-03 00:00:00
Year Installed:	1981-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	PRESSURE
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 115189 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	115189
Tank Type:	DOUBLE WALL
Additional Id:	NT2254, RT2791,RT4231
Capacity Gallons:	20000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2001-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

UST Name:	UNDERGROUND TANK 115189 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	115189
Tank Type:	DOUBLE WALL
Additional Id:	NT2254, RT2791,RT4231
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2001-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

Permit Number:	115189
Business Type:	6HK28
EPA Id Number:	CAL000225448
APN:	362-420-03-00
Last HMMD Inspection:	06/08/2012
Facility Telephone:	858-292-0991
Permit Status:	OPEN

TESORO #42044 (Continued) **S104748423**

Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	BP WEST COAST PRODUCTS LLC
Facility Mailing Address:	PO BOX 6038
Facility Mailing City:	ARTESIA
Facility Mailing State:	CA
Facility Mailing Zip:	90702-6038
UST Owner:	BP WEST COAST PRODUCTS LLC
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	115189
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	REGULAR UNLEADED
Other Information:	UNDERGROUND TANK 115189 T004
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	115189
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	SUPER UNLEADED
Other Information:	UNDERGROUND TANK 115189 T005
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	115189
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 134 AQUEOUS SOL'N W/LESS 10% ORG
Other Information:	TEST WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	115189
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	USED FUEL FILTERS & ABSORBENT
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	115189
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	WASTE GASOLINE-WATER MIX
Material Waste:	Waste

TESORO #42044 (Continued) **S104748423**

Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 115189
Update Date: 11/02/2012
Inspection Date: 06/24/2004
Violation Code: 6HV3262
Violation: SEC CONT PIPING DRAINAGE OBSTRUCTED
Violation Citation: Secondary containment piping obstructed preventing drainage to sump. 2632
Activity: ACTIVE

UST:
UST Name: UNDERGROUND TANK 115189 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: SINGLE WALL
Additional Id: NT2254
Capacity Gallons: 12000
UST Contents: LEADED
Other Content Info: LEADED
Reg Status: REMOVED
Remove Close Date: 2001-06-03 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: PRESSURE
Monitor Code: 02
UST Monitor Method: SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name: UNDERGROUND TANK 115189 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: SINGLE WALL
Additional Id: NT2254
Capacity Gallons: 12000
UST Contents: MIDGRADE UNLEADED
Other Content Info: MIDGRADE UNLEADED
Reg Status: REMOVED
Remove Close Date: 2001-06-03 00:00:00
Year Installed: 1981-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: PRESSURE
Monitor Code: 02
UST Monitor Method: SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY

UST Name: UNDERGROUND TANK 115189 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 115189
Tank Type: SINGLE WALL
Additional Id: NT2254
Capacity Gallons: 12000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED

TESORO #42044 (Continued) **S104748423**

Reg Status:	REMOVED
Remove Close Date:	2001-06-03 00:00:00
Year Installed:	1981-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	PRESSURE
Monitor Code:	02
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/ RESTRICTIVE LLD W/ SIRS: SIR DATA ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 115189 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	115189
Tank Type:	DOUBLE WALL
Additional Id:	NT2254, RT2791,RT4231
Capacity Gallons:	20000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2001-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF
UST Name:	UNDERGROUND TANK 115189 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	115189
Tank Type:	DOUBLE WALL
Additional Id:	NT2254, RT2791,RT4231
Capacity Gallons:	12000
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2001-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31A
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ POSITIVE SHUT-OFF

EMI:

Year:	2006
County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.66
Reactive Organic Gases Tons/Yr:	2.66
Carbon Monoxide Emissions Tons/Yr:	0

TESORO #42044 (Continued) **S104748423**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2007
County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.66
Reactive Organic Gases Tons/Yr:	2.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2008
County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.66
Reactive Organic Gases Tons/Yr:	2.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2009
County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.6600000000000001
Reactive Organic Gases Tons/Yr:	2.6600000000000001
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2010

TESORO #42044 (Continued) **S104748423**

County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.6600000000000001
Reactive Organic Gases Tons/Yr:	2.6600000000000001
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2011
County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.66
Reactive Organic Gases Tons/Yr:	2.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2012
County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.66
Reactive Organic Gases Tons/Yr:	2.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2013
County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD

TESORO #42044 (Continued) **S104748423**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.66
Reactive Organic Gases Tons/Yr:	2.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2014
County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.66
Reactive Organic Gases Tons/Yr:	2.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2015
County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.66
Reactive Organic Gases Tons/Yr:	2.66
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2016
County Code:	37
Air Basin:	SD
Facility ID:	3821
Air District Name:	SD
SIC Code:	5541
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.66
Reactive Organic Gases Tons/Yr:	2.66
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported

TESORO #42044 (Continued) **S104748423**

SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr: Not reported

HAZNET:

Facility Name:	TESORO ARCO 42044
envid:	S104748423
Year:	2017
GEPAID:	CAL000385586
Contact:	BRENDA RAMIREZ
Telephone:	2106265153
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	San Diego
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.0875
Cat Decode:	Other organic solids
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	San Diego

envid:	S104748423
Year:	2017
GEPAID:	CAL000385586
Contact:	BRENDA RAMIREZ
Telephone:	2106265153
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	San Diego
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.0875
Cat Decode:	Other organic solids
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	San Diego

envid:	S104748423
Year:	2017
GEPAID:	CAL000385586
Contact:	BRENDA RAMIREZ
Telephone:	2106265153
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	San Diego
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles

TESORO #42044 (Continued) **S104748423**

Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.0546
Cat Decode:	Aqueous solution with total organic residues less than 10 percent
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	San Diego

envid:	S104748423
Year:	2017
GEPAID:	CAL000385586
Contact:	BRENDA RAMIREZ
Telephone:	2106265153
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	San Diego
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.0546
Cat Decode:	Aqueous solution with total organic residues less than 10 percent
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	San Diego

envid:	S104748423
Year:	2016
GEPAID:	CAL000385586
Contact:	JAMES BECK
Telephone:	5624956814
Mailing Name:	Not reported
Mailing Address:	19100 RIDGEWOOD PKWY
Mailing City,St,Zip:	SAN ANTONIO, TX 782590000
Gen County:	San Diego
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.06
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Diego

Click this hyperlink while viewing on your computer to access
15 additional CA_HAZNET: record(s) in the EDR Site Report.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT3064

N68 **SAN DIEGO TSPS-MESA** **LUST S102436325**
ENE **5690 BALBOA ARMS DR** **SWEEPS UST N/A**
1/4-1/2 **SAN DIEGO, CA 92117**
0.403 mi.
2126 ft. **Site 1 of 3 in cluster N**

Relative: Higher

Actual: 366 ft.

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT1388
Local Case:	H21082-002
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Not reported
Cause:	Not reported
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	04/05/1989
Date Stopped:	04/05/1989
Confirm Date:	04/05/1989
Submit Workplan:	Not reported
Prelim Assess:	06/06/1989
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	4/18/90
Began Monitor:	Not reported
Release Date:	06/06/1989
Enforce Date:	Not reported
Closed Date:	10/6/90
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	Not reported
GW Depth:	Not reported
Beneficial Use:	Not reported
NPDES Number:	Not reported
Priority:	Low priority. Priority ranking can change over time.
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

SWEEPS UST:

Status:	Active
Comp Number:	21082
Number:	9
Board Of Equalization:	44-023423
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported

SAN DIEGO TSPS-MESA (Continued) **S102436325**

Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	21082
Number:	Not reported
Board Of Equalization:	44-023423
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-021082-000001
Tank Status:	Not reported
Capacity:	3000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	1

N69 **AT&T SAN DIEGO OSPS MESA** **LUST S108196512**
ENE **5690 BALBOA ARMS DR** **CPS-SLIC N/A**
1/4-1/2 **SAN DIEGO, CA 92117**
0.403 mi.
2126 ft. **Site 2 of 3 in cluster N**

Relative:
Higher

Actual:
366 ft.

LUST:

Lead Agency:	SAN DIEGO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607300228
Global Id:	T0607300228
Latitude:	32.8220914
Longitude:	-117.176668
Status:	Completed - Case Closed
Status Date:	10/31/1990
Case Worker:	Not reported
RB Case Number:	9UT1388
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	H21082-002
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0607300228
Action Type:	Other
Date:	04/05/1989
Action:	Leak Reported
Global Id:	T0607300228
Action Type:	Other
Date:	04/05/1989
Action:	Leak Began
Global Id:	T0607300228

AT&T SAN DIEGO OSPS MESA (Continued) **S108196512**

Action Type: Other
Date: 04/05/1989
Action: Leak Discovery

Global Id: T0607300228
Action Type: Other
Date: 04/05/1989
Action: Leak Stopped

LUST:
Global Id: T0607300228
Status: Completed - Case Closed
Status Date: 10/31/1990

Global Id: T0607300228
Status: Open - Case Begin Date
Status Date: 04/05/1989

CPS-SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 08/08/1991
Global Id: T0608143715
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H21082-001
Latitude: 32.822658
Longitude: -117.176396
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

N70 **AT&T SAN DIEGO OSPS MESA** **SAN DIEGO CO. SAM** **U003938288**
ENE **5690 BALBOA ARMS DR** **UST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92117** **SAN DIEGO CO LOP**
0.403 mi.
2126 ft. **Site 3 of 3 in cluster N**

Relative:
Higher

Actual:
366 ft.

SAN DIEGO CO. SAM:
Case Number: H21082-001
Agency: DEH Site Assessment & Mitigation
Funding: **Non Billable**
Facility Type: Failed Integrity Test
Facility Status: Closed Case
Date: 8/8/1991
Date Began: 9/7/1988

Case Number: H21082-002
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**

AT&T SAN DIEGO OSPS MESA (Continued) **U003938288**

Facility Type: Soils Only
Facility Status: Closed Case
Date: 10/31/1990
Date Began: 4/5/1989

UST:
Facility ID: H21082
Permitting Agency: SAN DIEGO COUNTY
Latitude: 32.8235787
Longitude: -117.1754475

SAN DIEGO CO LOP:
Record ID: DEH1989-LSAM-H21082-002
Record Status: Completed
Opened Date: 04/05/1989
Parcel Number: 361-261-17-00
Case Type: LOP - Local Oversight Program
Historical Name: SAN DIEGO TSPS-MESA
SWRCB Global ID: T0607300228
Funding: S - LOP State Fund
Lead Agency: DEH/SAM
Lead Agency Date: 04/05/1989
Census Tract: 85.07
Community: Not reported
Jurisdiction: Not reported
Watershed Basin Number: 906.50
Water Purveyor: Not reported
Fire Agency: Not reported
Thomas Bros Map Page Grid: 1248 H 2
Latitude: Not reported
Longitude: Not reported
X MapCoord: Not reported
Y MapCoord: Not reported

Record ID: DEH1988-LSAM-H21082-001
Record Status: Completed
Opened Date: 09/07/1988
Parcel Number: 361-261-17-00
Case Type: Not reported
Historical Name: SAN DIEGO TSPS-MESA
SWRCB Global ID: T0608143715
Funding: N - Non-Billable
Lead Agency: DEH/SAM
Lead Agency Date: 09/07/1988
Census Tract: 85.07
Community: Not reported
Jurisdiction: Not reported
Watershed Basin Number: 906.50
Water Purveyor: Not reported
Fire Agency: Not reported
Thomas Bros Map Page Grid: 1248 H 2
Latitude: Not reported
Longitude: Not reported
X MapCoord: Not reported
Y MapCoord: Not reported

71 NNE 1/2-1 0.529 mi. 2792 ft. **ROSEDALE FIELD & BOMBING TARGET**
SAN DIEGO
SAN DIEGO, CA 92126

ENVIROSTOR **S108974289**
N/A

Relative: Higher

Actual: 376 ft.

ENVIROSTOR:

Facility ID:	80001221
Status:	Inactive - Action Required
Status Date:	08/15/2018
Site Code:	401415
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	641
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Daniel Cordero
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	77
Senate:	39
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	MMRP
Latitude:	32.82787
Longitude:	-117.1794
APN:	NONE SPECIFIED
Past Use:	FIRING RANGE - ARTILLERY
Potential COC:	Explosives (UXO, MEC Munitions Debris (MD
Confirmed COC:	30011-NO Munitions Debris (MD
Potential Description:	SOIL
Alias Name:	J09CA104500
Alias Type:	Former Project ID
Alias Name:	401415
Alias Type:	Project Code (Site Code)
Alias Name:	80001221
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date:	06/24/2008
Comments:	Final document incorporates DTSCs comment. Document approved.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Site Inspection (SI) Workplan
Completed Date:	07/02/2009
Comments:	Final Site specific work plan addendum submitted.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date:	01/21/2010
Comments:	DTSC comments included in final document.
Future Area Name:	Not reported

ROSEDALE FIELD & BOMBING TARGET (Continued) **S108974289**

Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

72
North
1/2-1
0.662 mi.
3495 ft.

4955 ACUNA ST
SAN DIEGO, CA 92117

Notify 65 **S100178043**
N/A

Relative:
Lower

Actual:
354 ft.

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

O73
ENE
1/2-1
0.785 mi.
4144 ft.

ROSEDALE BOMBING TARGET
SAN DIEGO, CA
Site 1 of 4 in cluster O

UXO **1018150593**
N/A

Relative:
Higher

Actual:
383 ft.

UXO:

DoD Component:	FUDS
Installation Name:	ROSEDALE FIELD AND BOMBING TARGET
Facility Address 2:	Not reported
Site ID:	01OEW
Site Type:	Air to Land
Latitude:	32.825000
Longitude:	-117.170278

O74
ENE
1/2-1
0.785 mi.
4144 ft.

ROSEDALE FIELD AND BOMBING TARGET
SAN DIEGO, CA
Site 2 of 4 in cluster O

FUDS **1007372680**
N/A

Relative:
Higher

Actual:
383 ft.

FUDS:

EPA Region:	09
Congressional District:	52
FUDS Number:	J09CA1045
State:	CA
Facility Name:	ROSEDALE FIELD AND BOMBING TARGET
Fiscal Year:	2013
City:	SAN DIEGO
Federal Facility ID:	CA9799F5940
Telephone:	213-452-3920

ROSEDALE FIELD AND BOMBING TARGET (Continued) **1007372680**

INST ID:	61320
County:	SAN DIEGO
RAB:	Not reported
CORPS_DIST:	Los Angeles District (SPL)
NPL Status:	Not Listed
CTC:	3134.8000000000002
Current Owner:	Local Government
Future Prog:	Not reported
Description:	160 ACRES
Current Program:	Not reported
History:	LANDING FIELD / PRACTICE BOMBING TARGET
Latitude Degree:	32
Latitude Minute:	50
Latitude Second:	30
Latitude Direction:	N
Longitude Degree:	-117
Longitude Minute:	10
Longitude Second:	13
Longitude Direction:	E

FUDS:

Inst ID:	61320
FUDS Number:	J09CA1045
Facility Name:	ROSEDALE FIELD AND BOMBING TARGET
PHASE:	4
ARC:	Y
DIST:	SPL
MMRP:	Y
MRA ID:	J09CA104501R01

FUDS:

Inst ID:	61320
FUDS Number:	J09CA1045
Facility Name:	ROSEDALE FIELD AND BOMBING TARGET
PHASE:	4
Site ID:	01
DIST:	SPL
MMRP:	Y
MRA ID:	J09CA104501R01
PROJ NO:	J09CA104501

O75 **ROSEDALE AIRPORT** **ENVIROSTOR** **S107737171**
ENE **N/A**
1/2-1 **SAN DIEGO, CA**
0.789 mi.
4165 ft. **Site 3 of 4 in cluster O**

Relative: Higher

Actual: 383 ft.

ENVIROSTOR:

Facility ID:	80000912
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP

ROSEDALE AIRPORT (Continued) **S107737171**

Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	77
Senate:	39
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	32.825
Longitude:	-117.1702
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799FA05400
Alias Type:	Federal Facility ID
Alias Name:	J09CA7231
Alias Type:	INPR
Alias Name:	80000912
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	06/18/1998
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

O76 **LINDA VIST MES FIELD BOMB** **ENVIROSTOR** **S109548215**
ENE **N/A**
1/2-1 **SAN DIEGO, CA**
0.789 mi.
4165 ft. **Site 4 of 4 in cluster O**

Relative:
Higher

Actual:
383 ft.

ENVIROSTOR:

Facility ID:	80000647
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP

LINDA VIST MES FIELD BOMB (Continued) **S109548215**

Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 77
Senate: 39
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 32.825
Longitude: -117.1702
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: Explosives (UXO, MEC
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F594000
Alias Type: Federal Facility ID
Alias Name: J09CA1045
Alias Type: INPR
Alias Name: 80000647
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SAN DIEGO	S108406989	CHILCOTE	BALBOA & MORE SW COR	92117	SAN DIEGO CO. SAM

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 43

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/20/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 69

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/18/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 09/28/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 44

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018
Date Data Arrived at EDR: 09/21/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 49

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 51

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/22/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/31/2018
Date Data Arrived at EDR: 09/25/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/26/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 36

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018
Date Data Arrived at EDR: 10/11/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 57

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/03/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/03/2018
Date Made Active in Reports: 11/09/2018
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/03/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2018
Date Data Arrived at EDR: 10/30/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/22/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/12/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018
Date Data Arrived at EDR: 08/29/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018
Date Data Arrived at EDR: 09/05/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 06/19/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 87

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 44

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/20/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 69

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 08/28/2018
Date Data Arrived at EDR: 08/30/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 63

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/26/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/30/2018
Date Data Arrived at EDR: 09/27/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/13/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 42

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 27

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/19/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/18/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/11/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/19/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/19/2018
Date Data Arrived at EDR: 11/19/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/09/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/08/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/09/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/19/2018
Number of Days to Update: 29
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 37

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/04/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 10/05/2018
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 23

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 27

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/31/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/21/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 46

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 08/16/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 8

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 27

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 11/02/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 37

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/21/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 15

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 22

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206
Source: N/A
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/20/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 35
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/15/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 13
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/15/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 10/16/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 31
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 11/27/2018
Date Made Active in Reports: 12/12/2018
Number of Days to Update: 15

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 01/14/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 12/07/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/24/2019
Number of Days to Update: 44

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/29/2018
Date Data Arrived at EDR: 11/01/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 15

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/27/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/06/2018
Date Data Arrived at EDR: 11/08/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 6

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 29

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/04/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/05/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 10/16/2018
Number of Days to Update: 4

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 10/12/2018
Date Made Active in Reports: 11/05/2018
Number of Days to Update: 24

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/17/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/03/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/01/2018
Number of Days to Update: 30

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/04/2019
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/23/2018
Date Data Arrived at EDR: 10/02/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 31

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/28/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/28/2018
Date Data Arrived at EDR: 11/30/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 42

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/05/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 37

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/05/2018
Next Scheduled EDR Contact: 03/18/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 04/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/15/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 28

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/23/2019
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/16/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 10
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/19/2018
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 12/13/2018
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 09/18/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/25/2018
Number of Days to Update: 35

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/17/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/25/2018
Date Data Arrived at EDR: 10/25/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 36
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/22/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/26/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 35
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/26/2018
Next Scheduled EDR Contact: 04/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/07/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 7
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/12/2018
Date Data Arrived at EDR: 11/14/2018
Date Made Active in Reports: 12/04/2018
Number of Days to Update: 20
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/07/2019
Next Scheduled EDR Contact: 04/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/30/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2019
Next Scheduled EDR Contact: 04/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/07/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

5225 MT. ETNA DR.
5225 MT. ETNA DR.
SAN DIEGO, CA 92117

TARGET PROPERTY COORDINATES

Latitude (North):	32.820295 - 32° 49' 13.06''
Longitude (West):	117.183697 - 117° 11' 1.31''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	482804.7
UTM Y (Meters):	3631189.5
Elevation:	366 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5622824 LA JOLLA, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

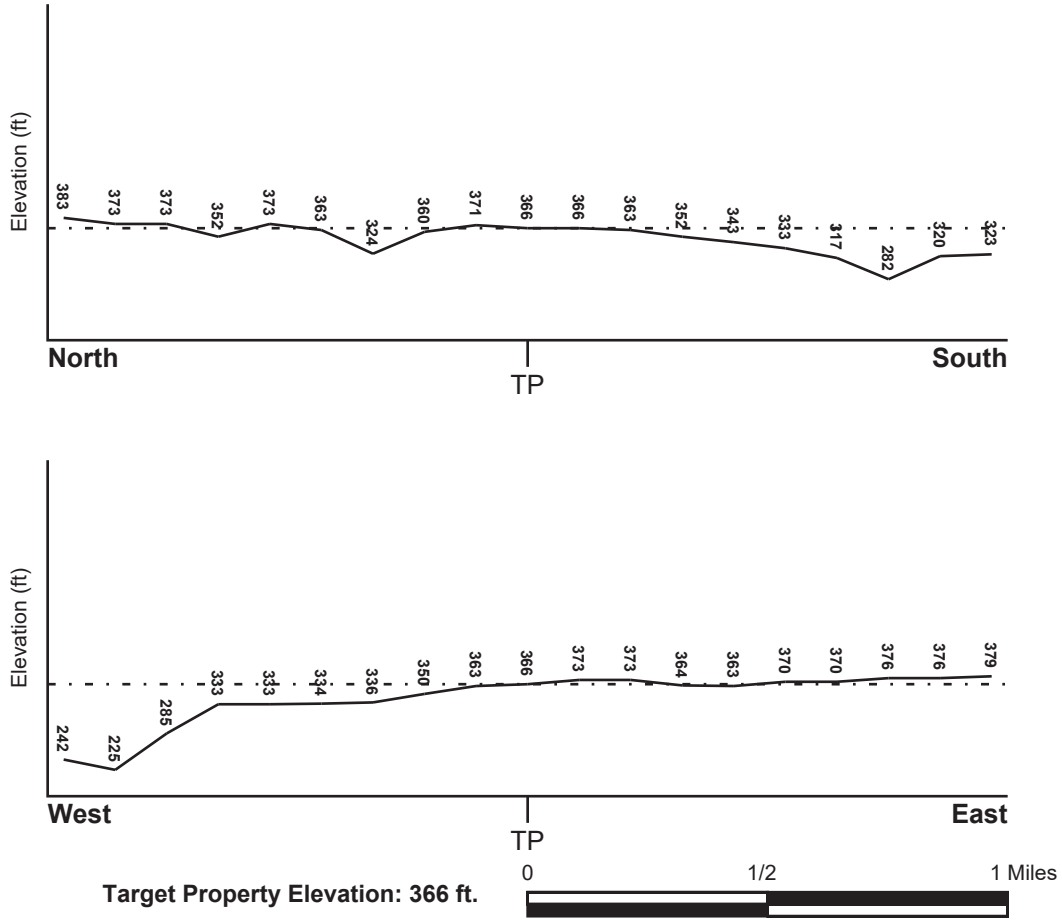
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06073C1608G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06073C1604G	FEMA FIRM Flood data
06073C1612G	FEMA FIRM Flood data
06073C1616G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LA JOLLA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/4 - 1/2 Mile East	SW
1G	1/4 - 1/2 Mile East	SW

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

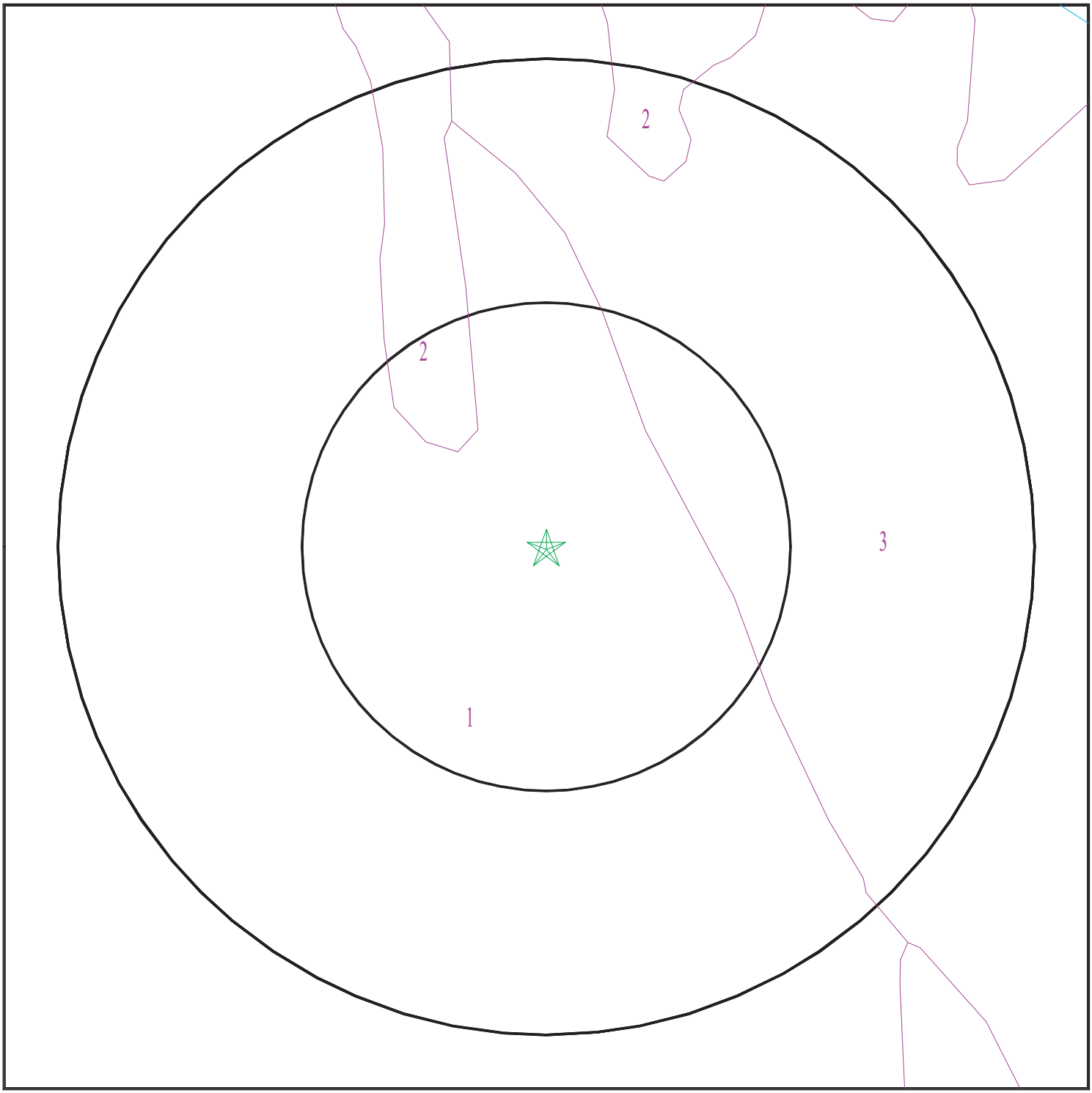
Era:	Cenozoic
System:	Tertiary
Series:	Eocene
Code:	Te *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5578947.2s



Target Property
SSURGO Soil
Water

SITE NAME:	5225 Mt. Etna Dr.	CLIENT:	Ninyo & Moore
ADDRESS:	5225 Mt. Etna Dr. San Diego CA 92117	CONTACT:	Adrian Olivares
		INQUIRY #:	5578947.2s
LAT/LONG:	32.820295 / 117.183697	DATE:	March 04, 2019 4:10 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: CHESTERTON

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	18 inches	33 inches	sandy clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	33 inches	59 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: CARLSBAD

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	20 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: Min:	Max: Min:
2	20 inches	38 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: Min:	Max: Min:
3	38 inches	50 inches	indurated	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3

Soil Component Name: CHESTERTON

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	18 inches	33 inches	sandy clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	33 inches	59 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

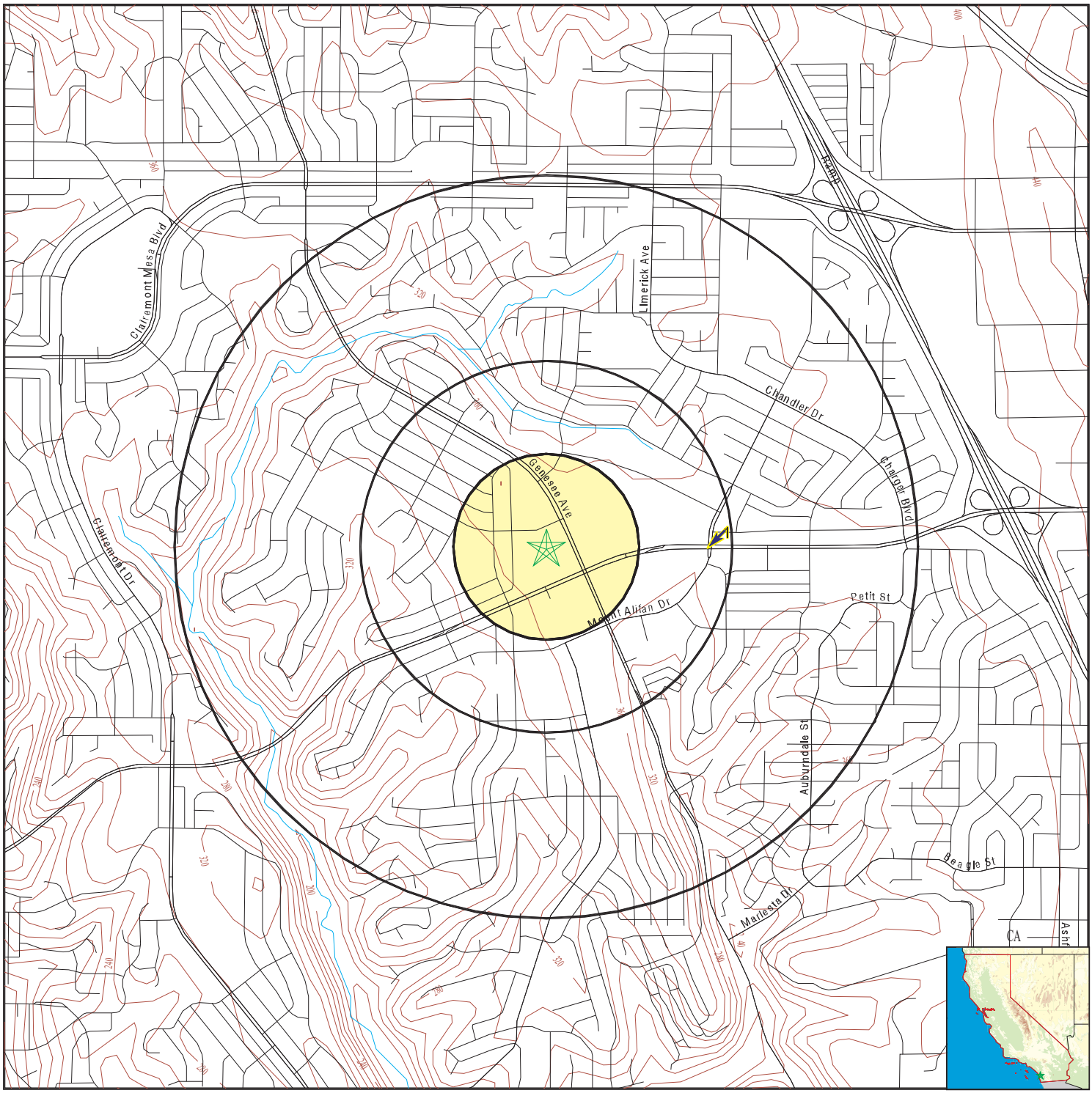
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 5578947.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 5225 Mt. Etna Dr.	CLIENT: Ninyo & Moore
ADDRESS: 5225 Mt. Etna Dr.	CONTACT: Adrian Olivares
San Diego CA 92117	INQUIRY #: 5578947.2s
LAT/LONG: 32.820295 / 117.183697	DATE: March 04, 2019 4:10 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 **East** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported SW 4.4 7.5 Not Reported 04/04/1996	**AQUIFLOW**	**55106**
1G **East** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported SW 4.4 7.5 Not Reported 04/04/1996	**AQUIFLOW**	**55106**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92117	16	3

Federal EPA Radon Zone for SAN DIEGO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SAN DIEGO COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.677 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX D

Regulatory Documentation

SC

Record ID: DEH2002-HUPFP-114261

County of San Diego
Department of Environmental Health
Underground Storage Tank Operating Permit

State ID: 37-000-114261
CERS ID: 10386706

Operating Permit Issued On: 8/8/2017
Operating Permit Expires On: 8/7/2022

UST Facility Name: SD CNTY SHERIFF CRIME LAB
Tank Owner's Name: COUNTY OF SAN DIEGO

Site Address: 5255 Mount Etna Dr, San Diego, CA 92117
Tank Operator's Name: COUNTY OF SAN DIEGO

Tank #	Capacity (gallons)	Tank Use	Piping Construction	Contents	Monitor Alternative
23515	4000	Other Generator Fuel	Double-walled	Diesel	DW Tank DW Suction and/ or Gravity Piping With Interstitial Monitors: Interstitial.

COPY

Total Number of Operating Permitted Tanks: 1

***See reverse for permit conditions and requirements**

OPERATING CONDITIONS AND REQUIREMENTS
FOR THE PERMIT TO OPERATE UNDERGROUND STORAGE TANKS

This permit is valid for 5 years pursuant to the California Health & Safety Code, Chapter 67, Section 25285 with an annual renewal fee per San Diego County Code, Title 6, Division 8, Chapter 9, Certified Unified Program Agency. Failure to comply with the following operating conditions and requirements for this permit to operate may cause the HMD to revoke, or modify this permit pursuant to Section 25285.1 of the California Health & Safety Code. **NOTE: The owner and operator are subject to all applicable requirements of Chapters 6,7, and 6.75 of the California Health & Safety Code, and CCR Title 23 Division 3, Chapters 16 and 18.**

The Underground Storage Tank Facility Owner/Operator shall provide and maintain the following:

1. Obtain appropriate permits from the Department of Environmental Health (DEH). Permits are required to install, operate, close, upgrade, or repair an underground storage tank system including associated piping.
2. A copy of this permit and all conditions and attachments must be kept at the underground storage tank location at all times. This permit must be renewed prior to the expiration date.
3. The permittee shall ensure that both the owner and the operator of the tank are provided with a copy of this permit. If the permittee is not the operator of the tank, then the permittee must:
    a. Enter into a written agreement with the operator of the tank to monitor the tank system as set forth in this permit;
    b. Provide the operator with a copy or summary of Section 25299 (attached); and
    c. Notify the DEH of any change of operator.
4. Allow the DEH to inspect the facility, equipment, device or records pursuant to Section 68.903 of the San Diego County Code and HSC Chapter 6.7, Section 25289.
5. Monitor the underground storage tank using a monitoring method specified on the permit application. Monitoring, maintenance, and testing records shall be kept on site for at least 3 years, 6 ½ years for cathodic protection maintenance records, and 5 years for written performance claims pertaining to release detection systems, and calibration and maintenance records for such systems. Records of repairs, lining, and upgrades shall be maintained on site or at another approved location for the remaining life of the underground storage tank. These records shall be kept on site and made available upon request to the DEH or the State Water Board. Monitoring records shall include:
    a. The date, and time of all monitoring or sampling;
    b. Monitoring equipment calibration and maintenance records;
    c. The results of any visual observations;
    d. The results of all sample analysis performed in the laboratory or in the field, including laboratory data sheets and analysis used;
    e. The logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; and
    f. The results of any inventory readings and daily inventory reconciliation.
6. A copy of the Designated Operator monthly inspection record with all attachments for the previous 12 months and a list of facility employees who have been trained by the designated operator (including dates of training and dates of hire) shall be kept on site.
7. Maintain on site and/or in CERS, an approved "Operating Permit Application - **Facility Information**" and the "Operating Permit Application - **Tank Information**", "Underground Storage Tank Monitoring Plan" (referenced in Title 23, Section 2632 (d)(1)), emergency response plan, and plot plan.
8. Maintain all equipment, devices and instruments in good repair. All monitoring and leak detection equipment shall be installed, calibrated, operated, and maintained in accordance with manufacturer's instructions, including routine maintenance and service checks (at least once per calendar year) for operating or running condition. All primary containment shall be product-tight.
9. Owners and operators shall use care to prevent releases due to spilling or overfilling. Before product is delivered, owners, operators, or their agents shall ensure that the space available in the tank is greater than the volume of product to be transferred to the tank and shall ensure that the transfer operation is monitored constantly to prevent overfilling and spilling. In addition, you must report and record all unauthorized releases (leaks) to the DEH within 24 hours [Phone Number (858) 505-6880].
10. Report and record all failed integrity tests or inconclusive SIR results to the DEH within 24 hours [Phone Number (858) 505-6880].
11. Submit a copy of all monitoring certification, spill bucket, integrity, and secondary containment test results to the DEH within 30 days after completion of the test. Submit a copy of enhanced leak detection results to the DEH within 60 days after completion of the test.
12. Notify the DEH in writing within 30 days of a change in ownership, operator, monitoring procedure, equipment, or tank usage.
13. Maintain adequate Pollution Liability Insurance (Financial Responsibility) pursuant to Article 3, Chapter 6.75 of the California Health & Safety Code.
14. Additional requirements may be imposed on the tank owner/operator for the permit to operate, should the State Water Resources Control Board (SWRCB) adopt new sections or amend the California Health & Safety Code or the California Code of Regulations, Title 23.

HM-9142 (04/15)

DEH2002-AHPP-114261
Kasprovich
1/13/2015

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6880 1-800-253-9933 FAX (858) 505-6848; http://www.sdcdeh.org

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document installation, testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

Plan Check Number: **Permit Number: 114261**

A. General Information

Facility Name: County of San Diego Lab Bldg. No.:

Site Address: 5255 Mount Etha Dr. City: San Diego Zip: 92117-

Facility Contact Person: Mike Johnson Contact Phone No.: (858) 694-3615 x

Make/Model of Monitoring System: Veeder-Root TLS-300C Date of Testing/Servicing: 6-Jan-15

B. Inventory of Equipment Tested/Certified: Check the appropriate boxes to indicate specific equipment installed/ inspected serviced:

Tank ID: Diesel 4,000 ☒ In-Tank Gauging Probe Model: 847390-107 ☒ Annular Space or Vault Sensor Model: 794390-420 ☒ Piping Sump / Trench Sensor(s) Model: 794380-208 ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☒ Tank Overfill / High-Level Sensor Model: 847390-107 ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID**: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID**: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification - I certify that the equipment identified in this document was installed/inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report *(check all that apply)*: ☐ Copy of the report ☒ System set-up ☒ Alarm history report

Technician Name (print): John Culver II

Signature: _____

Certification No.: A22531 License No.: 708231

Testing Company Name: Jauregui & Culver Inc. Phone No.: (760) 743-0518 x

Testing Company Address: 959 W. Mission Ave. Escondido, Ca. 92025 Date of Testing/Servicing: 6-Jan-15

D. Results of Testing/Servicing

Permit Number: 114261

Software Version Installed: 15.01

Complete the following checklist:

☒ Yes	☐ No*	Is the audible alarm operational?
☒ Yes	☐ No*	Is the visual alarm operational?
☒ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shutdown? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shutdown due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No.
☒ Yes	☐ No* ☐ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90%
☐ Yes*	☒ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☒ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☒ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☒ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments (500 characters max. add additional sheets if needed):

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

F. In-Tank Gauging / SIR Equipment:

Permit Number: 114261

☐ Check this box if tank gauging is used only for inventory control

☐ Check this box if no tank gauging or SIR equipment is installed

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☒ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☒ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☒ Yes	☐ No*	Was accuracy of system product level readings tested?
☒ Yes	☐ No*	Was accuracy of system water level readings tested?
☒ Yes	☐ No*	Were all probes reinstalled properly?
☒ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD):

☒ Check this box if LLDs are not installed.

Complete the following checklist:

☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ❑ 3 g.p.h.; ❑ 0.1 g.p.h. ; ❑ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

H. Comments (500 characters max. add additional sheets if needed):

I. Results of Vacuum/Pressure Monitoring Equipment Testing

This page should be used to document testing and servicing of vacuum and pressure interstitial sensors. A copy of this form must be included with the Monitoring System Certification Form, which must be provided to the tank system owner/operator. The owner/operator must submit a copy of the Monitoring System Certification Form to the local agency regulating UST systems within 30 days of test date.

	Model:	**System Type:** ☐ Pressure; ☐ Vacuum

	Component(s) Monitored by this Sensor:
	Sensor Functionality Test Result: ☐ Pass; ☐ Fail Interstitial Communication Test Result: ☐ Pass; ☐ Fail
	Component(s) Monitored by this Sensor:
	Sensor Functionality Test Result: ☐ Pass; ☐ Fail Interstitial Communication Test Result: ☐ Pass; ☐ Fail
	Component(s) Monitored by this Sensor:
	Sensor Functionality Test Result: ☐ Pass; ☐ Fail Interstitial Communication Test Result: ☐ Pass; ☐ Fail
	Component(s) Monitored by this Sensor:
	Sensor Functionality Test Result: ☐ Pass; ☐ Fail Interstitial Communication Test Result: ☐ Pass; ☐ Fail
	Component(s) Monitored by this Sensor:
	Sensor Functionality Test Result: ☐ Pass; ☐ Fail Interstitial Communication Test Result: ☐ Pass; ☐ Fail
	Component(s) Monitored by this Sensor:
	Sensor Functionality Test Result: ☐ Pass; ☐ Fail Interstitial Communication Test Result: ☐ Pass; ☐ Fail
	Component(s) Monitored by this Sensor:
	Sensor Functionality Test Result: ☐ Pass; ☐ Fail Interstitial Communication Test Result: ☐ Pass; ☐ Fail
	Component(s) Monitored by this Sensor:
	Sensor Functionality Test Result: ☐ Pass; ☐ Fail Interstitial Communication Test Result: ☐ Pass; ☐ Fail
	Component(s) Monitored by this Sensor:
	Sensor Functionality Test Result: ☐ Pass; ☐ Fail Interstitial Communication Test Result: ☐ Pass; ☐ Fail
How was interstitial communication verified? ☐ Leak Introduced at Far End of Interstitial Space;[1] ☐ Gauge; ☐ Visual Inspection; ☐ Other *(Describe in Sec. J, below)*	
Was vacuum/pressure restored to operating levels in all interstitial spaces? ☐ Yes ☐ No *(If no, describe in Sec. J, below)*	

J. Comments (500 characters max. add additional sheets if needed): No Vac Sensors.

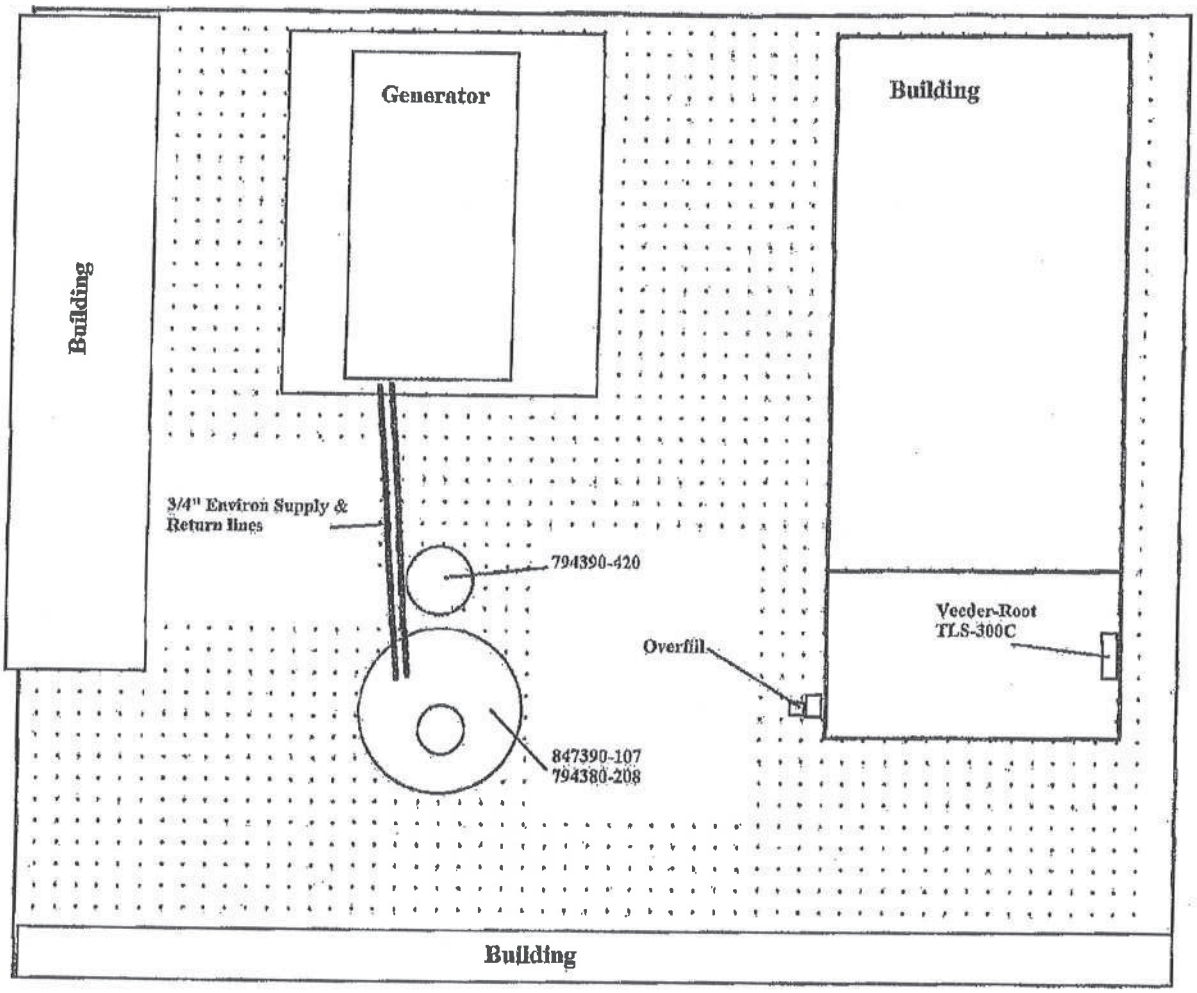
[1] If the sensor successfully detects a simulated vacuum/pressure leak introduced in the interstitial space at the furthest point from the sensor, vacuum/pressure has been demonstrated to be communicating throughout the interstice.

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Permit Number:

UST Monitoring Site Plan

Site Address: **5255 Mt. Etha Rd. San Diego, CA**



Date map was drawn: 1-6-14

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

Spill Bucket Testing Report Form

This form is intended for use by contractors performing annual testing of UST spill containment structures. The completed form and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name:	County of San Diego Lab	Date of Testing:	1-6-15
Facility Address:	5255 Mount Etha Dr. San Diego, Ca. 92117		
Facility Contact:	Mike Johnson	Phone:	(858) 694-3615
Date Local Agency Was Notified of Testing :			
Name of Local Agency Inspector *(if present during testing)*:	Chris Kasprovich		

2. TESTING CONTRACTOR INFORMATION

Company Name:	Jauregui & Culver inc
Technician Conducting Test:	John Culver
Credentials[1]:	x CSLB Contractor x ICC Service Tech. ☐ SWRCB Tank Tester ☐ Other *(Specify)*
License Number(s):	708231, 8182417

3. SPILL BUCKET TESTING INFORMATION

Test Method Used:	x Hydrostatic	☐ Vacuum	☐ Other	
Test Equipment Used: Water and Tape Measure			Equipment Resolution: 0 Loss	
Identify Spill Bucket *(By Tank Number, Stored Product, etc.)*	1	2	3	4
Bucket Installation Type:	☐ Direct Bury x Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump
Bucket Diameter:	11"			
Bucket Depth:	15"			
Wait time between applying vacuum/water and start of test:	10 min.			
Test Start Time (T_I):	9:00am			
Initial Reading (R_I):	7 ¼"			
Test End Time (T_F):	10:00am			
Final Reading (R_F):	7 ¼"			
Test Duration ($T_F - T_I$):	1 hour			
Change in Reading ($R_F - R_I$):	0			
Pass/Fail Threshold or Criteria:	0 Loss			
Test Result:	**x Pass ☐ Fail**	**☐ Pass ☐ Fail**	**☐ Pass ☐ Fail**	**☐ Pass ☐ Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

Water was demed no-hazardes and was put into planter.

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technician's Signature: _____ Date: 1-6-15

[1] State laws and regulations do not currently require testing to be performed by a qualified contractor. However, local requirements may be more stringent.

LIQUID SENSOR SETUP

L 1:DSL-ANN.
TRI-STATE (SINGLE FLOAT)
CATEGORY : ANNULAR SPACE

L 2:DSL-FILL PIPE
TRI-STATE (SINGLE FLOAT)
CATEGORY : PIPING SUMP

EXTERNAL INPUT SETUP

NONE

OUTPUT RELAY SETUP

R 2:OVERFILL ALARM
TYPE:
STANDARD
NORMALLY OPEN

IN-TANK ALARMS
ALL:OVERFILL ALARM
ALL:HIGH PRODUCT ALARM
ALL:MAX PRODUCT ALARM

SOFTWARE REVISION LEVEL
VERSION 15.01
SOFTWARE# 346015-100-B
CREATED - 97.10.23.08.56

S-MODULE# 330161-001-A
SYSTEM FEATURES:
PERIODIC IN-TANK TESTS
ANNUAL IN-TANK TESTS
0.20 GAL/HR PLLD
PRECISION TEST SPECIAL

ALARM HISTORY REPORT

---- SYSTEM ALARM ----
PAPER OUT
SEP 19, 2013 11:29 AM
PRINTER ERROR
SEP 19, 2013 11:29 AM
BATTERY IS OFF
JAN 1, 1996 8:00 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

---- IN-TANK ALARM ----

T 1:DIESEL

SETUP DATA WARNING
JAN 1, 1996 8:32 AM

OVERFILL ALARM
JAN 6, 2015 11:33 AM
JAN 6, 2014 11:00 AM
JAN 6, 2014 10:17 AM

HIGH PRODUCT ALARM
JAN 6, 2014 10:17 AM

INVALID FUEL LEVEL
JAN 23, 2009 10:16 AM
JAN 24, 2008 10:14 AM
JAN 25, 2007 9:15 AM

JAN 6, 2015 11:33 AM
JAN 6, 2015 11:31 AM
JAN 6, 2014 11:00 AM

HIGH WATER WARNING
JAN 21, 2010 11:45 AM
JAN 23, 2009 10:22 AM

LOW TEMP WARNING
JAN 6, 2014 11:01 AM
JAN 21, 2010 11:19 AM
JAN 21, 2010 11:09 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

---- SENSOR ALARM ----
L 1:DSL-ANN.
ANNULAR SPACE
FUEL ALARM
JAN 6, 2015 11:27 AM

FUEL ALARM
JAN 6, 2014 10:04 AM

FUEL ALARM
JAN 7, 2013 9:20 AM

ALARM HISTORY REPORT

---- SENSOR ALARM ----
L 2:DSL-FILL PIPE
PIPING SUMP
FUEL ALARM
JAN 6, 2015 11:24 AM

FUEL ALARM
DEC 12, 2014 12:04 PM

FUEL ALARM
JAN 6, 2014 10:04 AM

* * * * * END * * * * *

SYSTEM SETUP

JAN 6. 2015 10:57 AM

SYSTEM UNITS
U.S.
SYSTEM LANGUAGE
ENGLISH
SYSTEM DATE/TIME FORMAT
MON DD YYYY HH:MM:SS xM

COUNTY OF SAN DIEGO
CRIME LAB
5255 MT.ETNA DR.

SHIFT TIME 1 : DISABLED
SHIFT TIME 2 : DISABLED
SHIFT TIME 3 : DISABLED
SHIFT TIME 4 : DISABLED

TANK PERIODIC WARNINGS
DISABLED
TANK ANNUAL WARNINGS
DISABLED
LINE PERIODIC WARNINGS
DISABLED
LINE ANNUAL WARNINGS
DISABLED

PRINT TC VOLUMES
ENABLED

TEMP COMPENSATION
VALUE (DEG F): 60.0
STICK HEIGHT OFFSET
DISABLED

H-PROTOCOL DATA FORMAT
HEIGHT
DAYLIGHT SAVING TIME
ENABLED
START DATE
APR WEEK 1 SUN
START TIME
2:00 AM
END DATE
OCT WEEK 6 SUN
END TIME
2:00 AM

RE-DIRECT LOCAL PRINTOUT
DISABLED

SYSTEM SECURITY
CODE : 000000

COMMUNICATIONS SETUP

PORT SETTINGS:

COMM BOARD : 2 (RS-232)
BAUD RATE : 1200
PARITY : ODD
STOP BIT : 1 STOP
DATA LENGTH: 7 DATA

AUTO TRANSMIT SETTINGS:

AUTO LEAK ALARM LIMIT
DISABLED
AUTO HIGH WATER LIMIT
DISABLED
AUTO OVERFILL LIMIT
DISABLED
AUTO LOW PRODUCT
DISABLED
AUTO THEFT LIMIT
DISABLED
AUTO DELIVERY START
DISABLED
AUTO DELIVERY END
DISABLED
AUTO EXTERNAL INPUT ON
DISABLED
AUTO EXTERNAL INPUT OFF
DISABLED
AUTO SENSOR FUEL ALARM
DISABLED
AUTO SENSOR WATER ALARM
DISABLED
AUTO SENSOR OUT ALARM
DISABLED

RS-232 SECURITY
CODE : 000000

RS-232 END OF MESSAGE
DISABLED

IN-TANK SETUP

T 1:DIESEL
PRODUCT CODE : 1
THERMAL COEFF : .000450
TANK DIAMETER : 95.00
TANK PROFILE : 1 PT
FULL VOL : 4000

FLOAT SIZE: 4.0 IN. 8496

WATER WARNING : 2.5
HIGH WATER LIMIT: 3.0

MAX OR LABEL VOL: 4000
OVERFILL LIMIT : 90%
: 3600
HIGH PRODUCT : 95%
: 3800
DELIVERY LIMIT : 5%
: 200

LOW PRODUCT : 200
LEAK ALARM LIMIT: 99
SUDDEN LOSS LIMIT: 99
TANK TILT : 0.00

MANIFOLDED TANKS
T#: NONE

LEAK MIN PERIODIC: 25%
: 1000

LEAK MIN ANNUAL : 25%
: 1000

PERIODIC TEST TYPE
STANDARD

ANNUAL TEST FAIL
ALARM DISABLED

PERIODIC TEST FAIL
ALARM DISABLED

GROSS TEST FAIL
ALARM DISABLED

ANN TEST AVERAGING: OFF
PER TEST AVERAGING: OFF

TANK TEST NOTIFY: OFF

TNK TST SIPHON BREAK:OFF

DELIVERY DELAY : 1 MIN

LEAK TEST METHOD

TEST MONTHLY : ALL TANK
WEEK 1 MON
START TIME : 12:00 AM
TEST RATE :0.20 GAL/HR
DURATION : 2 HOURS

LEAK TEST REPORT FORMAT
NORMAL

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

BOW 4/17/96

EST. NUMBER H 14261
DATE 3/27/96
PAGE 1 OF 5
BUS CODE K70
SPECIALIST A. VINLUAN

BUSINESS NAME SD COUNTY SHERIFF'S CRIME LAB
ADDRESS 5255 MOUNT ETNA DR.
CITY/ZIP SAN DIEGO, 92117

CONTACT R. ROBINSON
TITLE SUPV. CRIMINALIST
PHONE 619-692-8088

On the above date an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

Office Use Only

HEALTH PERMIT EXPIRES 2/28/96 APR 2 5 1996 Processed 5/22/96 MC

A ROUTINE INSPECTION WAS CONDUCTED WITH MR. RANDALL T. ROBINSON, SUPERVISING CRIMINALIST OF THE SAN DIEGO COUNTY SHERIFF'S DEPARTMENT CRIME LABORATORY.

INSPECTION CONDUCTED ON SEPTEMBER 28, 1994 BY HMMD STATED THAT ONLY THE UNDERGROUND STORAGE TANK (UST) STORING DIESEL FUEL FOR THE BACK UP GENERATOR WAS COMPLETED. PER MR. ROBINSON, THE CRIME LAB HAS BEEN IN OPERATION ~~BETWEEN~~ FOR APPROXIMATELY ONE YEAR. THE FOLLOWING WASTE STREAMS APPEAR TO BE GENERATED AT THIS TIME:

(1) BIOHAZARDOUS WASTE (901, 902)
(2) MISCELLANEOUS CHEMICAL TRACE CONTAMINATED WASTE
(3) ASBESTOS (occasionally) ?? (Probably mislabelled per Mr. Robinson)

R B

A (CURRENT CHEMICAL INVENTORY LIST DATED AUGUST 1995) WAS PROVIDED TO THE HMMD AND WILL BE (SUBMITTED TO) THE FACILITY'S (MAIN FILE.)

Signature of Business Representative

Supervising Criminalist
Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 85261, San Diego, CA, 92186-5261

(619) 338-2222

COUNTY OF SAN DIEGO

EST. NUMBER H 14261
DATE 3 / 27 / 96
PAGE 2 OF 5

SUPPLEMENTAL INSPECTION REPORT

Office Use Only

BUSINESS ADDRESS: 5255 MT. ETNA DR., SAN DIEGO ZIP CODE: 92117

VIOLATIONS

① HAZARDOUS WASTE/MATERIALS:

OBSERVED SEVERAL HAZARDOUS WASTE CONTAINERS STORED WITH BIOHAZARDOUS WASTE IN MAIN H/W STORAGE. CONTAINERS STORING HAZARDOUS WASTE WERE LABELLED AS HAZ/WASTE, HOWEVER 1 CONTAINER STORING "NARCOTICS RESIDUE" WAS MISSING AN ACCUMULATION START DATE, 1 CONTAINER STORING ASBESTOS WAS DATED AUGUST 1993 AND ANOTHER CONTAINER LACKED A PHYSICAL/CHEMICAL DESCRIPTION. [CORRECTIVE ACTION] ALL CONTAINERS STORING HAZARDOUS WASTE MUST BE IMMEDIATELY LABELLED AS HAZ/WASTE, AND INCLUDE THE FACILITY NAME, ADDRESS, PHONE NUMBER, PHYSICAL & CHEMICAL DESCRIPTION AND ACCUMULATION START DATE. HAZARDOUS WASTE MUST BE DISPOSED OF AT LEAST 90 DAYS AFTER 100 KILOGRAMS HAS BEEN COLLECTED. (MISLABELLED W/WRONG ACCUM. START DATE) PER MR. ROBINSON

② BIOHAZARDOUS WASTE:

1 V4008 W a. OBSERVED SEVERAL CONTAINERS (SHARPS) IN USE WITHOUT THE
2 V4014 W REQUIRED FACILITY LABEL. THE SAN DIEGO COUNTY ORDINANCE,
3 V4013 W SECTION 68.1205(b), REQUIRES ALL SHARPS CONTAINERS & RED BAGS TO BE LABELLED WITH THE FACILITY NAME & ADDRESS PRIOR TO ~~USE~~ PLACING CONTENTS INSIDE. [CORRECTIVE ACTION] IMMEDIATELY LABEL AS REQUIRED.

6. OBSERVED SEVERAL DESIGNATED AREAS TO STORE BIOHAZARDOUS WASTE. THE DOORS WERE LABELLED AS "BIOHAZARDOUS WASTE" BUT WERE NOT SECURED OR WERE LACKING REQUIRED INFORMATION. [CORRECTIVE ACTION] IMMEDIATELY SECURE DESIGNATED AREAS AND PROVIDE THE COMPLETED REQUIRED WARNING SIGNS "CAUTION - BIOHAZARDOUS WASTE STORAGE AREA - UNAUTHORIZED PERSONS KEEP OUT" (IN ENGLISH & SPANISH) LEGIBLE DURING DAYLIGHT FROM AT LEAST 25 FEET.

Signature of Business Representative

Title

Department of Health Services, Environmental Health Services, Hazardous Materials Management Division, PO Box 85261, San Diego, CA, 92186-5261

(619) 338-2222

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

DHS:HM-9110 (Rev. 2/94) NCR

COUNTY OF SAN DIEGO

EST. NUMBER H14261
DATE 3/27/96
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SUPPLEMENTAL INSPECTION REPORT

Office Use Only

BUSINESS ADDRESS: 5255 MT ETNA DR, SAN DIEGO ZIP CODE: 92117

c. THE HMMD REQUIRES THAT ANY FACILITY THAT GENERATES BIOHAZARDOUS WASTE COMPLETE AND SUBMIT A BIOMEDICAL WASTE MANAGEMENT PLAN ANNUALLY TO THE HMMD. CORRECTIVE ACTION WITHIN 30 CALENDAR DAYS COMPLETE & SUBMIT ATTACHED FORM PROVIDED TO THE HMMD, MAINTAIN A COPY ON-SITE & READILY AVAILABLE.

(3) UNDERGROUND STORAGE TANK

MR ROBINSON STATED THE THE UST IS MAINTAINED AND OPERATED BY GENERAL SERVICES AND SUGGESTED HMMD CONTACT MR. CHUCK SHALLENBERGER AT 694-3678

a. OBSERVED THAT HMMD FILES CONTAIN THE CERTIFICATION OF FINANCIAL RESPONSIBILITY AND FUNCTIONAL CERTIFICATION OF THE POLLUTERT DATED JULY 1995 AND MAY 1995 CONSECUTIVELY. HOWEVER, THESE WERE NOT READILY AVAILABLE ONSITE FOR REVIEW. CORRECTIVE ACTION WITHIN 30 DAYS PROVIDE COPIES OF CERTIFICATIONS ONSITE, MAINTAIN READILY AVAILABLE FOR REVIEW FOR AT LEAST 3 YEARS.

b. A WRITTEN ROUTINE MONITORING PROCEDURE/RESPONSE PLAN WAS NOT READILY AVAILABLE FOR REVIEW. ALL OWNERS/OPERATORS OF USTs MUST PREPARE AND SUBMIT A COMPLETED PROCEDURE/PLAN TO THE HMMD. CORRECTIVE ACTION WITHIN 30 DAYS PROVIDE COPY TO THE HMMD, ATTN: AGNES VINLEAN, MAINTAIN A COPY ON-SITE.

Signature of Business Representative

Supervising Technologist
Title

Department of Health Services, Environmental Health Services, Hazardous Materials Management Division, PO Box 85261, San Diego, CA, 92186-5261

(619) 338-2222

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COUNTY OF SAN DIEGO

EST. NUMBER H 14261
DATE 3/27/96
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SUPPLEMENTAL INSPECTION REPORT

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BUSINESS ADDRESS: 5255 MT ETNA DR, SAN DIEGO **ZIP CODE:** 92117

OTHER:

a. ANY FACILITY THAT GENERATES HAZARDOUS WASTE OR STORES HAZARDOUS MATERIALS PURSUANT TO HSC, CH. 6.95 MUST COMPLETE & SUBMIT A BUSINESS PLAN TO THE HMMD. MR. ROBINSON SHOWED A COPY OF AN EXISTING EMERGENCY PLAN IN USE. HOWEVER, HMMD RECORDS DO NOT INDICATE THAT A BP WAS APPROVED & RECEIVED. CORRECTIVE ACTION WITHIN 30 DAYS, COMPLETE & SUBMIT BP FORM PROVIDED, MAINTAIN A COPY ON-SITE.

b. PROPER EMPLOYEE TRAINING IN HAZARDOUS WASTE/MATERIALS, USE OF PERSONAL PROTECTIVE EQUIPMENT & EMERGENCY RESPONSE PROCEDURES REQUIRES DOCUMENTING EMPLOYEE NAMES/DATE & TOPICS PROVIDED.

REMARKS:

- FACILITY GENERATES > 200 POUNDS MEDICAL WASTE/MONTH OCCASIONALLY;
- HMMD REQUESTS AN UPDATED LIST OF SUSPECTED CARCINOGENS BE SUBMITTED ~~TO~~ AND THAT ADDITIONAL CHANGES & (UPDATES) TO THE CHEMICAL INVENTORY LIST PROVIDED & CARCINOGEN LIST AMENDMENTS BE SUBMITTED TO THE HMMD;
- COMPLETE MSDS LISTING PROVIDED IN MAIN LIBRARY OF FACILITY;
- DISPOSAL RECEIPTS FOR HAZARDOUS WASTE IN FILE, HOWEVER NOT READILY ACCESIBLE PER ROSIE RODRIGUEZ, WITHIN 30 DAYS PROVIDE REQUESTED EASILY ACCESSIBLE FOR REVIEW. MAINTAIN ALL DISPOSAL RECEIPTS ON-SITE FOR 3 YEARS

Signature of Business Representative

Supervising Hazmat Specialist
Title

Department of Health Services, Environmental Health Services, Hazardous Materials Management Division, PO Box 85261, San Diego, CA, 92186-5261

(619) 338-2222

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COUNTY OF SAN DIEGO

EST. NUMBER H 14261

COMPLIANCE INSPECTION REPORT

DATE 3/27/96

PAGE 5 OF 5

BUSINESS ADDRESS: 5255 MOUNT ETNA DR., SAN DIEGO 92117

VIOLATION REPORT: The items checked below refer to specific section numbers of Titles 19/22/23 of the California Code of Regulations (CCR), Chapters 6.5, 6.7, 6.95 of the Health and Safety Code (HSC), and/or the San Diego County Code (SDCC).

I HAZARDOUS WASTE REQUIREMENTS:

RECORD KEEPING

- [ ] Health Permit not obtained SDCC 68.905 — V0108 W
- [ ] No EPA Identification Number 66262.12 — V0105 W
- [ ] Waste Manifests/Receipts not on-site for 3 years 66262.40 — V0118 W
- [ ] Manifest not properly completed 66262.23 — V0120 W
- [ ] Manifest copy not sent to CAL-EPA 66262.23 — V0115 W
- [ ] TSDF signed-manifest not on-site 66262.40 — V0121 W
- [ ] Biennial report not sent to CAL-EPA 66262.41 — V0122 W
- [ ] LDR Documentation not available 66268.7 — V0123 W
- [ ] Exception Rpt. not filed with CAL-EPA 66262.42 — V0116 W
- [ ] Operating TSDF without authorization 25201 — V0124 W

STORAGE AND HANDLING

- [X] Waste stored longer than 90 days 66262.34 — V0221 W
- [X] Waste container missing/improperly labeled 66262.34 — V0222 W
- [ ] Haz Materials not properly labeled 25124 — V0223 W
- [ ] Waste container not kept closed 66265.173 — V0202 W
- [ ] Waste container in poor condition 66265.171 — V0205 W
- [ ] Waste container(s) not properly managed 66265.173 — V0210 W
- [ ] Damaged container not repackaged 66265.171 — V0226 W
- [ ] Container incompatible with waste 66265.172 — V0207 W
- [ ] Incompatibles in the same container 66265.177 — V0224 W
- [ ] Incompatibles not stored separately 66265.177 — V0213 W
- [ ] Ignitible Wastes less than 50 feet 66265.176 — V0214 W
- [ ] Ignitible Wastes not grounded 66265.31 — V0215 W
- [ ] Storage area not inspected weekly 66265.174 — V0216 W

DISPOSAL AND TRANSPORTATION

- [ ] Unauth. disposal of waste to _____ 25189.5 — V0313 W
- [ ] Waste determination not made 66262.11 — V0319 W
- [ ] Unlawful transport of haz. waste 25163 — V0315 W
- [ ] Waste transported without manifest 66262.20 — V0316 W
- [ ] No Extremely Haz. Waste Permit 67430.1 — V0317 W

TRAINING, CONTINGENCY PLAN & EMERGENCY PROCEDURES

- [X] Training records unavailable 66265.16 — V0406 W
- [ ] Training program not adequate 66265.16 — V0406 W
- [ ] Facility not designed to minimize release 66265.31 — V0501 W
- [ ] Spill control equip not available 66265.32 — V0508 W
- [ ] Aisle space is obstructed 66265.35 — V0509 W
- [X] Contingency plan not prepared and/or on file 66265.51, 66265.53 — V0609 W

MISCELLANEOUS

- [ ] Waste oil contaminated 25250.7 — V0225 W
- [ ] Used oil filters improperly managed 66266.130 — V0701 W
- [ ] Damaged batteries improperly managed 66266.81 — V0702 W

II UNDERGROUND STORAGE TANK (UST) REQUIREMENTS:

GENERAL UST REQUIREMENTS

- [ ] Health Permit not obtained 68.1005, 25284 — V3002 T
- [ ] Repair/modify/close permit not obtained 68.1005 — V3007 T
- [ ] UST Permit Application not submitted 25286(a) — V3010 T
- [ ] Operating permit conditions violated 2712 — V3011 T
- [ ] Failed to notify HMMD of changes 25284 — V3012 T
- [ ] No owner/operator agreement 25293 — V3005 T
- [ ] No records of financial coverage 25292.2 — V3013 T
- [X] No maint/monit/calib records available 2712(b), 2641i — V3001 T 9

MONITORING REQUIREMENTS (SINGLE WALL)

- [ ] Leak Detection Method does not meet performance standards 2643 — V3014 T
- [ ] Annual Integrity test not conducted 25292 — V3015 T
- [ ] Copy of tank test not submitted to HMMD within 30 days 2643 — V3016 T
- [ ] Manual tank gauging (<2000 gal) 2645 not done properly — V3017 T
- [ ] Reconciliation not done properly 2646 — V3018 T
- [ ] Reconciliation not approved for facility 2646 — V3019 T
- [ ] Dispenser meter(s) not calib annually 2646 — V3020 T
- [ ] Improper liquid measurements 2646 — V3021 T
- [ ] Stick in poor condition 2646 — V3022 T
- [ ] Improper monthly reconciliation 2646 — V3023 T
- [ ] Failed to report excessive variation 2646 — V3024 T
- [ ] Pressurized Product Piping Leak Device not tested annually 25292 — V3025 T

MONITORING REQUIREMENTS (DOUBLE WALL)

- [ ] Monitoring system not functional 2632 — V3026 T 10
- [X] No written monitoring procedure 2632 — V3027 T 11
- [X] Written response plan not available 2632 — V3028 T
- [ ] Spill/Overfill equip. not maintained or installed 2635 — V3029 T

RELEASE REPORTING

- [ ] Failure to report an unauthorized release 25295 — V3009 T
- [ ] Release record log not available 2651, 2650 — V3030 T
- [ ] No leak report/investigation/action 2652 — V3031 T

CLOSURE

- [ ] Temporary closure req. not completed 2671 — V3006 T
- [ ] Abandoned tank not properly closed 25298 — V3032 T
- [ ] Permanent closure req. not completed 2672 — V3033 T

III HAZARDOUS MATERIALS BUSINESS PLAN REQUIREMENTS:

RECORD KEEPING

- [ ] Health Permit not obtained SDCC 68.1105 — V2001 W
- [ ] Business Plan not established/implemented 25503.5 — V2002 W
- [X] Business Plan not submitted to HMMD 25505 — V2007 W
- [ ] Business Plan not amended 25505 — V2003 W
- [ ] Personnel Training Records not available 2732 — V2302 W

RELEASE REPORTING

- [ ] Failure to report a release/threatened release 25507 — V2008 W

BUSINESS PLAN ELEMENTS

- [ ] Emergency Response Plan inadequate 25504 — V2201 W
- [ ] Emergency Contacts not provided/current 25509 — V2203 W
- [ ] Personnel Training Program inadequate 25504 — V2301 W
- [ ] Inventory is incomplete 25504 — V2005 W
- [ ] Site Map is not sufficient 25509 — V2202 W
- [ ] Acutely Haz. Mat. not registered 25533 — V2009 W

An inspection summary report will be mailed shortly. All violations must be corrected. Please call (619) 338-2222 if you have any questions.

Robert E. Robinson — ESTABLISHMENT REPRESENTATIVE

Supervising Hazardous Materials Specialist — TITLE

Department of Environmental Health, Hazardous Materials Management Division, P. O. Box 85261, San Diego, CA 92186-5261

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

DEH:HM-923 (Rev. 1/95) NCR

(UST)

COUNTY OF SAN DIEGO

11-7-97 R Porter

Page 1 of 5

EST. NO. H 14261
DATE 11/4/97
TIME START 9:17 END 1:45
BUS. CODE K70
SPECIALIST E. PAREDES
CONTACT MARY BUGLIO
TITLE CRIMINALIST II
PHONE 467-4600

COMPLIANCE INSPECTION REPORT

BUSINESS NAME COUNTY SHERIFF CRIME LAB
ADDRESS 5255 MT ETNA DR
CITY/ZIP SAN DIEGO 92117-6912

On the above date an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

Office Use Only

Processed 12/2/97 MSW

ROUTINE INSPECTION
VIOLATIONS:

NOV 21 1997

1) OBSERVED EIGHT - 5 GALLON CONTAINERS OF NON RCRA GLASS/DEBRIS WASTE STORED ONSITE FOR LONGER THAN 270 DAYS. THESE CONTAINERS HAVE THE FOLLOWING START ACCUMULATION DATES: 4-12-96, 5-20-96, 5-24-96, 6-14-96, 7-12-96, 9-9-96, 12-96, AND 1996. PROPERLY DISPOSED HAZARDOUS WASTE WITHIN 270 DAYS OF START ACCUMULATION DATES.

1 VOLLWS51 2) OBSERVED THE FOLLOWING HAZARDOUS WASTE STORAGE CONTAINERS IMPROPERLY LABELED:
- 500 ML GLASS BOTTLE OF METHANOL/ACETIC ACID WASTE WITH NO GENERATOR INFO, PHYSICAL STATE, HAZARDOUS PROPERTIES, AND START ACCUMULATION DATE.
- 500ML GLASS BOTTLE OF ZINC/NAOH WASTE WITH NO START DATE.
- 5 GAL HAZARDOUS GLASS/DEBRIS WASTE CONTAINER MISSING START DATE.
- 5 GAL CONTAINER OF GLASS/DEBRIS WASTE MISLABELED AS "SHARPS" + NO HAZARDOUS PROPERTIES.

Mary Buglio 11-4-97 Criminalist/Safety Officer
Signature of Business Representative Date Signed Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 85261, San Diego, CA, 92186-5261

(619) 338-2222

COUNTY OF SAN DIEGO

SUPPLEMENTAL INSPECTION REPORT

EST. NUMBER H 14261
DATE 11 / 4 / 97
PAGE 2 OF 5

Office Use Only

BUSINESS ADDRESS: 5255 MT ETNA DR SAN DIEGO ZIP CODE: 92117

2) CON'T.
5 GAL GLASS/DEBRIS WASTE CONTAINER NOT LABECED.
LABEL ALL HAZARDOUS WASTE STORAGE CONTAINERS WITH COMPLETED HAZARDOUS WASTE LABELS THAT INDICATE THE FOLLOWING: CONTENTS/COMPOSITION, GENERATOR INFO, START ACCUMULATION DATE, HAZARDOUS PROPERTIES & PHYSICAL STATE.

3) EMPLOYEE TRAINING DOCUMENTATION IN HAZARDOUS MATERIALS MGMT AND IN EMERGENCY RESPONSE IS UNAVAILABLE. UPDATE THIS TRAINING YEARLY, AND USE EMPLOYEE SIGNATURES FOR DOCUMENTATION. MAINTAIN RECORDS ON SITE.

4) COMPLETE AND IMPLEMENT THE UST WRITTEN MONITORING PROCEDURE AND WRITTEN RESPONSE PLAN. REFER TO FORMS PROVIDED. MAINTAIN PLANS ON SITE.

5) HAZARDOUS MATERIALS BUSINESS PLAN SITE MAP IS NOT SUFFICIENT. WITHIN 15 DAYS, COMPLETE AND SUBMIT AN ADEQUATE SITE MAP USING PROPER FORM & SYMBOLS TO THE ADDRESS BELOW. KEEP A COPY ON PREMISES.

6) OBSERVED TWO BIOHAZARDOUS SHARPS CONTAINERS MISSING GENERATOR LABELING.

Mary Burdo 11-4-97 Criminalist / Safety Officer
Signature of Business Representative Date Signed Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 85261, San Diego, CA, 92186-5261

(619) 338-2222

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

DEH:HM-9110 (3/96) NCR

COUNTY OF SAN DIEGO

SUPPLEMENTAL INSPECTION REPORT

EST. NUMBER H 14261

DATE 11 / 4 / 97

PAGE 3 OF 5

Office Use Only

BUSINESS ADDRESS: 5255 MT ETNA DR SAN DIEGO ZIP CODE: 92117

6) CONT.
LABEL SHARPS CONTAINERS IN USE WITH GENERATOR NAME, ADDRESS, AND PHONE NUMBER.

7) OBSERVED ONE 5 GALLON SHARPS TUB IN ROOM #157 STORING NON-BIOHAZARDOUS WASTE. [STORE ONLY BIOHAZARDOUS WASTE WITHIN BIOHAZARDOUS WASTE STORAGE CONTAINERS.]

107 [R W]

REMARKS:

008 [R B] [UST LEAK MONITOR, FOLLMERT FD10ZN, CERTIFIED ON 5-28-97 BY MONITRO TANK TECH, 11-4-97 E. PAREDES.]

- HAZARDOUS WASTE MANIFESTS AND MEDICAL WASTE TRACKING DOCUMENTS ON FILE.
- VERIFIED EPA I.D.# CAL000146074.
- HEALTH PERMIT EXPIRES 2-28-98
- KEEP UST FILL SPILL BUCKET CLEAR OF WATER & DEBRIS.

Mary Buglio — Signature of Business Representative
11-4-97 — Date Signed
Criminalist / Safety Officer — Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 85261, San Diego, CA, 92186-5261

(619) 338-2222

DEH:HM-9110 (3/96) NCR

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

EST. NUMBER H 14261

DATE 11/4/97

BUSINESS ADDRESS: 5255 MT ETNA DR SAN DIEGO 92117-6912

VIOLATION REPORT: The items checked below refer to specific section numbers of Titles 19/22/23 of the California Code of Regulations (CCR), Chapters 6.5, 6.7, 6.95 of the Health and Safety Code (HSC), and/or the San Diego County Code (SDCC).

I HAZARDOUS WASTE REQUIREMENTS:

RECORD KEEPING

- [ ] Health Permit not obtained SDCC 68.905 — V0108 W
- [ ] No EPA Identification Number 66262.12 — V0105 W
- [ ] Waste Manifests/Receipts not on-site for 3 years 66262.40 — V0118 W
- [ ] Manifest not properly completed 66262.23 — V0120 W
- [ ] Manifest copy not sent to DTSC 66262.23 — V0115 W
- [ ] TSDF signed-manifest not on-site 66262.40 — V0121 W
- [ ] Biennial report not sent to DTSC 66262.41 — V0122 W
- [ ] LDR Documentation not available 66268.7 — V0123 W
- [ ] Exception Rpt. not filed with DTSC 66262.42 — V0116 W
- [ ] Operating TSDF without authorization 25201 — V0124 W

STORAGE AND HANDLING

- [X] Waste stored longer than 90, 180, or 270 days 66262.34 — V0221 W 35
- [ ] Failure to clean up hazwaste off of floor surface 66262.10b — V0313 W
- [X] Waste container missing/improperly labeled 66262.34 — V0222 W 35
- [ ] Haz Materials not properly labeled 25124 — V0223 W
- [ ] Waste container not kept closed 66265.173 — V0202 W
- [ ] Waste container in poor condition 66265.171 — V0205 W
- [ ] Waste container(s) not properly managed 66265.173 — V0210 W
- [ ] Damaged container not repackaged 66265.171 — V0226 W
- [ ] Container incompatible with waste 66265.172 — V0207 W
- [ ] Incompatibles in the same container 66265.177 — V0224 W
- [ ] Incompatibles not stored separately 66265.177 — V0213 W
- [ ] Ignitible Waste less than 50 feet 66265.176 — V0214 W
- [ ] Ignitible Waste not grounded 66265.31 — V0215 W
- [ ] Storage area not inspected weekly 66265.174 — V0216 W

DISPOSAL AND TRANSPORTATION

- [ ] Unauth. disposal of waste to _____ 25189.5 — V0313 W
- [ ] Waste determination not made 66262.11 — V0319 W
- [ ] Unlawful transport of haz. waste 25163 — V0315 W
- [ ] Waste transported without manifest 66262.20 — V0316 W
- [ ] Extremely Haz Waste Permit not obtained 25205.7 — V0317 W

TRAINING, CONTINGENCY PLAN & EMERGENCY PROCEDURES

- [X] Training records unavailable 66265.16 — V0405 W
- [ ] Training program not adequate 66265.16 — V0406 W
- [ ] Facility not designed to minimize release 66265.31 — V0501 W
- [ ] Spill control equip not available 66265.32 — V0508 W
- [ ] Aisle space is obstructed 66265.35 — V0509 W
- [ ] Contingency plan not prepared and/or on file 66265.51, 66265.53 — V0609 W

MISCELLANEOUS

- [ ] Waste oil contaminated 25250.7 — V0225 W
- [ ] Used oil filters improperly managed 66266.130 — V0701 W
- [ ] Damaged batteries improperly managed 66266.81 — V0702 W
- [ ] Facility has failed to notify local CUPA and DTSC of onsite treatment of hazardous waste (tiered permitting) — V0125 W
- [ ] Onsite treatment of waste without authorization 25201 — V0125 W

II UNDERGROUND STORAGE TANK (UST) REQUIREMENTS:

GENERAL UST REQUIREMENTS

- [ ] Health Permit not obtained 68.1005, 25284 — V3002 T
- [ ] Repair/modify/close permit not obtained 68.1005 — V3007 T
- [ ] UST Permit Application not submitted 25286(a) — V3010 T
- [ ] Operating permit conditions violated 2712 — V3011 T
- [ ] Failed to notify HMMD of changes 25284 — V3012 T
- [ ] No owner/operator agreement 25284 — V3005 T
- [ ] No records of financial coverage 25292.2 — V3013 T
- [ ] No maint/monit/calib records available 2712(b), 2641(j) — V3001 T
- [ ] Monitoring Equip. not tested annually 2630, 2641 — V3003 T

MONITORING REQUIREMENTS (SINGLE WALL)

- [ ] Leak Detection Method does not meet performance standards 2643 — V3014 T
- [ ] Integrity test not conducted 25292 — V3015 T
- [ ] Copy of tank test not submitted to HMMD within 30 days 2643 — V3016 T
- [ ] Manual tank gauging (<2000 gal) 2645 not done properly — V3017 T
- [ ] Reconciliation not done properly 2646 — V3018 T
- [ ] Reconciliation not approved for facility 2646 — V3019 T
- [ ] Dispenser meter(s) not calib annually 2646 — V3020 T
- [ ] Improper liquid measurements 2646 — V3021 T
- [ ] Stick in poor condition 2646 — V3022 T
- [ ] Improper monthly reconciliation 2646 — V3023 T
- [ ] Failed to report excessive variation 2646 — V3024 T
- [ ] Pressurized Product Piping Leak Device not tested annually 25292 — V3025 T
- [ ] No written monitoring procedure 2641 — V3027 T
- [ ] No written emergency response plan 2641 — V3027 T
- [ ] SIR reporting incorrectly done 2646.1 — V3004 T

MONITORING REQUIREMENTS (DOUBLE WALL)

- [ ] Monitoring system not functional 2632 — V3026 T
- [X] No written monitoring procedure 2632 — V3027 T 1
- [X] Written emergency response plan not available 2632 — V3028 T 1
- [ ] Spill/Overfill equip. not maintained or installed 2635 — V3029 T

RELEASE REPORTING

- [ ] Failure to report an unauthorized release 25295 — V3009 T
- [ ] Release record log not available 2651, 2650 — V3030 T
- [ ] No leak report/investigation/action 2652 — V3031 T

CLOSURE

- [ ] Temporary closure req. not completed 2671 — V3006 T
- [ ] Unused tank not properly closed 25298 — V3032 T
- [ ] Permanent closure req. not completed 2672 — V3033 T
- [ ] Failed to apply for temporary closure 25298 — V3008 T

III HAZARDOUS MATERIALS BUSINESS PLAN REQUIREMENTS:

RECORD KEEPING

- [ ] Health Permit not obtained SDCC 68.1105 — V2001 W
- [ ] Business Plan not established/implemented 25503.5 — V2002 W
- [ ] Business Plan not submitted to HMMD 25505 — V2007 W
- [ ] Business Plan not amended 25505 — V2003 W
- [ ] Personnel Training Records not available 19 CCR 2732 — V2302 W

RELEASE REPORTING

- [ ] Failure to report a release/threatened release 25507 — V2008 W

BUSINESS PLAN ELEMENTS

- [ ] Emergency Response Plan inadequate 25504 — V2201 W
- [ ] Emergency Contacts not provided/current 25509 — V2203 W
- [ ] Personnel Training Program inadequate 25504 — V2301 W
- [ ] Inventory is incomplete 25504 — V2005 W
- [X] Site Map is not sufficient 25509 — V2202 W 6
- [ ] Acutely Haz. Mat. not registered 25533 — V2009 W

ALL VIOLATIONS MUST BE CORRECTED. PLEASE CALL (619) 338-2222 OR YOUR INSPECTOR IF YOU HAVE ANY QUESTIONS.

Mary Burgio — ESTABLISHMENT REPRESENTATIVE

11-4-97 — DATE SIGNED

Criminalist / Safety Officer — TITLE

Department of Environmental Health, Hazardous Materials Management Division, P. O. Box 85261, San Diego, CA 92186-5261

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

DEH:HM-923 (Rev. 10/96) NCR

COUNTY OF SAN DIEGO

EST. NUMBER H 14261

DATE 11/4/97

PAGE 5 OF 5

MEDICAL WASTE GENERATOR REQUIREMENTS

BUSINESS ADDRESS: 5255 MT ETNA DR SAN DIEGO ZIP: 92117-6912

VIOLATION REPORT: *The items checked below refer to specific section numbers of the California Health and Safety Code Sections 25100 and 117600 et. al.; the San Diego County Code of Regulatory Ordinances Sections 68.1201 et. al.; and the California Code of Regulations, Title 22 Sections 65600 et. al. and 66262.10 et. al.* **All violations must be corrected. Please call (619) 338-2222 or your Inspector if you have any questions.**

GENERAL REQUIREMENTS:

- [ ] An Environmental Health Permit as a medical waste generator has not been obtained. 68.1203, 68.1204, and 117705 . . . . . V4101 W____
- [ ] Unlawful disposal of untreated medical waste to an unauthorized point. 118340 . . . . . V4102 W____
- [ ] Improper treatment of medical waste using an unapproved method or procedure. 118215 . . . . . V4103 W____
- [ ] Medical SOLID WASTE is not stored in a locked trash receptacle or enclosure so as to deny access to unauthorized persons. 68.1202 . . . . . V4104 W____
- [ ] Improper clipping or cutting of sharps waste at the point of generation. 68.1205 . . . . . V4105 W____
- [ ] Medical waste was not separated from other waste at the point of origin. 118275 . . . . . V4106 W____
- [ ] Generator has not maintained reusable containers/bins for medical waste storage in a clean and sanitary manner. 118295 and 118305 . . . . . V4107 W____
- [ ] Storage time exceeded for frozen medical waste, e.g. greater than 90 days. 118280 . . . . . V4108 W____
- [ ] Generator did not clean-up a leak or spill of medical waste in an approved manner. 118300 . . . . . V4109 W____
- [ ] Generator has not secured the enclosure or designated accumulation area for medical waste containers so as to deny access to unauthorized persons. 118310 . . . . . V4110 W____
- [ ] Operator did not post an approved and legible biohazardous waste "warning sign" in English and Spanish at the waste storage area(s). 118310 . . . . . V4111 W____
- [ ] Generator did not store medical waste in approved and properly marked red bags (non-sharps). 118275 . . . . . V4112 W____
- 7X [ ] Did not place a label with the generator's name, address, and phone number on the outside of the red bag and/or sharps container. 68.1201 and 68.1205 . . . . . V4113 W 902
- [ ] Generator did not store sharps waste in approved and properly marked sharps container. 118275 . . . . . V4114 W____
- [ ] Transportation of medical waste without State Hauler Registration or without a limited-quantity hauling exemption from County HMMD. 118025 . . . . . V4115 W____
- [ ] Generator did not have standardized written operating procedures for a steam sterilizer available onsite. 118215 . . . . . V4116 W____
- [ ] Did not have recording thermometer checked for calibration annually. 118215 . . . . . V4117 W____
- [ ] Generator did not maintain records of thermometer calibration checks for at least 3 years. 118215 . . . . . V4118 W____
- [ ] Operator did not use heat-sensitive tape or other approved method for each load of medical waste treated onsite. 118215 . V4119 W____
- [ ] Need to use a biological indicator or other approved method at least once a month to confirm proper disinfection conditions. 118215 . . . . . V4120 W____
- [ ] Must tie-off red bags to prevent leakage or expulsion of contents during handling and storage. 118280 . . . . . V4121 W____
- [ ] Did not containerize and place red bags in rigid, leak resistant, and covered containers or bins. 118280 . . . . . V4122 W____
- [ ] Must have waste container/bin labeled on the lid and side so as to be clearly visible. 118280 . . . . . V4123 W____
- [ ] Did not tape closed or tightly-lid a full sharps container ready for disposal, to preclude loss of contents. 118285 . . . . . V4124 W____

SMALL QUANTITY GENERATOR REQUIREMENTS:
(<200 pounds per month of waste)

- [ ] Medical Waste Management Plan has not been submitted to County HMMD (Annual Requirement) 68.1206 and 117935 . . V4025 W____
- [ ] Must maintain and show proof of "onsite" medical waste treatment records for 3 years. 118215 and 117943 . . . . . V4026 W____
- [ ] Generator did not retain on file disposal receipts and/or tracking documents for waste shipped offsite for at least 2 years. 117945 . . . . . V4027 W____
- [ ] Need to apply for and receive a limited-quantity hauling exemption for "self-hauled" medical waste (<20 pounds of waste per week). 118030 and 118025 . . . . . V4028 W____
- [ ] Did not renew a limited-quantity hauling exemption annually. 118030 . . . . . V4029 W____
- [ ] Storage time exceeded for full sharps container(s), e.g. greater than 7 days at room temperatures (for >20 pounds/month generator). 118285 . . . . . V4030 W____
- [ ] Storage time exceeded for red bag waste, e.g..more than 7 days at room temperature (>20 pounds/month generator). 118280 . V4031 W____
- [ ] Very small quantity generator (e.g..<20 pounds per month) improperly storing waste for greater than 30 days onsite at room temperature. 118280 . . . . . V4032 W____
- [ ] Maximum holding time exceeded for non-putrescible medical waste, e.g. greater than 180 days. 68.1203 . . . . . V4033 W____

LARGE QUANTITY WASTE GENERATORS:
(≥ 200 pounds of waste in a month)

- [ ] Medical Waste Management Plan has not been submitted to County HMMD (Annual Requirement) . 117960 and 68.1206 . V4034 W____
- [ ] Must maintain and show proof of "onsite" medical waste treatment records for 3 years. 118215 and 117975 . . . . . V4035 W____
- [ ] Generator did not retain on file disposal receipts and/or tracking documents for waste shipped offsite for at least 3 years. 117975 . . . . . V4036 W____
- [ ] Storage time exceeded for full sharps container(s), e.g. greater than 7 days at room temperature. 118285 . . . . . V4037 W____
- [ ] Storage time exceeded for red bag waste, e.g. more than 7 days at room temperature. 118280 . . . . . V4038 W____

PATHOLOGY WASTE AND CHEMOTHERAPY WASTE HANDLING:

- [ ] Did not segregate chemotherapy waste from other medical waste. 118275 . . . . . V4039 W____
- [ ] Generator did not label container holding chemotherapy waste with the words "chemotherapy waste" or other approved markings on the lid and sides. 118275 . . . . . V4040 W____
- [ ] Did not segregate pathology waste from other medical waste. 118275 . . . . . V4041 W____
- [ ] Generator did not label container holding pathology waste with the words "pathology waste" or other approved markings on the lid and side. 118275 . . . . . V4042 W____
- [ ] Unlawful disposal of pathology waste or chemotherapy waste to an unauthorized point. 118340 . . . . . V4043 W____

PHARMACEUTICAL WASTE HANDLING:

- [ ] Generator did not segregate pharmaceutical waste from other medical waste. 118275g . . . . . V4044 W____
- [ ] Generator did not label container holding pharmaceutical waste with the words "incineration only" or other approved markings on the lid and side. 118275g . . . . . V4045 W____
- [ ] Storage time exceeded for pharmaceutical waste, e.g. more than 90 days. (≥ 10 pounds per calendar year generated) 118280e . V4046 W____
- [ ] Very small quantity generator of pharmaceutical waste (e.g. <10 pounds waste /calendar year) improperly storing waste for longer than one year. 118280e . . . . . V4047 W____
- [ ] Unlawful disposal of pharmaceutical waste to an unauthorized point. 118340 and 118222 . . . . . V4048 W____

ON-SITE MEDICAL WASTE TREATMENT FACILITY REQUIREMENTS:

- [ ] Operator has not obtained an onsite medical waste treatment permit from the County. 117950, 118130, 118155, and CCR 65620 . . . . . V4049 W____
- [ ] Must maintain an updated and complete copy of the medical waste treatment permit onsite and available for review. CCR 65621(f), 65623, 118165, and 118180 . . . . . V4050 W____
- [ ] Did not comply with a condition of the medical waste treatment permit issued by the County. CCR 65623 . . . . . V4051 W____

PHOTOCHEMICAL and HAZARDOUS WASTE MGMT. AND DISPOSAL:

- [ ] Illegal disposal of photoprocessing/ hazardous waste to the sewer, trash, etc. 25189.5 . . . . . V4052 W____
- [ ] Generator has not maintained waste disposal records. e.g. manifests/milk-run receipts..onsite for 3 years. 66262.40 . . . . V4053 W____
- [ ] Generator has not obtained an EPA Identification Number from the State DTSC for hazardous waste generation. e.g. photoprocessing/hazardous waste. 66262.12 . . . . . V4054 W____
- [ ] Generator did not properly label the container holding hazardous waste. 66262.34 . . . . . V4055 W____
- [ ] Generator did not maintain the container holding hazardous waste tightly closed except when adding or removing waste. 66265.173 . . . . . V4056 W____
- [ ] Generator did not submit a notification to the County prior to treating photochemical waste onsite (e.g. >10 gallons/month: tiered permitting). 25201.5 . . . . . V4057 W____

Mary Buglio — ESTABLISHMENT REPRESENTATIVE

11-4-97 — DATE SIGNED

Criminalist / Safety Officer — TITLE

DEH:HM-9255 (5/97) NCR

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

DATE 11/3/97

File

OFFICE USE ONLY
H 14261

Wardeh
11-4-97

MEDICAL WASTE MANAGEMENT PLAN

Business Name: SAN DIEGO COUNTY SHERIFF CRIME LABORATORY

Type of Business/ Practice: FORENSIC LABORATORY

Site Address: 5255 MT. ETNA DR. SAN DIEGO, CA. Zip: 92117 Phone# (619) 467-4600

Contact Person: MARY ALCOBIA-BUGLIO Title: LAB SAFETY OFFICER/CRIMINALIST

24 Hour Emergency Phone #(619) 565-5255

GENERATION AND STORAGE OF BIOHAZARDOUS WASTE:

Describe below the type and quantity of biohazardous waste generated and managed at this facility. **SEE SAMPLE PLAN AND ATTACHMENT FOR DEFINITION OF TERMS USED IN THIS PLAN**

MEDICAL WASTE TYPE	QUANTITY (lbs/month)	STORAGE (container type)	TREATMENT METHOD*	ON-SITE	OFF-SITE	HAULER NAME*
BIOHAZARDOUS WASTE **Sharp Waste** Needles/syringes/slides	40	Sharps container	Steam Sterilization		X	BFI
Non-sharp Waste Articles containing Fluid Blood (gauze, bandages, tubing, etc.)	60	Biohazard bags	Steam Sterilization		X	BFI
Solids (cultures, lab waste, etc.)	N/A					
Liquids (cultures, urine, etc.)	40	Biohazard bags	Steam Sterilization		X	~~BFI~~ PWN
Trace chemotherapy waste	N/A					
Contaminated animal carcasses	N/A					
Other						
MEDICAL SOLID WASTE Gloves, empty specimen containers, gauze with dry blood, treated biohazardous waste	N/A	Regular trash	N/A	N/A	N/A	Laidlaw

*** If applicable, attach a copy of biohazardous waste hauler contract or Limited Quantity Hauler exemption.**

Biohazardous WASTE STORAGE LOCATION: [Please check the appropriate box(es)].

Biohazardous Waste: [X] Inside establishment in secured area [ ] Outside in posted, secure area

Medical Solid Waste: [X] Inside establishment [X] Outside in Locked/secured dumpster

PERSONNEL TRAINING:

All personnel handling biohazardous waste have been trained in all aspects of this management plan. Training includes the legal definition of biohazardous waste, separation and proper storage, transportation, treatment, and disposal of biohazardous waste. Documentation for completed employee training will be kept onsite.

CERTIFICATION STATEMENT:

I certify that the above management plan is complete and accurate, and that this business will adhere to all aspects of the plan. I further understand that any violation of this plan or any applicable law or regulation may result in legal action.

Mary Buglio — Criminalist / Safety Officer
SIGNATURE OF RESPONSIBLE PERSON — TITLE

MARY BUGLIO — 11/3/97
NAME OF RESPONSIBLE PERSON (please print or type) — DATE

DISTRIBUTION: WHITE - RETURN TO HMMD
YELLOW - BUSINESS RETAINS

H 14261

MONTIJO TANK TECH
P.O. BOX 408
SAN MARCOS, CA 92069
(619) 752-1989
Fax (619) 752-1899

ANNUAL LEAK DETECTOR & MONITOR CERTIFICATION 1997

Tank Owner:	County of San Diego General Services
Address:	5555 Overland Ave.
	San Diego, CA
Phone:	(619)694-3642
Contact:	Tim Manzanno
Test Site:	Clairmont Hospital
Address:	5255 Mt Etna Dr.
	San Diego, CA 92117
Phone:	
Date:	May 28 1997

Monitor Data:

Tank Number	Fuel Grade	Monitor Manufacture	Automatic Tank Gauge	Annular Sensors	Line Sensors	Repairs Needed
#1	Diesel	Pollulert	N/A	Pass	N/A	No

Leak Detector Data:

Tank Number	Fuel Grade	L/D Manufacture	L/D Pass/Fail	Replaced Yes/No	Retest Pass/Fail
#1	N/A	N/A	N/A	N/A	N/A
#2	N/A	N/A	N/A	N/A	N/A

Tecnician:	Tim Montijo
License #:	#97-1090
Signature:	

Monitoring system is a Pollulert system and was operational on the date tested.

Test Equipment:

OFFICE USE ONLY
Request # S-115

REQUEST TO REVIEW DEH RECORDS

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

Soil Engineering
Geology
Hydrogeology
Environmental Assessment
Regulatory Compliance

Beth Abramson - Beck
Senior Environmental Geologist
RG 4580

10225 Barnes Canyon Road, Suite A-112, San Diego, California 92121
Phone (619) 457-0100 Fax (619) 558-1236

2/8

SUBMIT TO:
County of San Diego
Department of Environmental Health
P.O. Box 85261
San Diego, CA 92186-5261
(619) 338-2268
FAX (619) 338-2377

A request is hereby made to review ed below for the following reason:

Environmental Site Assessment

B S Abramson-Beck | Sr. Geologist | 5-9-97
Signature | Title | Date

A separate form must be completed for each file/address. Each request is limited to a **MAXIMUM OF** 5 addresses.

Establishment Name	**EXACT** Address/City **REQUIRED** (No Street Ranges Accepted)	Zip Code **REQUIRED**	File # (Optional)
County Offices (Clairemont Hospital & Sheriff Lab	5255 Mt Etna Dr	92117	S.D. H14261-001

TYPE OF INFORMATION REQUESTED (Check as many as apply) Must be checked.

☒ Routine Inspection Permit File ☒ Tank Removal ☒ Tank Installation/ Reciping ☒ Contamination Files ☒ Emergency Response ☒ Complaint ☒ Monitoring Wells

APN# 361-661-1200 (Must Provide)

OFFICE USE ONLY BELOW THIS LINE

Files checked for Confidential Information	H#	AT#	NT#	T# 2111 -09	HIRT#	#
By/Date: 5/20/97 EE						

Clerical Time:

Research _____ Initials _____ Pulling _____ Initials _____

Checking _____ Initials _____ Misc. _____ Initials _____

Files reviewed by: Beth Abramson of Ninyo & Moore Date: 5/28/97

Photocopies _____ Cost _____ Paid _____

Photocopies picked-up/mailed on _____ Date By _____ Name

☐ A review of records has been conducted and HMMD finds no record of the files you requested for this site.

Signature | Title | Date

DEH:HM-9098 (Rev. 4/96)

Permit H#: H14261
State ID: 37-000-H14261
CA Cert. No: 04103
CA Cert. Issue Date: 8/7/98

Operating Permit Issued on: 08/07/1998
Operating Permit Expires on: 08/06/2001

San Diego County
Department of Environmental Health (DEH)

UNDERGROUND STORAGE TANK OPERATING PERMIT

UST Facility Name: COUNTY SHERIFF CRIME LAB
Site Address: 5255 MT ETNA DR, SAN DIEGO 92117
Tank Owner's Name: COUNTY OF SAN DIEGO
Tank Operator's Name: COUNTY SHERIFF CRIME LAB
Total Number of Operating Permitted Tanks: 1

See reverse side for permit conditions and requirements.

	Tank#	Capacity (gallons)	Waste/ Product	Piping Construction	Contents	Monitoring Alternative			
1.	Tank-002	4000	Product	DOUBLE WALL	DIESEL	DW TANK MONITORS:	DW SUCTION AND/ INTERSTITIAL.	OR GRAVITY PIPING WITH	INTERSTITIAL

File

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 3 DATE 12/26/02
PERMIT # 114261
TIME START 845 END 1145
BUS. CODE K70
SPECIALIST HA HM
INSPECTION CONTACT/TITLE
Stephen Gurnoff / Crim. Sup.
PHONE: 858 467-4600
prsd 3/10/2003 mmailing

BUSINESS NAME County Sheriff Crime Lab
ADDRESS 5255 Mt Etna Dr
CITY/ZIP SD 92117

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

Y	N/A		Y	N/A	
☐	☐	Unified Program Facility Permit current and available			Permit Expires on: ___/___/___.
☐	☐	Hazardous Materials Business Plan available	☐	☐	Contingency Plan available
☐	☐	Employee Training is adequate	☐	☐	Employee Training records available
☐	☐	Waste disposal records available for review	☐	☐	Waste containers kept closed
☐	☐	Emergency contacts current ☐ Updated today	☐	☐	Waste containers kept labeled
☐	☐	Chemical inventory current ☐ Updated today	☐	☐	Waste containers in good condition

UST Inspection
Monitoring Certification FEB 04 2003
Observations - Violations - Corrective Action

1-9-03
Faxed copy of CIR plus ERP and Monitoring Procedure To Jim Jordan 1/8/03 (SH)

(1) Operating Permit - UST, expired 8-6-2001
A new one will be issued upon receipt of Monitoring Certification - completed on this day by Rene ~~L~~ Le Mesnager.

(2) Monitoring System last certified 1-25-2000 by Clean Fuels.
All monitoring systems must be certified on an annual basis.
This was certified on this day by Rene L.

(3) Sensor in sump had been knotted up so as not to go in alarm. 6" of water measured in sump - and sensor should have been in alarm.
The sensor must be kept in lowest part of sump.

☐ This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.

Initials of Business Representative _____

Stephen Gurnoff — Signature of Business Representative
12/26/02 — Date Signed
Supervising Criminalist — Title

COUNTY OF SAN DIEGO

SUPPLEMENTAL INSPECTION REPORT

EST. NUMBER H 114261
DATE 12/26/02
PAGE 2 OF 3

Office Use Only

BUSINESS ADDRESS: 5255 Mt Etna Dr ZIP CODE: 92117

(4) Monitoring and Emergency Response Plan not available on this day. This was also the case in March of 2002. These must be completed + submitted to HMD within 30 days. FAX ATTN: SUSAN A. HAHN @ 858-694-3705.
A copy of these must also be maintained on site - perhaps next to Pollwert monitor in boiler room.

(5) Sensor in sump had been knotted up above 6" water ~~in~~. Also sensor in annular space was at 84 inches but depth of space is 117 inches.
Sensors must be placed at lowest part of sump at all times. If sensor goes into alarm, then appropriate action would be to investigate why sensor is in alarm - then correct situation. Hiking up sensor is considered a criminal penalty.
Sump must be clean + dry at all times

Remark -
Unable to tell where water was leaking into sump - no gasket on spill bucket, or gap between manway + tank - unsure. Rene M. will place gasket on spill bucket. Check sump after next rain.

2° containment needs to be completed by 1/1/2003.

Stephen Gross 12/26/02 Supervising Criminalist
Signature of Business Representative Date Signed Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 85261, San Diego, CA, 92186-5261
(619) 338-2222

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

DEH:HM-9110 (3/96) NCR

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PERMIT #: 114261
DATE: 12/26/02
PAGE: 3 OF 3

BUSINESS ADDRESS: 5255 Mt Etna Dr **ZIP:** 92117

VIOLATION REPORT: The items checked below refer to specific section numbers of Title 23 of the California Code of Regulations (CCR), Chapters 6.7, of the Health & Safety Code (HSC) & the County Code of Regulatory Ordinances (SDCC). The following code sections are either in violation (V) with the Underground Storage Tank laws and regulations or Non-Applicable (N/A). **All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.**

GENERAL UNDERGROUND STORAGE TANK (UST) REQUIREMENTS

#	VIOLATION DESCRIPTION	VIOL	V	NA	#	VIOLATION DESCRIPTION	VIOL	V	NA
UST SYSTEM RECORDS					**FILE RECORDS**				
	UPF Permit current and at facility? 25284; 68.905, 68.1003, 68.1005	3101	✓			Secondary containment testing conducted at 6mo/36 months 25284.1; 2637(a)	3112		
(1)	Operating Permit current and at facility? 25284(a); 25286(a), 2712 (i), 68.1003	3102	✓			Secondary Containment testing submitted to CUPA within 30 days 2637(a)(4)	3113		
	UST Repair/modify/closure permit obtained? 68.1005	3103				Releases reported/recorded? 25294, 25295; 2650, 2651, 2652	3151		
	Forms A and B submitted? 25286(a)	3104			(4)	Maintenance & Monitoring records available? 2712 (b)	3152	✓	
	Financial Responsibility current? 25292.2(a)	3105				Monitoring certification submitted to CUPA within 30 days? 2637(b)(4)	3153		
	Owner/Operator Agreement Submitted? 25284(a)(3); 2620(b)	3106				Enhanced Leak detection performed if required? 25292.4	3154		
(4)	Monitoring Plan approved? 2632(b), 2634(d), 2711(a)(9)	3107				Contractor trained? 25284.1(a)(5)(D); 2637(b)(1)(B)	3155		
(4)	UST Emergency Response Plan current? 25289(b); 2632(b), 2634(e)	3108				Contractor has Class A, C-10, C34, C36, or C61 license?25284.1(a)(5)(D); 2637(b)(1)(A)	3156		
(4)	Monitoring plot plan submitted? 2711(a)(8)	3109			(3)	No evidence of falsification of records or tampering with monitoring system? 25299(d)	3157	✓	
	Annual certification of ATG and sensors? 2641(j)	3110				All operating permit conditions met? 2712	3158		
(7)	Continuous monitoring system certified annually? 25284.1(a)(4)(C), 2630(d), 2641(j)	3111	✓						

UST SYSTEM INSPECTION

Requirements applicable for both, single & double walled systems

#	VIOLATION DESCRIPTION	TANK #								
		PRODUCT								
		VIOL	V	NA	V	NA	V	NA	V	NA
	Is monitor not in state of alarm at beginning of inspection? 2632(d)	3251								
	Audible and visual alarms functioning properly? 2632(c)(2)(B), 2636(f)(1)	3252								
	Sticker/tag affixed to monitoring equipment at certification? 2637(b)(5)	3253								
	UST system has approved overfill protection? 2635(b)(2)	3254								
	Is spill container in good condition and liquid free? 2635 (b)(1)	3255								
(6)	Fill box drain functional or alternative available? 2635(b)(1)(C)	3256								
(5)	Is containment sump liquid free? 2631(d)(4)	3257	✓							
(5)	Are sensors placed adequately and/or at low point in sumps? 2641(a)	3258	✓							
	Dispenser containment present if currently required? 25284.1(a)(5)(C)	3259								
	Dispenser containment adequately monitored? 2636(f)(1) & (g)	3260								
	Dispenser containment free of liquid? 2631(d)(4)	3261								
	Secondary containment piping unobstructed to allow drainage to sump? 2632	3262								
	All monitoring system components &/or devices functional? 2630(a), 2641(j), 2632	3263								
CATHODIC PROTECTION										
	System checked as required by tester? (6 mo./3yrs.) 2635(a)(2)(A)	3301								
	Impressed current system check every 60 days? 2635(a)(2)(A)	3302								
LINING REQUIREMENTS										
	Lined UST test performed after 10 years then every 5? 2663(h)	3311								
CLOSURE REQUIREMENTS:										
	Temporary closure requirements completed? 25298, 2671	3322								
	Unused tank properly closed? Permanent closure requirements met? 25298, 2672	3324								

Stephen Grant
SIGNATURE OF BUSINESS REPRESENTATIVE

12/26/02
DATE SIGNED

Supervising Criminalist
TITLE OF BUSINESS REPRESENTATIVE

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 4
EST. NO. H 14261
DATE 3-27-02
TIME START 930 END 230
BUS. CODE K70
SPECIALIST HAHN
CONTACT C. Babick | M. Buglio
TITLE Bldg Maint Eng | Safety Mgr
PHONE 858. 467-0600

DRSD 7/31/02 mC

BUSINESS NAME County Sheriff Crime Lab
ADDRESS 5255 Mt. Etna Dr.
CITY/ZIP S.D. 92117

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

Office Use Only

ROUTINE INSPECTION JUL 0 2 2002

· Routine Inspection completed on this - UST completed w/ Chris Babick and the Crime Lab w/ Mary Buglio.

UST INSPECTION
NOTICE TO COMPLY
Observations, violations and Corrective Action

① No overfill protection installed.
Overfill protection must be installed and maintained on all underground storage tanks to provide shutoff at 95% full or alert transfer operator at 90% full. Within 120 days have contractor install overfill protection alarm, flapper valve - whatever is feasible/practical.

② Spill bucket has fluid in it, is leaking fluid into sump and drain is not working properly. Purpose of spill bucket is to catch excess fuel when dispensing diesel into tank. The excess diesel is then drained into tank. Within 120 days replace spill bucket.

Mary Buglio 3/27/02 Safety Mgr
Signature of Business Representative Date Signed Title

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222

DEH:HM-924 (Rev. 2/99) NCR

DISTRIBUTION: WHITE- RETURN TO HMD
YELLOW-BUSINESS RETAINS

County of San Diego
Department of Environmental Health

COUNTY OF SAN DIEGO

SUPPLEMENTAL INSPECTION REPORT

EST. NUMBER H 14261
DATE 3/27/02
PAGE 2 OF 4

Office Use Only

BUSINESS ADDRESS: 5255 Mt Etna Dr. ZIP CODE: 92117

(3) Sump has approximately 6 inches of liquid - The sump must be clean and dry at all times.
Have contractor remove standing fluid and reposition sensors. Dispose of as hazardous waste.

(4) Sump sensor not position properly.
Sensor should be placed in lowest part of sump - according to manufacturers specifications.
After standing water + diesel fluid mix has been removed from sump - reposition sensor accordingly.

(5) Pollulert monitoring device has not been certified since 4/25/2000.
All monitoring systems must be certified annually. After above ~~actions~~ VIOLATIONS have been corrected and certification completed fax copy attn: SUSAN HAHN @ 858. 694-3705.

(6) UST operating permit expired 8/2001 w/ a 90 day extension granted.
Within 60 days complete all above violations to have new permit issued.
If difficulties arise in completing the corrective action please contact HMD Supervisor Mike Vizzier @ 858. ~~694~~. 495.5672

(7) No monitoring procedure or emergency response plan available. Complete these within 60 days.

Mary Budio 3/27/02 Safety Mgr
Signature of Business Representative Date Signed Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 85261, San Diego, CA, 92186-5261

(619) 338-2222

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

DEH:HM-9110 (3/96) NCR

COUNTY OF SAN DIEGO

SUPPLEMENTAL INSPECTION REPORT

EST. NUMBER H 14261
DATE 3/27/02
PAGE 3 OF 4

Office Use Only

BUSINESS ADDRESS: 5255 Mt Etna Dr. ZIP CODE: 92117

CRIME LAB

- Employee training records current
- Health Permit current valid thru 2/20/03
- Business Plan available + current Certification Statement signed.
- Emergency Contacts updated.
- Chemical Inventory list updated.
- Chemical Waste documents/manifests reviewed Biohazardous waste documents reviewed.
- New Medical Waste Mgmt Plan given to Mary to use.
- Alternative Disposal is new hauler.

Remark:

1 Red Bag biohazard waste was not labeled w/ generators information: name, address and phone number.

Please remember to label all biohazardous containers w/ generators information when 1st waste disposed into container.

(this was 1 bag out of ~ 20 bags)

REMARK – UST

① Secondary Containment must be tested By 1/1/2003.

Mary Bugbee 3/27/02 Safety Mgr
Signature of Business Representative Date Signed Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 85261, San Diego, CA, 92186-5261

(619) 338-2222

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

DEH:HM-9110 (3/96) NCR

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

EST. NUMBER H 14261

DATE 3/27/02

PAGE 4 OF 4

BUSINESS ADDRESS: 5255 Mt. Etna Dr.

VIOLATION REPORT: The items checked below refer to specific section numbers of Titles 19/22/23 of the California Code of Regulations (CCR), Chapters 6.5, 6.7, 6.95 of the Health and Safety Code (HSC), and/or the San Diego County Code (SDCC).

I HAZARDOUS WASTE REQUIREMENTS:

RECORD KEEPING

- [ ] Health Permit not obtained SDCC 68.905 — V0108 W____
- [ ] No EPA Identification Number 66262.12 — V0105 W____
- [ ] Waste Manifests/Receipts not on-site for 3 years 66262.40 — V0118 W____
- [ ] Manifest not properly completed 66262.23 — V0120 W____
- [ ] Manifest copy not sent to DTSC 66262.23 — V0115 W____
- [ ] TSDF signed-manifest not on-site 66262.40 — V0121 W____
- [ ] Biennial report not sent to DTSC 66262.41 — V0122 W____
- [ ] LDR Documentation not available 66268.7 — V0123 W____
- [ ] Exception Rpt. not filed with DTSC 66262.42 — V0116 W____
- [ ] Operating TSDF without authorization 25201 — V0124 W____

STORAGE AND HANDLING

- [ ] Waste stored longer than 90, 180, or 270 days 66262.34 — V0221 W____
- [ ] Failure to clean up hazwaste off of floor surface 66262.10b — V0313 W____
- [ ] Waste container missing/improperly labeled 66262.34 — V0222 W____
- [ ] Haz Materials not properly labeled 25124 — V0223 W____
- [ ] Waste container not kept closed 66265.173 — V0202 W____
- [ ] Waste container in poor condition 66265.171 — V0205 W____
- [ ] Waste container(s) not properly managed 66265.173 — V0210 W____
- [ ] Damaged container not repackaged 66265.171 — V0226 W____
- [ ] Container incompatible with waste 66265.172 — V0207 W____
- [ ] Incompatibles in the same container 66265.177 — V0224 W____
- [ ] Incompatibles not stored separately 66265.177 — V0213 W____
- [ ] Ignitible Waste less than 50 feet 66265.176 — V0214 W____
- [ ] Ignitible Waste not grounded 66265.31 — V0215 W____
- [ ] Storage area not inspected weekly 66265.174 — V0216 W____

DISPOSAL AND TRANSPORTATION

- [ ] Unauth. disposal of waste to _____ 25189.5 — V0313 W____
- [ ] Waste determination not made 66262.11 — V0319 W____
- [ ] Unlawful transport of haz. waste 25163 — V0315 W____
- [ ] Waste transported without manifest 66262.20 — V0316 W____
- [ ] Extremely Haz Waste Permit not obtained 25205.7 — V0317 W____

TRAINING, CONTINGENCY PLAN & EMERGENCY PROCEDURES

- [ ] Training records unavailable 66265.16 — V0405 W____
- [ ] Training program not adequate 66265.16 — V0406 W____
- [ ] Facility not designed to minimize release 66265.31 — V0501 W____
- [ ] Spill control equip not available 66265.32 — V0508 W____
- [ ] Aisle space is obstructed 66265.35 — V0509 W____
- [ ] Contingency plan not prepared and/or on file 66265.51, 66265.53 — V0609 W____

MISCELLANEOUS

- [ ] Waste oil contaminated 25250.7 — V0225 W____
- [ ] Used oil filters improperly managed 66266.130 — V0701 W____
- [ ] Damaged batteries improperly managed 66266.81 — V0702 W____
- [ ] Facility has failed to notify local CUPA and DTSC of onsite treatment of hazardous waste (tiered pemitting) — V0125 W____
- [ ] Onsite treatment of waste without authorization 25201 — V0125 W____

II UNDERGROUND STORAGE TANK (UST) REQUIREMENTS:

GENERAL UST REQUIREMENTS

- [ ] Health Permit not obtained 68.1005, 25284 — V3002 T____
- [ ] Repair/modify/close permit not obtained 68.1005 — V3007 T____
- [ ] UST Permit Application not submitted 25286(a) — V3010 T____
- [ ] Operating permit conditions violated 2712 — V3011 T____
- [ ] Failed to notify HMMD of changes 25284 — V3012 T____
- [ ] No owner/operator agreement 25284 — V3005 T____
- [ ] No records of financial coverage 25292.2 — V3013 T____
- [ ] No maint/monit/calib records available 2712(b), 2641(j) — V3001 T____
- [X] Monitoring Equip. not tested annually 2630, 2641 — V3003 T____

MONITORING REQUIREMENTS (SINGLE WALL)

- [ ] Leak Detection Method does not meet performance standards 2643 — V3014 T____
- [ ] Integrity test not conducted 25292 — V3015 T____
- [ ] Copy of tank test not submitted to HMMD within 30 days 2643 — V3016 T____
- [ ] Manual tank gauging (<2000 gal) 2645 not done properly — V3017 T____
- [ ] Reconciliation not done properly 2646 — V3018 T____
- [ ] Reconciliation not approved for facility 2646 — V3019 T____
- [ ] Dispenser meter(s) not calib annually 2646 — V3020 T____
- [ ] Improper liquid measurements 2646 — V3021 T____
- [ ] Stick in poor condition 2646 — V3022 T____
- [ ] Improper monthly reconciliation 2646 — V3023 T____
- [ ] Failed to report excessive variation 2646 — V3024 T____
- [ ] Pressurized Product Piping Leak Device not tested annually 25292 — V3025 T____
- [ ] No written monitoring procedure 2641 — V3027 T____
- [ ] No written emergency response plan 2641 — V3027 T____
- [ ] SIR reporting incorrectly done 2646.1 — V3004 T____

MONITORING REQUIREMENTS (DOUBLE WALL)

- [X] Monitoring system not functional 2632 — V3026 T____
- [X] No written monitoring procedure 2632 — V3027 T____
- [X] Written emergency response plan not available 2632 — V3028 T____
- [X] Spill/Overfill equip. not maintained or installed 2635 — V3029 T____

RELEASE REPORTING

- [ ] Failure to report an unauthorized release 25295 — V3009 T____
- [ ] Release record log not available 2651, 2650 — V3030 T____
- [ ] No leak report/investigation/action 2652 — V3031 T____

CLOSURE

- [ ] Temporary closure req. not completed 2671 — V3006 T____
- [ ] Unused tank not properly closed 25298 — V3032 T____
- [ ] Permanent closure req. not completed 2672 — V3033 T____
- [ ] Failed to apply for temporary closure 25298 — V3008 T____

III HAZARDOUS MATERIALS BUSINESS PLAN REQUIREMENTS:

RECORD KEEPING

- [ ] Health Permit not obtained SDCC 68.1105 — V2001 W____
- [ ] Business Plan not established/implemented 25503.5 — V2002 W____
- [ ] Business Plan not submitted to HMMD 25505 — V2007 W____
- [ ] Business Plan not amended 25505 — V2003 W____
- [ ] Personnel Training Records not available 19 CCR 2732 — V2302 W____

RELEASE REPORTING

- [ ] Failure to report a release/threatened release 25507 — V2008 W____

BUSINESS PLAN ELEMENTS

- [ ] Emergency Response Plan inadequate 25504 — V2201 W____
- [ ] Emergency Contacts not provided/current 25509 — V2203 W____
- [ ] Personnel Training Program inadequate 25504 — V2301 W____
- [ ] Inventory is incomplete 25504 — V2005 W____
- [ ] Site Map is not sufficient 25509 — V2202 W____
- [ ] Acutely Haz. Mat. not registered 25533 — V2009 W____

ALL VIOLATIONS MUST BE CORRECTED. PLEASE CALL (619) 338-2222 OR YOUR INSPECTOR IF YOU HAVE ANY QUESTIONS.

Mary Buglio — ESTABLISHMENT REPRESENTATIVE

3/27/02 — DATE SIGNED

Safety Mgr — TITLE

Department of Environmental Health, Hazardous Materials Management Division, P. O. Box 129261, San Diego, CA 92112-9261

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

DEH:HM-923 (Rev. 1/98) NCR

MONITORING SYSTEM CERTIFICATION

For Use By All Jurisdictions Within the State of California
Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date. S.D. County Permit 114261

A. General Information

Facility Name: Sheriff Crime Lab Bldg. No: _____
Site Address: 5255 Mt. Etna Dr. City: S.D. Zip: 92117-6912
Facility Contact Person: Mary Buglio Contact Phone No.: (858) 467-4600
Make/Model of Monitoring System: Pollulert Date of Testing/Servicing: 12/23/03

B. Inventory of Equipment Tested/Certified

Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: Emerg. Generator - Dsl	Tank ID:
☒ In-Tank Gauging Probe. Model: Pneumercator	☐ In-Tank Gauging Probe. Model:
☒ Annular Space or Vault Sensor. Model: Pollulert	☐ Annular Space or Vault Sensor. Model:
☒ Piping Sump / Trench Sensor(s). Model: Pollulert	☐ Piping Sump / Trench Sensor(s). Model:
☐ Fill Sump Sensor(s). Model:	☐ Fill Sump Sensor(s). Model:
☐ Mechanical Line Leak Detector. Model:	☐ Mechanical Line Leak Detector. Model:
☐ Electronic Line Leak Detector. Model:	☐ Electronic Line Leak Detector. Model:
☒ Tank Overfill / High-Level Sensor. Model: Flapper	☐ Tank Overfill / High-Level Sensor. Model:
☐ Other (specify equipment type and model in Section E on Page 2).	☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID:	Tank ID:
☐ In-Tank Gauging Probe. Model:	☐ In-Tank Gauging Probe. Model:
☐ Annular Space or Vault Sensor. Model:	☐ Annular Space or Vault Sensor. Model:
☐ Piping Sump / Trench Sensor(s). Model:	☐ Piping Sump / Trench Sensor(s). Model:
☐ Fill Sump Sensor(s). Model:	☐ Fill Sump Sensor(s). Model:
☐ Mechanical Line Leak Detector. Model:	☐ Mechanical Line Leak Detector. Model:
☐ Electronic Line Leak Detector. Model:	☐ Electronic Line Leak Detector. Model:
☐ Tank Overfill / High-Level Sensor. Model:	☐ Tank Overfill / High-Level Sensor. Model:
☐ Other (specify equipment type and model in Section E on Page 2).	☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID:	Dispenser ID:
☐ Dispenser Containment Sensor(s) Model	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID:	Dispenser ID:
☐ Dispenser Containment Sensor(s). Model:	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain	☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID:	Dispenser ID:
☐ Dispenser Containment Sensor(s). Model:	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification

I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report; *(check all that apply)*: ☐ System set-up ☐ Alarm history report

Technician Name (print): Rene' LeMesnager Signature: Rene' LeMesnager
Certification No.: 16660 License No.: 203029
Testing Company Name: LeMesnager Engineering Phone No.: (619) 917-8001
Shop Address: 8211 Santaluz Village Grn N Date of Testing/Servicing: 12/23/03
San Diego, CA 92127

D. Results of Testing/Servicing

Software Version Installed: N/A

Complete the following checklist:

☒ Yes	☐ No*	Is the audible alarm operational?
☒ Yes	☐ No*	Is the visual alarm operational?
☒ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No
☐ Yes	☐ No* ☒ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? %
☐ Yes*	☒ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☒ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☒ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☒ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

* In Section E below, describe how and when these deficiencies were or will be corrected.

E. Comments: Suction system for Emerg. Generator

F. In-Tank Gauging / SIR Equipment:

☒ Check this box if tank gauging is used only for inventory control.
☐ Check this box if no tank gauging or SIR equipment is installed.

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☐ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☐ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☐ Yes	☐ No*	Was accuracy of system product level readings tested?
☐ Yes	☐ No*	Was accuracy of system water level readings tested?
☐ Yes	☐ No*	Were all probes reinstalled properly?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

* In the Section H, below, describe how and when these deficiencies were or will be corrected.

G. Line Leak Detectors (LLD): ☒ Check this box if LLDs are not installed.

Complete the following checklist:

☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☐ 3 g.p.h.; ☐ 0.1 g.p.h; ☐ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

* In the Section H, below, describe how and when these deficiencies were or will be corrected.

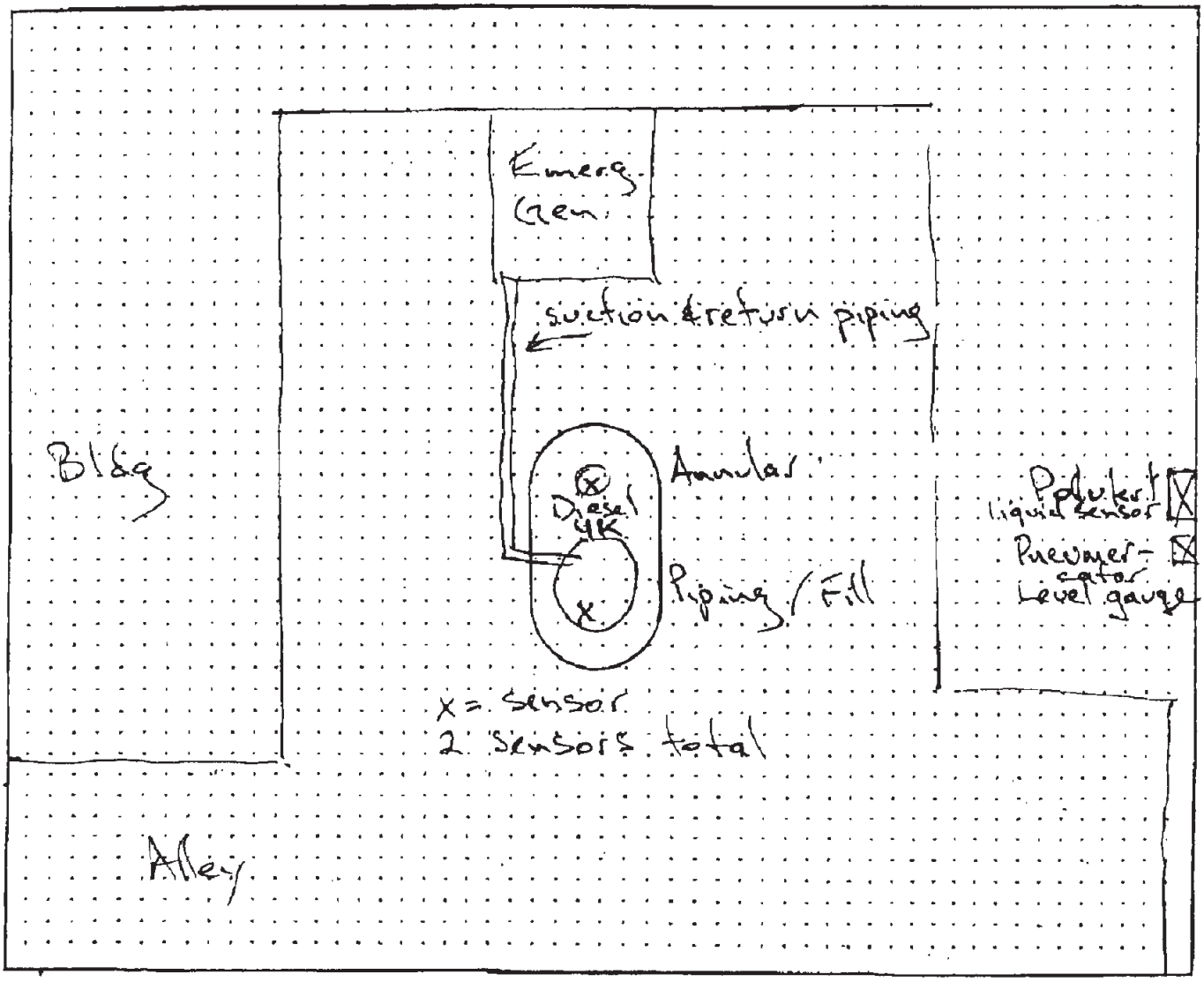
H. Comments: _____

S.D. County Sheriff Crime Lab

Monitoring System Certification

UST Monitoring Site Plan

Site Address: 5255 Mt. Etna Dr. Permit 1142e1



Date map was drawn: 12/23/03

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

COUNTY OF SAN DIEGO

OFFICIAL NOTICE - NOTICE OF VIOLATION

Faxed 2-27-04 cy Fire

PAGE 1 OF 1
EST NO. H 114261
DATE 12/23/03
TIME START 900 END 1000
BUS. CODE K70
SPECIALIST HAHN
CONTACT MIKE DICK
TITLE
PHONE

BUSINESS NAME SD County Sheriff Crime Lab
ADDRESS 5255 MT ETNA DR
CITY S.D. ZIP 92117
OWNERS NAME County of SD PHONE
OWNERS ADDRESS CITY ZIP

An inspection of your business was conducted, under the authority of Section 25185 of the California Health and Safety Code. This inspection was conducted with purpose of determining compliance with Chapters 6.5, 6.7, 6.95 in Division 20, of the California Health and Safety Code (H&S); Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). ***The following statements describe conditions which are violations of the law or that require further investigation.*** *These observations require a formal response and/or immediate corrective action be taken. Failure to correct these violations or to provide information requested in a timely manner may be a factor in determining the course of further legal action.*

FEB 18 2004

Site's UST operating permit expired 8-6-2001
Site has not conducted secondary containment testing. Secondary containment testing was to have been conducted by 1/1/2003. State Water Resources Control Board recommended that UST facilities be granted up to a maximum of 120 days to repair and retest. Thus, this testing should have been completed by 5/1/2003.

A new operating permit will be issued upon completion and passing of secondary containment testing (SB989)

The UST system must pass secondary containment testing by 12/31/2003 or you must close the UST or cease operation, until the above conditions are met.

No person from General Services available to sign this NOV. (will fax to Mike Dick).

PRINT FULL NAME: DATE:

JOB TITLE:

(ESTABLISHMENT REPRESENTATIVE'S SIGNATURE)
IDENTIFICATION (CA DRIVERS LICENSE #, OR DATE OF BIRTH)

Signature - Hazardous Materials Specialist — 12/23/03 Date

☐ If this box is checked, provide written documentation of compliance with this notice to this office within 5 days. Section 66272.1 (d) of the CA Code of Regulations requires, that at a minimum, this documentation must state:
1. The corrective action to be taken, and
2. The expected date of completion.

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222

DEH:HM-912 (Rev. 2/99) NCR

DISTRIBUTION: WHITE - HMD FILE
YELLOW - ESTABLISHMENT COPY

OFFICE USE ONLY
☐ Reinspection fee Required if Marked

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 6 DATE 12/23/03
PERMIT # 114261
TIME START 9AM END 12:30
BUS. CODE K70
SPECIALIST HAHN
INSPECTION CONTACT/TITLE Carolyn Gannett - Lab only
PHONE: (858)

BUSINESS NAME SD County Sheriff Crime Lab
ADDRESS 5255 Mt Etna Dr
CITY / ZIP SD 92117

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y	N/A		Y	N/A	
☒	☐	Unified Program Facility Permit current and available			Permit Expires on: 28 Feb 04
☒	☐	Employee Training is adequate	☐	☐	Employee Training records available
☒	☐	Waste disposal records available for review	☒	☐	Waste containers kept closed
☐	☐	Emergency contacts current o Updated today	☒	☐	Waste containers kept labeled
☒	☐	Chemical inventory current Updated today	☒	☐	Waste containers in good condition

☐ All violations noted on this compliance inspection report were corrected during this inspection.

UST and HAZ Mat Routine Inspection
Mike Dick had been contacted and arranged for a UST inspection w/ Rene LeMesnager. He had indicated that somebody from General Services would be present, nobody from General Services was present. There was ~~somebody~~ a General Services mtg planned and James from General Services opened the room where monitor is to provide access but did not stay for inspection. Copy of this report will be faxed to Mike Dick.

UST INSPECTION

(#1) OPERATING permit expired 8-6-2001 : NOV issued. (HAZ MAT permit current)

(#2) Containment sump had small amount of liquid in curvatures.. Sensor not in alarm..

(#3) Secondary containment testing not conducted : NOV issued.

(#4) Maintenance & Monitoring records not available.

☒ This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored

Initials of Business Representative: Gwen

Signature of Business Representative

12/23/03
Date Signed

Safety Mgr.
Title of Business Representative

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222; sdcdeh.org

COUNTY OF SAN DIEGO

SUPPLEMENTAL INSPECTION REPORT

EST. NUMBER H 114261
DATE 12, 23, 03
PAGE 2 OF 5

Office Use Only

BUSINESS ADDRESS: 5255 Mt. Etna Dr ZIP CODE: 92117

HAZ MAT INSPECTION (w/ Carolyn Gannett)

(1) Many of the Hazardous Waste containers are labeled as hazardous waste w/ accumulation start date and waste contents, but does not have generator name + address.
Ensure all hazardous waste containers have generator information.
Also – satellite containers must also be labeled as HAZARDOUS w/ contents listed plus rate at which disposed, ie wkly, monthly, etc.
Also Potassium dichromate waste container not labeled properly

Rooms 189 190

(2) Red Bags did not have generator label.
All small red bags did, but the larger ones they were placed in did not. These larger red bags also held waste not in smaller red bags.
Ensure all biohazardous/medical waste containers have generator name, address + phone number when first put into use

REMARKS:
Flammable chemical CS_2 was observed stored in a non-flammable refrigerator. This would be a FIRE MARSHALL's area (regulation) but is an area of concern/safety.

Within 30 days complete annual carcinogen list.
Recommend update Medical Waste Management Plan.

Signature of Business Representative

12-23-03
Date Signed

Safety Mgr.
Title

Department of Environmental Health, Hazardous Materials Management Division, P.O. Box 85261, San Diego, CA, 92186-5261
(619) 338-2222

DISTRIBUTION: WHITE-RETURN TO HMMD
YELLOW-BUSINESS RETAINS

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PERMIT # 114241
DATE 12/23/03
PAGE 3 OF 5

BUSINESS ADDRESS: 5255 Mt Etna Dr ZIP: 92117

VIOLATION REPORT: The items checked below refer to specific section numbers of Titles 19 & 22 of the California Code of Regulations (CCR), Chapters 6.5, 6.95 of the Health and Safety Code (HSC), and/or the San Diego County Code (SDCC).

All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

HAZARDOUS WASTE REQUIREMENTS

RECORDKEEPING

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V0131	UPF Permit not obtained SDCC. 68.905
	☐	V0132	No EPA Identification Number. 66262.12
	☐	V0133	Manifest copy not sent to DTSC. 66262.23
	☐	V0134	Exception Rpt. not filed with DTSC. 66262.42
	☐	V0135	Waste Manifests/Receipts not on-site for 3 years. 66262.40
	☐	V0136	No records of battery disposal. 66262.81
	☐	V0137	Manifest not properly completed. 66262.23
	☐	V0138	TSDF signed-manifest not on-site. 66262 40
	☐	V0139	Biennial report not sent to DTSC. 66262.41
	☐	V0140	LDR Documentation not available. 66268.7
	☐	V0141	Operating TSDF without authorization. 25201
	☐	V0142	Failed to notify local CUPA of onsite treatment of hazardous waste. 25201
	☐	V0143	Tiered Permitting notification has incomplete or incorrect information. 25201
	☐	V0144	SB14 compliance doc. not available. 25244.19
	☐	V0145	Excluded recyclable materials report not submitted to HMD. 25143.10

STORAGE AND HANDLING

(1)	☐	V0201	Waste container not kept closed. 66265.173
	☒	V0202	Waste container missing/improperly labeled. 66262.34, 25143.9
	☐	V0203	Damaged container not repackaged. 66265.171
	☐	V0204	Waste container not properly managed. 66265.173
	☐	V0205	Waste container in poor condition. 66265.171
	☐	V0206	Ignitable Waste < 50 feet of property line. 66265.176
	☐	V0207	Facility no maintained/operated to minimize possibility of fire, explosion or release. 66265.31
	☐	V0208	Storage area not inspected weekly. 66265 174
	☐	V0209	Waste stored > 90, 180, or 270 days. 66262.34
	☐	V0210	Hazwaste not cleaned up off floor surface. 66262.10b
	☐	V0211	Incompatibles in the same container. 66265.177
	☐	V0212	Incompatibles not stored separately. 66265.177
	☐	V0213	Container incompatible with waste. 66265.172
	☐	V0214	Waste oil contaminated. 25250.7
	☐	V0215	Used oil filters improperly managed. 66266.130
	☐	V0216	Hazardous materials not properly labeled. 25124

DISPOSAL AND TRANSPORTATION

	☐	V0301	Unauth. disposal of waste to._____. 25189.5
	☐	V0302	Unlawful transportation of hazardous waste. 25163
	☐	V0303	Waste transported without a manifest. 66262.20
	☐	V0304	Waste determination not made. 66262.11

TRAINING, CONTINGENCY PLAN & ER PROCEDURES

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V0401	Training records unavailable. 66265.16
	☐	V0402	Training program not adequate. 66265.16
	☐	V0403	Facility not designed to minimize release. 66265.31
	☐	V0404	Spill control equip not available. 66265.32
	☐	V0405	Aisle space is obstructed. 66265.35
	☐	V0406	Contingency plan not prepared and/or on file. 66265.51, 66265.53

HAZARDOUS WASTE TANK SYSTEMS

	☐	V1601	Hazwaste tanks w/o P.E assessment. 66265.191a, 66265.192a
	☐	V1602	P.E. Assessment report not complete. 66265.191g, 66265.192k
	☐	V1603	Hazwste tank system: no secondary containment. 66265.193a
	☐	V1604	Secondary containment not kept empty. 66265.196(b)(c), 66265.194(c)
	☐	V1605	No daily tank inspection/inspect. log 66265.195 (b&c)
	☐	V1606	Improper or absent spill/overfill protection. 66265.194b
	☐	V1607	Improper corrosion protection. 66265.191, 66265.192
	☐	V1608	Integrity assessment not done for tanks without secondary containment system. 66265.191
	☐	V1609	Improper use of hazwaste tank system. 66265.196
	☐	V1610	No PE assessment report-repairs/changes. 66265.196g
	☐	V1611	Improper closure of haz waste tank unit. 67383.3, 66265.197

HAZARDOUS MATERIALS REQUIREMENTS

BUSINESS PLAN REQUIREMENTS

	☐	V1001	UPF permit not obtained for Haz. Materials. 68.905
	☐	V1002	Hazardous Materials Business Plan (HMBP) not established/implemented. 25503.5
	☐	V1003	HMBP not amended to reflect changes25505
	☐	V1004	HMBP not submitted to HMD. 25505
	☐	V1005	Emergency Contacts not provided/current. 25509
	☐	V1006	Inventory is incomplete. 25504
	☐	V1007	Highly toxic gas (TLV≤10 ppm) not disclosed in chemical inventory. 68.1113
	☐	V1008	Annual carcinogen & reproductive toxin list not submitted to HMD 68.1113
	☐	V1009	Site map is not sufficient. 25509
	☐	V1010	Failure to report a release/threatened release. 25507
	☐	V1011	Personnel Training records not available. 19 CCR 2732
	☐	V1012	SPCC Plan required but not prepared. 25270.5 (c)
	☐	V2504	Owner or operator (O/O) Stationary Source (SS) with >TPQ of a regulated substance (RS) did not comply with Chapter 4.5 (CalARP process). 2745.1
	☐	V2553	O/O of a new or modified SS with >TPQ of RS did Not submit RMP. 2735.4, 25535 (d)

SIGNATURE OF BUSINESS REPRESENTATIVE

12-23-03
DATE SIGNED

SAFETY MGR
TITLE OF BUSINESS REPRESENTATIVE

DISTRIBUTION: WHITE-RETURN TO HMD; YELLOW-BUSINESS RETAINS

COUNTY OF SAN DIEGO

MEDICAL WASTE REQUIREMENTS COMPLIANCE INSPECTION REPORT

PERMIT # 114261
DATE 12/23/03
PAGE 4 OF 5

BUSINESS ADDRESS: 5255 Mt Etna ZIP: 92117

VIOLATION REPORT: *The items checked below refer to specific section numbers of the California Health and Safety Code Sections 25100 and 117600 et. al.; the San Diego County Code of Regulatory Ordinances Sections 68.1201 et. al.; and the California Code of Regulations, Title 22 Sections 65600 et. al.*

All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

STORAGE AND LABELING

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V4201	UPF Permit not obtained. 117705, 68.905
	☐	V4202	Medical Waste (MW) not separated from other waste at point of origin. 118275
	☐	V4203	Enclosure or designated accumulation area for MW containers not secured. 118310
	☐	V4204	MW storage area not posted with an approved and legible biohazardous waste "warning sign" in English and Spanish. 118310
	☐	V4205	Medical SOLID WASTE not secured to deny access to unauthorized persons. 68.1211
	☐	V4206	Spill of MW not properly cleaned up. 118300
	☐	V4207	Sharps not stored in approved and properly marked sharps container. 118275
	☐	V4208	Full sharps container not taped closed or tightly-lidded to preclude loss of contents. 118285
(2)	☒	V4209	Red bags/sharps container not labeled with generator's name, address, and phone number. 68.1205, 68.1206
	☐	V4210	MW not stored in approved and properly marked red bags. 118275
	☐	V4211	Red bags not tied off to prevent leakage/expulsion of contents during handling and storage. 118280
	☐	V4212	Red bags not containerized in rigid, leak resistant, and covered containers or bins. 118280
	☐	V4213	Waste container/bin not labeled on the lid and side so as to be clearly visible. 118280
	☐	V4214	Reusable containers/bins for MW storage not kept clean/sanitary. 118295, 118305
	☐	V4215	Frozen MW stored >90 days. 118280

TREATMENT AND DISPOSAL

	☐	V4251	MW treated by unapproved method/procedure. 118215
	☐	V4252	Standardized written operating procedures for steam sterilization not available. 118215
	☐	V4253	Recording thermometer not calibrated annually. 118215
	☐	V4254	No records of thermometer calibration checks for at least 3 years. 118215
	☐	V4255	Heat-sensitive tape/other approved method not used for each load treated onsite. 118215
	☐	V4256	Monthly biological indicator or other approved method not used to confirm proper disinfection. 118215
	☐	V4257	Onsite Steam Sterilization did not reach 121°C/250 °F for 30 minutes. 118215
	☐	V4258	Treatment records/logs of dates, time and temperature not available for 3 yrs. 118215
	☐	V4259	Disposal of untreated MW to an unauthorized point 118340
	☐	V4260	Transportation of MW without State Hauler Registration or a Limited Quantity Hauler Exemption (LQHE) from HMD. 118025

SMALL QTY. GENERATOR REQUIREMENTS (<200 lbs/mo MW)

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V4301	Medical Waste Mgmt. Plan (MWMP) not submitted to HMD (initial/updates if onsite treatment). 117935
	☐	V4302	Did not maintain and show proof of "onsite" medical waste treatment records for 3 years. 118215, 117943
	☐	V4303	Did not retain on file disposal receipts/tracking documents for waste shipped offsite for 2 yrs. 117945
	☐	V4304	No LQHE for "self-hauled" MW (<20 pounds of waste/wk) 118030, 118025
	☐	V4305	LQHE not renewed annually as required. 118030
	☐	V4306	Full sharps container stored >7 days at room temperature (for generators of >20lbs/month). 118285
	☐	V4307	Red bag waste stored >7 days at room temperature (for generators of >20lbs/month). 118280
	☐	V4308	Very small quantity generator (VSQG)(<20 lbs/mo.) storing MW for >30 days at room temperature. 118280
	☐	V4309	MWMP or equivalent information not onsite. 117945
	☐	V4310	Red bag waste stored >90 days at 0°C/32°F. 118280

LARGE QUANTITY GENERATOR REQUIREMENTS (≥ 200 pounds of waste generated per month)

	☐	V4351	MWMP not submitted to HMD (initial/updates). 117950, 117960, 117970
	☐	V4352	Records of MW treatment not available for 3 years. 118215, 117975
	☐	V4353	No disposal receipts/tracking documents for waste shipped offsite for at least 3 years. 117975
	☐	V4354	Full sharps container stored >7 days at room temp.118285
	☐	V4355	Red bag waste stored >7 days at room temp. 118280

PATHOLOGY, CHEMOTHERAPY, PHARMAC. & HAZ. WASTE

	☐	V4401	Chemo waste not segregated from other MW. 118275
	☐	V4402	Chemo waste container not properly labeled. 118275
	☐	V4403	Illegal disposal of chemo waste. 118340
	☐	V4411	Pathology waste not segregated from other MW. 118275
	☐	V4412	Pathology waste container not properly labeled. 118275
	☐	V4413	Illegal disposal of pathology waste. 118340
	☐	V4421	Pharmwaste not segregated from other MW 118275g
	☐	V4422	Pharmwaste not properly labeled. 118275(g)
	☐	V4423	Pharmwaste stored >90 days. (≥ 10 lbs/yr) 118280(e)
	☐	V4431	VSQG of pharmwaste (<10 lb/yr) stored >1yr. 118280(e)
	☐	V4432	Illegal disposal of pharmaceutical waste. 118340, 118222
	☐	V4441	Illegal disposal of photo/hazwaste to sewer/trash. 25189.5

ONSITE MW TREATMENT FACILITY REQUIREMENTS

	☐	V4501	Onsite MW treatment permit not obtained. 117950, 118130, 118155, 65620
	☐	V4502	Current copy of the MW treatment permit not available. 65621(f), 65623, 118165, 118180
	☐	V4503	Condition(s) of the MW treatmt. permit violated 65623

SIGNATURE OF BUSINESS REPRESENTATIVE

12/23/03
DATE SIGNED

Safety Mgr
TITLE OF BUSINESS REPRESENTATIVE

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PERMIT #: 114261
DATE: 12/23/03
PAGE: 5 OF 5

BUSINESS ADDRESS: _____ **ZIP:** _____

VIOLATION REPORT: The items checked below refer to specific section numbers of Title 23 of the California Code of Regulations (CCR), Chapters 6.7, of the Health & Safety Code (HSC) & the County Code of Regulatory Ordinances (SDCC) The following code sections are either in violation (V) with the Underground Storage Tank laws and regulations or Non-Applicable (N/A). **All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.**

GENERAL UNDERGROUND STORAGE TANK (UST) REQUIREMENTS

#	VIOLATION DESCRIPTION	VIOL	V	NA	#	VIOLATION DESCRIPTION	VIOL	V	NA
UST SYSTEM RECORDS					**FILE RECORDS**				
1	UPF Permit current and at facility? 25284; 68.905, 68.1003, 68.1005	3101	✓		3 NOV	Secondary containment testing conducted at 6mo/36 months 25284.1; 2637(a)	3112		
1	Operating Permit current and at facility? 25284(a); 25286(a), 2712 (i), 68.1003	3102	✓			Secondary Containment testing submitted to CUPA within 30 days 2637(a)(4)	3113		
	UST Repair/modify/closure permit obtained? 68.1005	3103	✓			Releases reported/recorded? 25294, 25295; 2650, 2651, 2652	3151		
	Forms A and B submitted? 25286(a)	3104			4	Maintenance & Monitoring records available? 2712 (b)	3152		
	Financial Responsibility current? 25292.2(a)	3105				Monitoring certification submitted to CUPA within 30 days? 2637(b)(4)	3153		
	Owner/Operator Agreement Submitted? 25284(a)(3); 2620(b)	3106				Enhanced Leak detection performed if required? 25292.4	3154		
	Monitoring Plan approved? 2632(b), 2634(d), 2711(a)(9)	3107				Contractor trained? 25284.1(a)(5)(D); 2637(b)(1)(B)	3155		
	UST Emergency Response Plan current? 25289(b); 2632(b), 2634(e)	3108				Contractor has Class A, C-10, C34, C36, or C61 license?25284.1(a)(5)(D); 2637(b)(1)(A)	3156		
	Monitoring plot plan submitted? 2711(a)(8)	3109				No evidence of falsification of records or tampering with monitoring system? 25299(d)	3157		
	Annual certification of ATG and sensors? 2641(j)	3110				All operating permit conditions met? 2712	3158		
	Continuous monitoring system certified annually? 25284.1(a)(4)(C), 2630(d), 2641(j)	3111							

UST SYSTEM INSPECTION

Requirements applicable for both, single & double walled systems

#	VIOLATION DESCRIPTION	VIOL	TANK #							
			PRODUCT							
			V	NA	V	NA	V	NA	V	NA
	Is monitor not in state of alarm at beginning of inspection? 2632(d) ✓	3251								
	Audible and visual alarms functioning properly? 2632(c)(2)(B), 2636(f)(1) ✓	3252								
	Sticker/tag affixed to monitoring equipment at certification? 2637(b)(5) ✓	3253								
	UST system has approved overfill protection? 2635(b)(2) ✓	3254								
	Is spill container in good condition and liquid free? 2635 (b)(1) ✓	3255								
	Fill box drain functional or alternative available? 2635(b)(1)(C) ✓	3256								
2	Is containment sump liquid free? 2631(d)(4)	3257	✓							
	Are sensors placed adequately and/or at low point in sumps? 2641(a) ✓	3258								
	Dispenser containment present if currently required? 25284.1(a)(5)(C)	3259								
	Dispenser containment adequately monitored? 2636(f)(1) & (g)	3260								
	Dispenser containment free of liquid? 2631(d)(4)	3261								
	Secondary containment piping unobstructed to allow drainage to sump? 2632 ✓	3262								
	All monitoring system components &/or devices functional? 2630(a), 2641(j), 2632 ✓	3263								
CATHODIC PROTECTION										
	System checked as required by tester? (6 mo./3yrs.) 2635(a)(2)(A)	3301								
	Impressed current system check every 60 days? 2635(a)(2)(A)	3302								
LINING REQUIREMENTS										
	Lined UST test performed after 10 years then every 5? 2663(h)	3311								
CLOSURE REQUIREMENTS:										
	Temporary closure requirements completed? 25298, 2671	3322								
	Unused tank properly closed? Permanent closure requirements met? 25298, 2672	3324								

_____ 12-23-03 Safety Mgr

SIGNATURE OF BUSINESS REPRESENTATIVE **DATE SIGNED** **TITLE OF BUSINESS REPRESENTATIVE**

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 1 DATE 5/1/03
PERMIT # 11426
TIME START 900 END 1000
BUS. CODE K70
SPECIALIST HAHN
INSPECTION CONTACT/TITLE Mary Buglio
PHONE (858) 467-4600
Paid 8/11/03 $ fee

BUSINESS NAME County Sheriff Crime Lab
ADDRESS 5255 Mt Etna Dr.
CITY/ZIP SD 92114

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

Y	N/A		Y	N/A	
☒	☐	Unified Program Facility Permit current and available			Permit Expires on: 28/FEB04.
☒	☐	Hazardous Materials Business Plan available	☒	☐	Contingency Plan available
☒	☐	Employee Training is adequate	☒	☐	Employee Training records available
☒	☐	Waste disposal records available for review	☒	☐	Waste containers kept closed
☒	☐	Emergency contacts current ☐ Updated today	☐	☐	Waste containers kept labeled
☒	☐	Chemical inventory current ☐ Updated today	☒	☐	Waste containers in good condition

REMARKS:

JUN 26 2003

* 2 Red biohazard bags not labeled w/generators name, address + phone #, in Trace Room. ~~(These)~~ These were labeled during inspection

- Inventory updated to include the following compressed gases: He, Air, H_2, + N_2 (g) + N_2 (l)
- Narcotic waste (phenol/chloroform) D022 added
- Site is large quantity generator (Biohazard waste)

* Hazardous waste label observed on Sharps container. Items ~~in~~ inside are not haz waste - remove label + replace w/ generator label.

- UST not inspected on this day - previous inspection on UST conducted on 12/26/02 - NOV given today on no SB989 testing.

☒ This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.

Initials of Business Representative ✓

Mary Buglio — Signature of Business Representative
5/1/03 — Date Signed
Safety Mgr — Title

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222; sdcdeh.org

DEH:HM-924 (Rev. 05/02) NCR DISTRIBUTION: WHITE- RETURN TO HMD YELLOW-BUSINESS RETAINS

see Kiva Comments

COUNTY OF SAN DIEGO

OFFICIAL NOTICE - NOTICE OF VIOLATION

PAGE 1 OF 1
EST NO. H 114261
DATE 5-1-2003
TIME START 900 END 1200
BUS. CODE K70
SPECIALIST HAHN
CONTACT Mary Buglio
TITLE
PHONE 858. 467. 4600

BUSINESS NAME County Sheriff Crime Lab
ADDRESS 5255 Mt. Etna Dr
CITY S.D ZIP 92117
OWNERS NAME Sheriff Dept. PHONE
OWNERS ADDRESS CITY ZIP

An inspection of your business was conducted, under the authority of Section 25185 of the California Health and Safety Code. This inspection was conducted with purpose of determining compliance with Chapters 6.5, 6.7, 6.95 in Division 20, of the California Health and Safety Code (H&S); Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). ***The following statements describe conditions which are violations of the law or that require further investigation.*** *These observations require a formal response and/or immediate corrective action be taken. Failure to correct these violations or to provide information requested in a timely manner may be a factor in determining the course of further legal action.*

SB 989 testing has not occurred, (Secondary containment)

This is in violation of CCR Title 23 2637 (a)
This section states ~~that~~ SII Secondary containment systems must be tested by Jan 1, 2003.

Within 15 days schedule this testing with a licensed tank tester - contact Susan A. Hahn @ 858. 694-2875 w/ scheduled date.

Specialist will fax / contact Paco Esparza @ Sheriff's Dept and Jim Jordan @ General Services regarding this violation.
5/1/03 pm - emailed Paco Esparza + Jim Jordan regarding this NOV.

PRINT FULL NAME: MARY BUGLIO for general services DATE: 5/1/03
JOB TITLE: Safety Mgr
(ESTABLISHMENT REPRESENTATIVE'S SIGNATURE)
IDENTIFICATION (CA DRIVERS LICENSE #, OR DATE OF BIRTH) W5212984
Susan A Hahn 5/1/03
Signature - Hazardous Materials Specialist Date

☐ If this box is checked, provide written documentation of compliance with this notice to this office within 5 days.
Section 66272.1 (d) of the CA Code of Regulations requires, that at a minimum, this documentation must state:
1. The corrective action to be taken, and
2. The expected date of completion.

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261; (619) 338-2222

DEH:HM-912 (Rev. 2/99) NCR
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CRIME LAI

COUNTY OF SAN DIEGO

INTER-DEPARTMENTAL CORRESPONDENCE

SHIRLEY PAMSEY

April 5, 2004 CBO

Mt. East
Etna.

TO: Gary Erbeck, Director
Department of Environmental Health

FROM: Donald F. Steuer
Chief Financial Officer

CHIEF FINANCIAL OFFICER LETTER REGARDING FINANCIAL RESPONSIBILITY FOR UNDERGROUND STORAGE TANKS (UST) FOR THE FISCAL YEAR ENDED JUNE 30, 2003

The attached annual Chief Financial Officer letter demonstrating the County's financial responsibility for maintaining Underground Storage Tanks (UST) is submitted to the Department of Environmental Health pursuant to Title 40, Code of Federal Regulations (CFR), Part 280, Subpart H, Section 280.93.

The aforementioned federal regulations requires all owners and operators to show, through an approved method, their ability to pay for potential cleanup and third party damages resulting from accidental releases from their USTs. To demonstrate financial responsibility, the County of San Diego uses the approved local government financial test, pursuant to Title 40, CFR Section 280.105. In this regard, this report is submitted to your office in your capacity as the regulator in this area for the County of San Diego.

As shown in the attached report, the County currently owns and operates 30 underground tanks that are used to store gasoline and diesel fuel at various County facilities. Financial responsibility means that money will be available to meet potential cleanup costs or third party lawsuits resulting from leaking USTs.

The County successfully passed the test with a score of 0.298 (it must be greater than zero). Assumptions in the calculations, for which we received authorization from the Environmental Protection Agency, may include netting advance refundings of County debt and excluding certain Federal and State revenues with no matching local fund requirements.

As evidence that this procedure has been satisfactorily completed, copies of this letter are provided to the Department of General Services, Fleet Management, to post at all of the UST sites.

If you have any questions, please contact Chris Gilmore, Deputy Controller, at (619) 531-5416 or Shirley Ramsay, Manager of the Controller Branch Office, at (858) 694-2007.

DONALD F. STEUER
Chief Financial Officer

AFC:CPG:lc

Attachments

COUNTY OF SAN DIEGO

INTER-DEPARTMENTAL CORRESPONDENCE

April 5, 2004

TO: Gary W. Erbeck, Director
Department of Environmental Health

FROM: Donald F. Steuer
Chief Financial Officer

MUNICIPAL FINANCIAL TEST DEMONSTRATING RESPONSIBILITY FOR UNDERGROUND TANKS – FISCAL YEAR ENDED JUNE 30, 2003

Pursuant to Federal Regulation 40 CFR 280.105 (c), this letter is in support of the use of the local governmental financial test to demonstrate financial responsibility for taking corrective action and/or compensating third parties for bodily injury and property damage caused by sudden accidental releases and/or nonsudden accidental releases in the amount of at least $500,000 per occurrence and $1 million annual aggregate arising from operating underground storage tanks (see worksheet for Municipal Financial Test, Attachment A).

A listing of underground storage tank facilities that are assured by this financial test is included on Attachment B.

The County of San Diego has not received an adverse opinion, or a disclaimer of opinion, from an independent auditor on its financial statements for the latest completed fiscal year.

If you have any questions, please contact Chris Gilmore, Deputy Controller, at (619) 531-5416.

DONALD F. STEUER
Chief Financial Officer

CBO:SAR:lc

Attachments

c: Michael P. Dorsey, Chief, Environmental Health
John McTighe, Director, General Services
John A. Clements, Manager, Fleet Maintenance Support

ATTACHMENT A

COUNTY OF SAN DIEGO
WORKSHEET FOR MUNICIPAL FINANCIAL TEST
Year Ended June 30, 2003
(In Thousands *)

Part I: Basic Information		
1. Total Revenues		
a. Revenues	3,637,819	*
b. Subtract interfund transfers	769,737	*
c. Total Revenues	2,868,082	*
2. Total Expenditures		
a. Expenditures	4,214,740	*
b. Subtract Interfund Transfers	773,725	*
c. Total Expenditures	3,441,015	*
3. Local Revenues		
a. Total Revenues (from 1c)	2,868,082	*
b. Subtract intergovernmental transfers	1,934,030	*
c. Local Revenues	934,052	*
4. Debt Service		
a. Interest and fiscal charges	40,238	*
b. Add debt retirement	128,149	*
c. Total Debt Service	168,387	*
5. Total Funds	1,480,809	*
6. Population	2,961	*
Part II: Application of Test		
7. Total Revenues to Population		
a. Total Revenues (from 1c)	2,868,082	*
b. Population (from 6)	2,961	*
c. Divide 7a by 7b	968.619	
d. Subtract 417	551.619	
e. Divide by 5,212	0.106	
f. Multiply by 4.095	0.433	
8. Total Expenses to Population		
a. Total Expenses (from 2c)	3,441,015	*
b. Population (from 6)	2,961	*
c. Divide 8a by 8b	1,162.112	
d. Subtract 524	638.112	
e. Divide by 5,401	0.118	
f. Multiply by 4.095	0.484	
9. Local Revenues to Total Revenues		
a. Local Revenues (from 3c)	934,052	
b. Total Revenues (from 1c)	2,868,082	*
c. Divide 9a by 9b	0.326	
d. Subtract .695	(0.369)	
e. Divide by .205	(1.802)	
f. Multiply by 2.840	(5.117)	
10. Debt Service to Population		
a. Debt Service (from 4c)	168,387	*
b. Population (from 6)	2,961	*
c. Divide 10a by 10b	56.868	
d. Subtract 51	5.868	
e. Divide by 1,038	0.006	
f. Multiply by -1.866	(0.011)	

11. Debt Service to Total Revenues		
a. Debt Service (from 4c)	168,387	*
b. Total Revenues (from1c)	2,868,082	*
c. Divide 11a by 11b	0.059	
d. Subtract .068	(0.009)	
e. Divide by .259	(0.036)	
f. Multiply by -3.533	0.127	
12. Total Revenues to Total Expenses		
a. Total Revenues (from 1c)	2,868,082	*
b. Total Expenses (from 2c)	3,441,015	*
c. Divide 12a by 12b	0.833	
d. Subtract .910	(0.077)	
e. Divide by .899	(0.085)	
f. Multiply by 3.458	(0.294)	
13. Funds Balance to Total Revenues		
a. Total Funds (from 5)	1,480,809	*
b. Total Revenues (from 1c)	2,868,082	*
c. Divide 13a by 13b	0.516	
d. Subtract .891	(0.375)	
e. Divide by 9.156	(0.041)	
f. Multiply by 3.270	(0.134)	
14. Funds Balance to Total Expenses		
a. Total funds (from 5)	1,480,809	*
b. Total Expenses (from 2c)	3,441,015	*
c. Divide 14a by 14b	0.430	
d. Subtract .866	(0.436)	
e. Divide by 6.409	(0.068)	
f. Multiply by 3.270	(0.222)	
15. Total Funds to Population		
a. Total Funds (from 5)	1,480,809	*
b. Population (from 6)	2,961	*
c. Divide 15a by 15b	500.104	
d. Subtract 270	230.104	
e. Divide by 4,548	0.051	
f. Multiply by 1.866	0.094	
16. Add 7f + 8f + 9f + 10f + 11f + 12f + 13f + 14f + 15f + 4.937	0.298	

I hereby certify that the financial index shown on line 16 of the worksheet is greater than zero and that the wording of this letter is identical to the wording specified in 40 CFR Part 280.105(c) as such regulations were constituted on the date shown immediately below.

Donald F. Steuer

DONALD F. STEUER
Chief Financial Officer

4-6-04
Date

Fleet Management Fuel Tank Inventory

ATTACHMENT B
03/15/04

	LOCATION	ADDRESS	Fuel Type	Tank	Size	Make Model TLS E J Ward	Under Ground Above Ground
1	ALPINE (17)	2910 Tavern Road, Alpine 91901	Diesel	1	12,000	Veeter Root , 350	Under Ground
			Gasoline	1	12,000	Veeter Root , 350	Under Ground
2	BONSALL (58)	2370 Pala Road, Bonsall 92003	Diesel	1	12,000	Veeter Root , 350	Under Ground
			Gasoline	1	12,000	Veeter Root , 350	Under Ground
3	BORREGO (37)	4550 Rango Way, Borrego 92004	Diesel	1	12,000	Veeter Root , 350	Under Ground
			Gasoline	1	12,000	Veeter Root , 350	Under Ground
4	CAMPO (23)	970 Forest Gate Road, Campo 91906	Diesel	1	12,000	Veeter Root , 350	Under Ground
			Gasoline	1	12,000	Veeter Root , 350	Under Ground
5	COC (36)	5555 Overland Ave. ,San Diego 92123	Diesel	1	12,000	Veeter Root , 350	Under Ground
			Gasoline	1	20,000	Veeter Root , 350	Under Ground
6	DESCANSO (32)	24592 Viejas Grade Road, Descanso 91916	Gasoline	1	10,000	Veeter Root , 350	Under Ground
7	EAST MESA (35)	446 Alta Road, San Diego 92173	Diesel	1	12,000	Veeter Root , 350	Under Ground
			Gasoline	1	12,000	Veeter Root , 350	Under Ground
8	ENCINITAS (95)	179 N. El Camino Real, Encinitas 92024	Gasoline	1	12,000	Veeter Root , 350	Under Ground
9	JULIAN (38)	1524 Highway 78 ,Julian 92036	Diesel	1	12,000	Veeter Root , 350	Under Ground
			Gasoline	1	12,000	Veeter Root , 350	Under Ground
10	LAKESIDE (33)	13115 Willow Road, Lakeside 92040	Diesel	1	12,000	Veeter Root , 350	Under Ground
			Gasoline	1	12,000	Veeter Root , 350	Under Ground
11	MT LAGUNA (35)	33947 Mt. Laguna Drive, Mt Laguna 91948	Diesel	1	2,000	V R, Gaurdian 250	Above Ground
			Gasoline	1	1,000	V R, Gaurdian 250	Above Ground
12	MT PALOMAR (56)	20745 State Park Road, Mt. Palomar 92060	Diesel	1	2,000	V R, Gaurdian 250	Above Ground
			Gasoline	1	1,000	V R, Gaurdian 250	Above Ground

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COUNTY OF SAN DIEGO - UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM

This form is intended for use by contractors performing initial & periodic testing of UST secondary containment systems. Use the appropriate pages of this form to report results for all components tested. The completed form, written test procedures, and printouts from tests (if applicable), must be provided to the facility owner/operator for submittal to the County of San Diego Department of Environmental Health Hazardous Materials Division UST Group.

Establishment Number: 114261 **Plan Check Number:** RT 2787

1. FACILITY INFORMATION

Facility Name:	County of San Diego Crime Lab	Date of Testing:	8/6/2004
Facility Address:	5255 Mt. Etna Drive San Diego, CA 92111		**Test Type:**
Facility Contact:	Mike McNamara	Phone: (858) 694-4497	☒ Initial
Date Local Agency Was Notified of Testing :	N/A	Permit Site – SB989 Upgrades	☐ 6 month
Name of Local Agency Inspector *(if present during testing)*:	None		☐ 36 month

2. TESTING CONTRACTOR INFORMATION

Company Name:	Jenal Engineering Corporation		
Technician Conducting Test:			
Credentials:	☒ CSLB Licensed Contractor	☐ SWRCB Licensed Tank Tester	
License Type:	A	License Number: 602806, Hazmat 4257	

Manufacturer Training

Manufacturer	Component(s)	Date Training Expires
INCON TS-STS	02092755 (Keegan Slatten)	09/21/2004
INCON TS-STS	02092756 (Craig Nowak)	09/21/2004

3. SUMMARY OF TEST RESULTS

Component	Pass	Fail	Not Tested	Repairs Made	Component	Pass	Fail	Not Tested	Repairs Made
T-1, Diesel Annular	☒	☐	☐	☐		☐	☐	☐	☐
T-1, FOS Containment Line	☒	☐	☐	☐		☐	☐	☐	☐
T-1, FOR Containment Line	☒	☐	☐	☐		☐	☐	☐	☐
T-1, Diesel Fill Sump	☒	☐	☐	☐		☐	☐	☐	☐
T-1, Diesel Spill/Fill Bucket	☒	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐

If hydrostatic testing was performed, describe what was done with the water after completion of tests:

New sumps and spill bucket installed at the site. Sumps were rinsed and wiped clean prior to placing water in the system.

Waste generated was bucketed and manifested under waste manifest #22721679.

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

To the best of my knowledge, the facts stated in this document are accurate and in full compliance with legal requirements

Technician's Signature: Keegan Slatten Date: August 6, 2004

4. TANK ANNULAR TESTING

Test Method Developed By:	☒ Tank Manufacturer	☒ Industry Standard	☐ Professional Engineer
	☐ Other *(Specify)*		
Test Method Used:	☐ Pressure	☒ Vacuum	☐ Hydrostatic
	☐ Other *(Specify)*		
Test Equipment Used: Dwyer 477-3 Digital Manometer		Equipment Resolution: +/- .5 f.s.	

	T-1, Diesel			
Is Tank Exempt From Testing?[1]	**No**			
Tank Capacity:	**5,000 gallons**			
Tank Material:	**Plysteel**			
Tank Manufacturer:	**Joor Elutron**			
Product Stored:	**Diesel**			
Wait time between applying pressure/vacuum/water and starting test:	**Over 1 hour**			
Test Start Time:	**8:22 am**			
Initial Reading (R_I):	**15.0" hg**			
Test End Time:	**9:22 am**			
Final Reading (R_F):	**15.0" hg**			
Test Duration:	**1 Hour**			
Change in Reading (R_F-R_I):	**0.00" hg**			
Pass/Fail Threshold or Criteria:	**+/- 0.0" hg**			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Was sensor removed for testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, & recommended follow-up for failed tests)*

[1] Secondary containment systems where the continuous monitoring automatically monitors both the primary and secondary containment, such as systems that are hydrostatically monitored or under constant vacuum, are exempt from periodic containment testing. {California Code of Regulations, Title 23, Section 2637(a)(6)}

3. SECONDARY PIPE TESTING

Test Method Developed By:	☐ Piping Manufacturer	☒ Industry Standard	☐ Professional Engineer
	☐ Other *(Specify)*		
Test Method Used:	☒ Pressure	☐ Vacuum	☐ Hydrostatic
	☐ Other *(Specify)*		
Test Equipment Used: Dwyer 477-3 Digital Manometer		Equipment Resolution: +/- .5 f.s.	

	F.O. Supply	F.O. Return		
Piping Material:	**Poly Pipe**	**Poly Pipe**		
Piping Manufacturer:	**Environ**	**Environ**		
Piping Diameter:	**¾" jacketed**	**¾" jacketed**		
Length of Piping Run:	**20'**	**20'**		
Product Stored:	**Diesel Fuel**	**Empty**		
Method and location of piping-run isolation:	**In turbine sump & looped back to sump**	**In turbine sump & looped back to sump**		
Wait time between applying pressure/vacuum/water and starting test:	**15 minutes**	**15 minutes**		
Test Start Time:	**9:06 am**	**9:06 am**		
Initial Reading (R_I):	**5.0 psi**	**5.0 psi**		
Test End Time:	**10:06 am**	**10:06 am**		
Final Reading (R_F):	**5.0 psi**	**5.0 psi**		
Test Duration:	**1 hour**	**1 hour**		
Change in Reading (R_F-R_I):	**0.00**	**0.00**		
Pass/Fail Threshold or Criteria:	**+/- 0.0 psi**	**+/- 0.0 psi**		
Test Result:	☒ **Pass** ☐ **Fail**	☒ **Pass** ☐ **Fail**		

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

Note: The pipe is tersuary contained. The 4" ducting is being used as a pulling chase only. The secondary pipe is the jacketed portion of the pipe. This line was looped above grade via a testing tube. One test was performed for both containment lines.

Test run while secondary tank was under vacuum.

6. PIPING SUMP TESTING

Test Method Developed By:	☒ Sump Manufacturer ☒ Industry Standard ☐ Professional Engineer ☐ Other *(Specify)*		
Test Method Used:	☐ Pressure ☐ Vacuum ☒ Hydrostatic ☐ Other *(Specify)*		
Test Equipment Used: Incon TS - STS		Equipment Resolution: +/- .0001	

	T-1, Diesel			
Sump Diameter:	42"			
Sump Depth:	24"			
Sump Material:	Fiberglass			
Height from Tank Top to Top of Highest Piping Penetration:	15" F.O.S.			
Height from Tank Top to Lowest Electrical Penetration:	9"			
Condition of sump prior to testing:	New			
Portion of Sump Tested[2]	Approx. 90 %			
Does turbine shut down when sump sensor detects liquid (both product and water)?*	N/A – Suction Syst.			
Turbine shutdown response time	N/A			
Is system programmed for fail-safe shutdown?*	Yes			
Was fail-safe verified to be operational?*	Yes			
Wait time between applying pressure/vacuum/water and starting test: **Water**	Over 24 hours			
Test Start Time:	10:37am 10:54am			
Initial Reading (R_I):	5.5610 5.5605			
Test End Time:	10:52am 11:09am			
Final Reading (R_F):	5.5604 5.5606			
Test Duration:	15 Minutes X 2			
Change in Reading (R_F-R_I):	-.0006 +.0001			
Pass/Fail Threshold or Criteria:	+/-.0015			
Test Result:	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail
Was sensor removed for testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

There is only one sump atop this UFST. Water had been in sump for over 24 hours prior to commencement of test.

[2] If the entire depth of the sump is not tested, specify how much was tested. If the answer to any of the questions indicated with an asterisk (*) is "NO" or "NA", the entire sump must be tested. (See SWRCB LG-160)

7. UNDER-DISPENSER CONTAINMENT (UDC) TESTING

Test Method Developed By:	☐ UDC Manufacturer	☐ Industry Standard	☐ Professional Engineer	☐ Other *(Specify)*
Test Method Used:	☐ Pressure	☐ Vacuum	☐ Hydrostatic	☐ Other *(Specify)*
Test Equipment Used:		Equipment Resolution:		

UDC Manufacturer:				
UDC Material:				
UDC Depth:				
Height from UDC Bottom to Top of Highest Piping Penetration:				
Height from UDC Bottom to Lowest Electrical Penetration:				
Condition of UDC prior to testing:				
Portion of UDC Tested[3]				
Does turbine shut down when UDC sensor detects liquid (both product and water)?*				
Turbine shutdown response time				
Is system programmed for fail-safe shutdown?*				
Was fail-safe verified to be operational?*				
Wait time between applying pressure/vacuum/water and starting test				
Test Start Time:				
Initial Reading (R_I):				
Test End Time:				
Final Reading (R_F):				
Test Duration:				
Change in Reading (R_F-R_I):				
Pass/Fail Threshold or Criteria:				
Test Result:	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Was sensor removed for testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

N/A – No under dispenser containment at this facility. This is an e-gen system.

[3] If the entire depth of the UDC is not tested, specify how much was tested. If the answer to any of the questions indicated with an asterisk (*) is "NO" or "NA", the entire UDC must be tested. (See SWRCB LG-160)

8. FILL RISER CONTAINMENT SUMP TESTING

Facility is Not Equipped With Fill Riser Containment Sumps ☐				
Fill Riser Containment Sumps are Present, but were Not Tested ☐				
Test Method Developed By:	☐ Sump Manufacturer	☐ Industry Standard	☐ Professional Engineer	☐ Other *(Specify)*
Test Method Used:	☐ Pressure	☐ Vacuum	☐ Hydrostatic	☐ Other *(Specify)*
Test Equipment Used:			Equipment Resolution:	

Sump Diameter:				
Sump Depth:				
Height from Tank Top to Top of Highest Piping Penetration:				
Height from Tank Top to Lowest Electrical Penetration:				
Condition of sump prior to testing:				
Portion of Sump Tested				
Sump Material:				
Wait time between applying pressure/vacuum/water and starting test:				
Test Start Time:				
Initial Reading (R_I):				
Test End Time:				
Final Reading (R_F):				
Test Duration:				
Change in Reading (R_F-R_I):				
Pass/Fail Threshold or Criteria:				
Test Result:	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Is there a sensor in the sump?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Does the sensor alarm when either product or water is detected?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor removed for testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

This sump is common with the piping sump. See section 6 of this report for test data.

9. SPILL/OVERFILL CONTAINMENT BOXES

Facility is Not Equipped With Spill/Overfill Containment Boxes ☐				
Spill/Overfill Containment Boxes are Present, but were Not Tested ☐				
Test Method Developed By:	☐ Spill Bucket Manufacturer ☒ Industry Standard ☐ Professional Engineer ☐ Other *(Specify)*			
Test Method Used:	☐ Pressure ☐ Vacuum ☒ Hydrostatic ☐ Other *(Specify)*			
Test Equipment Used: Incon STS 1000			Equipment Resolution: +/- .0001	
	T-1, Diesel			
Bucket Diameter:	**12"**			
Bucket Depth:	**13"**			
Wait time between applying pressure/vacuum/water and starting test:	**Over 24 hours**			
Test Start Time:	**10:37am** **10:54am**			
Initial Reading (R_I):	**2.1629** **2.1630**			
Test End Time:	**10:52am** **11:09am**			
Final Reading (R_F):	**2.1629** **2.1629**			
Test Duration:	**15 Minutes X 2**			
Change in Reading (R_F-R_I):	**0.0000** **-.0001**			
Pass/Fail Threshold or Criteria:	**+/-.0015**			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

New spill bucket installed.

Send Completed Form to:
County of San Diego, Department of Environmental Health, Hazardous Materials Division
UST Group
P.O. Box 129261
San Diego CA 92112-9261

Permit #: **114261**
State ID: 37-000-114261

Operating Permit Issued on 08/09/2004
Operating Permit Expires on: 08/08/2007
Reference Number: 136

San Diego County

Department of Environmental Health

UNDERGROUND STORAGE TANK OPERATING PERMIT

UST Facility Name: SD CNTY SHERIFF CRIME LAB
Site Address: 5255 MT ETNA DR, SAN DIEGO, 92117-6912
Tank Owner's Name: COUNTY OF SAN DIEGO
Tank Operator's Name SD CNTY SHERIFF CRIME LAB

See reverse side for permit conditions and requirements.

	Tank#	Capacity (gallons)	Tank Use	Piping Construction	Contents	Monitoring Alternative
1	23515	4000	Motor Vehicle Fuel	Double wall	DIESEL	DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL

Total Number of Operating Permitted Tanks: 1

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2139 1-800-253-9933
http://www.sdcounty.ca.gov/deh/hmd/index.html

Designation of Underground Storage Tank (UST) Operator

UST Owner Statement of Understanding and Compliance with UST Requirements

Facility Name: Sheriff Regional Crime Lab	Facility Permit #: 1 1 4 2 6 1
Facility Address: 5255 Mount Etna	Phone:
City: San Diego	Zip Code: 92117-

Reason for Submitting this Form *(Check One)* ☒ **Initial Certification** ☐ **Change of Designated Operator** ☐ **Certificate Renewal**

Designated UST Operator(s) for this Facility

PRIMARY DESIGNATED UST OPERATOR

Designated Operator's Name: Kenneth M. Johnson
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (858)694-3615
International Code Council Certification #: TBD

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☐ Employee
☐ Service Technician ☒ Third-Party
Expiration Date: 12/06

ALTERNATE 1 ***(Optional)***

Designated Operator's Name:
Business Name *(If different from above)*:
Designated Operator's Phone #:
International Code Council Certification #:

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☐ Employee
☐ Service Technician ☐ Third-Party
Expiration Date:

ALTERNATE 2 ***(Optional)***

Designated Operator's Name:
Business Name *(If different from above)*:
Designated Operator's Phone #:
International Code Council Certification #:

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☐ Employee
☐ Service Technician ☐ Third-Party
Expiration Date:

NOTIFY THE LOCAL REGULATORY AGENCY WITHIN 30 DAYS OF ANY CHANGES TO THIS INFORMATION

I certify that, for the facility indicated at the top of this page, the individual(s) listed above will serve as Designated UST Operator(s). The individual(s) will conduct and document monthly facility inspections and annual facility employee training, in accordance with California Code of Regulations, Title 23, Sections 2715(c) - (f).
Furthermore, I understand and am in compliance with the requirements (statutes, regulations, and local ordinances) applicable to underground storage tanks.

Anthony Boles
NAME OF TANK OWNER OR OWNER'S AGENT (Please Print)

DATE: 12 / 14 / 04

SIGNATURE OF TANK OWNER OR OWNER'S AGENT

OWNER'S PHONE #: (858) 694-2065

Return this completed form to: **HMD-Designated UST Operator**
P.O. Box 129261, San Diego, CA 92112-9261

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

Rec'd 1-28-05 Env. File

PAGE 1 of 3 DATE 11/23/2004
PERMIT # ~~114216~~ 114261
TIME START 1:00 P END 4:30 P
BUS. CODE K70
SPECIALIST Maschue
INSPECTION CONTACT/TITLE
Anthony DeMaria / Crim III/Safety
PHONE 858-467-4600

BUSINESS NAME San Diego County Sheriff Crime Lab

ADDRESS 5255 Mt. Etna Drive

CITY/ZIP San Diego, CA 92117

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y	N/A		Y	N/A	
☒	☐	Unified Program Facility Permit current and available			Permit Expires on: 28/FEB /05 .
☒	☐	Employee Training is adequate	☒	☐	Employee Training records available
☒	☐	Waste disposal records available for review	☒	☐	Waste containers kept closed
☒	☐	Emergency contacts current ☐ Updated today	☒	☐	Waste containers kept labeled
☒	☐	Chemical inventory current ☐ Updated today	☒	☐	Waste containers in good condition

☐ **All violations noted on this compliance inspection report were corrected during this inspection.**

JAN 0 6 2005

A Routine Inspection was conducted this date with Criminalist III and Safety Officer, Anthony DeMaria. Walk-through consisted of above grade for UST, DNA Labs, Firearms, Narcotics, Fingerprinting, Forensic Alcohol, Trace Evidence, Photo Labs, and Hazardous Waste Storage Area.

REMARKS:

A) The Crime Lab is possibly a large quantity generator of medical waste. Please do an audit of actual weights of medical waste disposal each month to determine if your level is at or above 200 pounds per month. If at or above this threshold, weekly medical waste pick-ups are required by the Medical Waste Management Act. ADDITIONALLY, because the Crime Lab is a generator of more than 20 lbs of medical waste per month, the medical wastes cannot be stored above 32 degrees Fahrenheit for more than 7 days.

By 2/15/05, provide to this department an updated medical waste management plan describing management of medical wastes generated at this facility and the results of the 3-month study of weights you have proposed to complete.

B) In the Narcotics Lab there are at least 3 containers labeled as Hazardous Waste for "CSA" (Controlled Substances Analysis). The accumulation date is labeled "Monthly" and the original accumulation start date is March 2003. Be advised, satellite accumulation requires that the wastes be kept on site for no more than one year TOTAL. Be sure the accumulation start date reflects accurately the satellite requirements and that wastes are removed from this facility at least every year.

☒ **This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.**	**Initials of Business Representative** AD

Cathy S DeMaria — 11/23/04 — Criminalist III

Signature of Business Representative | Date Signed | Title

COMPLIANCE INSPECTION REPORT

PERMIT # 114262
DATE 11/23/04
PAGE 2 OF 3

5255 Mt. Etna Drive 92117

VIOLATION REPORT: The items checked below refer to specific section numbers of Titles 19 & 22 of the California Code of Regulations (CCR), Chapters 6.5, 6.95 of the Health and Safety Code (HSC), and/or the San Diego County Code (SDCC).

All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

HAZARDOUS WASTE REQUIREMENTS

RECORDKEEPING

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V0131	UPF Permit not obtained SDCC. 68.905
	☐	V0132	No EPA Identification Number. 66262.12
	☐	V0133	Manifest copy not sent to DTSC. 66262.23
	☐	V0134	Exception Rpt. not filed with DTSC. 66262.42
	☐	V0135	Waste Manifests/Receipts not on-site for 3 years. 66262.40
	☐	V0136	No records of battery disposal. 66262.81
	☐	V0137	Manifest not properly completed. 66262.23
	☐	V0138	TSDF signed-manifest not on-site. 66262.40
	☐	V0139	Biennial report not sent to DTSC. 66262.41
	☐	V0140	LDR Documentation not available. 66268.7
	☐	V0141	Operating TSDF without authorization. 25201
	☐	V0142	Failed to notify local CUPA of onsite treatment of hazardous waste. 25201
	☐	V0143	Tiered Permitting notification has incomplete or incorrect information. 25201
	☐	V0144	SB14 compliance doc. not available. 25244.19
	☐	V0145	Excluded recyclable materials report not submitted to HMD. 25143.10

STORAGE AND HANDLING

	☐	V0201	Waste container not kept closed. 66265.173
	☐	V0202	Waste container missing/improperly labeled. 66262.34, 25143.9
	☐	V0203	Damaged container not repackaged. 66265.171
	☐	V0204	Waste container not properly managed. 66265.173
	☐	V0205	Waste container in poor condition. 66265.171
	☐	V0206	Ignitable Waste < 50 feet of property line. 66265.176
	☐	V0207	Facility not maintained/operated to minimize possibility of fire, explosion or release. 66265.31
	☐	V0208	Storage area not inspected weekly. 66265.174
	☐	V0209	Waste stored > 90, 180, or 270 days. 66262.34
	☐	V0210	Hazwaste not cleaned up off floor surface. 66262.10b
	☐	V0211	Incompatibles in the same container. 66265.177
	☐	V0212	Incompatibles not stored separately. 66265.177
	☐	V0213	Container incompatible with waste. 66265.172
	☐	V0214	Waste oil contaminated. 25250.7
	☐	V0215	Used oil filters improperly managed. 66266.130
	☐	V0216	Hazardous materials not properly labeled. 25124

DISPOSAL AND TRANSPORTATION

	☐	V0301	Unauth. disposal of waste to:_____. 25189.5
	☐	V0302	Unlawful transportation of hazardous waste. 25163
	☐	V0303	Waste transported without a manifest. 66262.20
	☐	V0304	Waste determination not made. 66262.11

TRAINING, CONTINGENCY PLAN & ER PROCEDURES

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V0401	Training records unavailable. 66265.16
	☐	V0402	Training program not adequate. 66265.16
	☐	V0403	Facility not designed to minimize release. 66265.31
	☐	V0404	Spill control equip not available. 66265.32
	☐	V0405	Aisle space is obstructed. 66265.35
	☐	V0406	Contingency plan not prepared and/or on file. 66265.51, 66265.53

HAZARDOUS WASTE TANK SYSTEMS

	☐	V1601	Hazwaste tanks w/o P.E. assessment. 66265.191a, 66265.192a
	☐	V1602	P.E. Assessment report not complete. 66265.191g, 66265.192k
	☐	V1603	Hazwste tank system: no secondary containment. 66265.193a
	☐	V1604	Secondary containment not kept empty. 66265.196(b)(c), 66265.194(c)
	☐	V1605	No daily tank inspection/inspect. log 66265.195 (b&c)
	☐	V1606	Improper or absent spill/overfill protection. 66265.194b
	☐	V1607	Improper corrosion protection. 66265 191, 66265.192
	☐	V1608	Integrity assessment not done for tanks without secondary containment system. 66265.191
	☐	V1609	Improper use of hazwaste tank system. 66265.196
	☐	V1610	No PE assessment report-repairs/changes. 66265.196g
	☐	V1611	Improper closure of haz waste tank unit. 67383.3, 66265.197

HAZARDOUS MATERIALS REQUIREMENTS

BUSINESS PLAN REQUIREMENTS

	☐	V1001	UPF permit not obtained for Haz. Materials. 68.905
	☐	V1002	Hazardous Materials Business Plan (HMBP) not established/implemented. 25503.5
	☐	V1003	HMBP not amended to reflect changes25505
	☐	V1004	HMBP not submitted to HMD. 25505
	☐	V1005	Emergency contacts not provided/current. 25509
	☐	V1006	Inventory is incomplete. 25504
	☐	V1007	Highly toxic gas (TLV≤10 ppm) not disclosed in chemical inventory. 68.1113
	☐	V1008	Annual carcinogen & reproductive toxin list not submitted to HMD 68.1113
	☐	V1009	Site map is not sufficient. 25509
	☐	V1010	Failure to report a release/threatened release. 25507
	☐	V1011	Personnel training records not available. 19 CCR 2732
	☐	V1012	SPCC plan required but not prepared. 25270.5 (c)
	☐	V2504	Owner or operator (O/O) Stationary Source (SS) with >TPQ of a regulated substance (RS) did not comply with Chapter 4.5 (CalARP process). 2745.1
	☐	V2553	O/O of a new or modified SS with >TPQ of RS did Not submit RMP. 2735.4, 25535 (d)

Atty S DeMaine
SIGNATURE OF BUSINESS REPRESENTATIVE

11/23/04
DATE SIGNED

Criminalist III
TITLE OF BUSINESS REPRESENTATIVE

COUNTY OF SAN DIEGO

MEDICAL WASTE REQUIREMENTS COMPLIANCE INSPECTION REPORT

PERMIT # 11426
DATE 11/23/04
PAGE 3 OF 3

BUSINESS ADDRESS: 5255 Mt. Etna Dr. ZIP: 92117

VIOLATION REPORT: *The items checked below refer to specific section numbers of the California Health and Safety Code Sections 25100 and 117600 et. al.; the San Diego County Code of Regulatory Ordinances Sections 68.1201 et al.; and the California Code of Regulations, Title 22 Sections 65600 et. al.*

All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

STORAGE AND LABELING

Viol #	VIOL	VIOLATION DESCRIPTION
	V4201	UPF Permit not obtained. 117705, 68.905
	V4202	Medical Waste (**MW**) not separated from other waste at point of origin. 118275
	V4203	Enclosure or designated accumulation area for **MW** containers not secured. 118310
	V4204	**MW** storage area not posted with an approved and legible biohazardous waste "warning sign" in English and Spanish. 118310
	V4205	Medical SOLID WASTE not secured to deny access to unauthorized persons. 68.1211
	V4206	Spill of **MW** not properly cleaned up. 118300
	V4207	Sharps not stored in approved and properly marked sharps container. 118275
	V4208	Full sharps container not taped closed or tightly-lidded to preclude loss of contents 118285
	V4209	Red bags/sharps container not labeled with generator's name, address, and phone number. 68.1205, 68.1206
	V4210	**MW** not stored in approved and properly marked red bags. 118275
	V4211	Red bags not tied off to prevent leakage/expulsion of contents during handling and storage. 118280
	V4212	Red bags not containerized in rigid, leak resistant, and covered containers or bins. 118280
	V4213	Waste container/bin not labeled on the lid and side so as to be clearly visible. 118280
	V4214	Reusable containers/bins for **MW** storage not kept clean/sanitary. 118295, 118305
	V4215	Frozen (0C/32 F) **MW** stored >90 days. 118280
	V4306	Full sharps container stored >7 days at room temp 118285
	V4307	Red bag waste stored >7 days at room temperature (for generators of >20lbs/month). 118280
	V4308	Red bag waste stored >30 days at room temperature (for generators of <20 lbs/month). 118280

TREATMENT AND DISPOSAL

	V4251	**MW** treated by unapproved method/procedure. 118215
	V4252	Standardized written operating procedures for steam sterilization not available. 118215
	V4253	Recording thermometer not calibrated annually. 118215
	V4254	No records of thermometer calibration checks onsite for at least the past 3 years. 118215
	V4255	Heat-sensitive tape/other approved method not used for each load treated onsite. 118215
	V4256	Monthly biological indicator or other approved method not used to confirm proper disinfection. 118215
	V4257	Onsite Steam Sterilization did not reach 121°C/250 °F for 30 minutes. 118215
	V4258	Treatment records/logs of dates, time and temperature not available for 3 yrs. 118215
	V4259	Disposal of untreated **MW** to an unauthorized point. 118340

TRANSPORTATION REQUIREMENTS

Viol #	VIOL	VIOLATION DESCRIPTION
	V4260	Transportation of **MW** without State Hauler Registration or a (LQHE) from HMD. 118025
	V4304	No LQHE for "self-hauled" **MW** (<20 pounds of waste/wk). 118030, 118025
	V4305	LQHE not renewed annually as required. 118030
	V4311	Medical Waste tracking documents not in vehicle transporting MW. 118040
	V4312	MW tracking documents/logs not maintained for 3years for LQHE. 118040

SMALL QTY. GENERATORS ONLY (<200 lbs/mo) MW)

	VIOL	VIOLATION DESCRIPTION
	V4301	Medical Waste Mgmt. Plan (MWMP) not submitted to HMD (initial/updates if onsite treatment). 117935
	V4302	Did not maintain and show proof of "onsite" medical waste treatment records for 3 years. 118215, 117943
	V4303	Did not retain on file disposal receipts/tracking documents for waste shipped offsite for 2 yrs. 117945
	V4309	MWMP or equivalent information not onsite. 117945

REQUIREMENTS FOR LARGE QUANTITY GENERATORS ONLY

(≥ 200 pounds of waste generated per month)

	V4351	**MWMP** not submitted to HMD (initial/updates). 117950, 117960, 117970
	V4352	Records of **MW** treatment not available for 3 years. 118215, 117975
	V4353	Did not retain on file disposal receipts/tracking documents for at least 3 yrs. for waste shipped offsite. 117975

PATHOLOGY, CHEMOTHERAPY, PHARMAC. & HAZ. WASTE

	V4401	Chemo waste not segregated from other **MW**. 118275
	V4402	Chemo waste container not properly labeled. 118275
	V4403	Illegal disposal of chemo waste. 118340
	V4411	Pathology waste not segregated from other **MW**. 118275
	V4412	Pathology waste container not properly labeled. 118275
	V4413	Illegal disposal of pathology waste. 118340
	V4421	Pharmwaste not segregated from other **MW**. 118275g
	V4422	Pharmwaste not properly labeled. 118275(g)
	V4423	Pharmwaste stored >90 days. (≥ 10 lbs/yr) 118280(e)
	V4431	VSQG of pharmwaste (<10 lb/yr) stored >1yr. 118280(e)
	V4432	Illegal disposal of pharmaceutical waste. 118340, 118222
	V4441	Illegal disposal of photo/hazwaste to sewer/trash. 25189.5

ONSITE MW TREATMENT FACILITY REQUIREMENTS

	V4501	Onsite **MW** treatment permit not obtained/renewed. 117950, 118130, 118155, 65620/65623.
	V4502	Current copy of the **MW** treatment permit not available. 65621(f), 65623, 118165, 118180
	V4503	Condition(s) of the **MW** treatmt. permit violated. 65623

Cathy S Dahn
SIGNATURE OF BUSINESS REPRESENTATIVE

11/23/04
DATE SIGNED

Criminalist III
TITLE OF BUSINESS REPRESENTATIVE

UNIFIED PROGRAM CONSOLIDATED FORM
TANKS

UNDERGROUND STORAGE TANKS - FACILITY

(One page per site) Page 1 of 1

TYPE OF ACTION (Check one item only) 400
☐ 1. NEW PERMIT ☐ 3. RENEWAL PERMIT ☐ 5. CHANGE OF INFORMATION ☐ 7. PERMANENTLY CLOSED SITE
☒ 4. AMENDED PERMIT (Specify change) Repipe ☐ 8. TANK REMOVED
☐ 6. TEMPORARY SITE CLOSURE

I. FACILITY/SITE INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3.
County of San Diego, Crime Lab

FACILITY ID# 3 7 0 0 0 1 1 4 2 6 1 1

NEAREST CROSS STREET 401.
5255 Mt. Etna Drive San Diego, CA ~~92111~~ 92117

FACILITY OWNER TYPE 402.
☐ 1. CORPORATION ☐ 4. LOCAL AGENCY/DISTRICT* ☒ 5. COUNTY AGENCY*
☐ 2. INDIVIDUAL ☐ 6. STATE AGENCY*
☐ 3. PARTNERSHIP ☐ 7. FEDERAL AGENCY*

BUSINESS TYPE 403.
☐ 1. GAS STATION ☐ 3. FARM ☐ 5. COMMERCIAL ☒ 6. OTHER
☐ 2 DISTRIBUTOR ☐ 4. PROCESSOR

TOTAL NUMBER OF TANKS REMAINING AT SITE 404.
01

Is facility on Indian Reservation or trust lands? 405.
☐ Yes ☒ No

* If owner of UST is a public agency: name of supervisor of division, section or office which operates the UST. (This is the contact person for the tank records.) 406
San Diego County Sheriff Crime Lab

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME 407
County of San Diego General Services

PHONE 408.
(858) 565-5255

MAILING OR STREET ADDRESS 409.
3853 Rosecrans

CITY 410
San Diego

STATE 411
CA

ZIP CODE 412.
92110

PROPERTY OWNER TYPE 413.
☐ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 4. LOCAL AGENCY / DISTRICT ☐ 6. STATE AGENCY
☐ 3. PARTNERSHIP ☒ 5. COUNTY AGENCY ☐ 7. FEDERAL AGENCY

III. TANK OWNER INFORMATION

TANK OWNER NAME 414.
San Diego County Sheriff's Crime Lab

PHONE 415.
(858) 694-4497

MAILING OR STREET ADDRESS 416
5255 Mt. Etna Drive

CITY 417.
San Diego

STATE 418
CA

ZIP CODE 419.
92111

TANK OWNER TYPE 420
☐ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 4. LOCAL AGENCY/DISTRICT ☐ 6. STATE AGENCY
☐ 3. PARTNERSHIP ☒ 5. COUNTY AGENCY ☐ 7. FEDERAL AGENCY

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44- 0 2 2 1 8 5 Call (916) 322-9669 if questions arise 421.

V. PETROLEUM UST FINANCIAL RESPONSIBILITY

INDICATE METHOD(s) 422.
☐ 1. SELF-INSURED ☐ 4. SURETY BOND ☐ 7. STATE FUND ☐ 10. LOCAL GOV'T MECHANISM
☐ 2. GUARANTEE ☐ 5. LETTER OF CREDIT ☐ 8. STATE FUND & CFO LETTER ☐ 99. OTHER: _____
☒ 3. INSURANCE ☐ 6. EXEMPTION ☐ 9. STATE FUND & CD

VI. LEGAL NOTIFICATION AND MAILING ADDRESS

Check one box to indicate which address should be used for legal notifications and mailing.
Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked. ☐ 1. FACILITY ☐ 2. PROPERTY OWNER ☒ 3. TANK OWNER 423.

VII. APPLICANT SIGNATURE

Certification: I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF APPLICANT

DATE 424.
08/06/2004

PHONE 425
619-697-2200

NAME OF APPLICANT (print) 426
Alan P. Westermeyer, Agent of County of San Diego

TITLE OF APPLICANT 427.
Vice-President of Jenal Engineering Corporation

STATE UST FACILITY NUMBER (Agency use only) 428.
(See Data Element 1, above.

1998 UPGRADE CERTIFICATE NUMBER (Agency use only) 429.

UNIFIED PROGRAM CONSOLIDATED FORM
TANKS

UNDERGROUND STORAGE TANKS – TAN K PAGE 1

(Two pages per tank)

TYPE OF ACTION (Check one item only) ☐ 1. NEW PERMIT ☐ 3. RENEWAL PERMIT ☒ 4. AMENDED PERMIT Repipe (Specify reason) ☐ 5. CHANGE OF INFORMATION _____ (Specify reason) ☐ 6. TEMPORARY TANK CLOSURE ☐ 7. PERMANENTLY CLOSED ON SITE ☐ 8. TANK REMOVED 430.

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3.
County of San Diego, Crime Lab

FACILITY ID: 3 7 0 0 0 1 1 4 2 6 1 1.

LOCATION WITHIN SITE (Optional) 431.
5255 Mt. Etna Drive San Diego, CA ~~92111~~ 92117

I. TANK DESCRIPTION

(A scaled plot plan with the location of the UST system including buildings and landmarks shall be submitted to the local agency.)

TANK ID # 432.	TANK MANUFACTURER 433	COMPARTMENTALIZED TANK ☐ Yes ☒ No 434
01	Modern Welding	If "Yes," complete one page for each compartment
DATE INSTALLED (YEAR/MO) 435	TANK CAPACITY IN GALLONS 436	NUMBER OF COMPARTMENTS 437.
Unknown	5,000	One

ADDITIONAL DESCRIPTION (For local use only) 438

II. TANK CONTENTS

TANK USE 439.
☒ 1. MOTOR VEHICLE FUEL (If checked, complete Petroleum Type)
☐ 2 NON-FUEL PETROLEUM
☐ 3. CHEMICAL PRODUCT
☐ 4. HAZARDOUS WASTE (Includes Used Oil)
☐ 95. UNKNOWN

PETROLEUM TYPE 440.
☐ 1a. REGULAR UNLEADED ☐ 2. LEADED ☐ 5. JET FUEL
☐ 1b. PREMIUM UNLEADED ☒ 3. DIESEL ☐ 6. AVIATION GAS
☐ 1c. MIDGRADE UNLEADED ☐ 4. GASOHOL ☐ 99. OTHER: _____

COMMON NAME (from Hazardous Materials Inventory page) 441
Diesel

CAS# (from Hazardous Materials Inventory page) 442.

III. TANK CONSTRUCTION

TYPE OF TANK (Check one item only) ☐ 1. SINGLE WALL ☐ 3. SINGLE WALL WITH EXTERIOR MEMBRANE LINER ☐ 5. SINGLE WALL WITH INTERNAL BLADDER SYSTEM ☐ 95. UNKNOWN ☐ 99. OTHER ____ 443.
☒ 2. DOUBLE WALL ☐ 4. SINGLE WALL IN A VAULT

TANK MATERIAL – primary tank (Check one item only) ☐ 1. BARE STEEL ☐ 3. FIBERGLASS / PLASTIC ☐ 5. CONCRETE ☐ 95. UNKNOWN 444.
☐ 2. STAINLESS STEEL ☒ 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP) ☐ 8. FRP COMPATIBLE W/100% METHANOL ☐ 99. OTHER: _____

TANK MATERIAL – secondary tank (Check one item only) ☒ 1. BARE STEEL ☐ 3. FIBERGLASS / PLASTIC ☐ 8. FRP COMPTIBLE W/100% METHANOL ☐ 95. UNKNOWN 445.
☐ 2. STAINLESS STEEL ☐ 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP) ☐ 9. FRP NON-CORRODABLE JACKET ☐ 99. OTHER _____
☐ 5. CONCRETE ☐ 10. COATED STEEL

TANK INTERIOR LINING OR COATING (Check one item only) ☐ 1. RUBBER LINED ☐ 2. ALKYD LINING ☐ 3. EPOXY LINING ☐ 4. PHENOLIC LINING ☐ 5. GLASS LINING ☒ 6. UNLINED ☐ 95 UNKNOWN ☐ 99. OTHER _____ 446 DATE INSTALLED 447.

OTHER CORROSION PROTECTION (If Applicable) ☐ 1. MANUFACTURED CATHODIC PROTECTION ☐ 2. SACRIFICIAL ANODE ☐ 3. FIBERGLASS REINFORCED PLASTIC ☐ 4. IMPRESSED CURRENT ☐ 95. UNKNOWN ☐ 99 OTHER _____ 448. DATE INSTALLED 449

SPILL AND OVERFILL (Check all that apply) YEAR INSTALLED 450
☒ 1. SPILL CONTAINMENT 8/2004
☒ 2. DROP TUBE 8/2004
☒ 3. STRIKER PLATE EXISTING

TYPE 451
OPW
OPW
FACTORY

OVERFILL PROTECTION EQUIPMENT: YEAR INSTALLED 452
☒ 1. ALARM EXISTING ☐ 3. FILL TUBE SHUT OFF VALVE
☒ 2. BALL FLOAT EXISTING ☐ 4. EXEMPT

IV. TANK LEAK DETECTION

(A description of the monitoring program shall be submitted to the local agency.)

IF SINGLE WALL TANK (Check all that apply) 453.
☐ 1. VISUAL (EXPOSED PORTION ONLY)
☐ 2. AUTOMATIC TANK GAUGING (ATG)
☐ 3. CONTINUOUS ATG
☐ 4. STATISTICAL INVENTORY RECONCILIATION (SIR) + BIENNIAL TANK TESTING
☐ 5. MANUAL TANK GAUGING (MTG)
☐ 6. VADOSE ZONE
☐ 7. GROUNDWATER
☐ 8. TANK TESTING
☐ 99. OTHER _____

IF DOUBLE WALL TANK OR TANK WITH BLADDER (Check one item only) 454
☐ 1. VISUAL (SINGLE WALL IN VAULT ONLY)
☒ 2. CONTINUOUS INTERSTITIAL MONITORING
☐ 3. MANUAL MONITORING

V. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE

ESTIMATED DATE LAST USED (YR/MO/DAY) 455.	ESTIMATED QUANTITY OF SUBSTANCE REMAINING 456	TANK FILLED WITH INERT MATERIAL? 457
	_____ gallons	☐ Yes ☐ No

UNIFIED PROGRAM CONSOLIDATED FORM
TANKS

UNDERGROUND STORAGE TANKS – TAN K PAGE 2

VI. PIPING CONSTRUCTION (Check all that apply)

	UNDERGROUND PIPING				ABOVEGROUND PIPING			
SYSTEM TYPE	☐ 1. PRESSURE	☒ 2. SUCTION	☐ 3. GRAVITY	458	☐ 1. PRESSURE	☐ 2. SUCTION	☐ 3. GRAVITY	459.
CONSTRUCTION/ MANUFACTURER	☐ 1. SINGLE WALL	☐ 3. LINED TRENCH	☐ 99. OTHER	460.	☐ 1. SINGLE WALL	☐ 95. UNKNOWN		462.
	☒ 2. DOUBLE WALL	☐ 95. UNKNOWN			☐ 2. DOUBLE WALL	☐ 99. OTHER		
MANUFACTURER	ENVIRON GEODUCT			461.	MANUFACTURER			463

☐ 1. BARE STEEL	☐ 6. FRP COMPATIBLE W/100% METHANOL	☐ 1. BARE STEEL	☐ 6. FRP COMPATIBLE W/100% METHANOL
☐ 2. STAINLESS STEEL	☐ 7. GALVANIZED STEEL	☐ 2. STAINLESS STEEL	☐ 7. GALVANIZED STEEL
☐ 3. PLASTIC COMPATIBLE WITH CONTENTS	☐ 95. UNKNOWN	☐ 3. PLASTIC COMPATIBLE W/ CONTENTS	☐ 8. FLEXIBLE (HDPE) ☐ 99. OTHER
☐ 4 FIBERGLASS	☒ 8. FLEXIBLE (HDPE) ☐ 99. OTHER	☐ 4. FIBERGLASS	☐ 9. CATHODIC PROTECTION
☐ 5. STEEL W/COATING	☐ 9. CATHODIC PROTECTION 464.	☐ 5. STEEL W/COATING	☐ 95. UNKNOWN 465.

VII. PIPING LEAK DETECTION (Check all that apply) (A description of the monitoring program shall be submitted to the local agency.)

UNDERGROUND PIPING

SINGLE WALL PIPING 466.

PRESSURIZED PIPING (Check all that apply):

☐ 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT-OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.

☐ 2. MONTHLY 0.2 GPH TEST

☐ 3. ANNUAL INTEGRITY TEST (0.1 GPH)

CONVENTIONAL SUCTION SYSTEMS

☐ 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0 1 GPH)

SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):

☐ 7. SELF MONITORING

GRAVITY FLOW

☐ 9. BIENNIAL INTEGRITY TEST (0.1 GPH)

SECONDARILY CONTAINED PIPING

PRESSURIZED PIPING (Check all that apply):

10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)
  - ☐ a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS
  - ☐ b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION
  - ☐ c. NO AUTO PUMP SHUT OFF

☐ 11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW SHUT OFF OR RESTRICTION

☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)

SUCTION/GRAVITY SYSTEM

☒ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS

EMERGENCY GENERATORS ONLY (Check all that apply)

☒ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF AUDIBLE AND VISUAL ALARMS

☐ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR RESTRICTION

☐ 16. ANNUAL INTEGRITY TEST (0.1 GPH)

☐ 17. DAILY VISUAL CHECK

ABOVEGROUND PIPING

SINGLE WALL PIPING 467.

PRESSURIZED PIPING (Check all that apply):

☐ 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.

☐ 2 MONTHLY 0.2 GPH TEST

☐ 3. ANNUAL INTEGRITY TEST (0.1 GPH)

☐ 4. DAILY VISUAL CHECK

CONVENTIONAL SUCTION SYSTEMS (Check all that apply)

☐ 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM

☐ 6. TRIENNIAL INTEGRITY TEST (0.1 GPH)

SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):

☐ 7. SELF MONITORING

GRAVITY FLOW (Check all that apply):

☐ 8. DAILY VISUAL MONITORING

☐ 9. BIENNIAL INTEGRITY TEST (0.1 GPH)

SECONDARILY CONTAINED PIPING

PRESSURIZED PIPING (Check all that apply):

10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)
  - ☐ a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS
  - ☐ b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION
  - ☐ c. NO AUTO PUMP SHUT OFF

☐ 11. AUTOMATIC LEAK DETECTOR

☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)

SUCTION/GRAVITY SYSTEM

☐ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS

EMERGENCY GENERATORS ONLY (Check all that apply)

☐ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF AUDIBLE AND VISUAL ALARMS

☐ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST)

☐ 16. ANNUAL INTEGRITY TEST (0.1 GPH)

☐ 17. DAILY VISUAL CHECK

VIII. DISPENSER CONTAINMENT

DISPENSER CONTAINMENT 468	☐ 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE	☐ 4. DAILY VISUAL CHECK	469
DATE INSTALLED	☐ 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS	☐ 5. TRENCH/LINER MONITORING	
N/A	☐ 3. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS	☒ 6. NONE	

IX. OWNER/OPERATOR SIGNATURE

I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF OWNER/OPERATOR	DATE: 08/06/2004 470.
NAME OF OWNER/OPERATOR (print): Alan P. Westermeyer	TITLE OF OWNER/OPERATOR: Agent of County of San Diego 472.

Permit Number (Agency use only) 473	Permit Approved By (Agency use only) 474	Permit Expiration Date (Agency use only) 475

MONITORING SYSTEM CERTIFICATION

For Use By All Jurisdictions Within the State of California
Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

A. General Information

Facility Name: County of san Diego Crime Lab
Site Address: 5255 Mt Etna Drive, San Diego, CA ~~92109~~ 92117

Facility Contact Person: Contact Phone No.: (619)

Make/Model of Monitoring System: Veeder-Root 300 Date of Testing/Servicing: 8/5/04

B. Inventory of Equipment Tested/Certified

Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: _#DSL_____
- ☒ In-Tank Gauging Probe. Model: Mag Probe_104
- ☒ Annular Space or Vault Sensor. Model: 420
- ☒ Piping Sump / Trench Sensor(s). Model: 208
- x Fill Sump Sensor(s). Model: 208common with piping
- ☐ Mechanical Line Leak Detector. Model: _____
- Electronic Line Leak Detector. Model:
- ☒ Tank Overfill / High-Level Sensor. Model: _104__
- ☐ Other (specify equipment type and model in Section E on Page 2).

Tank ID: #_____
- ☐ In-Tank Gauging Probe. Model__
- Annular Space or Vault Sensor. Model:
- Piping Sump / Trench Sensor(s). Model:
- Fill Sump Sensor(s). Model:
- ☐ Mechanical Line Leak Detector. Model: _____
- Electronic Line Leak Detector. Model: _
- ☐ Tank Overfill / High-Level Sensor. Model: _ ___
- ☐ Other (specify equipment type and model in Section E on Page 2).

Tank ID: #_____
- In-Tank Gauging Probe. Model:
- Annular Space or Vault Sensor. Model:
- Piping Sump / Trench Sensor(s). Model:
- Fill Sump Sensor(s). Model:
- ☐ Mechanical Line Leak Detector. Model: _____
- Electronic Line Leak Detector. Model: _
- ☐ Tank Overfill / High-Level Sensor. Model: __ ___
- ☐ Other (specify equipment type and model in Section E on Page 2).

Tank ID: _____
- ☐ In-Tank Gauging Probe. Model: _____
- ☐ Annular Space or Vault Sensor. Model:
- ☐ Piping Sump / Trench Sensor(s). Model:
- ☐ Fill Sump Sensor(s). Model:
- ☐ Mechanical Line Leak Detector. Model: _____
- ☐ Electronic Line Leak Detector. Model: _____
- ☐ Tank Overfill / High-Level Sensor. Model: _____
- ☐ Other (specify equipment type and model in Section E on Page 2).

Dispenser ID: ___#1_____
- Dispenser Containment Sensor(s). Model:
- Shear Valve(s).
- Dispenser Containment Float(s) and Chain(s).

Dispenser ID: _____
- ☐ Dispenser Containment Sensor(s). Model: _____
- Shear Valve(s).
- Dispenser Containment Float(s) and Chain(s).

Dispenser ID:_____
- ☐ Dispenser Containment Sensor(s). Model: _____
- Shear Valve(s).
- Dispenser Containment Float(s) and Chain(s).

Dispenser ID: _#4_____
- ☐ Dispenser Containment Sensor(s). Model: _____
- Shear Valve(s).
- ☐ Dispenser Containment Float(s) and Chain(s).

Dispenser ID: _____
- ☐ Dispenser Containment Sensor(s). Model: _____
- ☐ Shear Valve(s).
- ☐Dispenser Containment Float(s) and Chain(s).

Dispenser ID: _____
- ☐ Dispenser Containment Sensor(s). Model: _____
- ☐ Shear Valve(s).
- ☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification

- I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report; *(check all that apply)*: System set-up Alarm history report

Technician Name (print): TIM MONTIJO Signature: _____

Certification No.: _006-05-0344 License. No.: 90-1090

Testing Company Name: MONTIJO TANK TECH Phone No.: (760)752-1989

SiteAddress: 5255 Mt. Etna

D. Results of Testing/Servicing

Software Version Installed: _122_____

Complete the following checklist:

❋ Yes	☐ No*	Is the audible alarm operational?
❋ Yes	☐ No*	Is the visual alarm operational?
❋ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
❋ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ❋ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
Yes	No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* Sump/Trench Sensors; Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? Yes; No.
☒ Yes	☐ No* N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90 %
❋ Yes*	No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
Yes*	X No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; Water. If yes, describe causes in Section E, below.
❋ Yes	No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
❋ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

MONITOR AND ALL SENSORS WERE REPLACED FROM POLLULERT TO VEEDEROOT BY JENAL ENG.

F. In-Tank Gauging / SIR Equipment:

* Check this box if tank gauging is used only for inventory control.
Check this box if no tank gauging or SIR equipment is installed.

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☐ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☐ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☐ Yes	☐ No*	Was accuracy of system product level readings tested?
☐ Yes	☐ No*	Was accuracy of system water level readings tested?
☐ Yes	☐ No*	Were all probes reinstalled properly?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In the Section H, below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD):

X Check this box if LLDs are not installed.

Complete the following checklist:

Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: 3 g.p.h.; ☐ 0.1 g.p.h ; ☐ 0.2 g.p.h.
Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
Yes	☐ No*	Was the testing apparatus properly calibrated?
Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In the Section H, below, describe how and when these deficiencies were or will be corrected.**

H. Comments:

ENTERED MAY 23 2006

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

RECEIVED MAR 17 2006

PAGE 1 of 1
EST. NO. 114261
DATE 12/28/05
TIME START 1035 END 1245
BUS. CODE K57
SPECIALIST Wirschem
CONTACT Anthony DeMaria
TITLE Safety Coordinator
PHONE 858-467-4600

BUSINESS NAME SAN DIEGO COUNTY SHERIFF CRIME LAB

ADDRESS 5255 MT ETNA DRIVE

CITY/ZIP SAN DIEGO, 92117-6912

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y	N/A		Y	N/A	
X	☐	Unified Program Facility Permit current and available			Permit Expires on: 04 / 30/ 06 .
X	☐	Employee Training is adequate	X	☐	Employee Training records available
X	☐	Waste disposal records available for review	X	☐	Waste containers kept closed
X	☐	Emergency contacts current ☐Updated today	X	☐	Waste containers kept labeled
X	☐	Chemical inventory current ☐ Updated today	X	☐	Waste containers in good condition

☐ **All violations noted on this compliance inspection report were corrected during this inspection.**

Today a routine inspection was performed at the above facility with Rafaela Drummond. Anthony DeMaria escorted us through the different lab areas and provided records for hazardous materials, hazardous waste and medical waste. We walked through the individual labs and the accumulation area. Medical waste is stored inside a refrigerator at a temperature slightly above zero degrees Centigrade for a maximum of 30 days, then placed outside on the day of waste collection. The crime lab manages a large amount of non-biohazardous waste as biohazardous waste to ensure compliance. This site also has a regulated UST which requires inspection annually. This inspection is conducted with Mike Johnson, General Services designated UST operator. The following observations were made during inspection:

-Business/Contingency Plan was observed on-site.
-Employee Training on topics listed in the Business Plan is conducted annually.
-Medical Waste Management Plan was updated today.
-Hazardous Waste disposal manifests and medical waste disposal receipts were reviewed.
-Adequate aisle space is available and medical waste accumulation area signage is posted.

The following violations were observed and require documentation of return to compliance. Some violations were corrected during the inspection.

V0207 RTC 12/29/05 1. Hazardous waste containers were observed missing labels in the following areas: dark room (fixer waste) and at trace evidence (acid, base, organic, oxidizer, salts/metals, pyridine, and one CS2 container). Properly label these containers expeditiously.

V0209 RTC 12/29/05 2. Hazardous waste accumulated longer than allowed. Satellite accumulation allows a maximum of one year accumulation. Immediately dispose of the following containers: CS2 dated 9/3/04 at trace evidence, phenol dated 7/9/04 at DNA, Iodine dated 2001 and de-stain dated 2002 at the Amplification Room.

Remarks

1. Be advised that generators of 20 or more pounds of biohazardous waste per month require a weekly pickup of waste. There are exceptions for waste stored at zero degrees Centigrade or waste stored with written approval from the local enforcement agency.
2. Orange bags were observed with a biohazardous waste label. Be advised that red bags must be used for storage of biohazardous waste (except pharmaceuticals). Until further notice orange bags may continue to be used if they do not contain biohazardous waste or if the orange bags are only used for accumulation prior to placement in a biohazard container or storage area. OK
3. UST requires annual monitoring system certification for 2005. Secondary containment testing is also required prior to January 2006. OK

ISSUED VIA EMAIL TO Anthony DeMaria on 12/29/05 at 300PM

Signature of Business Representative | Date Signed | Title

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PERMIT # 114261
DATE 1 / 1
PAGE 1 OF 7

BUSINESS ADDRESS: 5255 MT ETNA DRIVE ZIP: 92117-6912

VIOLATION REPORT: The items checked below refer to specific section numbers of Titles 19 & 22 of the California Code of Regulations (CCR), Chapters 6.5, 6.95 of the Health and Safety Code (HSC), and/or the San Diego County Code (SDCC).
All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

HAZARDOUS WASTE REQUIREMENTS

RECORDKEEPING

Viol #	VIOL	VIOLATION DESCRIPTION
	☐ V0131	UPF Permit not obtained SDCC. 68.905
	☐ V0132	No EPA Identification Number. 66262.12
	☐ V0133	Manifest copy not sent to DTSC. 66262.23
	☐ V0134	Exception Rpt. not filed with DTSC. 66262.42
	☐ V0135	Waste Manifests/Receipts not on-site for 3 years. 66262.40
	☐ V0136	No records of battery disposal. 66262.81
	☐ V0137	Manifest not properly completed. 66262.23
	☐ V0138	TSDF signed-manifest not on-site. 66262.40
	☐ V0139	Biennial report not sent to DTSC. 66262.41
	☐ V0140	LDR Documentation not available. 66268.7
	☐ V0141	Operating TSDF without authorization. 25201
	☐ V0142	Failed to notify local CUPA of onsite treatment of hazardous waste. 25201
	☐ V0143	Tiered Permitting notification has incomplete or incorrect information. 25201
	☐ V0144	SB14 compliance doc. not available. 25244.19
	☐ V0145	Excluded recyclable materials report not submitted to HMD. 25143.10

STORAGE AND HANDLING

	☐ V0201	Waste container not kept closed. 66265.173
1	☒ V0202	Waste container missing/improperly labeled. 66262.34, 25143.9
	☐ V0203	Damaged container not repackaged. 66265.171
	☐ V0204	Waste container not properly managed. 66265.173
	☐ V0205	Waste container in poor condition. 66265.171
	☐ V0206	Ignitable Waste < 50 feet of property line. 66265.176
	☐ V0207	Facility not maintained/operated to minimize possibility of fire, explosion or release. 66265.31
	☐ V0208	Storage area not inspected weekly. 66265.174
2	☒ V0209	Waste stored > 90, 180, or 270 days. 66262.34, one year for satellite
	☐ V0210	Hazwaste not cleaned up off floor surface. 66262.10b
	☐ V0211	Incompatibles in the same container. 66265.177
	☐ V0212	Incompatibles not stored separately. 66265.177
	☐ V0213	Container incompatible with waste. 66265.172
	☐ V0214	Waste oil contaminated. 25250.7
	☐ V0215	Used oil filters improperly managed. 66266.130
	☐ V0216	Hazardous materials not properly labeled. 25124

DISPOSAL AND TRANSPORTATION

	☐ V0301	Unauth. disposal of waste to:_____. 25189.5
	☐ V0302	Unlawful transportation of hazardous waste. 25163
	☐ V0303	Waste transported without a manifest. 66262.20
	☐ V0304	Waste determination not made. 66262.11

TRAINING, CONTINGENCY PLAN & ER PROCEDURES

Viol #	VIOL	VIOLATION DESCRIPTION
	☐ V0401	Training records unavailable. 66265.16
	☐ V0402	Training program not adequate. 66265.16
	☐ V0403	Facility not designed to minimize release. 66265.31
	☐ V0404	Spill control equip not available. 66265.32
	☐ V0405	Aisle space is obstructed. 66265.35
	☐ V0406	Contingency plan not prepared and/or on file. 66265.51, 66265.53

HAZARDOUS WASTE TANK SYSTEMS

	☐ V1601	Hazwaste tanks w/o P.E. assessment. 66265.191a, 66265.192a
	☐ V1602	P.E. Assessment report not complete. 66265.191g, 66265.192k
	☐ V1603	Hazwste tank system: no secondary containment. 66265.193a
	☐ V1604	Secondary containment not kept empty. 66265.196(b)(c), 66265.194(c)
	☐ V1605	No daily tank inspection/inspect. log 66265.195 (b&c)
	☐ V1606	Improper or absent spill/overfill protection. 66265.194b
	☐ V1607	Improper corrosion protection. 66265.191, 66265.192
	☐ V1608	Integrity assessment not done for tanks without secondary containment system. 66265.191
	☐ V1609	Improper use of hazwaste tank system. 66265.196
	☐ V1610	No PE assessment report-repairs/changes. 66265.196g
	☐ V1611	Improper closure of haz waste tank unit. 67383.3, 66265.197

HAZARDOUS MATERIALS REQUIREMENTS

BUSINESS PLAN REQUIREMENTS

	☐ V1001	UPF permit not obtained for Haz. Materials. 68.905
	☐ V1002	Hazardous Materials Business Plan (HMBP) not established/implemented. 25503.5
	☐ V1003	HMBP not amended to reflect changes. 25505
	☐ V1004	HMBP not submitted to HMD. 25505
	☐ V1005	Emergency contacts not provided/current. 25509
	☐ V1006	Inventory is incomplete. 25504
	☐ V1007	Highly toxic gas (TLV≤10 ppm) not disclosed in chemical inventory. 68.1113
	☐ V1008	Annual carcinogen & reproductive toxin list not submitted to HMD. 68.1113
	☐ V1009	Site map is not sufficient. 25509
	☐ V1010	Failure to report a release/threatened release. 25507
	☐ V1011	Personnel training records not available. 19 CCR 2732
	☐ V1012	SPCC plan required but not prepared. 25270.5 (c)
	☐ V2504	Owner or operator (O/O) Stationary Source (SS) with >TPQ of a regulated substance (RS) did not comply with Chapter 4.5 (CalARP process). 2745.1
	☐ V2553	O/O of a new or modified SS with >TPQ of RS did Not submit RMP. 2735.4, 25535 (d)

Cathy S O.L-
SIGNATURE OF BUSINESS REPRESENTATIVE

12/28/05
DATE SIGNED

Supervising Criminalist
TITLE OF BUSINESS REPRESENTATIVE

COUNTY OF SAN DIEGO

MEDICAL WASTE REQUIREMENTS COMPLIANCE INSPECTION REPORT

PERMIT # 11426 1
DATE __/__/__
PAGE 2 OF 2

BUSINESS ADDRESS: _____ ZIP: _____

VIOLATION REPORT: *The items checked below refer to specific section numbers of the California Health and Safety Code Sections 25100 and 117600 et. al.; the San Diego County Code of Regulatory Ordinances Sections 68.1201 et. al.; and the California Code of Regulations, Title 22 Sections 65600 et. al.*
All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

STORAGE AND LABELING

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V4201	UPF Permit not obtained. 117705, 68.905
	☐	V4202	Medical Waste (MW) not separated from other waste at point of origin. 118275
	☐	V4203	Enclosure or designated accumulation area for MW containers not secured. 118310
	☐	V4204	MW storage area not posted with an approved and legible biohazardous waste "warning sign" in English and Spanish. 118310
	☐	V4205	Medical SOLID WASTE not secured to deny access to unauthorized persons. 68.1211
	☐	V4206	Spill of MW not properly cleaned up. 118300
	☐	V4207	Sharps not stored in approved and properly marked sharps container. 118275
	☐	V4208	Full sharps container not taped closed or tightly-lidded to preclude loss of contents. 118285
	☐	V4209	Red bags/sharps container not labeled with generator's name, address, and phone number. 68.1205, 68.1206
Remark	☒	V4210	MW not stored in approved and properly marked red bags. 118275
	☐	V4211	Red bags not tied off to prevent leakage/expulsion of contents during handling and storage. 118280
	☐	V4212	Red bags not containerized in rigid, leak resistant, and covered containers or bins. 118280
	☐	V4213	Waste container/bin not labeled on the lid and side so as to be clearly visible. 118280
	☐	V4214	Reusable containers/bins for MW storage not kept clean/sanitary. 118295, 118305
	☐	V4215	Frozen (0C/32 F) MW stored >90 days. 118280
	☐	V4306	Full sharps container stored >7 days at room temp 118285
	☐	V4307	Red bag waste stored >7 days at room temperature (for generators of >20lbs/month). 118280
	☐	V4308	Red bag waste stored >30 days at room temperature (for generators of <20 lbs/month). 118280

TREATMENT AND DISPOSAL

	☐	V4251	MW treated by unapproved method/procedure. 118215
	☐	V4252	Standardized written operating procedures for steam sterilization not available. 118215
	☐	V4253	Recording thermometer not calibrated annually. 118215
	☐	V4254	No records of thermometer calibration checks onsite for at least the past 3 years. 118215
	☐	V4255	Heat-sensitive tape/other approved method not used for each load treated onsite. 118215
	☐	V4256	Monthly biological indicator or other approved method not used to confirm proper disinfection. 118215
	☐	V4257	Onsite Steam Sterilization did not reach 121°C/250 °F for 30 minutes. 118215
	☐	V4258	Treatment records/logs of dates, time and temperature not available for 3 yrs. 118215
	☐	V4259	Disposal of untreated MW to an unauthorized point. 118340

TRANSPORTATION REQUIREMENTS

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V4260	Transportation of MW without State Hauler Registration or a (LQHE) from HMD. 118025
	☐	V4304	No LQHE for "self-hauled" MW (<20 pounds of waste/wk). 118030, 118025
	☐	V4305	LQHE not renewed annually as required. 118030
	☐	V4311	Medical Waste tracking documents not in vehicle transporting MW. 118040
	☐	V4312	MW tracking documents/logs not maintained for 3years for LQHE. 118040

SMALL QTY. GENERATORS ONLY (<200 lbs/mo) MW)

	☐	V4301	Medical Waste Mgmt. Plan (MWMP) not submitted to HMD (initial/updates if onsite treatment). 117935
	☐	V4302	Did not maintain and show proof of "onsite" medical waste treatment records for 3 years. 118215, 117943
	☐	V4303	Did not retain on file disposal receipts/tracking documents for waste shipped offsite for 2 yrs. 117945
	☐	V4309	MWMP or equivalent information not onsite. 117945

REQUIREMENTS FOR LARGE QUANTITY GENERATORS ONLY

(≥ 200 pounds of waste generated per month)

	☐	V4351	MWMP not submitted to HMD (initial/updates). 117950, 117960, 117970
	☐	V4352	Records of MW treatment not available for 3 years. 118215, 117975
	☐	V4353	Did not retain on file disposal receipts/tracking documents for at least 3 yrs. for waste shipped offsite. 117975

PATHOLOGY, CHEMOTHERAPY, PHARMAC. & HAZ. WASTE

	☐	V4401	Chemo waste not segregated from other MW. 118275
	☐	V4402	Chemo waste container not properly labeled. 118275
	☐	V4403	Illegal disposal of chemo waste. 118340
	☐	V4411	Pathology waste not segregated from other MW. 118275
	☐	V4412	Pathology waste container not properly labeled. 118275
	☐	V4413	Illegal disposal of pathology waste. 118340
	☐	V4421	Pharmwaste not segregated from other MW. 118275g
	☐	V4422	Pharmwaste not properly labeled. 118275(g)
	☐	V4423	Pharmwaste stored >90 days. (≥ 10 lbs/yr) 118280(e)
	☐	V4431	VSQG of pharmwaste (<10 lb/yr) stored >1yr. 118280(e)
	☐	V4432	Illegal disposal of pharmaceutical waste. 118340, 118222
	☐	V4441	Illegal disposal of photo/hazwaste to sewer/trash. 25189.5

ONSITE MW TREATMENT FACILITY REQUIREMENTS

	☐	V4501	Onsite MW treatment permit not obtained/renewed. 117950, 118130, 118155, 65620/65623.
	☐	V4502	Current copy of the MW treatment permit not available. 65621(f), 65623, 118165, 118180
	☐	V4503	Condition(s) of the MW treatmt. permit violated. 65623

Atty S O.L.
SIGNATURE OF BUSINESS REPRESENTATIVE

12/28/05
DATE SIGNED

Supervising Criminalist
TITLE OF BUSINESS REPRESENTATIVE

Supervising Criminalist
Sheriff's Crime Laboratory
(858) 467-4610

From: Wirschem, Leon [mailto:Leon.Wirschem@sdcounty.ca.gov]
Sent: Thursday, December 29, 2005 2:59 PM
To: DeMaria, Anthony
Cc: Drummond, Rafaela; Webster, Shelley; Vizzier, Michael
Subject: Crime Lab inspection

Anthony,

Thanks for the help. Next time I'll come out when there are more people around to explain the work they do. The Crime Lab presents some unusual situations in regards to managing medical wastes. I have spent some time looking at the medical waste storage laws, however need to consult with my supervisor to see if there is industry guidance on the subject of the orange bags, what DNA extraction/amplification process waste is actually biohazardous, and if we can allow storage of the biohaz waste for 30 days in the refrigerator. Please notice the attached report says it is OK, until further notice, to continue to use orange bags for the DNA waste provided the waste is not biohazardous or is biohazardous, but is only accumulated and then eventually ends up in a biohazard container/ storage area. Notice also that to continue to store biohazardous waste over seven days the waste must be below 0 degrees Centigrade or you need written approval from the enforcement agency, HMD. I will see if we can grant approval. This would be a new one for me. I have a couple questions for you:

1. What is the temperature range on the refrigerator where your biohazard containers are stored?
2. What items end up in the orange bags at DNA?
3. I think I know the answer to this, but why does the crime lab not have weekly pickups of medical waste?

Call me if you have any questions,

Leon Wirschem, REHS
County of San Diego
Hazardous Materials Division (HMD)
858-694-2473 (phone) 858-694-3705 (fax)
leon.wirschem@sdcounty.ca.gov
http://www.sdcounty.ca.gov/deh/hmd/

Lean Wirschem

114261

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933
http://www.sdcounty.ca.gov/deh/hmd/forms_hmd.html

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM

This form is intended for use by contractors performing initial & periodic testing of UST secondary containment systems. Use the appropriate pages of this form to report results for all components tested. The completed form, written test procedures, and printouts from tests (if applicable), must be provided to the facility owner/operator for submittal to the County of San Diego Department of Environmental Health Hazardous Materials Division UST Group.

Permit Number: **Plan Check Number:**

FACILITY INFORMATION

Facility Name: County of San Diego Crime Lab Date of Testing: 2005-12-27	
Facility Address: 5255 Mount Etna Drive, San Diego, CA 92117	**Test Type:**
Facility Contact: Mike Johnson Phone:	☐ Initial
Date Local Agency Was Notified of Testing: 2005-12-13	☐ 6 months
Name of Local Agency Inspector *(if present during testing)*: None	☒ 36 months

TESTING CONTRACTOR INFORMATION

Company Name: Lemesnager Engineering Inc.	
Technician Conducting Test: Harold W. Taylor	
Credentials: ☒ CSLB Licensed Contractor	☐ SWRCB Licensed Tank Tester
License Type: A & Haz	License Number: 203029

Manufacturer Training

Manufacturer	Component(s)	Date Training Expires
Incon	STS	12/1/07

SUMMARY OF TEST RESULTS

Component	Pass	Fail	Not Tested	Repairs Made	Component	Pass	Fail	Not Tested	Repairs Made
Dsl Fill 1/Piping Sump	☒	☐	☐	☐		☐	☐	☐	☐
Secondary Piping 1	☒	☐	☐	☐		☐	☐	☐	☐
Secondary Piping 2	☒	☐	☐	☐		☐	☐	☐	☐
Annular	☒	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐

If hydrostatic testing was performed, describe what was done with the water after completion of tests:

Stored in labeled 55 gallon drum, dispossed of by site contact.

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

To the best of my knowledge, the facts stated in this document are accurate and in full compliance with legal requirements

For all testing equipment capable of generating a print out of test results, you must attach a copy of the test report to this certification ☐ **System printout attached**

Technician's Signature: Harold W Taylor Date: 12/27/05

TANK ANNULAR TESTING

Test Method Developed By:	☒ Tank Manufacturer	☐ Industry Standard	☐ Professional Engineer	
	☐ Other *(Specify)*			
Test Method Used:	☐ Pressure	☒ Vacuum	☐ Hydrostatic	
	☐ Other *(Specify)*			
Test Equipment Used: Vacuum Pump, Test Guage			Equipment Resolution: 10"	

	Tank # 1	Tank # 2	Tank #	Tank #
Is Tank Exempt From Testing?[1]	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Tank Capacity:	3,000			
Tank Material:	Plasteel			
Tank Manufacturer:	Joor			
Product Stored:	Diesel			
Wait time between applying pressure/vacuum/water and starting test:	15 min.			
Test Start Time:	8:30 AM			
Initial Reading (R_I):	10"			
Test End Time:	10:30 AM			
Final Reading (R_F):	10"			
Test Duration:	2 hrs.			
Change in Reading (R_F-R_I):	0			
Pass/Fail Threshold or Criteria:	Pass			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Was sensor removed for testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, & recommended follow-up for failed tests)*

[1] Secondary containment systems where the continuous monitoring automatically monitors both the primary and secondary containment,

2. SECONDARY PIPE TESTIN

Test Method Developed By:	☒ Piping Manufacturer	☐ Industry Standard	☐ Professional Engineer
	☐ Other *(Specify)*		
Test Method Used:	☒ Pressure	☐ Vacuum	☐ Hydrostatic
	☐ Other *(Specify)*		
Test Equipment Used: Guages		Equipment Resolution: 5 lbs.	

	Piping Run # 1	**Piping Run # 2**	**Piping Run #**	**Piping Run #**
Piping Material:	Fiberglass			
Piping Manufacturer:	A.O. Smith			
Piping Diameter:	3"			
Length of Piping Run:	24'			
Product Stored:	Diesel			
Method and location of piping-run isolation:	Termination Fitting			
Wait time between applying pressure/vacuum/water and starting test:	15 min.			
Test Start Time:	8:30 AM			
Initial Reading (R_I):	5 lbs.			
Test End Time:	9:30 AM			
Final Reading (R_F):	5 lbs.			
Test Duration:	1 hr			
Change in Reading (R_F-R_I):	0			
Pass/Fail Threshold or Criteria:	Pass			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

3. PIPING SUMP TESTING

Test Method Developed By:	☒ Sump Manufacturer	☐ Industry Standard	☐ Professional Engineer
	☐ Other *(Specify)*		
Test Method Used:	☐ Pressure	☐ Vacuum	☒ Hydrostatic
	☐ Other *(Specify)*		
Test Equipment Used: Icon STS		Equipment Resolution: .002	

	Sump # 1	Sump # 2	Sump #	Sump #
Sump Diameter:	**37"**			
Sump Depth:	**40"**			
Sump Material:	**Fiberglass**			
Height from Tank Top to Top of Highest Piping Penetration:	**18"**			
Height from Tank Top to Lowest Electrical Penetration:	**14"**			
Condition of sump prior to testing:	**Good**			
Portion of Sump Tested[2]	**Sump**			
Does turbine shut down when sump sensor detects liquid (both product and water)?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Turbine shutdown response time	**N/A**			
Is system programmed for fail-safe shutdown?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was fail-safe verified to be operational?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Wait time between applying pressure/vacuum/water and starting test:	**15 min.**			
Test Start Time:	**8:49 AM**			
Initial Reading (R_I):	**6.9917**			
Test End Time:	**9:19 AM**			
Final Reading (R_F):	**6.9910**			
Test Duration:	**30 min.**			
Change in Reading (R_F-R_I):	**.0007**			
Pass/Fail Threshold or Criteria:	**Pass**			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Was sensor removed for testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

Piping and Fill are in the same sump.

[2] If the entire depth of the sump is not tested, specify how much was tested. If the answer to any of the questions indicated with an

4. UNDE[redacted]DISPENSER CONTAINMENT (UD[redacted] TESTING

Test Method Developed By:	☐ UDC Manufacturer	☐ Industry Standard	☐ Professional Engineer
	☐ Other *(Specify)*		
Test Method Used:	☐ Pressure	☐ Vacuum	☐ Hydrostatic
	☐ Other *(Specify)*		
Test Equipment Used:		Equipment Resolution:	

	UDC #	UDC #	UDC #	UDC #
UDC Manufacturer:				
UDC Material:				
UDC Depth:				
Height from UDC Bottom to Top of Highest Piping Penetration:				
Height from UDC Bottom to Lowest Electrical Penetration:				
Condition of UDC prior to testing:				
Portion of UDC Tested[3]				
Does turbine shut down when UDC sensor detects liquid (both product and water)?*	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Turbine shutdown response time				
Is system programmed for fail-safe shutdown?*	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was fail-safe verified to be operational?*	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Wait time between applying pressure/vacuum/water and starting test				
Test Start Time:				
Initial Reading (R_I):				
Test End Time:				
Final Reading (R_F):				
Test Duration:				
Change in Reading (R_F-R_I):				
Pass/Fail Threshold or Criteria:				
Test Result:	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Was sensor removed for testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

This system is dedicated to a back-up generator and therefore does not utilize UDC's.

[3] If the entire depth of the UDC is not tested, specify how much was tested. If the answer to any of the questions indicated with an asterisk (*) is "NO" or "NA", the entire UDC must be tested. (See SWRCB LG-160)

5. FILL RISER CONTAINMENT SUMP TESTING

Facility is Not Equipped With Fill Riser Containment Sumps ☐

Fill Riser Containment Sumps are Present, but were Not Tested ☐ SAME AS PIPE SUMP

Test Method Developed By: ☒ Sump Manufacturer ☐ Industry Standard ☐ Professional Engineer ☐ Other *(Specify)*

Test Method Used: ☐ Pressure ☐ Vacuum ☒ Hydrostatic ☐ Other *(Specify)*

Test Equipment Used: Encon STS | Equipment Resolution: .0029:19 AM

	Fill Sump # 1	Fill Sump # 2	Fill Sump #	Fill Sump #
Sump Diameter:				
Sump Depth:				
Height from Tank Top to Top of Highest Piping Penetration:				
Height from Tank Top to Lowest Electrical Penetration:				
Condition of sump prior to testing:				
Portion of Sump Tested				
Sump Material:				
Wait time between applying pressure/vacuum/water and starting test:				
Test Start Time:				
Initial Reading (R_I):				
Test End Time:				
Final Reading (R_F):				
Test Duration:				
Change in Reading (R_F-R_I):				
Pass/Fail Threshold or Criteria:				
Test Result:	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Is there a sensor in the sump?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Does the sensor alarm when either product or water is detected?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor removed for testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

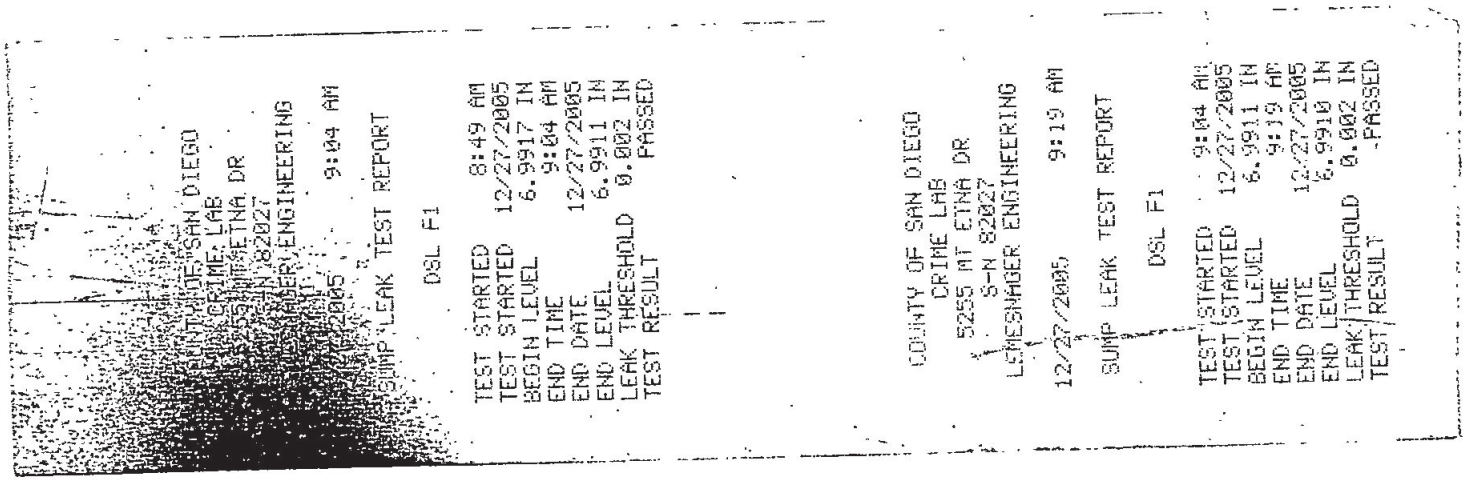
Please Refer to Pipingg Sump test results.

6. SPILL/OVERFILL CONTAINMENT BOXES

Facility is Not Equipped With Spill/Overfill Containment Boxes ☐			
Spill/Overfill Containment Boxes are Present, but were Not Tested ☒			
Test Method Developed By:	☐ Spill Bucket Manufacturer ☐ Industry Standard ☐ Professional Engineer ☐ Other *(Specify)*		
Test Method Used:	☐ Pressure ☐ Vacuum ☐ Hydrostatic ☐ Other *(Specify)*		
Test Equipment Used:		Equipment Resolution:	

	Spill Box #	Spill Box #	Spill Box #	Spill Box #
Bucket Diameter:				
Bucket Depth:				
Wait time between applying pressure/vacuum/water and starting test:				
Test Start Time:				
Initial Reading (R_I):				
Test End Time:				
Final Reading (R_F):				
Test Duration:				
Change in Reading (R_F–R_I):				
Pass/Fail Threshold or Criteria:				
Test Result:	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*



COUNTY OF SAN DIEGO
CRIME LAB
5255 MT ETNA DR
S-N 82027
LEMESHAGER ENGINEERING
12/27/2005 9:19 AM
SUMP LEAK TEST REPORT
DSL F1

TEST STARTED	9:04 AM
TEST STARTED	12/27/2005
BEGIN LEVEL	6.9911 IN
END TIME	9:19 AM
END DATE	12/27/2005
END LEVEL	6.9910 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

COUNTY OF SAN DIEGO
CRIME LAB
5255 MT ETNA DR
S-N 82027
LEMESHAGER ENGINEERING
12/27/2005 9:04 AM
SUMP LEAK TEST REPORT
DSL F1

TEST STARTED	8:49 AM
TEST STARTED	12/27/2005
BEGIN LEVEL	6.9917 IN
END TIME	9:04 AM
END DATE	12/27/2005
END LEVEL	6.9911 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

Send Completed Form to:
County of San Diego,
Department of Environmental Health,
Hazardous Materials Division-UST Group
P.O. Box 129261
San Diego CA 92112-9261

County of San Diego

(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document installation, testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

Plan Check Number: _____ Permit Number: H14261

A. General Information

Facility Name: Sheriff's Crime Lab Bldg. No.: _____

Site Address: 5255 Mt Etna City: San Diego Zip: 92117

Facility Contact Person: Mike Johnson Contact Phone No.: (619) 572-3164

Make/Model of Monitoring System: U/R TLS 300C Date of Testing/Servicing: 1/23/06

B. Inventory of Equipment Tested/Certified: Check the appropriate boxes to indicate specific equipment installed/ inspected serviced:

Tank ID: Dsl Emerg. generator 5,000 Gal	Tank ID:
☒ In-Tank Gauging Probe. Model: Mag 1	☐ In-Tank Gauging Probe. Model:
☒ Annular Space or Vault Sensor. Model: 420	☐ Annular Space or Vault Sensor. Model:
☐ Piping Sump / Trench Sensor(s). Model:	☐ Piping Sump / Trench Sensor(s). Model:
☒ Fill Sump Sensor(s). Model: 208	☐ Fill Sump Sensor(s). Model:
☐ Mechanical Line Leak Detector. Model:	☐ Mechanical Line Leak Detector. Model:
☐ Electronic Line Leak Detector Model:	☐ Electronic Line Leak Detector. Model:
☒ Tank Overfill / High-Level Sensor. Model: Ext. Alarm	☐ Tank Overfill / High-Level Sensor. Model:
☐ Other (specify equipment type and model in Section E on Page 2).	☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID:	Tank ID:
☐ In-Tank Gauging Probe. Model:	☐ In-Tank Gauging Probe. Model:
☐ Annular Space or Vault Sensor. Model:	☐ Annular Space or Vault Sensor. Model:
☐ Piping Sump / Trench Sensor(s). Model:	☐ Piping Sump / Trench Sensor(s). Model:
☐ Fill Sump Sensor(s) Model:	☐ Fill Sump Sensor(s). Model:
☐ Mechanical Line Leak Detector. Model:	☐ Mechanical Line Leak Detector. Model:
☐ Electronic Line Leak Detector. Model:	☐ Electronic Line Leak Detector. Model:
☐ Tank Overfill / High-Level Sensor. Model:	☐ Tank Overfill / High-Level Sensor. Model:
☐ Other (specify equipment type and model in Section E on Page 2).	☑ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID:	Dispenser ID:
☐ Dispenser Containment Sensor(s). Model:	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID:	Dispenser ID:
☐ Dispenser Containment Sensor(s). Model:	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID:	Dispenser ID:
☐ Dispenser Containment Sensor(s). Model:	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification - I certify that the equipment identified in this document was installed/inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report *(check all that apply)*: ☐ System set-up ☐ Alarm history report

Technician Name (print): Rene' LeMesnager Signature: Rene' LeMesnager

Certification No.: 060-05-3103 License No.: 203029

Testing Company Name: LeMesnager Engineering Phone No.: (619) 917-8001

Site Address: _____ Date of Testing/Servicing: 1/23/06

Sheriff Crime Lab

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

H142601

D. Results of Testing/Servicing

Permit Number: _____

Software Version Installed: _____

Complete the following checklist:

☒ Yes	☐ No*	Is the audible alarm operational?
☒ Yes	☐ No*	Is the visual alarm operational?
☒ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☒ Yes	☐ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* ☒ Sump/Trench Sensors; ☒ Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? ☒ Yes; ☐ No.
☒ Yes	☐ No* ☐ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90 %
☐ Yes*	☒ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☒ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☒ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☒ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

* In Section E below, describe how and when these deficiencies were or will be corrected.

E. Comments: _____

Sheriff Crime Lab

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

F. In-Tank Gauging / SIR Equipment: Permit Number: _____

☒ Check this box if tank gauging is used only for inventory control

☐ Check this box if no tank gauging or SIR equipment is installed

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☐ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☐ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☐ Yes	☐ No*	Was accuracy of system product level readings tested?
☐ Yes	☐ No*	Was accuracy of system water level readings tested?
☐ Yes	☐ No*	Were all probes reinstalled properly?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

* In Section H below, describe how and when these deficiencies were or will be corrected.

G. Line Leak Detectors (LLD): ☒ Check this box if LLDs are not installed.

Complete the following checklist:

☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☐ 3 g.p.h.; ☐ 0.1 g.p.h. ; ☐ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

* In Section H below, describe how and when these deficiencies were or will be corrected.

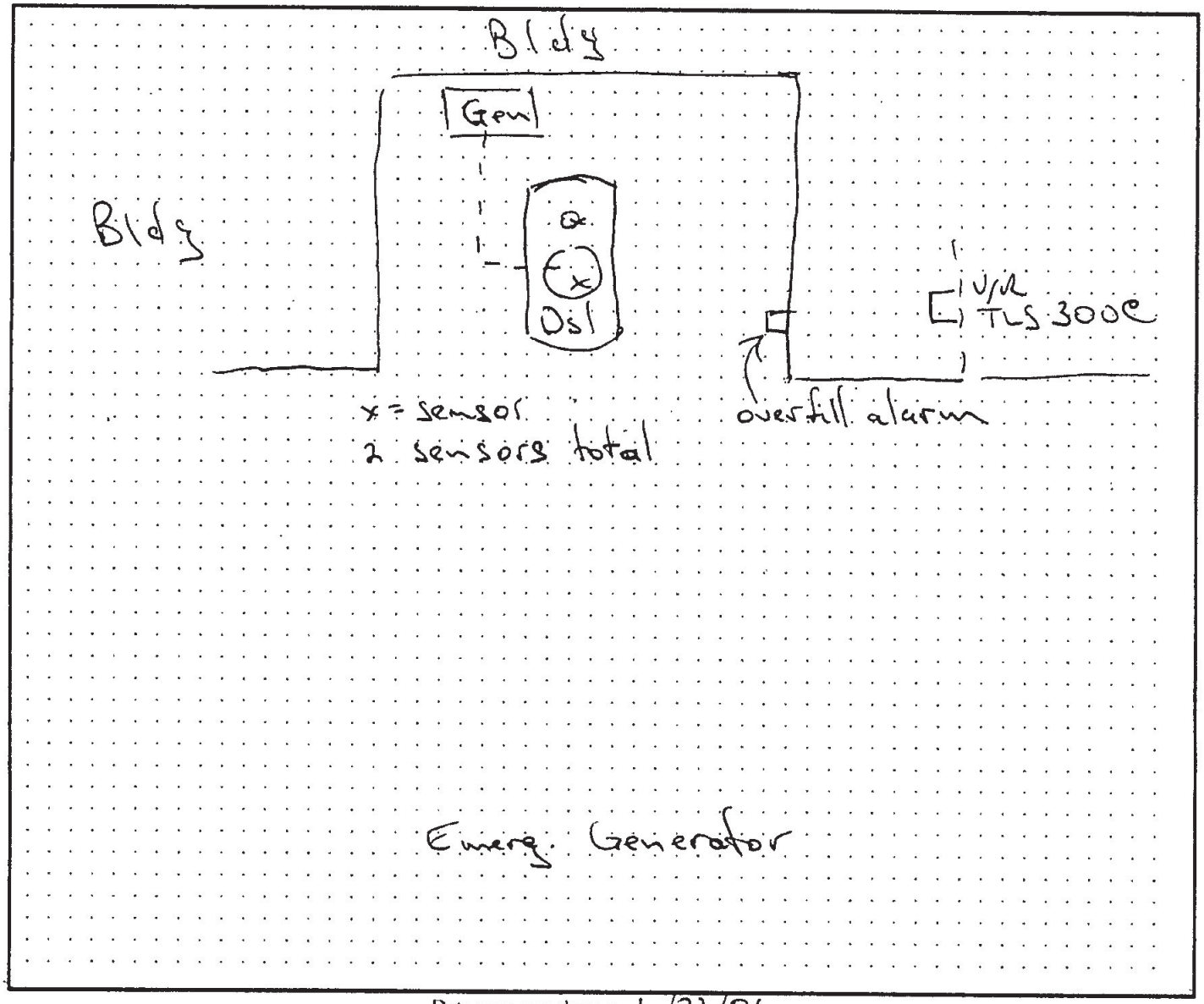
H. Comments: _____

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Permit Number: H14261

UST Monitoring Site Plan

Site Address: Sheriff's Crime Lab 5255 Mt Edna



Date map was drawn: 1/23/06

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

ENTERED MAY 2 3 2006

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 of 1
EST. NO. 114261
DATE 1/23/06
TIME START 0855 END 1055
BUS. CODE ~~K57~~ V70
SPECIALIST Wirschem
CONTACT Mike Johnson
TITLE Mstr Plumber/UST Operator
PHONE 858-694-3615

BUSINESS NAME SAN DIEGO COUNTY SHERIFF CRIME LAB

ADDRESS 5255 MT ETNA DRIVE

CITY/ZIP SAN DIEGO, 92117-6912

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y	N/A		Y	N/A	
X	☐	**Unified Program Facility Permit current and available**			**Permit Expires on: 04 / 30/ 06 .**
X	☐	**Employee Training is adequate**	X	☐	**Employee Training records available**
X	☐	**Waste disposal records available for review**	X	☐	**Waste containers kept closed**
X	☐	**Emergency contacts current ☐Updated today**	X	☐	**Waste containers kept labeled**
X	☐	**Chemical inventory current ☐ Updated today**	X	☐	**Waste containers in good condition**

☐ **All violations noted on this compliance inspection report were corrected during this inspection.**

Today a UST monitoring system certification was conducted with Lesmenager Engineering. This inspection is conducted with Mike Johnson, General Services designated UST operator. The following observations were made during inspection:

-Business/Contingency Plan was observed on-site dated July 2003. A more current plan is maintained by Anthony DeMaria. The following violations were observed. A re-inspection is required. Obtain the above records at the site for inspection within 30 days.

V3158 1. UST operating permit, financial responsibility, monitoring procedures, emergency response plan, monthly inspections, monitoring, maintenance, repair, installation, training and testing records. I am currently working with Mike Johnson to obtain copies of these UST records for this site.

V1006, V1011 2. Hazardous Materials Business Plan current inventory and annual training records.

V0135 3. Hazardous Waste disposal receipts/manifests for past three years.

V1006 4. MSDS for Micorbiocide Trident 7420 was not available. This must be added to the chemical inventory.

V3252 5. UST Monitoring device lights are not working. The light must be in working condition. Replace bulbs within 30 days.

Remarks

1. ☐ The boiler Room is emitting a mercaptan odor and should be checked for gas leaks or inadequate combustion. There ☐ does not appear to be a vent for this room.

Please call me at 858-694-2473 if you have any questions.

ISSUED VIA EMAIL TO Mike Johnson on 1/24/06 at 1010 AM

Signature of Business Representative | Date Signed | Title

11426/

Wirschem, Leon

From: DeMaria, Anthony [Sheriff]
Sent: Tuesday, January 03, 2006 11:02 AM
To: Wirschem, Leon
Subject: RE: Crime Lab inspection

Leon,

The following corrections have been made to violations observed during last weeks inspection:

Re: Hazardous Waste Compliance Inspection/Sheriff's Crime Laboratory
Date of Inspection: 12/28/05
Date of Correction: 12/29/05

Violation 1: Hazardous waste containers were observed missing labels in the following areas: dark room (fixer waste) and at trace evidence (acid, base, organic, oxidizer, salts/metals, pyridine, and one CS2 container). Properly label these containers expeditiously.

1. Proper hazardous waste labels have been placed on the acid waste, base waste, organic waste, oxidizer waste, salts/metals waste, pyridine waste, and CS2 waste containers in the Trace Evidence Section.

2. A hazardous waste label has been placed on the fixer waste container in the Trace Evidence Section darkroom.

Violation 2: Hazardous waste accumulated longer than allowed. Satellite accumulation allows a maximum of one year accumulation. Immediately dispose of the following containers: CS2 dated 9/3/04 at trace evidence, phenol dated 7/9/04 at DNA, Iodine dated 2001 and de-stain dated 2002 at the Amplification Room.

1. The CS2 hazardous waste container in the Trace Evidence Section has been disposed of and replaced with a new container.

2. The phenol hazardous waste container in the Forensic Biology Section has been disposed of and replaced with a new container.

3. The Iodine hazardous waste container in the Forensic Biology Section has been disposed of and replaced with a new container.

4. The destain reagent hazardous waste container in the Forensic Biology Section has been disposed of and replaced with a new container.

Thanks,

Anthony DeMaria

ENTERED FEB 20 2007

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 1 DATE 12/07/06
PERMIT # 114261
TIME START 845 END 930
BUS. CODE HK70
SPECIALIST RICHARDSON
INSPECTION CONTACT/TITLE DONALD TAPPER/ASST DIR
PHONE: 858 467-4607

SAFETY MGR CNTY

BUSINESS NAME SHERIFF CRIME LAB
ADDRESS 5255 MT ETNA DR
CITY/ZIP SAN DIEGO 92117

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y	N/A		Y	N/A	
☑	☐	Unified Program Facility Permit current and available			Permit Expires on: 2/28/07
☑	☐	Hazardous Materials Business Plan available	☑	☐	Contingency Plan available
☑	☐	Employee Training is adequate	☑	☐	Employee Training records available
☑	☐	Waste disposal records available for review	☑	☐	Waste containers kept closed
☑	☐	Emergency contacts current ☐ Updated today	☑	☐	Waste containers kept labeled
☑	☐	Chemical inventory current ☐ Updated today	☑	☐	Waste containers in good condition

ROUTINE INSPECTION

REMARKS

- INVENTORY INCLUDES GASES: HELIUM, NITROGEN, HYDROGEN; WASTES: LAB (SOLVENTS, FLAMMABLES, CORROSIVES) AND MEDICAL WASTE; UNIVERSAL WASTE.
- HAULERS ARE ROMIC AND SPECTRUM
- LAB WASTE IS PROPERLY LABELED AND SEGREGATED FOR DISPOSAL IN A SECURE CONSOLIDATION AREA
- ENSURE ALL SHARPS & RED BAGS ARE PROPERLY LABELED
- TRAINING FOR HAZARDOUS MATERIALS/WASTE & MEDICAL WASTE IS CONDUCTED ANNUALLY
- NO OBSERVED VIOLATIONS

☑ This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.

DMT
Initials of Business Representative

Donald M. Tapper — 12/07/06 — Asst. Lab Director

Signature of Business Representative | Date Signed | Title of Business Representative

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
Phone: (619) 338-2222 Fax: (619) 338-2137 1-800-253-9933 http://www.sdcounty.ca.gov/deh/hmd/index.html

ENTERED FEB 20 2007

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 2 DATE 01/25/07
PERMIT # 114261
TIME START 845 END 1050
BUS. CODE HK 70
SPECIALIST RICHARDSON
INSPECTION CONTACT/TITLE MIKE JOHNSON / SR PLR
PHONE: (858) 694-3615

SD CNTY
BUSINESS NAME SHERIFF CRIME LAB
ADDRESS 5255 MT ETNA DR
CITY/ZIP SAN DIEGO 92117

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HSC) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y	N/A		Y	N/A	
☑	☐	Unified Program Facility Permit current and available			Permit Expires on: 2/28/07
☐	☐	Hazardous Materials Business Plan available	☐	☐	Contingency Plan available
☐	☐	Employee Training is adequate	☐	☐	Employee Training records available
☐	☐	Waste disposal records available for review	☐	☐	Waste containers kept closed
☐	☐	Emergency contacts current ☐ Updated today	☐	☐	Waste containers kept labeled
☐	☐	Chemical inventory current ☐ Updated today	☐	☐	Waste containers in good condition

- ROUTINE BELOW GRADE UST INSPECTION WITH MIKE JOHNSON
- ANNUAL MONITORING CERTIFICATION COMPLETED WITH JAMES ROMERO, LEMESENGAR ENGINEERING
- HAZMAT INSPECTION COMPLETED 12/07/06

NOTICE TO COMPLY: WITHIN (30) THIRTY DAYS

1- MONITORING PROCEDURES FOR UST UNAVAILABLE. COMPLETE MONITORING PROCEDURES AND SUBMIT A COPY TO HMD.

RECEIVED JAN 26 2007

REMARKS

- EMERGENCY PROCEDURES PAGE COMPLETED TODAY, SUBMIT A COPY TO HMD
- UST PERMIT EXPIRES 8/8/2007
- MONITORING CERTIFICATION PASSED TODAY
- SECONDARY CONTAINMENT PASSED 12/27/05
- DO MONTHLY RECORDS REVIEWED

☐ This is an annual certification that the Hazardous Materials Business Plan (inventory, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.

Initials of Business Representative

Signature of Business Representative | 01/25/07 Date Signed | SENIOR PLUMBER Title of Business Representative

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
Phone: (619) 338-2222 Fax: (619) 338-2377 1-800-253-9933 http://www.sdcounty.ca.gov/deh/hmd/index.html

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PERMIT#: 114261
DATE: 01/25/07
PAGE: 2 OF 2

BUSINESS ADDRESS: 5255 MT ETNA ZIP: 92117

VIOLATION REPORT: The items checked below refer to specific section numbers of Title 23 of the California Code of Regulations (CCR), Chapters 6.7, of the Health & Safety Code (HSC) & the County Code of Regulatory Ordinances (SDCC). The following code sections checked are in violation (V) with the Underground Storage Tank laws and regulations. All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

GENERAL UNDERGROUND STORAGE TANK (UST) REQUIREMENTS

VIOLATION DESCRIPTION				VIOLATION DESCRIPTION			
Viol # NOV	UST SYSTEM RECORDS	VIOL	V	Viol # NOV	FILE RECORDS	VIOL	V
	Current UPF permit not obtained/not available. 25284; 68.905, 68.1003, 68.1005	3101			Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e)	3114	
	Current Operating Permit not available at facility. 25284(a), 25286(a); 2712 (i); 68.1003	3102			Secondary containment testing not completed (passed) for all components &/or repairs to secondary containment components not completed. 25284.1, 25291(a)(2); 2637	3115	
	All permit operating conditions not met. 25284; 2712	3158					
	UST repair/modify/closure permit not obtained. 68.1004, 68.1005, 68.1009.5	3103			All releases not recorded and/or reported. 25294, 25295; 2650, 2651, 2652	3151	
	CUPA UST form(s) A &/or B not available/completed/ submitted to HMD. 25286(a); 2711	3104			All maintenance/monitoring/calibration/ repair records not available. 25293; 2712 (b)	3152	
	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809	3105			Monitoring Cert. not submitted to CUPA w/i 30 days. 2638(d)	3161	
					Facility employee(s) not trained; records incomplete/not onsite. 2715(f)	3193	
	Owner/operator agreement not available/ completed/submitted to HMD. 25284(a)(3); 2620(b)	3106			Enhanced leak detection not performed as required. 25292.4; 2640(e)	3154	
1	Monitoring procedures not available/completed/ submitted to HMD.2632(b)& (d), 2634(d), 2641(h), 2711(a)(9)	3107	✓		Contractor &/or technician not trained & certified as required. 25284.1(a)(5)(D); 2715	3162	
	Emergency Response Plan is not available/complete. 25289(b); 2632(b), 2634(e), 2641(h)	3108			Contractor did not have required license, i.e., Class A, C-10, C34, C36 and/or C61. 25284.1(a)(5)(D); 2715	3163	
	Scaled Plot plan showing tank, piping & equipment location not available/complete/submitted to HMD. 2711(a)(8), 2632(d)(1)(C)	3109			Monitoring system disabled or tampered with and/or monitoring records falsified. 25299(f)	3157	
	Annual certification for ATG and/or sensors not completed (existing tank systems only). 2641(j), 2638	3110			All monitoring equipment not installed, calibrated, operated, and/or maintained per manufacturer's instructions. 2638(a), 2641(j)	3164	
	Annual certification for continuous monitoring system not completed (new tanks). 25284.1(a)(4)(C); 2630(d), 2638	3116			UST system repair(s) not completed properly. 25292.1(c); 2660 (a)(k)(l)(m)	3160	
	Designated Operator (DO) Notification/Change form not submitted &/or DO not ICC certified. 2715 (a)(b)	3191			Designated Operator monthly inspection not conducted, incomplete or DO inspection reports not onsite.2715 (c)(d)(e)	3192	

UST SYSTEM INSPECTION

Requirements applicable for both, single & double walled systems

		TANK #	T00-2			
		PRODUCT	DSL			
#	VIOLATION DESCRIPTION	NOV VIOL	V	V	V	V
	Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)	3251				
	All audible and/or visual alarms not functioning properly. 2632(c)(2)(B), 2636(f)(1)	3252				
	Sticker/tag not affixed to monitoring equipment at certification. 2638(f)	3270				
	UST system does not have an approved overfill protection system. 2635(b)(2)	3254				
	Spill container is not in good condition and/or liquid free. 2635 (b)(1), 2636(a)(1)	3255				
	Fill box drain not functional and backup system is not available. 2635(b)(1)(C)	3256				
	Secondary containment system components not liquid free. 2631(d)(4)	3257				
	Sensors not placed adequately and/or at low point in sumps. 2641(a), 25291(a)(7)(C)	3258				
	Dispenser containment currently required and not present. 25284.1(a)(5); 2636(g)	3259				
	Dispenser containment not adequately monitored. 2636(f)(1) or (f)(5)(A)	3267				
	Dispenser containment not maintained free of liquid. 2631(d)(4)	3261				
	Secondary containment piping obstructed preventing drainage to sump. 2632	3262				
	Monitoring system components &/or devices are not all functional. 2630, 2641(j), 2632	3263				
	Spill containment not tested annually. 25284.2	3264				
	UST system not operated to prevent spills and/or overfills. 25292.1 (a)	3265				
	UST system not product tight (for tank installs on or after 7/1/03). 25290.1(c), 25290.2 (c)	3268				
	UST system not continuously monitored using Vacuum/Pressure/Hydrostatic (VPH) system (for tank installs on or after 7/1/04). 25290.1 (d)&(e)	3269				
CATHODIC PROTECTION						
	System not checked as required by tester (at 6 months/3yrs). 2635(a)(2)(A)	3301				
	Impressed-current system not checked every 60 days. 2635(a)(2)(A)	3302				
	Corrosion protection not adequate. 25292.1(b); 2635(a)(2), 2662(c)	3303				
CLOSURE REQUIREMENTS						
	Temporary closure requirements not completed. 25298, 2671	3322				
	Unused tank not properly closed. Permanent closure requirements not met. 25298, 2672	3324				

Signature of Business Representative

01/25/07
Date Signed

SENIOR PLUMBER
Title of Business Representative

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document installation, testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

Plan Check Number: **Permit Number:** H14261

A. General Information

Facility Name: Sheriffs Crime Lab Bldg. No.:
Site Address: 5255 Mt. Etna. S.D. Zip: 92117
Facility Contact Person: Mike Johnson Contact Phone No.:
Make/Model of Monitoring System: V/R TLS-300C Date of Testing/Servicing: 1-25-07

B. Inventory of Equipment Tested/Certified: Check the appropriate boxes to indicate specific equipment installed/inspected/serviced:

Tank ID: DSL Emergency Generator	**Tank ID:**
■ In-Tank Gauging Probe. Model: MAG#1	☐ In-Tank Gauging Probe. Model:
■ Annular Space or Vault Sensor. Model: -420	☐ Annular Space or Vault Sensor. Model:
☐ Piping Sump / Trench Sensor(s). Model:	☐ Piping Sump / Trench Sensor(s). Model:
■ Fill Sump Sensor(s). Model: -208	☐ Fill Sump Sensor(s). Model:
☐ Mechanical Line Leak Detector. Model:	☐ Mechanical Line Leak Detector. Model:
☐ Electronic Line Leak Detector. Model:	☐ Electronic Line Leak Detector. Model:
■ Tank Overfill / High-Level Sensor. Model: EXT:Alarm	☐ Tank Overfill / High-Level Sensor. Model:
☐ Other (specify equipment type and model in Section E on Page 2).	☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID:	**Tank ID:**
☐ In-Tank Gauging Probe. Model:	☐ In-Tank Gauging Probe. Model:
☐ Annular Space or Vault Sensor. Model:	☐ Annular Space or Vault Sensor. Model:
☐ Piping Sump / Trench Sensor(s). Model:	☐ Piping Sump / Trench Sensor(s). Model:
☐ Fill Sump Sensor(s). Model:	☐ Fill Sump Sensor(s). Model:
☐ Mechanical Line Leak Detector. Model:	☐ Mechanical Line Leak Detector. Model:
☐ Electronic Line Leak Detector. Model:	☐ Electronic Line Leak Detector. Model:
☐ Tank Overfill / High-Level Sensor. Model:	☐ Tank Overfill / High-Level Sensor. Model:
☐ Other (specify equipment type and model in Section E on Page 2).	☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID:	**Dispenser ID:**
☐ Dispenser Containment Sensor(s). Model:	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID:	**Dispenser ID:**
☐ Dispenser Containment Sensor(s). Model:	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID:	**Dispenser ID:**
☐ Dispenser Containment Sensor(s). Model:	☐ Dispenser Containment Sensor(s). Model:
☐ Shear Valve(s).	☐ Shear Valve(s).
☐ Dispenser Containment Float(s) and Chain(s).	☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification - I certify that the equipment identified in this document was installed/inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report *(check all that apply)*: ■ System set-up ■ Alarm history report

Technician Name (print): James Romero Signature:
Certification No.: A29889 License No.: #203029
Testing Company Name: Lemesnager Engineering Phone No.: (619) 300-6094 x0000
Site Address: 8211 Santaluz Village Green N, City San Diego Ca, Zip 92127 Date of Testing/Servicing:

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

D. Results of Testing/Servicing

Permit Number: H14261

Software Version Installed: 15.01

Complete the following checklist:

■ Yes	☐ No*	Is the audible alarm operational?
■ Yes	☐ No*	Is the visual alarm operational?
■ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
■ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ■ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ■ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No.
■ Yes	☐ No* ☐ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90 %
☐ Yes*	■ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	■ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
■ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
■ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments:

F. In-Tank Gauging / SIR Equipment: Permit Number:

■ Check this box if tank gauging is used only for inventory control

☐ Check this box if no tank gauging or SIR equipment is installed

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☐ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☐ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☐ Yes	☐ No*	Was accuracy of system product level readings tested?
☐ Yes	☐ No*	Was accuracy of system water level readings tested?
☐ Yes	☐ No*	Were all probes reinstalled properly?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD):

■ Check this box if LLDs are not installed.

Complete the following checklist:

☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☐ 3 g.p.h.; ☐ 0.1 g.p.h. ; ☐ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

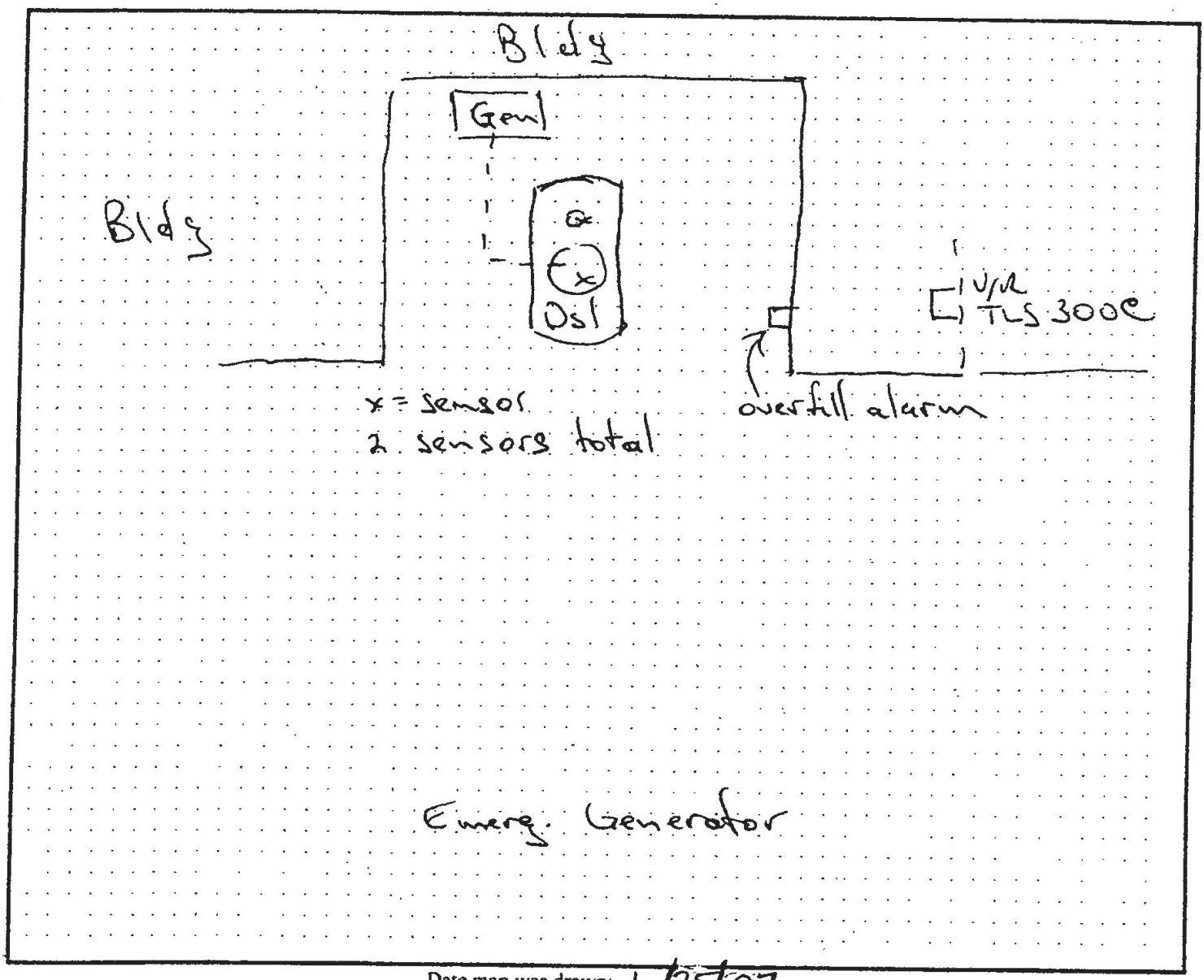
H. Comments: Emergency Generator!

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Permit Number: ~~A5-01~~ H14261

UST Monitoring Site Plan

Site Address: Sheriff's Crime Lab 5255 Mt Edna



Date map was drawn: 1/25/07

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

11426

SWRCB, January 2006

Spill Bucket Testing Report Form

This form is intended for use by contractors performing annual testing of UST spill containment structures. The completed form and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name:	Sheriffs Crime Lab	Date of Testing:	1-25-07
Facility Address:	5255 MT. ETNA		
Facility Contact:	Mike Johnson	Phone:	619-572-3164
Date Local Agency Was Notified of Testing :			
Name of Local Agency Inspector *(if present during testing)*:	Brad R.		

2. TESTING CONTRACTOR INFORMATION

Company Name:	Lemenager ENG.
Technician Conducting Test	James Romero
Credentials[1]:	☒ CSLB Contractor ☑ ICC Service Tech. ☐ SWRCB Tank Tester ☐ Other *(Specify)*
License Number(s):	203029

3. SPILL BUCKET TESTING INFORMATION

Test Method Used:	☒ Hydrostatic	☐ Vacuum	☐ Other	
Test Equipment Used:	industry standard		Equipment Resolution:	
Identify Spill Bucket *(By Tank Number, Stored Product, etc.)*	1 DSL	2	3	4
Bucket Installation Type:	☐ Direct Bury ☒ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump
Bucket Diameter:	12"			
Bucket Depth:	14"			
Wait time between applying vacuum/water and start of test:	15 min			
Test Start Time (T_I):	8:50			
Initial Reading (R_I):	6"			
Test End Time (T_F):	9:50			
Final Reading (R_F):	6"			
Test Duration ($T_F - T_I$):	1 HR			
Change in Reading ($R_F - R_I$):				
Pass/Fail Threshold or Criteria:				
Test Result:	● **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technician's Signature: James Romero Date: 1-25-07

[1] State laws and regulations do not currently require testing to be performed by a qualified contractor. However, local requirements may be more stringent

COUNTY OF SAN DIEGO

CORRECTIVE ACTION FORM TO DOCUMENT RETURN TO COMPLIANCE

PERMIT #: 114261

SPECIALIST: RICHARDSON

INSPECTION DATE: 01/25/07

CONTACT: MIKE JOHNSON

SD CNTY

BUSINESS NAME SHERIFF CRIME LAB

ADDRESS 5255 MT ETNA DR CITY SD ZIP 92117

VIOL #	DATE CORRECTED	INDICATE HOW VIOLATIONS WERE CORRECTED (ATTACH ANY SUPPORTING DOCUMENTATION TO THIS FORM)
1 v 3107	1/26/07	completed forms and sent to HMD for signatures.
2 v	___/___/___	
3 v	___/___/___	
4 v	___/___/___	
5 v	___/___/___	
6 v	___/___/___	
7 v	___/___/___	
8 v	___/___/___	
9 v	___/___/___	
10 v	___/___/___	

I certify under penalty of law that this business/site has corrected all violations marked on the Compliance Inspection Report/Notice of Violation. I have personally examined and am familiar with the information submitted and believe the information is true, accurate and complete. I am authorized to file this certification for the business/site, and am aware that there are significant penalties for submitting false information.

Responsible Party: KENNETH M. JOHNSON (Print Name) **Job Title** Sr Plumber / DSO

Signature of Responsible Party: KM Johnson **Date:** 1/26/07

≺ Send completed form and supporting documentation to the address listed below ≻

COUNTY OF SAN DIEGO USE ONLY: **Reviewed by:** Brad R **Date:** 2/2/07

Specialist's comments: KIVA COMMENT entered

☑ **All violations noted on date listed above were corrected.**

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261

http://www.sdcounty.ca.gov/deh/hmd/index.html 619-338-2222; 1-800-253-9933; Fax 619-338-2377

Scan to file # 1142681. JP ✓

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2139 1-800-253-9933
http://www.sdcounty.ca.gov/deh/hmd/index.html

Designation of Underground Storage Tank (UST) Operator

UST Owner Statement of Understanding and Compliance with UST Requirements

Facility Name: Sheriff Regional Crime Lab	Facility Permit #: 1 1 4 2 6 1
Facility Address: 5255 Mount Etna	Phone:
City: San Diego	Zip Code: 92117-

Reason for Submitting this Form *(Check One)* ☐ **Initial Certification** ☐ **Change of Designated Operator** ☒ **Certificate Renewal**

Designated UST Operator(s) for this Facility

PRIMARY DESIGNATED UST OPERATOR

Designated Operator's Name: Kenneth M. Johnson
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (858)694-3615
International Code Council Certification #: 5248983-UC

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☐ Employee
☐ Service Technician ☒ Third-Party

Expiration Date: 2008-11-09

ALTERNATE 1 ***(Optional)***

Designated Operator's Name:
Business Name *(If different from above)*:
Designated Operator's Phone #:
International Code Council Certification #:

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☐ Employee
☐ Service Technician ☐ Third-Party

Expiration Date:

ALTERNATE 2 ***(Optional)***

Designated Operator's Name:
Business Name *(If different from above)*:
Designated Operator's Phone #:
International Code Council Certification #:

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☐ Employee
☐ Service Technician ☐ Third-Party

Expiration Date:

NOTIFY THE LOCAL REGULATORY AGENCY WITHIN 30 DAYS OF ANY CHANGES TO THIS INFORMATION

I certify that, for the facility indicated at the top of this page, the individual(s) listed above will serve as Designated UST Operator(s). The individual(s) will conduct and document monthly facility inspections and annual facility employee training, in accordance with California Code of Regulations, Title 23, Sections 2715(c) - (f).
Furthermore, I understand and am in compliance with the requirements (statutes, regulations, and local ordinances) applicable to underground storage tanks.

MC Urquhart — **DATE:** 10/23/2007
NAME OF TANK OWNER OR OWNER'S AGENT (Please Print)

MC Urquhart — **OWNER'S PHONE #:** 858.694.2111
SIGNATURE OF TANK OWNER OR OWNER'S AGENT

Return this completed form to: **HMD-Designated UST Operator**
P.O. Box 129261, San Diego, CA 92112-9261

Permit #: 114261
State ID: 37-000-114261

Operating Permit Issued on 08/09/2007
Operating Permit Expires on: 08/08/2012
Reference Number: 136

San Diego County

Department of Environmental Health

UNDERGROUND STORAGE TANK OPERATING PERMIT

UST Facility Name: SD CNTY SHERIFF CRIME LAB
Site Address: 5255 MT ETNA DR, SAN DIEGO, 92117-6912
Tank Owner's Name: COUNTY OF SAN DIEGO
Tank Operator's Name SD CNTY SHERIFF CRIME LAB

See reverse side for permit conditions and requirements.

	Tank#	Capacity (gallons)	Tank Use	Piping Construction	Contents	Monitoring Alternative
1.	23515	4000	Motor Vehicle Fuel	DOUBLE WALL	DIESEL	DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL

Total Number of Operating Permitted Tanks: 1

OFFICE USE ONLY

UPFP #: 114261

EMERGENCY RESPONSE PLAN
UNDERGROUND STORAGE TANK (UST) MONITORING PROGRAM

Authority cited: title 23 CCR, Sections2632 (d)(2), 2634 (e)(2), and 2641 (h)

California Underground Storage Tank (UST) Regulations require that facilities with USTs prepare a written response plan that describes how an unauthorized release will be handled. The plan must be approved by the County of San Diego, Hazardous Materials Division.

This monitoring program must be kept at the UST location at all times. The elements of this monitoring program constitute conditions of the UST operating permit. The permit holder **must** submit any changes to the San Diego County, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261, **within 30 days** of any changes to the monitoring program, unless required to obtain approval before making the change.

A. General Information

Facility Name: Sheriff Crime Lab

Site Address: 5255 Mt. Etna

City: San Diego Zip Code: 92117

B. Spill Control and Clean-up Methods

Note: This plan supplements the Emergency Response/Contingency Plan module in the facility's Hazardous Materials Business Plan (Business Plan).

If safe to do so, facility personnel will take immediate measures to control or stop the release (e.g. activate pump shut-off, etc.) and, if necessary, safely remove remaining hazardous material from the UST system.

Any release to secondary containment will be pumped or otherwise removed from the secondary containment system within a time consistent with the ability of the secondary containment system to contain the hazardous substance, but not greater than 30 calendar days or sooner if required by the local agency. Recovered hazardous materials, unless still suitable for their intended use, will be managed as hazardous waste.

Absorbents will be used to contain and clean up manageable spills of hazardous materials. Absorbents may be reused until they become too saturated to be effective. At that point, they will be managed as hazardous waste. Used absorbents, whether reusable or waste, will be stored in a properly labeled and sealed container

Facility personnel will determine whether or not any water removed from secondary containment systems, or from clean-up activity, has been in contact with any hazardous material. If the water is contaminated, it will be managed as hazardous waste. In the case of petroleum, a visual check will usually suffice. If the water has a petroleum sheen (i.e. rainbow colors), it is contaminated. A thick floating petroleum layer may not necessarily display rainbow colors. Water (hazardous or non-hazardous) from sumps, spill containers, etc. will not be disposed of on the ground or to storm water systems.

C. Spill Control and Clean-up Equipment

Spill control and clean-up equipment kept on-site is listed in the Emergency Equipment Inventory Table in the Business Plan. This equipment is inspected at least monthly, and after each use, and supplies are replenished as needed.

OFFICE USE ONLY

UPFP #: 114261

EMERGENCY RESPONSE PLAN
UNDERGROUND STORAGE TANK (UST) MONITORING PROGRAM

The following equipment is located off-site, but is available for use if needed:

Equipment	Location	Availability

If any spill control and clean-up equipment requires periodic maintenance, identify that equipment and describe the nature of maintenance and maintenance interval(s):

_____

_____

_____

_____

D. Responsible Persons

The following person(s) is/are responsible for authorizing any work necessary under this response plan:

Name	Title
Michael McNamara	Building Maintenance Supervisor
K. M. Johnson	Designated System Operator

E. Reporting and Record Keeping

A written report (i.e. Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report) will be submitted to the local agency within 5 working days of a spill or release outside of secondary containment.

Any spills, leaks, or water intrusion problems will be documented in the facility's monitoring records. Those records will include the date and time of the incident; the nature and cause of the incident; a description of how the incident was resolved; and the results of any analyses performed in a laboratory or in the field.

Monitoring records and written reports of unauthorized releases will be maintained on-site for at least 3 years. Hazardous waste shipping/disposal records will be maintained for at least 3 years from the date of shipment.

Agency Use Only

This plan has been reviewed and: ☑ Approved ☐ Approved With Conditions ☐ Disapproved

Local Agency Signature: BRAD R Date: 01/30/07

Comments/Special Conditions: _____

_____

OFFICE USE ONLY
UPFP: 114261

WRITTEN MONITORING PROCEDURES
UNDERGROUND STORAGE TANK (UST) MONITORING PROGRAM

Authority cited: Title 23 CCR, Sections 2632 (d)(1), 2634 (d)(2), and 2641 (h)

This monitoring program must be kept at the UST location at all times. The elements of this monitoring program constitute conditions of the UST operating permit. The permit holder **must** submit any changes to the San Diego County, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261, **within 30 days** of any changes to the monitoring program, unless required to obtain approval before making the change.

A. General Information

Facility Name: County of San Diego Crime Lab

Facility Address: 5255 Mt. Etna S.D. 92117

☒ Tank and piping monitoring is identical for all UST's located at this facility; *or*

☐ This plan covers only the following tank(s): _____

☐ No electronic leak detection systems are used to monitor UST systems covered by this plan; *or*

☒ The following type of electronic monitoring system performs leak detection monitoring for UST systems covered by this plan (i.e.: Veeder Root TLS 350):

Manufacturer: Veeder Root Model # TLS350

Manufacturer: _____ Model # _____

B. Tank Monitoring (refer to annual monitor certification for help)

☒ Continuous electronic monitoring of tank interstitial space or secondary containment:

Leak Sensor Manufacturer Veeder Root Sensor Model # 420

☐ Automatic Tank Gauging system used to monitor single-walled tank(s):

In-Tank Probe Manufacturer _____ Probe Model # _____

Frequency of Leak Tests: ☐ Continuous (i.e. CITLD, CSLD) ☐ Daily ☐ Weekly ☐ Monthly ☐ Other (Specify) _____

Programmed Leak Threshold: ☐ 0.1gph ☐ 0.2gph

☐ Weekly Manual Tank Gauging. Testing Period: ☐ 36 hours ☐ 60 hours

☐ Statistical Inventory Reconciliation (SIR): Note: requires biennial tank integrity test

SIR Vendor: _____

☐ Tank Tightness Testing conducted: ☐ Annually ☐ Monthly ☐ Other (specify) _____

☐ Other Monitoring (specify): _____

C. Piping Monitoring (refer to annual monitor certification for help)

Line Monitoring is performed using the following methods: (*check all that apply*)

☐ No product or remote-fill piping connected to UST

☒ Continuous electronic monitoring of piping sump and other secondary containment sumps:

Sensor Manufacturer Veeder Root Sensor Model # 208

Will piping leak alarm trigger automatic shutdown of pump? ☒ Yes ☐ No

Will failure/disconnection of monitoring system trigger automatic shutdown of pump? ☐ Yes ☒ No

☐ Mechanical line leak detector (performs 3.0 gph leak test & restricts or shuts off flow when leak is detected):

Manufacturer _____ Model # _____

☐ Electronic line leak detector (ELLD):

Manufacturer _____ Model # _____

Programmed line tightness test: ☐ 0.1gph annually ☐ 0.2gph monthly ☐ 3.0 gph

Will ELLD detection of a piping leak trigger automatic shutdown of pump? ☐ Yes ☐ No

Will failure or disconnection of the ELLD trigger automatic shutdown of pump? ☐ Yes ☐ No

☐ Line tightness testing conducted: ☐ Annually ☐ Every 3 years ☐ Other (specify) _____

☐ Piping is suction piping meeting all requirements for exemption from monitoring (23 CCR § 2636(a)(3))

☐ Dispensers are checked daily and "Suction Piping Daily Inspection Log" is completed

☐ Above ground visual monitoring daily

☐ Other (specify): _____

D. Dispenser Leak Detection *(check all that apply)*

☐ No Under Dispenser Containment (UDC) :Dispenser housings are opened and fittings inspected daily

☒ No dispensers in system

☐ Float and chain assembly in under dispenser containment trips shear valve in case of leak

Assembly Manufacturer _____ Model # _____

☐ Continuous electronic monitoring of UDC

OFFICE USE ONLY
UPFP: 114261

WRITTEN MONITORING PROCEDURES

Leak sensor Manufacturer:_____ Model #:_____
Will leak trigger audible and visual alarms? ☐Yes ☐No
Will leak trigger automatic shutdown of turbine pump? ☐Yes ☐No
Will failure/disconnection of monitoring system trigger shutdown of pump? ☐Yes ☐No
Other (specify):_____

E. Overfill Protection
The following method is present to prevent overfilling the UST(s): (*check all that apply*)
☒ High Level Alarm alerts transfer operator when tank is 90 % capacity
☒ Ball Float Valve that activates at 95 % of tank capacity
☐ Automatic Shut-off device (flapper valve)
☐ Total secondary containment of piping including vent lines

F. Monitoring Locations
☐ Attached to this monitoring plan is a site plan which shows the general tank and piping layouts and the location where monitoring is performed (i.e. locations of sumps, sensors, line leak detectors, control panels, etc.)

G. Personnel Responsibilities
The following facility personnel are responsible for performing UST monitoring activities and/or maintaining UST leak detection equipment: (include employee job title and specific UST monitoring responsibilities: i.e., inspection of equipment, reporting of alarms, arranging equipment testing &servicing, maintaining monitoring records, etc.)

		Area of Responsibility
Name: Kenneth M. Johnson	Title: Sr. Plumber/D.S Operator	monthly Inspections
Name: _____	Title: _____	_____
Name: _____	Title: _____	_____

H. Reporting Format
Briefly describe the reporting format for monitoring: (i.e. SIR, in tank test, annual certification.)
_____

I. Equipment Testing and Preventive Maintenance
State law requires that testing, preventive maintenance, and calibration (if applicable) of monitoring equipment (i.e. sensors, probes, line leak detectors, etc.) be performed in accordance with the equipment manufacturer's instructions or annually, whichever is more frequent. Qualified personnel must perform such work.

Monitor equipment is serviced: ☒ Annually ☐ Other (specify)_____
Describe the preventive maintenance schedule for the monitoring equipment: (List contractor performing repairs and or certifications, if known) _____

J. Training
Briefly describe the employee training necessary for the operation of UST system, including piping, and the monitoring equipment:
Emergency Response and Safety

Certification
I have reviewed this Underground Storage Tank Monitoring Plan and determined that it accurately describes monitoring of underground storage tank systems at this facility.

Signature of Owner/Operator K M Johnson Date 1/25/07

Below This Line For Agency Use Only

☑ This plan has been approved ☐ This plan has been returned
Specialist's Signature BRAD R Date 01/30/07
Comments:

ENTERED FEB 1 1 2008

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE	1 of 6
EST. NO.	114261
DATE	1/24/08
TIME START	8:00 END 3:00
BUS. CODE	K70
SPECIALIST	J. Pearson
CONTACT	Jeanne Redemen
TITLE	Criminalist III
PHONE	858-467-4600

BUSINESS NAME **SD County Sheriff Crime Lab**

ADDRESS **5255 Mount Etna Drive**

CITY/ZIP **San Diego, CA 92117-6912**

On the above date, an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (HCS) Chapters 6.5, 6.7, 6.95; Titles 19, 22 and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). The following remarks are intended to provide guidance to correct the violations noted on the attached violation report.

NOTE: Re-inspection fees will be charged if additional inspections are required to determine compliance.

Y	N/A		Y	N/A	
☒	☐	**Unified Program Facility Permit current and available**			**Permit Expires on: 03/31/08**
☒	☐	**Hazardous Materials Business Plan available**	☒	☐	**Contingency Plan available**
☒	☐	**Employee Training is adequate**	☒	☐	**Employee Training records available**
☒	☐	**Waste disposal records available for review**	☒	☐	**Waste containers kept closed**
☐	☐	**Emergency contacts current ☒ Updated today**	☐	☐	**Waste containers kept labeled**
☐	☐	**Chemical inventory current ☒ Updated today**	☒	☐	**Waste containers in good condition**

A routine CUPA inspection covering the Underground Storage Tank (UST), medical waste, and hazardous waste/materials was conducted with Jeanne Redemen, Criminalist III, and Anthony Demaria, Supervising Criminalist. The annual monitoring certification for the 4,000 gallon diesel containing UST was performed by James Romero, Service Technician with LeMesnager Engineering (ICC# 5313873-UT). Kenneth M. Johnson, Designated Operator (DO), was present for the UST component of the inspection (ICC# 5248983-UC).

NOTICE TO COMPLY

RECEIVED JAN 2 9 2008

UST Violations:

1.) **Observation:** This facility's UST Operating permit (permit printed on blue paper) expired on 11/08/07.
Violation: Current Operating Permit not available at facility. 25284(a), 25286(a), 2712(i), 68.1003
Corrective Action: The UST Operating permit will be issued by the San Diego County Hazardous Materials Division (HMD) when the UST systems are in full compliance. Within 30 days of receiving this report, please submit documentation to HMD confirming all UST violations and remarks requesting action have been addressed.

2.) **Observation:** The annual UST Designated Operator (DO) training for 2007 needs to be completed for applicable personnel (those involved with, or expected to respond to, issues involving the UST monitoring system/emergency response).
Violation: Facility employee(s) not trained; records incomplete/not onsite. 2715(f)
Corrective Action: Complete required training and submit a copy of the DO training log to HMD within 30 days.

Hazardous Materials/Waste Violations:

3.) **Observation:** The Hazardous Materials Business Plan (HMBP), which includes a facility site map, employee training description and emergency response plan, is required to be kept on-site available to employees, as well as

Signature of Business Representative | 1/25/08 Date Signed | Crim III Title of Business Representative

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE	2 of 6
EST. NO.	114261
DATE	1/24/08
TIME START	8:00 END 3:00
BUS. CODE	K70
SPECIALIST	J. Pearson
CONTACT	Jeanne Redemen
TITLE	Criminalist III
PHONE	858-467-4600

BUSINESS NAME **SD County Sheriff Crime Lab**

ADDRESS **5255 Mount Etna Drive**

CITY/ZIP **San Diego, CA 92117-6912**

on file with HMD. The HMBP should be reviewed and recertified annually which can be achieved by submitting a certification form to HMD (available online at www.sdcdeh.org under Forms & Applications, Hazardous Materials Division, and Business). The business plan located onsite was over 10 years old and needed to be updated. Some of the information (emergency response plan and employee training description) may be available online at this site, but it was not adequately demonstrated during the inspection.
Violation: HMBP is incomplete/inadequate/not amended to reflect changes 25504, 225505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Corrective Action: Please update the HMBP associated with this permit and submit a copy of the updated plan with a signed certification form to HMD within 30 days. It is recommended that outdated HMBP's be purged from your available records, as inaccurate plans may lead to confusion in an emergency. If online/paperless resources are used to help satisfy HMBP requirements please submit a description, or printed copy, of those items.

4.) **Observation:** As a small-quantity hazardous waste generator, a general 6-month accumulation time limit applies to hazardous waste. This time limit is extended to one year for wastes eligible for satellite accumulation (see form HM-9635 for more information). The following hazardous wastes were observed to be outside of allowed accumulation time limits during today's inspection: Phenol Chloroform in the DNA hood dated 12/5/06, a container of hazardous "biohazardous waste" in DNA dated 10/26/06, SNP/NaOh dated 1/2/07 in Narcotics hood, Sudan Black and ethanol mixture dated 12/12/06, DFO dated 10/26/06, methanol waste dated 11/08/06 all in the Wet Chemical Room, CS2 dated 10/28/05 and two containers of waste oil (presumed similar date) in the Trace Arson hood, and three waste containers dated 10/28/05 in the Spray Hood (acid waste, salts/metal waste, and organic waste).
Violation: Accumulated waste too long (>180 or 270 days). 66262.34(d) CFR 262.34(e) & (f)
Corrective Action: Within 30 days send evidence to HMD that the waste has been disposed of properly. Accurate start dates are imperative for gauging accumulation time limits.

5.) **Observation:** All containers should be labeled so that their contents are obvious upon visual inspection. Hazardous waste containers must be labeled with completed hazardous waste labels, including legible generator information, an accumulation start date, contents, physical state and hazards. Universal Waste containers can be labeled as Universal Waste, the specific type of waste (i.e. "waste batteries"), and have a start date marked on them. Previously used empty containers over 5 gallons should be marked "EMPTY" and dated. The following containers were found inadequately labeled today: waste acetone, gasoline, n-propyl alcohol, and high way fuses in the waste storage room flammable locker were missing hazardous waste labels. Two containers of used oil under the trace arson hood were missing hazardous waste labels, and numerous satellite accumulation containers were missing generator information, physical state, and hazards (partial labels are used on smaller, satellite accumulation containers throughout the facility, that show contents, and dates only). Containers of CSA debris found in DNA Narcotics were labeled as empty monthly and a start date. Monthly is not an option for transfer containers. All hazardous waste transfer containers should be labeled with hazardous waste labels marked "daily" or "weekly" as the accumulation start date depending on if they are emptied into final accumulation containers on a daily or weekly basis.
Violation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)

J. Redemen — Signature of Business Representative
1/25/08 — Date Signed
Criminalist III — Title of Business Representative

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE	3 of 6
EST. NO.	114261
DATE	1/24/08
TIME START	8:00 END 3:00
BUS. CODE	K70
SPECIALIST	J. Pearson
CONTACT	Jeanne Redemen
TITLE	Criminalist III
PHONE	858-467-4600

BUSINESS NAME **SD County Sheriff Crime Lab**

ADDRESS **5255 Mount Etna Drive**

CITY/ZIP **San Diego, CA 92117-6912**

Corrective Action: Label all containers properly and send documentation to HMD confirming this has been done within 30 days. It is recommended that Universal Waste labels be obtained for building maintenance as well as the lab.

Medical Waste Violations:

6.) **Observation:** This facility was a large quantity medical waste generator for multiple months in 2007 (generates over 200 pounds of medical waste in month). As a large-quantity generator, and/or a small-quantity generator that treats medical waste onsite, you must submit your MWMP to HMD, and keep a copy onsite. This should be done every time the MWMP is updated so that HMD continually has an accurate plan on file. An adequate MWMP was not located onsite during the inspection. A document was found on the computer but it was missing medical waste monthly quantity estimates.
Violation: MWMP not submitted to HMD (initial/updates). 117950, 117960, 117970
Corrective Action: By 2/24/07 submit an updated copy of your MWMP to HMD. Keep the original copy onsite. A blank MWMP can be obtained on HMD's website (added to Jeanne's favorites during the inspection).

REMARKS:

- Please ensure Universal Waste (fluorescent light bulbs, alkaline batteries, many electronics, non-empty aerosol cans, mercury-containing items and more) is disposed of properly. These items may not go into the regular trash in California. Universal Waste can be recycled, treated as hazardous waste, or otherwise managed to avoid being trashed. Visit www.dtsc.ca.gov for general information on Universal Waste, and www.ilacsd.org for possible disposal options. Currently, waste fluorescent bulbs and some batteries are transferred to the Juvenile location and then the COC for disposal. Universal waste electronics (CRT's, printers, a TV) were seen accumulating in a caged area outside, and wet with rain water. Universal waste should be protected from the elements and further damage. Reorganize the universal waste storage area/system so that all requirements are met.

- Please submit updated copies of UST Forms A and B to HMD within 30 days.

- The definition of medical waste (according to the Medical Waste Management Act) is being provided with this report for clarification.

QUESTIONS and/or CORRESPONDENCE REGARDING THIS REPORT SHOULD BE DIRECTED TO
JESSICA PEARSON, ENVIRONMENTAL HEALTH SPECIALIST,
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
PHONE (858) 495-5872
FAX (858) 694-3705

Signature of Business Representative	Date Signed	Title of Business Representative
L Redemen	1/25/08	Crim III

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PERMIT#: 11426

DATE: 01 / 24 / 08

PAGE: 4 OF 6

BUSINESS ADDRESS: 5255 Mt Etna Drive ZIP: 92117

VIOLATION REPORT: The items checked below refer to specific section numbers of Title 23 of the California Code of Regulations (CCR), Chapters 6.7, of the Health & Safety Code (HSC) & the County Code of Regulatory Ordinances (SDCC). The following code sections checked are in violation (V) with the Underground Storage Tank laws and regulations. All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

GENERAL UNDERGROUND STORAGE TANK (UST) REQUIREMENTS

VIOLATION DESCRIPTION				VIOLATION DESCRIPTION			
Viol # NOV	UST SYSTEM RECORDS	VIOL	V	Viol # NOV	FILE RECORDS	VIOL	V
	Current UPF permit not obtained/not available. 25284; 68.905, 68.1003, 68.1005	3101			Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e) ✓	3114	
1	Current Operating Permit not available at facility. 25284(a), 25286(a); 2712 (i); 68.1003	3102	✓		Secondary containment testing not completed (passed) for all components &/or repairs to secondary containment components not completed. 25284.1, 25291(a)(2); 2637	3115	
	All permit operating conditions not met. 25284; 2712	3158			All releases not recorded and/or reported. 25294, 25295; 2650, 2651, 2652	3151	
	UST repair/modify/closure permit not obtained. 68.1004, 68.1005, 68.1009.5	3103			All maintenance/monitoring/calibration/ repair records not available. 25293; 2712 (b)	3152	
	CUPA UST form(s) A &/or B not available/completed/ submitted to HMD. 25286(a); 2711 ✓ submit in 30	3104			Monitoring Cert. not submitted to CUPA w/i 30 days. 2638(d)	3161	✓
	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809 · R 1/26/09	3105		2	Facility employee(s) not trained; records incomplete/not onsite. 2715(f)	3193	✓
	Owner/operator agreement not available/ completed/submitted to HMD. 25284(a)(3); 2620(b)	3106			Enhanced leak detection not performed as required. 25292.4; 2640(e)	3154	
	Monitoring procedures not available/completed/ submitted to HMD.2632(b)& (d), 2634(d), 2641(h), 2711(a)(9) ✓	3107			Contractor &/or technician not trained & certified as required. 25284.1(a)(5)(D); 2715	3162	
	Emergency Response Plan is not available/complete. 25289(b); 2632(b), 2634(e), 2641(h) ✓	3108			Contractor did not have required license, i.e., Class A, C-10, C34, C36 and/or C61. 25284.1(a)(5)(D); 2715 ✓	3163	
	Scaled Plot plan showing tank, piping & equipment location not available/complete/submitted to HMD. 2711(a)(8), 2632(d)(1)(C) Remind	3109			Monitoring system disabled or tampered with and/or monitoring records falsified. 25299(f)	3157	
	Annual certification for ATG and/or sensors not completed (existing tank systems only). 2641(j), 2638	3110			All monitoring equipment not installed, calibrated, operated, and/or maintained per manufacturer's instructions. 2638(a), 2641(j)	3164	
	Annual certification for continuous monitoring system not completed (new tanks). 25284.1(a)(4)(C); 2630(d), 2638	3116			UST system repair(s) not completed properly. 25292.1(c); 2660 (a)(k)(l)(m)	3160	
	Designated Operator (DO) Notification/Change form not submitted &/or DO not ICC certified. 2715 (a)(b) ✓	3191			Designated Operator monthly inspection not conducted, incomplete or DO inspection reports not onsite.2715 (c)(d)(e) ✓	3192	

UST SYSTEM INSPECTION

Requirements applicable for both, single & double walled systems

		TANK #					
		PRODUCT					
#	VIOLATION DESCRIPTION	NOV	VIOL	V	V	V	V
	Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)		3251				
	All audible and/or visual alarms not functioning properly. 2632(c)(2)(B), 2636(f)(1)		3252				
	Sticker/tag not affixed to monitoring equipment at certification. 2638(f)		3270				
	UST system does not have an approved overfill protection system. 2635(b)(2)		3254				
	Spill container is not in good condition and/or liquid free. 2635 (b)(1), 2636(a)(1)		3255				
	Fill box drain not functional and backup system is not available. 2635(b)(1)(C)		3256				
	Secondary containment system components not liquid free. 2631(d)(4)		3257				
	Sensors not placed adequately and/or at low point in sumps. 2641(a), 25291(a)(7)(C)		3258				
	Dispenser containment currently required and not present. 25284.1(a)(5); 2636(g)		3259				
	Dispenser containment not adequately monitored. 2636(f)(1) or (f)(5)(A)		3267				
	Dispenser containment not maintained free of liquid. 2631(d)(4)		3261				
	Secondary containment piping obstructed preventing drainage to sump. 2632		3262				
	Monitoring system components &/or devices are not all functional. 2630, 2641(j), 2632		3263				
	Spill containment not tested annually. 25284.2		3264				
	UST system not operated to prevent spills and/or overfills. 25292.1 (a)		3265				
	UST system not product tight (for tank installs on or after 7/1/03). 25290.1(c), 25290.2 (c)		3268				
	UST system not continuously monitored using Vacuum/Pressure/Hydrostatic (VPH) system (for tank installs on or after 7/1/04). 25290.1 (d)&(e)		3269				
CATHODIC PROTECTION							
	System not checked as required by tester (at 6 months/3yrs). 2635(a)(2)(A)		3301				
	Impressed-current system not checked every 60 days. 2635(a)(2)(A)		3302				
	Corrosion protection not adequate. 25292.1(b); 2635(a)(2), 2662(c)		3303				
CLOSURE REQUIREMENTS							
	Temporary closure requirements not completed. 25298, 2671		3322				
	Unused tank not properly closed. Permanent closure requirements not met. 25298, 2672		3324				

Signature of Business Representative

1/25-08
Date Signed

Owner
Title of Business Representative

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT
Small and Large Quantity Generators of Hazardous Waste Handlers of Hazardous Materials

PERMIT # 114261
DATE 1/24/08
PAGE 5 OF 6

BUSINESS ADDRESS: 5255 Mt Etna Drive **ZIP:** 92117

VIOLATION REPORT: The items checked below refer to specific section numbers of Titles 19 & 22 of the California Code of Regulations (CCR), Chapters 6.5 & 6.95 of the Health and Safety Code, and/or the San Diego County Code (SDCC). Small Quantity Hazardous Waste Generator=(SQG); Large Hazardous Waste Quantity Generator=(LQG); Code 40 of Federal Regulations=(CFR).
All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form (HM-926) to document your return to compliance. Your Specialist can provide this form. Please call (619) 338-2222 or your Specialist if you have any questions.

HAZARDOUS MATERIALS REQUIREMENTS

Viol #	V		VIOLATION DESCRIPTION
	☐	1001	UPF permit not obtained for hazardous materials. 68.905
	☐	1002	HMBP not established/implemented. 25503.5(a)
	☐	1004	HMBP not submitted to HMD. 25505(a)
	☐	1005	Emergency contact not provided or current. 25509(a)(7)
	☐	1007	Highly toxic gas (TLV≤10 ppm) not disclosed.68.1113(b)
	☐	1008	Annual carcinogen/reproductive toxin list not sent to HMD. 68.1113(c)
	☐	1009	Site map is not sufficient or complete. 25509(a)(5) & 25505(a)(2)
	☐	1010	Did not report release or threatened release. 25507(a), CCR 2703
	☐	1013	Copy of HMBP not onsite for inspector's review. 25505(e)
3	☑	1014	HMBP is incomplete/inadequate/not amended to reflect changes 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
	☐	1015	Did not have adequate employee training program 2732 &/or 25504 (c)
	☐	1016	Failure to have an adequate emergency response plan 25504 (b); 2731
	☐	1017	Business Plan not certified annually. 25505(d) & (e)(2)
	☐	1018	Inventory not amended for 100% increase of hazardous material onsite or inventory is incomplete. 25509, 25510

HAZWASTE REQUIREMENTS FOR LQGs & SQGs

RECORDKEEPING

	☐	0131	Unified Program Facility (UPF) permit not obtained. SDCC 68.905
	☐	0132	Failed to obtain & maintain a valid EPA ID Number. 66262.12(a)
	☐	0133	Failed to send manifest copy to DTSC. 66262.23(a)(4)
	☐	0134	Failed to file Exception Report with DTSC. 66262.42
	☐	0135	Failed to keep waste manifests/receipts for 3 years available for inspection. 66262.40(a) & 25160.2(b)(3)
	☐	0136	Did not have records of battery disposal. 66266.81(a)(4)(B)
	☐	0137	Failed to complete manifest properly. 66262.23(a)
	☐	0138	Failed to have TSDF copy of manifest onsite. 66262.40(a)
	☐	0140	Failed to have LDR documentation onsite. 66268.7(a)(8)
	☐	0141	Failed to obtain approval for TSDF. 25201(a)
	☐	0142	Failed to notify CUPA for eligible onsite treatment. 25201(a)
	☐	0145	ERM reporting not submitted biennially &/or available. 25143.10
	☐	0146	Failed to have adequate records demonstrating claim of exemption for Excluded Recyclable Material (ERM). 25143.2(f) & 66261.2(g)
	☐	0147	Failed to keep universal waste record for 3 years for offsite shipment. SQH:66273.19(b)&(c)(2); LQH:66273.39(b)&(c)(2)
	☐	0148	Failed to keep copies of analytical results, waste analysis records, or waste determination results. (3 years) 66262.40(c)
	☐	0149	Failed to keep disposal receipts (3 years) for drained used oil filters and/or drained fuel filters. 25250.22 and 66266.130(c)(5)

DISPOSAL AND TRANSPORTATION

	☐	0301	Unauthorized disposal of hazardous waste. 25189.5(a) or 25189(d)
	☐	0302	Unlawful transportation of hazardous waste (HW). 25163(a)
	☐	0303	Did not use HW manifest for disposal.66262.20(a), 25160.2(b)9
	☐	0304	Failed to make a proper waste determination. 66262.11 & 66260.200(c)
	☐	0305	Disposed of used oil illegally. 25250.5(a) and 25189.5(a)
	☐	0306	Disposed of latex paint illegally. 25217.1
	☐	0307	Disposal of universal waste to an unauthorized point. 25189.5(a); SQH:66273.11(a); LQH 66273.31(a)
	☐	0308	Impermissible dilution of hazardous waste. 66268.3(a)

HAZWASTE REQUIREMENTS FOR LQGs & SQGs

Viol #	V		VIOLATION DESCRIPTION
			STORAGE AND HANDLING
	☐	0216	Failed to label hazardous materials within 10 days or less. 25124(b)(3)(A) & 66262.34(f)
	☐	0217	Failed to repackage damaged/deteriorated hazardous material container within 96 hours. 25124(b)(3)(B) & 66262.34(f)
	☐	0218	Failed to label &/or close drained ☐used oil filters &/or ☐ used fuel filters. 25250.22 and 66266.130(c)(3)
	☐	0219	Failed to properly segregate used oil &/or fuel drained from filters. 66266.130(c)(6) or 25250.22(b)(4)
	☐	0220	Spent lead acid batteries not properly managed. 66266.81
	☐	0221	Failed to comply with satellite regulations. 66262.34(e)
	☐	0222	Failed to properly label ERM. 25143.9(a)
	☐	0223	Failed to properly manage non-empty container or inner liner removed from a container. 66261.7 (b), (d) &/or (r)
	☐	0224	Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).

HAZWASTE REQUIREMENTS FOR SQGs ONLY

STORAGE AND HANDLING-Pursuant to 66262.34(d)

4	☑	0225	Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(e) & (f), &/or 25201(a) [>90 days for an AHW waste]
	☐	0226	Did not accumulate waste in container or tank. 66262.34 (d)(2)
5	☑	0227	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
	☐	0228	Failed to keep container closed. CFR 265.173
	☐	0229	Failed to conduct weekly inspections. CFR 265.174
	☐	0230	Failed to maintain aisle space. CFR 265.35
	☐	0231	Failed to properly separate incompatible wastes. CFR 265.177
	☐	0232	Waste accumulated in a container in poor condition. CFR 265.171
	☐	0233	Failed to use a lined/compatible container. CFR 265.172.
	☐	0234	Did not maintain &/or operate facility to prevent release or fire. CFR 265.31

TRAINING, CONTINGENCY PLAN & ER PROCEDURES Pursuant to 66262.34(d)(2)

	☐	0407	Employee training program not adequate. CFR 262.34(d)(5)(iii)
	☐	0408	Failed to post ER plan by phone. CFR 262.34(d)(5)(ii)
	☐	0409	Spill/fire control equip not available. CFR 265.32(c)
	☐	0410	Failed to equip facility with internal communication or alarm. CFR 265.32(a) & (b)
	☐	0411	Failed to carry out contingency plan during an emergency. CFR 262.34(d)(5)(iv)
	☐	0412	Failed to have an emergency coordinator on call or available during emergency. CFR 262.34(d)(5)(i)

HAZARDOUS WASTE TANK SYSTEMS Pursuant to 66262.34(d)(2)

	☐	1612	Hazardous waste improperly stored in a tank system that ☐leaks, ☐ is corroded, or ☐failing. CFR 265.201(b)(2)
	☐	1613	Failed to comply with tank standards which include: two feet of freeboard (where applicable), shut off for waste feed line, & daily and weekly inspections. CFR 265.201(b) & (c)
	☐	1614	Failed to properly complete &/or document closure for a hazardous waste tank. CFR 265.201(d) & 67383.3
	☐	1615	Failed to safely accumulate ignitable or reactive waste in a tank. CFR 265.201(e)
	☐	1616	Failed to safely manage incompatible waste in a tank. CFR 265.201(f)

J. Weideman — SIGNATURE OF BUSINESS REPRESENTATIVE
1/25/08 — DATE SIGNED
Owner — TITLE OF BUSINESS REPRESENTATIVE

COUNTY OF SAN DIEGO

MEDICAL WASTE REQUIREMENTS COMPLIANCE INSPECTION REPORT

PERMIT # 114261
DATE 01/24/08
PAGE 6 OF 6

BUSINESS ADDRESS: 5255 Mt Etna Drive ZIP: 92117

VIOLATION REPORT: *The items checked below refer to specific section numbers of the California Health and Safety Code Sections 25100 and 117600 et. al.; the San Diego County Code of Regulatory Ordinances Sections 68.1201 et. al.; and the California Code of Regulations, Title 22 Sections 65600 et. al.*

All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

STORAGE AND LABELING

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V4201	UPF Permit not obtained. 117705, 68.905
	☐	V4202	Medical Waste (**MW**) not separated from other waste at point of origin. 118275
	☐	V4203	Enclosure or designated accumulation area for **MW** containers not secured. 118307, 118310
	☐	V4204	**MW** designated accumulation area not posted with an approved and legible biohazardous waste "warning sign" in English and Spanish. 118310
	☐	V4205	Medical SOLID WASTE not secured to deny access to unauthorized persons. 68.1211
	☐	V4206	Spill of **MW** not properly cleaned up. 118300
	☐	V4207	Sharps not stored in approved and properly marked sharps container. 118285(a)(d)
	☐	V4208	Full sharps container not taped closed or tightly-lidded to preclude loss of contents. 118285(b)
	☐	V4209	Red bags/sharps container not labeled with generator's name, address, and phone number. 68.1205, 68.1206
	☐	V4210	**MW** not stored in approved and properly marked red bags. 118275
	☐	V4211	Red bags not tied off to prevent leakage/expulsion of contents during handling and storage. 118280(a)
	☐	V4212	Red bags not containerized in rigid, leak resistant, and covered containers or bins. 118280(b)
	☐	V4213	Waste container/bin not labeled on the lid and side so as to be clearly visible. 118280(b)
	☐	V4214	Reusable containers/bins for **MW** storage not kept clean/sanitary. 118295, 118305
	☐	V4215	Frozen (0C/32 F) **MW** stored >90 days. 118280(d)(2)
	☐	V4306	Full sharps container stored >30 days at >0°C. 118285(c)
	☐	V4307	Red bag waste stored >7 days at >0°C (for generators of >20lbs/month). 118280(d)(1)(A)
	☐	V4308	Red bag waste stored >30 days at >0°C (for generators of <20lbs/month). 118280(d)(1)(B)
	☐	V4309	**MW** interim storage area not marked with warning sign or a biohazard symbol legible from 5 ft. 118307, 118310
	☐	V4310	**MW** Interim storage area not properly secured. 118307

TREATMENT AND DISPOSAL

	☐	V4251	**MW** treated by unapproved method/procedure. 118215
	☐	V4252	Standardized written operating procedures for steam sterilization not available. 118215(2)(A)
	☐	V4253	Recording thermometer not calibrated annually. 118215(2)(B)
	☐	V4254	No records of annual thermometer calibration checks onsite for at least the past 3 years. 118215(2)(B)
	☐	V4255	Heat-sensitive tape/other approved method not used for each load treated onsite. 118215(2)(C)
	☐	V4256	Monthly biological indicator or other approved method not used to confirm proper disinfection. 118215(2)(D)
	☐	V4257	Onsite steam sterilization did not reach 121°C/250 °F for 30 minutes. 118215(2)(B)
	☐	V4258	Treatment records/logs of dates, time and temperature not available for 3 yrs. 118215(2)(E)
	☐	V4259	Disposal of untreated **MW** to an unauthorized point. 118340

TRANSPORTATION REQUIREMENTS

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V4260	Transportation of **MW** without State Hauler Registration or a (LQHE) from HMD. 118025
	☐	V4304	No LQHE for "self-hauled" **MW** (<20 pounds of waste/wk). 118025, 118030(a)(1)
	☐	V4305	LQHE not renewed annually as required. 118030(b)
	☐	V4311	Medical Waste tracking documents not in vehicle transporting MW. 118040(c)
	☐	V4312	MW tracking documents/logs not maintained for 3 years for LQHE. 118040(a)

SMALL QTY. GENERATORS ONLY (<200 lbs/mo) MW)

	☐	V4301	Medical Waste Mgmt. Plan (MWMP) not submitted to HMD (initial/updates if onsite treatment). 117935
	☐	V4302	Did not maintain and show proof of "onsite" medical waste treatment records for 3 yrs. 117943, 118215(2)(E)
	☐	V4303	Did not retain on file disposal receipts/tracking documents for waste shipped offsite for 2 yrs. 117945(b)
	☐	V4309	MWMP or equivalent information not onsite. 117945

REQUIREMENTS FOR LARGE QUANTITY GENERATORS ONLY

(≥ 200 pounds of waste generated per month)

6	☑	V4351	**MWMP** not submitted to HMD (initial/updates). 117960, 117970 ✓
	☐	V4352	Records of **MW** treatment not available for 3 years. 117975, 118215(2)(E)
	☐	V4353	Did not retain on file disposal receipts/tracking documents for at least 3yrs. for waste shipped offsite. 117975

PATHOLOGY, CHEMOTHERAPY, PHARMAC. & HAZ. WASTE

	☐	V4401	Chemo waste not segregated from other **MW**. 118275(e)
	☐	V4402	Chemo waste container not properly labeled. 118275(e)
	☐	V4403	Illegal disposal of chemo waste. 118340
	☐	V4411	Pathology waste not segregated from other **MW**. 118275(f)
	☐	V4412	Pathology waste container not properly labeled. 118275(f)
	☐	V4413	Illegal disposal of pathology waste. 118340
	☐	V4421	Pharmwaste not segregated from other **MW**. 118275(g)
	☐	V4422	Pharmwaste not properly labeled. 118275(g)
	☐	V4423	Pharmwaste stored >90 days when container full, or stored longer than one year (max. allowable time). 118280(e)
	☐	V4432	Illegal disposal of pharmwaste. 118340, 118222(b)
	☐	V4441	Illegal disposal of photo/hazwaste to sewer/trash. 25189.5

ONSITE MW TREATMENT FACILITY REQUIREMENTS

	☐	V4501	Onsite **MW** treatment permit not obtained/renewed. 117950, 118130, 118135, 65620, 65623
	☐	V4502	Current copy of the **MW** treatment permit not available. 65621(f), 65623, 118165, 118180
	☐	V4503	Condition(s) of the **MW** treatmt. permit violated. 65623

SIGNATURE OF BUSINESS REPRESENTATIVE — DATE SIGNED: 1/25/08 — TITLE OF BUSINESS REPRESENTATIVE: Mgr III

DEH:HM-9255 (7/07) NCR

DISTRIBUTION: WHITE-RETURN TO HMD: YELLOW-BUSINESS RETAINS

GARY W. ERBECK
DIRECTOR

County of San Diego

JACK MILLER
ASSISTANT DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (619) 338-2222 FAX: (619) 338-2377
1 (800) 253-9933
http://www.sdcdeh.org

July 11, 2008

Environmental Coordinator 114261
SD CNTY SHERIFF CRIME LAB
5255 MT ETNA DR
SAN DIEGO, CA 92117-

RE: Underground Tank Facility
5255 MT ETNA DR, SAN DIEGO, 92117-6912

The Hazardous Materials Division (HMD) of the Department of Environmental Health is the Certified Unified Program Agency (CUPA) in the County of San Diego. The HMD, as the CUPA, regulates the construction, installation, operation, repair and removal of underground storage tank (UST) systems. Recent changes in state regulations require owners and operators of UST systems to submit the new Unified Program Consolidated Forms developed by the State Water Resources Control Board. Completed forms must be submitted to the CUPA at the address above by August 31, 2008.

The changes to the UST regulations which went into effect on January 17, 2008, require UST owners and operators to use the new standardized forms to submit all required (current and new) registration information. All UST owners and operators must provide the CUPA with tank and facility information (including Monitoring Plan, Emergency Plan and Plot Plan*) on the new forms. The forms (listed below) are available in interactive format at www.sdcounty.ca.gov/hazmat/hmd_forms.html. Failure to submit these new forms will result in non-renewal of the UST Operating Permit. To prevent any delay to the renewal of your UST Operating Permit, submit these forms immediately. Copies of the completed forms must be maintained at the UST facility. If you manage more than one facility, a complete set of forms is required for each facility.

The new standardized forms will promote consistency in record keeping which will benefit HMD and UST owners and operators. If you have recently submitted the information on the new forms, please disregard this advisory.

If you have any questions about the information contained in this bulletin, please contact the Hazardous Materials Division Duty Specialist at (619) 338-2231.

Sincerely,

J. M. VIZZIER, Chief
Hazardous Materials Division

JMV/lms

Enclosures: UST Facility Page (HM-9715)
UST Tank Information Page (HM-9717)
UST Monitoring Plan (HM-9222A)
UST Emergency Plan (HM-9222B)
UST Plot Plan (HM-9222C)*

(*If you already have a diagram (Plot Plan) that shows the required information, include it with this submission.)

Send to file #114261. JP

Permit #: 114261 **Date: 2/19/2008**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: San Diego Sheriff's Crime Laboratory

Business Address: 5255 Mount Etna Drive, San Diego, CA 92117-6912

Business Owner or Operator: San Diego Sheriff's Department

Please complete the following by entering the chemical name in the chemical name column and then place a check ✓ in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check ✓ in the <1-gallon column.
(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Acetaldehyde	☒	☐	☐	☐	☐	☐	☐
Alprazolam	☐	☒	☐	☐	☐	☐	☐
Anabolic steroids	☐	☒	☐	☐	☐	☐	☐
Aniline	☒	☐	☐	☐	☐	☐	☐
Barbiturates	☐	☒	☐	☐	☐	☐	☐
Benzene	☒	☐	☐	☐	☐	☐	☐
Benzidine-based dyes	☐	☒	☐	☐	☐	☐	☐
Benzodiazepines	☐	☒	☐	☐	☐	☐	☐
Benphetamine	☐	☒	☐	☐	☐	☐	☐
Bromoform	☒	☐	☐	☐	☐	☐	☐
Carbamazepine	☐	☒	☐	☐	☐	☐	☐
Carbon disulphide	☐	☐	☒	☐	☐	☐	☐
Carbon tetrachloride	☒	☐	☐	☐	☐	☐	☐
Chlordiazepoxide HCl	☐	☒	☐	☐	☐	☐	☐
Chloroform	☐	☐	☒	☐	☐	☐	☐
Cocaine	☐	☒	☐	☐	☐	☐	☐
Cyclohexane	☒	☐	☐	☐	☐	☐	☐
Diazepam	☐	☒	☐	☐	☐	☐	☐
1,2-Dichloroethane	☐	☐	☐	☒	☐	☐	☐
Dichloromethane	☐	☐	☒	☐	☐	☐	☐
3,3'-Dimethoxybenzidine	☐	☒	☐	☐	☐	☐	☐

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(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lbs.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Diphenylhydantoin	☐	☒	☐	☐	☐	☐	☐
Formaldehyde	☐	☐	☒	☐	☐	☐	☐
Halazepam	☐	☒	☐	☐	☐	☐	☐
Lead	☐	☐	☐	☒	☐	☐	☐
Lead compounds	☐	☒	☐	☐	☐	☐	☐
Lorazepam	☐	☒	☐	☐	☐	☐	☐
Mercury and mercury compounds	☐	☐	☐	☒	☐	☐	☐
Methyltestosterone	☐	☒	☐	☐	☐	☐	☐
Nicotine	☐	☒	☐	☐	☐	☐	☐
Oxazepam	☐	☒	☐	☐	☐	☐	☐
Oxymetholone	☐	☒	☐	☐	☐	☐	☐
Pentobarbital sodium	☐	☒	☐	☐	☐	☐	☐
Phenacetin	☐	☒	☐	☐	☐	☐	☐
Phenobarbital	☐	☒	☐	☐	☐	☐	☐
Phenolphthalein	☒	☐	☐	☐	☐	☐	☐
Phenolphthalein	☐	☒	☐	☐	☐	☐	☐
Primidone	☐	☒	☐	☐	☐	☐	☐
Pyridine	☒	☐	☐	☐	☐	☐	☐
Secobarbital	☐	☒	☐	☐	☐	☐	☐
Stanozolol	☐	☒	☐	☐	☐	☐	☐
Temazepam	☐	☒	☐	☐	☐	☐	☐

Permit #: 114261 **Date: 2/19/2008**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
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(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal	<1 lb	<10 gal	<10 lbs	<55 gal	<500 lbs	Trade Secret
Testosterone and its esters	☐	☒	☐	☐	☐	☐	☐
Testosterone enanthate	☐	☒	☐	☐	☐	☐	☐
Toluene	☐	☐	☒	☐	☐	☐	☐
Trichloroethylene	☒	☐	☐	☐	☐	☐	☐
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ENTERED SEP 16 2008

Scan to file # 114261. JP

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK

OPERATING PERMIT APPLICATION – FACILITY PAGE

(One page per site) Page of

TYPE OF ACTION (Check one item only) 400
☐ 1. NEW PERMIT ☒ 3. RENEWAL PERMIT ☐ 5. CHANGE OF INFORMATION ☐ 6. TEMPORARY FACILITY CLOSURE ☐ 7. PERMANENT FACILITY CLOSURE ☐ 9. TRANSFER PERMIT

I. FACILITY INFORMATION

TOTAL NUMBER OF USTs AT FACILITY 404	FACILITY ID # 1
1	37-000-114261

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
County of San Diego Sheriff Crime Lab

BUSINESS SITE ADDRESS 103	CITY 104		ZIP CODE 105
5255 Mt. Etna Drive	San Diego	CA	92117-

FACILITY TYPE 403: ☐ 1. MOTOR VEHICLE FUELING ☐ 2. FUEL DISTRIBUTION ☐ 3. FARM ☐ 4. PROCESSOR ☒ 6. OTHER

Is the facility located on Indian Reservation or Trust lands? 405 ☐ Yes ☒ No

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME 407	PHONE 408
County of San Diego, Dept. of G.S.	(858) 565-5255 x

MAILING ADDRESS 409
5555 Overland Ave. Suite 2207

CITY 410	STATE 411	ZIP CODE 412
San Diego	CA	92123-

III. TANK OPERATOR INFORMATION

TANK OPERATOR NAME 428-1	PHONE 428-2
County of San Diego, Dept. of G.S.	(858) 565-5255

MAILING ADDRESS 428-3
5555 Overland Ave. Suite 2207

CITY 428-4	STATE 428-5	ZIP CODE 428-6
San Diego	CA	

IV. TANK OWNER INFORMATION

TANK OWNER NAME 414	PHONE 415
County of San Diego, Dept. of G.S.	(858) 565-5255 x

MAILING ADDRESS 416
5555 Overland Ave. Suite 2207

CITY 417	STATE 418	ZIP CODE 419
San Diego	CA	

OWNER TYPE: 420
☐ 4. LOCAL AGENCY/DISTRICT ☒ 5. COUNTY AGENCY ☐ 6. STATE AGENCY ☐ 7. FEDERAL AGENCY ☐ 8. NON-GOVERNMENT

V. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44- 022185 Call the State Board of Equalization, Fuel Tax Division, if there are questions. 421

VI. PERMIT HOLDER INFORMATION

Issue permit and send legal notifications and mailings to: 423
☐ 1. FACILITY OWNER ☐ 4. TANK OPERATOR ☒ 3. TANK OWNER ☐ 5. FACILITY OPERATOR

SUPERVISOR OF DIVISION, SECTION, OR OFFICE (Required For Public Agencies Only) Michael Urquhart, Chief of Operatio 406

VII. APPLICANT SIGNATURE

CERTIFICATION: I certify that the information provided herein is true, accurate, and in full compliance with legal requirements.

APPLICANT SIGNATURE	DATE 424	PHONE 425
KM Johnson	4-10-08	(858) 694-3615 x

APPLICANT NAME (print) 426	APPLICANT TITLE 427
Kenneth M. Johnson	Senior Plumber/ DSO

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION

P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK
OPERATING PERMIT APPLICATION – TANK INFORMATION

(One form per UST)

TYPE OF ACTION (Check one item only. For an UST permanent closure or removal, complete only this section and Sections I, II, III, IV, and IX below) 430

☐ 1. NEW PERMIT ☒ 3. RENEWAL PERMIT ☐ 5. CHANGE OF INFORMATION
☐ 6. TEMPORARY UST CLOSURE ☐ 7. UST PERMANENT CLOSURE ON SITE ☐ 8. UST REMOVAL

DATE UST PERMANENTLY CLOSED: 430a | DATE EXISTING UST DISCOVERED: 430b

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3: County of San Diego, Sheriff Crime Lab

FACILITY ID # 1: 37-000-114261

BUSINESS SITE ADDRESS 103: 5255 Mt. Etna Drive

CITY 104: San Diego

CA

ZIP CODE 105: 92117-

II. TANK DESCRIPTION

TANK ID # 432: 001

TANK MANUFACTURER 433: Modern Welding

TANK CONFIGURATION: THIS TANK IS 434
☒ 1. A STAND-ALONE TANK ☐ 2. ONE IN A COMPARTMENTED UNIT.
Complete one page for each compartment in the unit

DATE UST SYSTEM INSTALLED 435: unknown

TANK CAPACITY IN GALLONS 436: 6,000

NUMBER OF COMPARTMENTS IN THE UNIT 437: 1

III. TANK USE AND CONTENTS

TANK USE 439
☐ 1a. MOTOR VEHICLE FUELING ☐ 1b. MARINA FUELING ☐ 1c. AVIATION FUELING
☐ 3. CHEMICAL PRODUCT STORAGE ☐ 4. HAZARDOUS WASTE (Includes Used Oil) ☒ 5. EMERGENCY GENERATOR FUEL [HSC §25281 5(c)]
☐ 6. OTHER GENERATOR FUEL ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 439a

CONTENTS PETROLEUM: 440
☐ 1a. REGULAR UNLEADED ☐ 1c. MIDGRADE UNLEADED ☐ 1b. PREMIUM UNLEADED
☒ 3. DIESEL ☐ 5. JET FUEL ☐ 6. AVIATION GAS
☐ 8. PETROLEUM BLEND FUEL ☐ 9. OTHER PETROLEUM (Specify): 440a

NON-PETROLEUM:
☐ 7. USED OIL ☐ 10. ETHANOL
☐ 11. OTHER NON-PETROLEUM (Specify): 440b

IV. TANK CONSTRUCTION

TYPE OF TANK 443
☐ 1. SINGLE WALL ☒ 2. DOUBLE WALL ☐ 95. UNKNOWN

PRIMARY CONTAINMENT 444
☐ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. INTERNAL BLADDER
☐ 7. STEEL + INTERNAL LINING ☐ 95. UNKNOWN ☒ 99. OTHER (Specify): steelclad w/frp 444a

SECONDARY CONTAINMENT 445
☒ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. EXTERIOR MEMBRANE LINER ☐ 7. JACKETED
☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 445a

OVERFILL PREVENTION 452
☒ 1. AUDIBLE & VISUAL ALARMS ☒ 2. BALL FLOAT ☐ 3. FILL TUBE SHUT-OFF VALVE
☐ 4. TANK MEETS REQUIREMENTS FOR EXEMPTION FROM OVERFILL PREVENTION EQUIPMENT

V. PRODUCT / WASTE PIPING CONSTRUCTION

PIPING CONSTRUCTION 460
☐ 1. SINGLE-WALLED ☒ 2. DOUBLE-WALLED ☐ 99. OTHER

SYSTEM TYPE 458
☐ 1. PRESSURE ☐ 2. GRAVITY ☒ 3. CONVENTIONAL SUCTION ☐ 4. SAFE SUCTION [23 CCR §2636(a)(3)]

PRIMARY CONTAINMENT 464
☐ 1. STEEL ☐ 4. FIBERGLASS ☒ 8. FLEXIBLE ☐ 10. RIGID PLASTIC
☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464a

SECONDARY CONTAINMENT 464b
☐ 1. STEEL ☐ 4. FIBERGLASS ☒ 8. FLEXIBLE ☐ 10. RIGID PLASTIC
☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464c

PIPING/TURBINE CONTAINMENT SUMP TYPE 464d
☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE

VI. VENT, VAPOR RECOVERY (VR) AND RISER / FILL PIPE PIPING CONSTRUCTION

VENT PRIMARY CONTAINMENT 464e / 464e1
☒ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify)

VENT SECONDARY CONTAINMENT 464f / 464f1
☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90. NONE ☐ 99. OTHER (Specify)

VR PRIMARY CONTAINMENT 464g / 464g1
☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90. NONE ☐ 99. OTHER (Specify)

VR SECONDARY CONTAINMENT 464h / 464h1
☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90 NONE ☐ 99. OTHER (Specify)

VENT PIPING TRANSITION SUMP TYPE 464i
☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE

RISER PRIMARY CONTAINMENT 464j / 464j1
☒ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify)

RISER SECONDARY CONTAINMENT 464k / 464k1
☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90. NONE ☐ 99. OTHER (Specify)

FILL COMPONENTS INSTALLED 451a-c
☒ 1. SPILL BUCKET ☒ 3. STRIKER PLATE/BOTTOM PROTECTOR ☐ 4. CONTAINMENT SUMP

VII. UNDER DISPENSER CONTAINMENT (UDC)

CONSTRUCTION TYPE 469a
☐ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☒ 3. NO DISPENSERS ☐ 90. NONE

CONSTRUCTION MATERIAL 469b-c
☒ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 99. OTHER (Specify)

VIII. CORROSION PROTECTION

STEEL COMPONENT PROTECTION 448
☐ 2. SACRIFICIAL ANODE(S) ☐ 4. IMPRESSED CURRENT ☐ 6. ISOLATION

IX. APPLICANT SIGNATURE

CERTIFICATION: I certify that this UST system is compatible with the hazardous substance stored and that the information provided herein is true, accurate, and in full compliance with legal requirements.

APPLICANT SIGNATURE: Kenneth M. Johnson | DATE 470: 4/14/2008

APPLICANT NAME (print) 471: Kenneth M. Johnson | APPLICANT TITLE 472: Senior Plumber / Dso

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
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1-800-253-9933

UNDERGROUND STORAGE TANK
MONITORING PLAN (Page 1 of 2)

TYPE OF ACTION ☒ 1. NEW PLAN ☐ 2. CHANGE OF INFORMATION 490-1

PLAN TYPE (Check one item only) ☐ 1. MONITORING IS IDENTICAL FOR ALL USTs AT THIS FACILITY. ☒ 2. THIS PLAN COVERS ONLY THE FOLLOWING UST SYSTEM(S)(specify). 490-2

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3: County of San Diego Sheriff Crime Lab

FACILITY ID # 1: 3 7 0 0 0 1 1 4 2 6 1

BUSINESS SITE ADDRESS 103: 5255 Mt. ETNA

CITY 104: San Diego

CA

ZIP CODE 105: 92117-

II. EQUIPMENT TESTING AND PREVENTIVE MAINTENANCE

Testing, preventive maintenance, and calibration of monitoring equipment (e.g., sensors, probes, line leak detectors, etc.) must be performed at the frequency specified by the equipment manufacturers' instructions, or annually, whichever is more frequent, and that such work must be performed by qualified personnel. (23 CCR §2632, 2634, 2638, 2641)

MONITORING EQUIPMENT IS SERVICED ☒ 1. ANNUALLY ☐ 99. OTHER (Specify): 490-3a 490-3b

III. MONITORING LOCATIONS

☒ 1. **NEW SITE PLOT PLAN/MAP SUBMITTED WITH THIS PLAN.** 490-4

☐ 2. **SITE PLOT PLAN/MAP PREVIOUSLY SUBMITTED. (23 CCR §2632, 2634)**

IV. TANK MONITORING IS PERFORMED USING THE FOLLOWING METHOD(S):

☒ 1. **CONTINUOUS ELECTRONIC TANK MONITORING OF ANNULAR (INTERSTITIAL) SPACE(S) OR SECONDARY CONTAINMENT VAULT(S) WITH AUDIBLE AND VISUAL ALARMS (23 CCR §2632, 2634)** 490-5

SECONDARY CONTAINMENT IS: ☒ a. DRY ☐ b. LIQUID FILLED ☐ c. PRESSURIZED ☐ d. UNDER VACUUM 490-6

PANEL MANUFACTURER: **Veeder Root** 490-7 | MODEL #: **TLS-300** 490-8

LEAK SENSOR MANUFACTURER: **Veeder Root** 490-9 | MODEL #(S): **794380-420** 490-10

☐ 2. **AUTOMATIC TANK GAUGING (ATG) SYSTEM USED TO MONITOR SINGLE WALL TANK(S) (23 CCR §2643)** 490-11

PANEL MANUFACTURER: 490-12 | MODEL #: 490-13

IN-TANK PROBE MANUFACTURER: 490-14 | MODEL #(S): 490-15

LEAK TEST FREQUENCY: ☐ a. CONTINUOUS ☐ b. DAILY/NIGHTLY ☐ c. WEEKLY 490-16
☐ d. MONTHLY ☐ e. OTHER (Specify): 490-17

PROGRAMMED TESTS: ☐ a. 0.1 g.p.h. ☐ b. 0.2 g.p.h. ☐ c. OTHER (Specify): 490-18 490-19

☐ 3. **MONTHLY STATISTICAL INVENTORY RECONCILIATION (23 CCR §2646.1)** 490-20

☐ 4. **WEEKLY MANUAL TANK GAUGING (MTG) (23 CCR §2645):** TESTING PERIOD: ☐ a. 36 HOURS ☐ b. 60 HOURS 490-21 490-22

☐ 5. **TANK INTEGRITY TESTING (23 CCR §2643.1):** 490-23
TEST FREQUENCY: ☐ a. ANNUALLY ☐ b. BIENNIALLY ☐ c. OTHER (Specify): 490-24, 490-25

☐ 99. **OTHER** (Specify): 490-26, 490-27

V. PIPE MONITORING IS PERFORMED USING THE FOLLOWING METHOD(S) (Check all that apply)

☒ 1. **CONTINUOUS MONITORING OF PIPE/ PIPING SUMP(S) AND OTHER SECONDARY CONTAINMENT WITH AUDIBLE AND VISUAL ALARMS (23 CCR §2636)** 490-28

SECONDARY CONTAINMENT IS: ☒ a. DRY ☐ b. LIQUID FILLED ☐ c. PRESSURIZED ☐ d. UNDER VACUUM 490-29

PANEL MANUFACTURER: **Veeder Root** 490-30 | MODEL #: **TLS-300** 490-31

LEAK SENSOR MANUFACTURER: **Veeder Root** 490-32 | MODEL #(S): **794390-208** 490-33

PIPING LEAK ALARM TRIGGERS AUTOMATIC PUMP (i.e., TURBINE) SHUTDOWN. ☐ a. YES ☐ b. NO 490-34

FAILURE/DISCONNECTION OF THE MONITORING SYSTEM TRIGGERS AUTOMATIC PUMP SHUTDOWN. ☐ a. YES ☐ b. NO 490-35

☐ 2. **MECHANICAL LINE LEAK DETECTOR (MLLD) THAT ROUTINELY PERFORMS 3.0 g.p.h. LEAK TESTS AND RESTRICTS OR SHUTS OFF PRODUCT FLOW WHEN A LEAK IS DETECTED (23 CCR §2636)** 490-36

MLLD MANUFACTURER(S): 490-37 | MODEL #(S): 490-38

☐ 3. **ELECTRONIC LINE LEAK DETECTOR (ELLD) THAT ROUTINELY PERFORMS 3.0 g.p.h. LEAK TESTS (23 CCR §2636)** 490-39

ELLD MANUFACTURER(S): 490-40 | MODEL #(S): 490-41

PROGRAMMED IN LINE LEAK TEST: ☐ 1. MINIMUM MONTHLY 0.2 g.p.h. ☐ 2. MINIMUM ANNUAL 0.1 g.p.h. 490-42

ELLD DETECTION OF A PIPING LEAK TRIGGERS AUTOMATIC PUMP (i.e., TURBINE) SHUTDOWN. ☐ a. YES ☐ b. NO 490-43

ELLD FAILURE/DISCONNECTION TRIGGERS AUTOMATIC PUMP (i.e., TURBINE) SHUTDOWN. ☐ a. YES ☐ b. NO 490-44

☐ 4. **PIPE INTEGRITY TESTING:** TEST FREQUENCY ☐ a. ANNUALLY ☐ b. EVERY 3 YEARS ☐ c. OTHER (Specify): 490-46, 490-47

☐ 5. **VISUAL PIPE MONITORING:** FREQUENCY ☐ a. DAILY ☐ b. WEEKLY ☐ c. MIN. MONTHLY & EACH TIME SYSTEM OPERATED* 490-48, 490-49
* Allowed for monitoring of unburied emergency generator fuel piping only per HSC §25281.5(b)(3)

☒ 6. **SUCTION PIPING MEETS EXEMPTION CRITERIA [23 CCR §2636(a)(3)]** 490-50

☐ 7. **NO REGULATED PIPING PER HEALTH AND SAFETY CODE, DIVISION 20, CHAPTER 6.7 IS CONNECTED TO THE TANK SYSTEM** 490-51

☐ 99. **OTHER** (Specify): 490-52, 490-53

COUNTY OF SAN DIEGO CUPA
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(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK
MONITORING PLAN (Page 2 of 2)

This plan has been reviewed and is:
☑ Approved ☐ Approved with conditions*
Date: 9/12/08
Specialist: (Local Agency Signature) *conditions on back

VI. UNDER DISPENSER CONTAINMENT (UDC) MONITORING

1. UDC MONITORING IS PERFORMED USING THE FOLLOWING METHOD: 490-54a 490-54b
☐ 1. CONTINUOUS ELECTRONIC MONITORING ☐ 2. FLOAT AND CHAIN ASSEMBLY ☐ 3. ELECTRONIC STAND-ALONE
☒ 4. NO DISPENSERS ☐ 99. OTHER (Specify):

PANEL MANUFACTURER:	490-55	MODEL #:	490-56
LEAK SENSOR MANUFACTURER:	490-57	MODEL #(S):	490-58

DETECTION OF A LEAK INTO THE UDC TRIGGERS AUDIBLE AND VISUAL ALARMS	☐ a. YES	☐ b. NO	490-59
UDC LEAK ALARM TRIGGERS AUTOMATIC PUMP SHUTDOWN	☐ a. YES	☐ b. NO	490-60
FAILURE / DISCONNECTION OF UDC MONITORING SYSTEM TRIGGERS AUTOMATIC PUMP SHUTDOWN	☐ a. YES	☐ b. NO	490-61
UDC MONITORING STOPS THE FLOW OF PRODUCT AT THE DISPENSER	☐ a. YES	☐ b. NO	490-62

2. UDC CONSTRUCTION IS ☐ 1. SINGLE-WALLED ☐ 2. DOUBLE-WALLED 490-63

IF DOUBLE WALLED: 490-64a
UDC INTERSTITIAL SPACE IS MONITORED BY: ☐ 1. LIQUID ☐ 2. PRESSURE ☐ 3. VACUUM
A LEAK WITHIN THE SECONDARY CONTAINMENT OF THE UDC TRIGGERS AUDIBLE AND VISUAL ALARMS ☐ a. YES ☐ b. NO 490-64b

VII. PERIODIC SYSTEM TESTING

☐ 1. **ELD TESTING**: THIS FACILITY HAS BEEN NOTIFIED BY THE STATE WATER RESOURCES CONTROL BOARD THAT ENHANCED LEAK DETECTION (ELD) MUST BE PERFORMED. PERIODIC ELD IS PERFORMED EVERY 36 MONTHS AS REQUIRED. (23 CCR §2644.1) 490-65
☒ 2. **SECONDARY CONTAINMENT COMPONENTS ARE TESTED EVERY 36 MONTHS.** 490-66
☒ 3. **SPILL BUCKETS ARE TESTED ANNUALLY.** 490-67

VIII. RECORDKEEPING

The following monitoring/maintenance records are kept for this facility:

☐ Alarm logs	490-68a	☒ Visual Inspection Records	490-68b
☐ Tank integrity testing results	490-68c	☐ SIR testing results (and supporting documentation records)	490-68d
☐ Tank gauging results (and supporting documentation records)	490-68e	☐ ATG Testing results (and supporting documentation records)	490-68f
☐ Corrosion Protection 60-day logs	490-68g	☒ Equipment maintenance and calibration records	490-68h

IX. TRAINING

☒ Personnel with UST monitoring responsibilities are familiar with all of the following documents relevant to their job duties. 490-69a

REFERENCE DOCUMENTS MAINTAINED AT FACILITY (Check all that apply)

☒ THIS UNDERGROUND STORAGE TANK MONITORING PLAN (Required) 490-69b
☒ OPERATING MANUALS FOR ELECTRONIC MONITORING EQUIPMENT (Required) 490-69c
☐ CALIFORNIA UNDERGROUND STORAGE TANK REGULATIONS 490-69d
☐ CALIFORNIA UNDERGROUND STORAGE TANK LAW 490-69e
☐ STATE WATER RESOURCES CONTROL BOARD (SWRCB) PUBLICATION: "HANDBOOK FOR TANK OWNERS - MANUAL AND STATISTICAL INVENTORY RECONCILIATION" 490-69f
☐ SWRCB PUBLICATION: "UNDERSTANDING AUTOMATIC TANK GAUGING SYSTEMS" 490-69g
☐ OTHER (Specify): 490-69h, 490-69i

☒ This facility has a "Designated UST Operator" who has passed the California UST System Operator Exam administered by the International Code Council (ICC). The "Designated UST Operator" will train facility employees in the proper operation and maintenance of the UST systems annually, and within 30 days of hire. This training will include, but is not limited to, the following: 490-70

- Operation of the UST systems in a manner consistent with the facility's best management practices
- The facility employee's role with regard to the monitoring equipment as specified in this UST Monitoring Plan
- The facility employee's role with regard to spills and overfills as specified in the UST Response Plan
- Names of contact person(s) for emergencies and monitoring alarms

X. COMMENTS/ADDITIONAL INFORMATION

Provide additional comments here or indicate how many pages with additional information on specific monitoring procedures are attached to this plan. 490-71

XI. PERSONNEL RESPONSIBILITIES

The UST Owner/Operator is responsible for ensuring that: 1) the daily/routine UST monitoring activities and maintenance of UST leak detection equipment covered by this plan occurs, 2) all conditions that indicate a possible release are investigated, and 3) all monitoring records are maintained properly.
The following person(s) are responsible for performing the monitoring and equipment maintenance:

NAME		TITLE	
NAME Mike Johnson	490-74	TITLE Senior Plumber/ DSO	490-75

The Designated Operator shall perform a monthly visual inspection of the facility, provide a report to the owner/operator, and inform the owner/operator of any conditions that need follow-up action.

XII. OWNER/OPERATOR SIGNATURE

CERTIFICATION: I certify that the information provided herein is true and accurate to the best of my knowledge.

APPLICANT SIGNATURE: K.M. Johnson 490-76 DATE: 4-11-08 490-77
REPRESENTING: ☐ 1. Tank Owner/Operator ☐ 2. Facility Owner/Operator ☒ 3. Authorized Representative of Owner
APPLICANT NAME (print): K.M. Johnson 490-78
APPLICANT TITLE: Senior Plumber/ DSO 490-79

(Agency Use Only) This plan has been reviewed and: ☑ Approved ☐ Approved With Conditions

Local Agency Signature: _____ Date: 7 / 12 / 08

Comments or Special Conditions:

UST Monitoring Plan – Page 2 Instructions

Complete a separate UST Monitoring Plan for each UST monitoring system at the facility. This Monitoring Plan must be kept at the UST location at all times. The elements of this Monitoring Plan constitute conditions of the UST Operating Permit. This form must be submitted with your initial UST Operating Permit Application and within 30 days of changes in the information it contains. Please note that you are required to obtain approval prior to installing or modifying monitoring equipment. (Note: Numbering of these instructions follows the data element numbers on the form.)

490-54a. MONITORING OF THE UNDER DISPENSER CONTAINMENT – Indicate the method used for UDC monitoring.
490-54b. SPECIFY – If 99 "Other" is checked, describe other method used.
If VI-1-1, VI-1-2 or VI-1-3 or VI-1-99 is checked, complete 490-55 to 490-64b.

490-55. PANEL MANUFACTURER – Enter the name of the manufacturer of the monitoring system control panel (console). If there is no control panel (e.g., only an electrical relay box is installed) leave this space blank.
490.56. MODEL # – Enter the model number for the monitoring system control panel (console). If there is no control panel (e.g., only an electrical relay box is installed) leave this space blank.
490-57. LEAK SENSOR MANUFACTURER – Enter the name of the manufacturer of the sensor(s).
490-58. MODEL #(S) – Enter the model number of the sensor(s) installed. If additional space is needed, use Section X.
490-59. DETECTION OF A LEAK INTO THE UDC TRIGGERS AUDIBLE AND VISUAL ALARMS – Indicate Yes or No
490-60. UDC LEAK ALARM TRIGGERS PUMP SHUTDOWN – Indicate Yes or No
490-61. FAILURE/DISCONNECTION OF UDC MONITORING SYSTEM TRIGGERS AUTOMATIC PUMP SHUTDOWN – Indicate Yes or No
490-62. UDC MONITORING STOPS THE FLOW OF PRODUCT AT THE DISPENSER – Indicate Yes or No.
490-63. UDC CONSTRUCTION – Indicate if the construction of the UDC is single-walled, or double-walled.
490-64a. DOUBLE-WALLED INTERSTITIAL SPACE MONITORING – Indicate what is used to monitor the interstitial space.
490-64b. LEAK WITHIN THE SECONDARY CONTAIMENT OF UDC TRIGGERS AUDIBLE AND VISUAL ALARMS – Indicate Yes or No
490-65. VII-1 ELD TESTING – Check the box if you have been notified by the State Water Resources Control Board (SWRCB) that the UST(s) covered by this plan is/are subject to Enhanced Leak Detection Requirements (i.e., UST has any single-wall component and is located within 1,000 feet of a public drinking water well).
490-66. TESTING OF SECONDARY CONTAINMENT COMPONENTS EVERY 36 MONTHS - Check the box if you have secondary containment that requires testing.
490-67. SPILL BUCKET TESTING - Check the box if you have spill buckets.
490-68a-h. VIII RECORDKEEPING – Indicate which monitoring and equipment maintenance records are maintained for this facility.
490-69a IX TRAINING STATEMENT – Check the box to verify that the statement is true.
REFERENCE DOCUMENTS MAINTAINED AT FACILITY – Check the appropriate boxes to describe reference documents maintained at the facility. Note that the first two items on the list must be kept at the facility.
490-69b. MONITORING PLAN – Indicate that this plan is kept as a reference document.
490-69c. OPERATING MANUALS FOR ELECTRONIC EQUIPMENT – Indicate that this plan is kept as a reference document.
490-69d. CA UST REGULATIONS – Indicate that this is kept as a reference document.
490-69e. CA UST LAW – Indicate that this is kept as a reference document.
490-69f. STATE WATER RESOURCES CONTROL BOARD (SWRCB) PUBLICATION – "HANDBOOK FOR TANK OWNERS - MANUAL AND STATISTICAL INVENTORY RECONCILIATION – Indicate that this is kept as a reference document.
490-69g. SWRCB PUBLICATION: "UNDERSTANDING AUTOMATIC TANK GAUGING SYSTEMS" – Indicate that this is kept as a reference document.
490-69h. OTHER – Indicate that other reference documents are kept.
490-69i. SPECIFY-If "OTHER" is checked, enter a brief description of the other document(s) maintained at the facility. If additional space is needed, see Section X.
490-70. DESIGNATED OPERATOR TRAINING – Check this box to verify that this statement is true.
490-71. COMMENTS/ADDITIONAL INFORMATION – Make additional comments or you may attach and identify the number of additional pages of information to describe any additional UST system monitoring-related information (e.g., additional information required by your local agency). Attach any monitoring logs that you will be using for the monitoring of your tank system.
490-72. NAME – Enter the name of the person who routinely conducts the monitoring and equipment maintenance under this plan.
490-73. TITLE – Enter the title of the person.
490-74. NAME – Enter the name of the second person, if applicable, who routinely conducts the monitoring and equipment maintenance under this plan.
490-75. TITLE – Enter the title of the second person.

OWNER/OPERATOR SIGNATURE – The tank owner/operator, facility owner/operator, or an authorized representative of the owner shall sign in the space provided. This signature certifies that the signer believes that all information submitted is true, accurate, and complete, and that the training program specified in Section IX has been implemented.

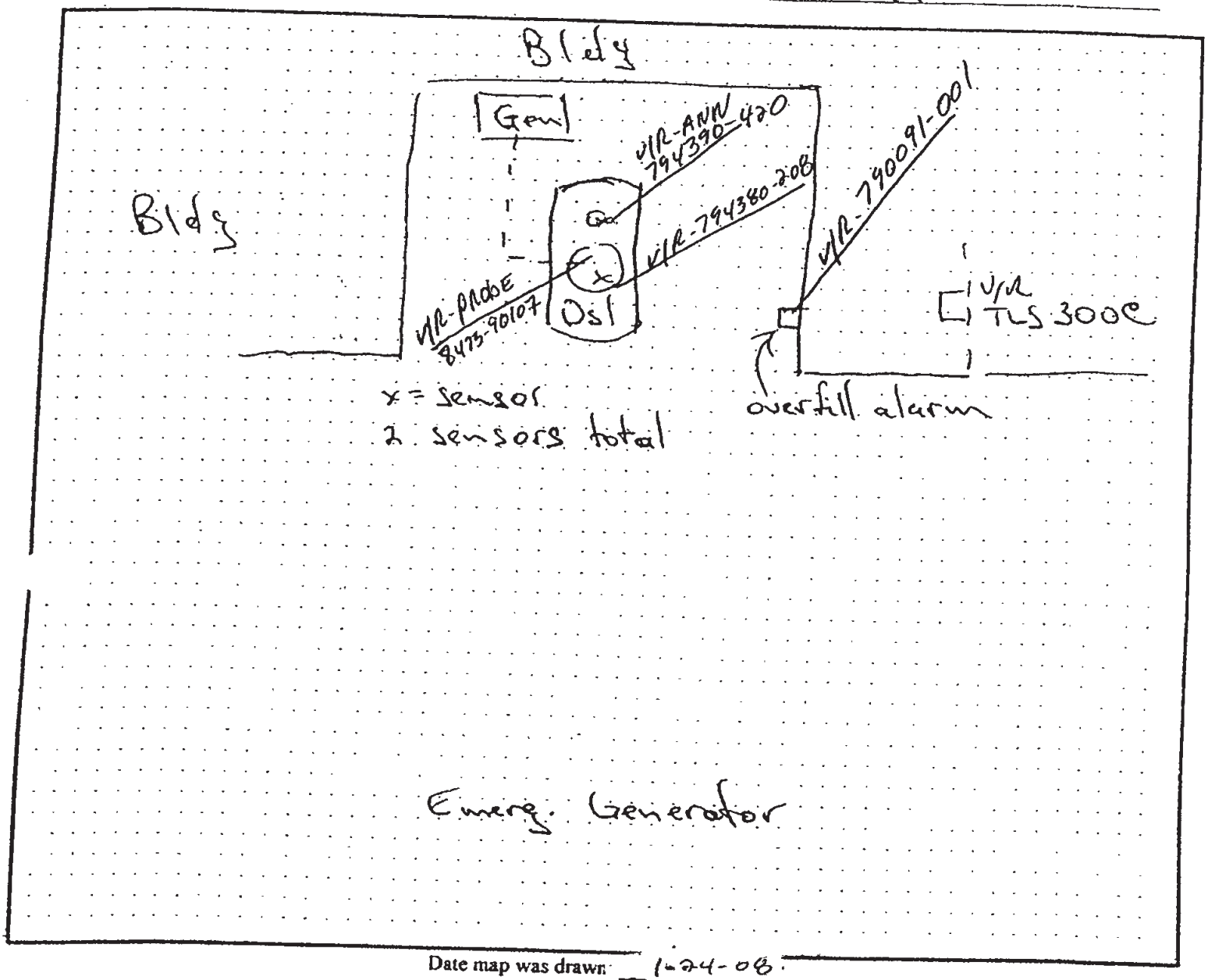
490-76. REPRESENTING – Check the appropriate box to indicate whether the signer is the UST owner/operator, the UST facility owner/operator, or an authorized representative of the owner.
490-77. DATE – Enter the date the plan was signed.
490-78. APPLICANT NAME – Print or type the name of the person signing the plan.
490-79. APPLICANT TITLE – Enter the title of the person signing the plan.

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Permit Number: ~~H5-01~~ H14261

UST Monitoring Site Plan

Site Address: Sheriff's Crime Lab 5255 Mt Etna



Date map was drawn: 1-24-08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 1

(One form per facility)

TYPE OF ACTION ☒ 1. NEW PLAN ☐ 2. CHANGE OF INFORMATION R01

I. FACILITY INFORMATION

FACILITY ID # *(Agency Use Only)* 37-000-114261 1

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) R02

County of San Diego Sheriff Crime Lab

BUSINESS SITE ADDRESS R03	CITY R04		ZIP CODE R05
5255 Mt. Etna Drive	San Diego	CA	92117-

II. SPILL CONTROL AND CLEANUP METHODS

This plan addresses unauthorized releases from UST systems and supplements the emergency response plans and procedures in the facility's Hazardous Materials Business Plan.

- If safe to do so, facility personnel will take immediate measures to control or stop any release (e.g., activate pump shut-off, etc.) and, if necessary, safely remove remaining hazardous material from the UST system.
- Any release to secondary containment will be pumped or otherwise removed within 24 hours of discovery. Recovered hazardous materials, unless suitable for their intended use, will be managed as hazardous waste.
- Absorbent material will be used to contain and clean up manageable spills of hazardous materials. Absorbent material which has become too saturated to be effective or which is no longer intended for use will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. Used absorbent material, reusable or waste, will be stored in a properly labeled and sealed container. Waste material shall be disposed appropriately.
- Facility personnel will determine whether any water removed from secondary containment systems, or from clean-up activity, has been in contact with any hazardous material. If the water is contaminated, it will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. If the water has a petroleum sheen (i.e., rainbow colors), it is contaminated. A thick floating petroleum layer may not necessarily display rainbow colors. Water (hazardous or non-hazardous) from sumps, spill containers, etc. will not be disposed to storm water systems.
- We will review secondary containment systems for possible deterioration if any of the following conditions occur:
  1. Hazardous material in contact with secondary containment is not compatible with the material used for secondary containment;
  2. Secondary containment is prone to damage from any equipment used to remove or clean up hazardous material collected in secondary containment;
  3. Hazardous material, other than the product/waste stored in the primary containment system, is placed inside secondary containment to treat or neutralize released product/waste, and the added material or resulting material from such a combination is not compatible with secondary containment.

III. SPILL CONTROL AND CLEAN-UP EQUIPMENT

PERIODIC MAINTENANCE: Spill control and clean-up equipment kept permanently on-site is listed in the facility's Hazardous Materials Business Plan. This equipment is inspected at least monthly, and after each use, supplies are replenished as needed. Defective equipment is repaired or replaced as necessary.

EQUIPMENT NOT PERMANENTLY ON-SITE, BUT AVAILABLE FOR USE IF NEEDED: (Complete only if applicable)

EQUIPMENT	LOCATION	AVAILABILITY
R10	R20	R30
R11	R21	R31
R12	R22	R32
R13	R23	R33
R14	R24	R34
R15	R25	R35

IV. RESPONSIBLE PERSONS

THE FOLLOWING PERSON(S) IS/ARE RESPONSIBLE FOR AUTHORIZING ANY WORK NECESSARY UNDER THIS RESPONSE PLAN:

NAME	TITLE
R40	R50
	Building Maintenance Supervisor
NAME R41	TITLE R51
NAME R42	TITLE R52
Michael Johnson	Senior Plumber/ DSO
NAME R43	TITLE R53

V. MONITORING INDICATORS

IF MONITORING INDICATES A POSSIBLE UNAUTHORIZED RELEASE, STEPS TO VERIFY THE RELEASE WILL BE MADE AS FOLLOWS: R60

☒ Additional system testing or data collection ☒ Inspection by qualified persons ☐ Recalibration of equipment ☐ Other (specify):

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
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1-800-253-9933

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 2

(One form per facility)

VI. REPORTING AND RECORD KEEPING

We will report/record any overfill, spill, or unauthorized release from a UST system as indicated in this plan.

Recordable Releases: Any unauthorized release from primary containment which the UST operator is able to clean up within eight (8) hours after the release was detected or should reasonably have been detected, and which does not escape from secondary containment, does not increase the hazard of fire or explosion, and does not cause any deterioration of secondary containment, must be recorded in the facility's monitoring records. Monitoring records must include:

- The UST operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous substances released;
- A description of the actions taken to control and clean up the release;
- The method and location of disposal of the released hazardous substances, and whether a hazardous waste manifest was or will be used;
- A description of actions taken to repair the UST and to prevent future releases;
- A description of the method used to reactivate interstitial monitoring after replacement or repair of primary containment.

Reportable Releases: Any overfill, spill, or unauthorized release which escapes from secondary containment (or primary containment if no secondary containment exists), increases the hazard of fire or explosion, or causes any deterioration of secondary containment, is a reportable release. Reportable releases are also recordable.

Within 24 hours after a reportable release has been detected, or should have been detected, we will notify the local agency administering the UST program of the release, investigate the release, and take immediate measures to stop the release. If necessary, or if required by the local agency, remaining stored product/waste will be removed from the UST to prevent further releases or facilitate corrective action. If an emergency exists, we will notify the State Office of Emergency Services.

Within five (5) working days of a reportable release, we will submit to the local agency a full written report containing all of the following information to the extent that the information is known at the time of filing the report:

- The UST owner's or operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous materials released;
- The approximate date of the release;
- The date on which the release was discovered;
- The date on which the release was stopped;
- A description of actions taken to control and/or stop the release;
- A description of corrective and remedial actions, including investigations which were undertaken and will be conducted to determine the nature and extent of soil, ground water or surface water contamination due to the release;
- The method(s) of cleanup implemented to date, proposed cleanup actions, and a schedule for implementing the proposed actions;
- The method(s) and location(s) of disposal of released hazardous materials and any contaminated soils, groundwater, or surface water.
- Copies of any hazardous waste manifests used for off-site transport of hazardous wastes associated with clean-up activity;
- A description of proposed methods for any repair or replacement of UST system primary/secondary containment systems;
- A description of additional actions taken to prevent future releases.

We will follow the reporting procedures described above if any of the following conditions occur:

- A recordable unauthorized release can not be cleaned up or is still under investigation within eight (8) hours of detection;
- Released hazardous substances are discovered at the UST site or in the surrounding area;
- Unusual operating conditions are observed, including erratic behavior of product dispensing equipment, sudden loss of product, or the unexplained presence of water in the tank, unless system equipment is found to be defective and is immediately repaired or replaced, and no leak has occurred;
- Monitoring results from UST system monitoring equipment/methods indicate that a release may have occurred, unless the monitoring equipment is found to be defective and is immediately repaired, recalibrated, or replaced, and additional monitoring does not confirm the initial results.

Record Retention: Monitoring records and written reports of unauthorized releases must be maintained on-site for at least 3 years. Hazardous waste shipping/disposal records (e.g., manifests) must be maintained for at least 3 years from the date of shipment.

VII. OWNER/OPERATOR SIGNATURE

CERTIFICATION: I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR SIGNATURE	DATE R70
	4-11-08
OWNER/OPERATOR NAME (print) R71	OWNER/OPERATOR TITLE R72
K.M. Johnson	Senior Plumber / DSO

(Agency Use Only) This plan has been reviewed and is: ☑ Approved ☐ Approved With Conditions* ☐ Disapproved

Local Agency Signature: Date: 9/12/08

**Conditions of approval (if any):*

114261

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933
http://www.sdcounty.ca.gov/deh/hmd/forms_hmd.html

FILE

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT TESTING REPORT FORM

This form is intended for use by contractors performing initial & periodic testing of UST secondary containment systems. Use the appropriate pages of this form to report results for all components tested. The completed form, written test procedures, and printouts from tests (if applicable), must be provided to the facility owner/operator for submittal to the County of San Diego Department of Environmental Health Hazardous Materials Division UST Group.

Permit Number: 114261 **Plan Check Number:**

FACILITY INFORMATION

Facility Name: Crime Lab County of S.D	Date of Testing: 11-14-08	
Facility Address: 5255 Mt. Etna Dr.		**Test Type:**
Facility Contact: Mike Johnson	Phone: 619-572-3164	☐ Initial
Date Local Agency Was Notified of Testing:		☐ 6 months
Name of Local Agency Inspector *(if present during testing)*:		☒ 36 months

TESTING CONTRACTOR INFORMATION

Company Name: LEMESNAGER ENGINEERING	
Technician Conducting Test: JAMES ROMERO	
Credentials: ☒ CSLB Licensed Contractor	☐ SWRCB Licensed Tank Tester
License Type: Genaral Contractor	License Number: 203029

Manufacturer Training

Manufacturer	Component(s)	Date Training Expires
International code	California UST Service technician	6/6/2009
Franklin Fueling systems	Sump test System Operation	5/28/2010
Veeder Root	Level 4	2/20/2010

SUMMARY OF TEST RESULTS

Component	Pass	Fail	Not Tested	Repairs Made	Component	Pass	Fail	Not Tested	Repairs Made
TI Diesel Ann.	☑	☐	☐	☐		☐	☐	☐	☐
TI piping sump	☑	☐	☐	☐		☐	☐	☐	☐
Piping run 1 feed	☑	☐	☐	☐		☐	☐	☐	☐
piping run 2 return	☑	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐

If hydrostatic testing was performed, describe what was done with the water after completion of tests:

All test water is being reused from site to site.

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

To the best of my knowledge, the facts stated in this document are accurate and in full compliance with legal requirements

For all testing equipment capable of generating a print out of test results, you must attach a copy of the test report to this certification ☐ **System printout attached**

Technician's Signature: James Romero Date: 11/14/08

1. TANK ANNULAR TESTING

Test Method Developed By:	☐ Tank Manufacturer ☒ Industry Standard ☐ Professional Engineer ☐ Other *(Specify)*			
Test Method Used:	☐ Pressure ☒ Vacuum ☐ Hydrostatic ☐ Other *(Specify)*			
Test Equipment Used: 0-30 Vacuum gauge			Equipment Resolution:	
	Tank # 1	**Tank #**	**Tank #**	**Tank #**
Is Tank Exempt From Testing?[1]	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Tank Capacity:	4,000			
Tank Material:	Glass/steel			
Tank Manufacturer:	Joor			
Product Stored:	Diesel			
Wait time between applying pressure/vacuum/water and starting test:	15 min			
Test Start Time:	10:45			
Initial Reading (R_I):	10"			
Test End Time:	11:45			
Final Reading (R_F):	10"			
Test Duration:	1 hr.			
Change in Reading (R_F-R_I):	0			
Pass/Fail Threshold or Criteria:	no-loss			
Was sensor removed for testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, & recommended follow-up for failed tests)*

[1] Secondary containment systems where the continuous monitoring automatically monitors both the primary and secondary containment, such as systems that are hydrostatically monitored or under constant vacuum, are exempt from periodic containment testing. {California Code of Regulations, Title 23, Section 2637(a)(6)}

3. PIPING SUMP TESTING

Test Method Developed By: Franklin Fueling systems	☐ Sump Manufacturer ☐ Industry Standard ☐ Professional Engineer ☒ Other *(Specify)*			
Test Method Used:	☐ Pressure ☐ Vacuum ☒ Hydrostatic ☐ Other *(Specify)*			
Test Equipment Used: Franklin Fueling systems STS-			Equipment Resolution:	
	Sump # 1	**Sump # 1**	**Sump # 2**	**Sump # 2**
Sump Diameter:	**32"**	**32"**		
Sump Depth:	**34"**	**34"**		
Sump Material:	**Fiberglass**	**Fiberglass**		
Height from Tank Top to Top of Highest Piping Penetration:	**17"**	**17"**		
Height from Tank Top to Lowest Electrical Penetration:	**12"**	**12"**		
Condition of sump prior to testing:	**good**	**good**		
Portion of Sump Tested[2]	**19"**	**19"**		
Does turbine shut down when sump sensor detects liquid (both product and water)?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Turbine shutdown response time				
Is system programmed for fail-safe shutdown?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was fail-safe verified to be operational?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Wait time between applying pressure/vacuum/water and starting test:	**30 min.**	**30 sec.**		
Test Start Time:	**11:46**	**12:01**		
Initial Reading (R_I):	**6.1370**	**6.1365**		
Test End Time:	**12:01**	**12:16**		
Final Reading (R_F):	**6.1366**	**6.1358**		
Test Duration:	**15 min.**	**15 min.**		
Change in Reading (R_F-R_I):	**-.0004**	**-.0007**		
Pass/Fail Threshold or Criteria:	**.002**	**.002**		
Was sensor removed for testing?	☒ Yes ☐ No ☐ NA	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☒ Yes ☐ No ☐ NA	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*
Site is a Emergency Generator Location NO PSD required.

[2] If the entire depth of the sump is not tested, specify how much was tested. If the answer to any of the questions indicated with an asterisk (*) is "NO" or "NA", the entire sump must be tested. (See SWRCB LG-160)

2. SECONDARY PIPE TESTING

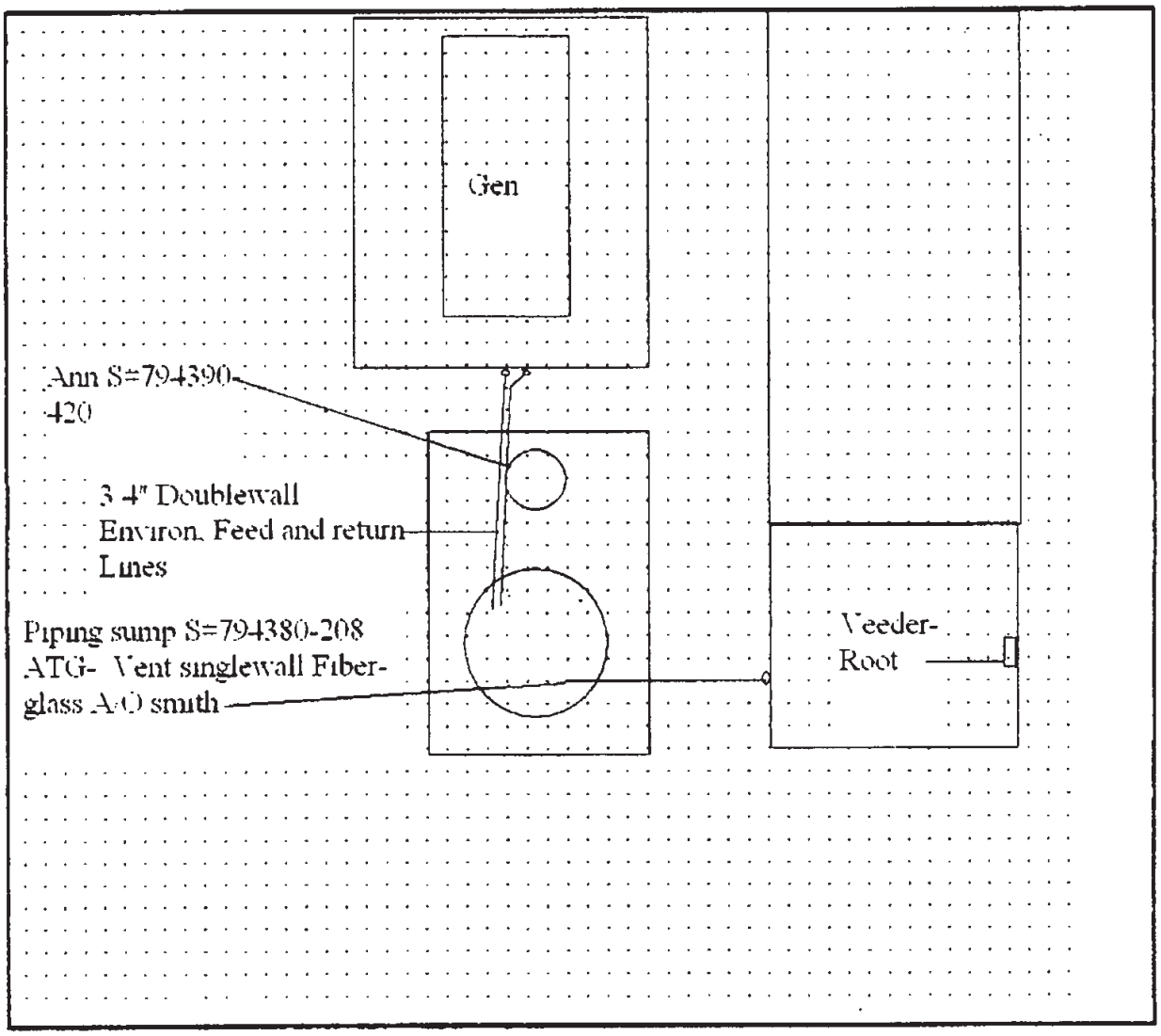
Test Method Developed By:	☐ Piping Manufacturer	☒ Industry Standard	☐ Professional Engineer	☐ Other *(Specify)*
Test Method Used:	☒ Pressure	☐ Vacuum	☐ Hydrostatic	☐ Other *(Specify)*
Test Equipment Used: 0-15 psi gauges			Equipment Resolution:	

	Piping Run # 1	Piping Run # 2	Piping Run #	Piping Run #
Piping Material:	Poly	Ploy		
Piping Manufacturer:	Environ	Environ		
Piping Diameter:	3/4"	3/4"		
Length of Piping Run:	25'	25'		
Product Stored:	Diesel	Diesel		
Method and location of piping-run isolation:	Test boots	Test Boots		
Wait time between applying pressure/vacuum/water and starting test:	15 min	15 min		
Test Start Time:	10:45	10:45		
Initial Reading (R_I):	5 psi.	5 psi.		
Test End Time:	11:45	11:45		
Final Reading (R_F):	5 psi	5 psi		
Test Duration:	1 hr.	1 hr.		
Change in Reading (R_F-R_I):	0	0		
Pass/Fail Threshold or Criteria:	no-loss	no-loss		

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

UST Monitoring Site Plan

Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/14/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

CRIME LAB
5255 MT.ETNA DR.
SAN DIEGO CA
LESMESNAGER ENGINEERING

11/14/2008 12:01 PM

SUMP LEAK TEST REPORT

PIPE

TEST STARTED	11:46 AM
TEST STARTED	11/14/2008
BEGIN LEVEL	6.1370 IN
END TIME	12:01 PM
END DATE	11/14/2008
END LEVEL	6.1366 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

CRIME LAB
5255 MT.ETNA DR.
SAN DIEGO CA
LESMESNAGER ENGINEERING

11/14/2008 12:16 PM

SUMP LEAK TEST REPORT

PIPE

TEST STARTED	12:01 PM
TEST STARTED	11/14/2008
BEGIN LEVEL	6.1365 IN
END TIME	12:16 PM
END DATE	11/14/2008
END LEVEL	6.1358 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

COUNTY OF SAN DIEGO

CORRECTIVE ACTION FORM TO DOCUMENT RETURN TO COMPLIANCE

PERMIT #: 114261
SPECIALIST: J. Pearson
INSPECTION DATE: 01/24/08
CONTACT: D. Tapper

BUSINESS NAME San Diego Sheriff's Crime Lab

ADDRESS 5255 Mount Etna Dr. CITY San Diego ZIP 92117

VIOL #	DATE CORRECTED	INDICATE HOW VIOLATIONS WERE CORRECTED (ATTACH ANY SUPPORTING DOCUMENTATION TO THIS FORM)
1 v 3102	9/12/08	UST Operating permit issued/available -
2 v 3173	2/13/08	DO training performed by M. Johnson. Log sent to HMD. jp
3 v 1014	2/30/09	HMBP certified
4 v 0225	3/19/08	Waste hauled.
5 v 0227	2/23/09	Verified during 2009 Inspection
6 v 4351	2/19/08	Completed MWMP, submitted to the HMD. jp
7 v	___/___/___	
8 v	___/___/___	
9 v	___/___/___	
10 v	___/___/___	

I certify under penalty of law that this business/site has corrected all violations marked on the Compliance Inspection Report/Notice of Violation. I have personally examined and am familiar with the information submitted and believe the information is true, accurate and complete. I am authorized to file this certification for the business/site, and am aware that there are significant penalties for submitting false information.

Responsible Party: _____ ~~Job Title~~ _____
Print Name

Signature of Responsible Party: _____ **Date:** ___/___/___

≤ Send completed form and supporting documentation to the address listed below ≥

COUNTY OF SAN DIEGO USE ONLY: **Reviewed by:** _____ **Date:** ___/___/___
(Specialist's name and date required for processing)

Specialist's comments: _____

☐ **All violations noted on date listed above were corrected.**
☐ Based on information provided by the business
☐ Based on field verification by Specialist

☐ **RTC entered in Kiva by Specialist on:** ___/___/___ ☐ **RTC entered in Kiva by Clerical on:** ___/___/___

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
http://www.sdcdeh.org//hmd 619-338-2222; 1-800-253-9933; Fax 619-338-2377

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(2-sides)

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933
www.sdcounty.ca.gov/deh/hmd

DEH

Medical Waste Management Plan

Facility Information

Business Name: SAN DIEGO SHERIFF'S CRIME LAB

Unified Program Facility Permit #: 114261

Type of Business: FORENSIC LAB **Date:** 02/19/08

Address: 5255 MOUNT ETNA DRIVE (Street No. / Street Name) SAN DIEGO (City) CA (State) 92117-6912 (Zip Code)

Person Responsible for Implementing the Medical Waste Management Plan

Name: DON TAPPER

Title: ASST. DIRECTOR OF FORENSIC SERVICES **Phone:** (858) 467-4607 X ____

Types of wastes generated

☒ **Sharps** – needles, broken glass, blades.
Estimated monthly amount 50 **lbs**

☒ **Blood or body fluids** - liquid blood elements or other regulated body fluids, or articles contaminated with blood or body fluids.
Estimated monthly amount 250 **lbs**

☐ **Laboratory wastes** - specimens or microbiological cultures, stocks of infectious agents, live and attenuated vaccines, and culture media.
Estimated monthly amount ____ **lbs**

☐ **Isolation waste** – waste contaminated with excretion, exudates, or secretions from humans or animals who are isolated due to highly communicable diseases.
Estimated monthly amount ____ **lbs**

☐ **Waste contaminated with fixatives or chemotherapeutic agents.**
Estimated monthly amount ____ **lbs**

☐ **Surgical specimens** – human or animal parts or tissues removed surgically or by autopsy.
Estimated monthly amount ____ **lbs**

☐ **Pathology waste** – recognizable human anatomical parts.
Estimated monthly amount ____ **lbs**

☐ **Contaminated animals** – animal carcasses, body parts, bedding materials.
Estimated monthly amount ____ **lbs**

☐ **Other (please specify):** ____
Estimated monthly amount ____ **lbs**

☐ **Home Generated Sharps**
Estimated monthly amount ____ **lbs**

Estimate of TOTAL monthly medical waste generated: 300 **lbs**

Method of treatment performed onsite (if applicable):

☐ **Steam Autoclaving** ☐ **Other state approved alternative technology** (please specify below):

Medical Waste Management Plan

Registered Medical Waste Hauler used to remove untreated medical waste (if applicable):

Name: SPECTRUM ENVIRONMENTAL SOLUTIONS INC.

Address: 1026 W. EL NORTE PARKWAY, SUITE 247

City: ESCONDIDO **State** CA **ZIP Code** 92026

Phone #: (800) 364-9693 X ____

Contact Person: TIFFANY SAXON (CELL: 760-443-2192)

Offsite treatment facility to which medical waste is transported (if applicable):

Facility Name: _____

Address: _____

City: _____ **State** _____ **ZIP Code** _____

Phone #: (___)_____X ____

Contact Person: _____ **Phone #:** (___)_____X____

I hereby certify to the best of my knowledge and believe the statements made herein are correct and accurate.

Name: DON TAPPER
Type or Print

Title: ASST. DIRECTOR OF FORENSIC SERVICES

Signature: Donald M. Tapper **Date:** 02/19/08

Emergency Action Plan:
Note: This requirement only applies to Large Quantity Generators of Medical Waste (≥200 lbs/month)

Plan to be followed to ensure the proper disposal of medical waste in the event of a natural disaster, treatment system breaks down, power failure, spill, etc. (use additional sheets if necessary):

IF SAFE TO DO SO, TRAINED LAB PERSONNEL WILL CONTAIN/ LOCALIZE SPILL(S) USING PROPER ON-SITE SAFETY EQUIPMENT. HAZMAT WILL BE CONTACTED TO REMOVE SPILL(S) AS NECESSARY. CLEAN-UP CONTRACTOR WILL BE CONTACTED TO REMOVE WASTE AS NECESSARY.

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Permit #: 114261 **Date: 2/19/2008**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: San Diego Sheriff's Crime Laboratory

Business Address: 5255 Mount Etna Drive, San Diego, CA 92117-6912

Business Owner or Operator: San Diego Sheriff's Department

Please complete the following by entering the chemical name in the chemical name column and then place a check ✓ in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check ✓ in the <1-gallon column.
(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal	<1 lb	<10 gal	<10 lbs	<55 gal	<500 lbs	Trade Secret
Acetaldehyde	☒	☐	☐	☐	☐	☐	☐
Alprazolam	☐	☒	☐	☐	☐	☐	☐
Anabolic steroids	☐	☒	☐	☐	☐	☐	☐
Aniline	☒	☐	☐	☐	☐	☐	☐
Barbiturates	☐	☒	☐	☐	☐	☐	☐
Benzene	☒	☐	☐	☐	☐	☐	☐
Benzidine-based dyes	☐	☒	☐	☐	☐	☐	☐
Benzodiazepines	☐	☒	☐	☐	☐	☐	☐
Benphetamine	☐	☒	☐	☐	☐	☐	☐
Bromoform	☒	☐	☐	☐	☐	☐	☐
Carbamazepine	☐	☒	☐	☐	☐	☐	☐
Carbon disulphide	☐	☐	☒	☐	☐	☐	☐
Carbon tetrachloride	☒	☐	☐	☐	☐	☐	☐
Chlordiazepoxide HCl	☐	☒	☐	☐	☐	☐	☐
Chloroform	☐	☐	☒	☐	☐	☐	☐
Cocaine	☐	☒	☐	☐	☐	☐	☐
Cyclohexane	☒	☐	☐	☐	☐	☐	☐
Diazepam	☐	☒	☐	☐	☐	☐	☐
1,2-Dichloroethane	☐	☐	☐	☒	☐	☐	☐
Dichloromethane	☐	☐	☒	☐	☐	☐	☐
3,3'-Dimethoxybenzidine	☐	☒	☐	☐	☐	☐	☐

Permit #: 114261 **Date: 2/19/2008**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
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(PLEASE NOTE: the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lbs.	≤10 gal.	≤10 lbs.	≤55 gal.	≤500 lbs.	Trade Secret
Diphenylhydantoin	☐	☒	☐	☐	☐	☐	☐
Formaldehyde	☐	☐	☒	☐	☐	☐	☐
Halazepam	☐	☒	☐	☐	☐	☐	☐
Lead	☐	☐	☐	☒	☐	☐	☐
Lead compounds	☐	☒	☐	☐	☐	☐	☐
Lorazepam	☐	☒	☐	☐	☐	☐	☐
Mercury and mercury compounds	☐	☐	☐	☒	☐	☐	☐
Methyltestosterone	☐	☒	☐	☐	☐	☐	☐
Nicotine	☐	☒	☐	☐	☐	☐	☐
Oxazepam	☐	☒	☐	☐	☐	☐	☐
Oxymetholone	☐	☒	☐	☐	☐	☐	☐
Pentobarbital sodium	☐	☒	☐	☐	☐	☐	☐
Phenacetin	☐	☒	☐	☐	☐	☐	☐
Phenobarbital	☐	☒	☐	☐	☐	☐	☐
Phenolphthalein	☒	☐	☐	☐	☐	☐	☐
Phenolphthalein	☐	☒	☐	☐	☐	☐	☐
Primidone	☐	☒	☐	☐	☐	☐	☐
Pyridine	☒	☐	☐	☐	☐	☐	☐
Secobarbital	☐	☒	☐	☐	☐	☐	☐
Stanozolol	☐	☒	☐	☐	☐	☐	☐
Temazepam	☐	☒	☐	☐	☐	☐	☐

Permit #: 114261 **Date: 2/19/2008**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
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(PLEASE NOTE: the symbol < means **less than).**

Chemical Name	<1 gal.	<1 lb.	≤10 gal.	≤10 lbs.	≤55 gal.	≤500 lbs.	Trade Secret
Testosterone and its esters	☐	☒	☐	☐	☐	☐	☐
Testosterone enanthate	☐	☒	☐	☐	☐	☐	☐
Toluene	☐	☐	☒	☐	☐	☐	☐
Trichloroethylene	☒	☐	☐	☐	☐	☐	☐
==========	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐
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County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document installation, testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

Plan Check Number: _____ **Permit Number:** 114261

A. General Information

Facility Name: Sheriffs Crime Lab Bldg. No.: _____

Site Address: 5255 MT. ETna City: S.D. Zip: _____

Facility Contact Person: Mike J. Contact Phone No.: (619) 572-3164

Make/Model of Monitoring System: TLS-300C Date of Testing/Servicing: 1/24/08

B. Inventory of Equipment Tested/Certified: Check the appropriate boxes to indicate specific equipment installed/ inspected serviced:

DSL

Tank ID: Emergency Generator 4000

- ☒ In-Tank Gauging Probe. Model: VR-8473-90107
- ☒ Annular Space or Vault Sensor. Model: VR-794390-420
- ☐ Piping Sump / Trench Sensor(s). Model: _____
- ☒ Fill Sump Sensor(s). Model: VR-794380-208
- ☐ Mechanical Line Leak Detector. Model: _____
- ☐ Electronic Line Leak Detector. Model: _____
- ☒ Tank Overfill / High-Level Sensor. Model: VR-790091-001
- ☐ Other (specify equipment type and model in Section E on Page 2).

Tank ID: _____

- ☐ In-Tank Gauging Probe. Model: _____
- ☐ Annular Space or Vault Sensor. Model: _____
- ☐ Piping Sump / Trench Sensor(s). Model: _____
- ☐ Fill Sump Sensor(s). Model: _____
- ☐ Mechanical Line Leak Detector. Model: _____
- ☐ Electronic Line Leak Detector. Model: _____
- ☐ Tank Overfill / High-Level Sensor. Model: _____
- ☐ Other (specify equipment type and model in Section E on Page 2).

Tank ID: _____

- ☐ In-Tank Gauging Probe. Model: _____
- ☐ Annular Space or Vault Sensor. Model: _____
- ☐ Piping Sump / Trench Sensor(s). Model: _____
- ☐ Fill Sump Sensor(s). Model: _____
- ☐ Mechanical Line Leak Detector. Model: _____
- ☐ Electronic Line Leak Detector. Model: _____
- ☐ Tank Overfill / High-Level Sensor. Model: _____
- ☐ Other (specify equipment type and model in Section E on Page 2).

Tank ID: _____

- ☐ In-Tank Gauging Probe. Model: _____
- ☐ Annular Space or Vault Sensor. Model: _____
- ☐ Piping Sump / Trench Sensor(s). Model: _____
- ☐ Fill Sump Sensor(s). Model: _____
- ☐ Mechanical Line Leak Detector. Model: _____
- ☐ Electronic Line Leak Detector. Model: _____
- ☐ Tank Overfill / High-Level Sensor. Model: _____
- ☐ Other (specify equipment type and model in Section E on Page 2).

Dispenser ID: _____

- ☐ Dispenser Containment Sensor(s). Model: _____
- ☐ Shear Valve(s).
- ☐ Dispenser Containment Float(s) and Chain(s).

Dispenser ID: _____

- ☐ Dispenser Containment Sensor(s). Model: _____
- ☐ Shear Valve(s).
- ☐ Dispenser Containment Float(s) and Chain(s).

Dispenser ID: _____

- ☐ Dispenser Containment Sensor(s). Model: _____
- ☐ Shear Valve(s).
- ☐ Dispenser Containment Float(s) and Chain(s).

Dispenser ID: _____

- ☐ Dispenser Containment Sensor(s). Model: _____
- ☐ Shear Valve(s).
- ☐ Dispenser Containment Float(s) and Chain(s).

Dispenser ID: _____

- ☐ Dispenser Containment Sensor(s). Model: _____
- ☐ Shear Valve(s).
- ☐ Dispenser Containment Float(s) and Chain(s).

Dispenser ID: _____

- ☐ Dispenser Containment Sensor(s). Model: _____
- ☐ Shear Valve(s).
- ☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification - I certify that the equipment identified in this document was installed/inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report *(check all that apply)*: ☒ System set-up ☒ Alarm history report

Technician Name (print): James Lomeró Signature: _____

Certification No.: A29899 License No.: 203039

Testing Company Name: Lemesnager Engineering Phone No.: (619) 917-8001

Site Address: _____ Date of Testing/Servicing: 1/24/2008

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

D. Results of Testing/Servicing **Permit Number:** ~~H29820~~ 114261

Software Version Installed: 15.01

Complete the following checklist:

☒ Yes	☐ No*	Is the audible alarm operational?
☒ Yes	☐ No*	Is the visual alarm operational?
☒ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No.
☒ Yes	☐ No* ☐ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90 %
☐ Yes*	☒ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☒ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☒ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☒ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments: Replaced TLS power Bulb.

F. In-Tank Gauging / SIR Equipment: **Permit Number:** 11426 1

☒ Check this box if tank gauging is used only for inventory control

☐ Check this box if no tank gauging or SIR equipment is installed

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☒ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☒ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☒ Yes	☐ No*	Was accuracy of system product level readings tested?
☒ Yes	☐ No*	Was accuracy of system water level readings tested?
☒ Yes	☐ No*	Were all probes reinstalled properly?
☒ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD): ☒ Check this box if LLDs are not installed.

Complete the following checklist:

☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☐ 3 g.p.h.; ☐ 0.1 g.p.h. ; ☐ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

G. Comments:

H.

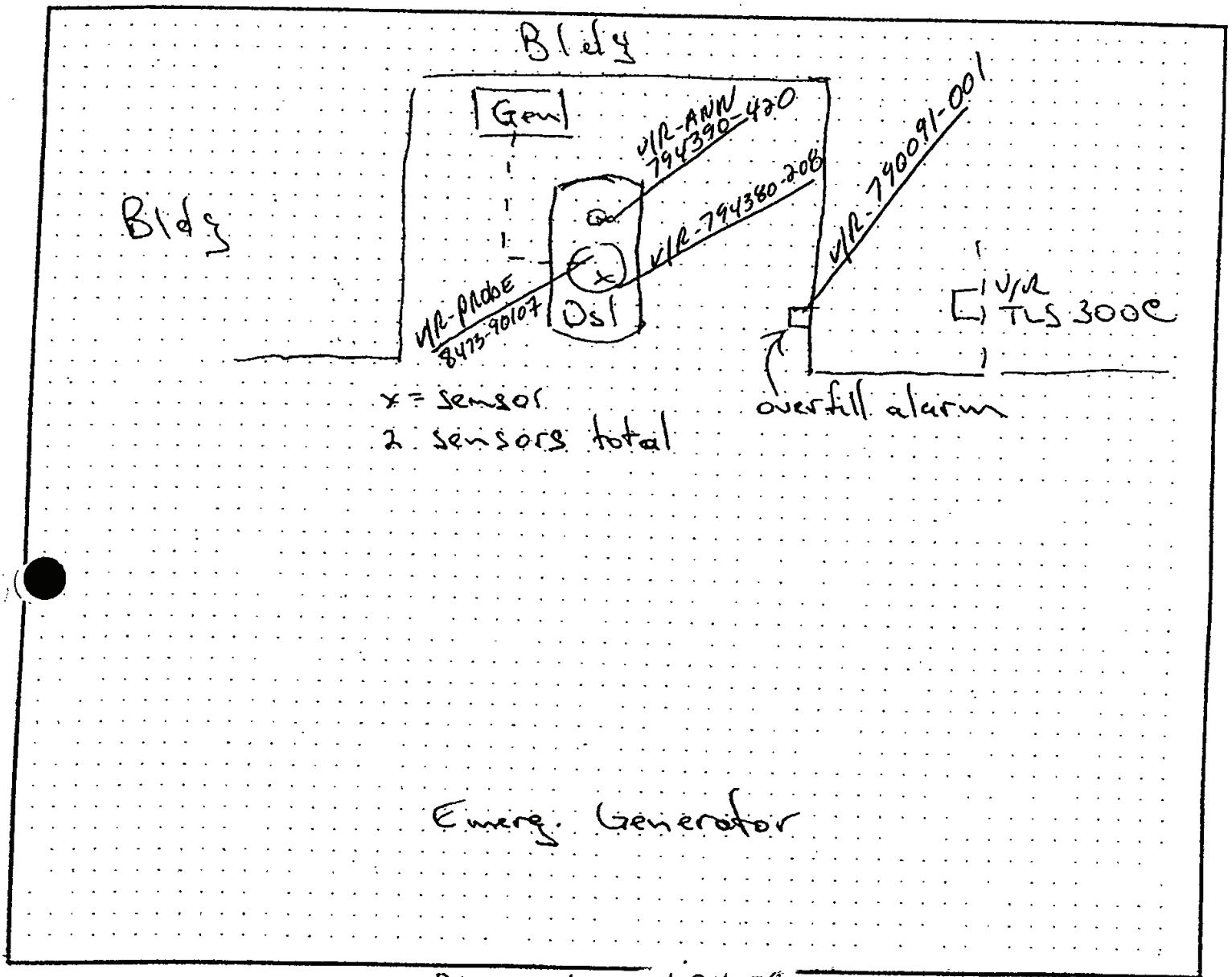
114261

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Permit Number: ~~H5-01~~ H14261

UST Monitoring Site Plan

Site Address: Sheriff's Crime Lab 5255 Mt Edna



Date map was drawn: 1-24-08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

1142161 SWRCB, January 2006

Spill Bucket Testing Report Form

This form is intended for use by contractors performing annual testing of UST spill containment structures. The completed form and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name: Crime Lab	Date of Testing: 1-24-2008
Facility Address: 5255 MT. ETNA S.D.	
Facility Contact: Mike S.	Phone: (
Date Local Agency Was Notified of Testing :	
Name of Local Agency Inspector *(if present during testing)*: Jessica P.	

2. TESTING CONTRACTOR INFORMATION

Company Name: Lemesnager Eng:	
Technician Conducting Test James Romero	
Credentials[1]: ☒ CSLB Contractor ☒ ICC Service Tech. ☐ SWRCB Tank Tester ☐ Other *(Specify)*	
License Number(s):203029	

3. SPILL BUCKET TESTING INFORMATION

Test Method Used:	☒ Hydrostatic	☐ Vacuum	☐ Other	
Test Equipment Used:			Equipment Resolution:	
Identify Spill Bucket *(By Tank Number, Stored Product, etc.)*	1 DIESEL	2	3	4
Bucket Installation Type:	☐ Direct Bury ☒ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump
Bucket ~~installation~~ Type: diameter	12" OPW			
Bucket Depth:	12"			
Wait time between applying vacuum/water and start of test:	15 min			
Test Start Time (T_I):	901			
Initial Reading (R_I):	6.5"			
Test End Time (T_F):	1001			
Final Reading (R_F):	6.5"			
Test Duration ($T_F - T_I$):	1 HR			
Change in Reading ($R_F - R_I$):	0			
Pass/Fail Threshold or Criteria:	NO-LOSS			
Test Result:	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technician's Signature: _____ Date: 1-24-2008

[1] State laws and regulations do not currently require testing to be performed by a qualified contractor. However, local requirements may be more stringent.

COUNTY OF SAN DIEGO
CRIME LAB
5255 MT.ETNA DR.

JAN 24, 2008 9:49 AM

SYSTEM STATUS REPORT
- - - - - - - - - - - - - - - -
ALL FUNCTIONS NORMAL

INVENTORY REPORT

T 1:DIESEL
VOLUME = 1987 GALS
ULLAGE = 2013 GALS
90% ULLAGE= 1613 GALS
TC VOLUME = 1983 GALS
HEIGHT = 47.27 INCHES
WATER VOL = 26 GALS
WATER = 2.37 INCHES
TEMP = 64.5 DEG F

* * * * * END * * * * *

SOFTWARE REVISION LEVEL
VERSION 15.01
SOFTWARE# 346015-100-B
CREATED - 97.10.23.08.56

S-MODULE# 330161-001-A
SYSTEM FEATURES:
PERIODIC IN-TANK TESTS
ANNUAL IN-TANK TESTS
0.20 GAL/HR PLLD
PRECISION TEST SPECIAL

ALARM HISTORY REPORT

---- IN-TANK ALARM -----

T 1:DIESEL

SETUP DATA WARNING
JAN 1, 1996 8:32 AM

OVERFILL ALARM
JAN 25, 2007 9:36 AM
APR 3, 2006 2:04 PM

INVALID FUEL LEVEL
JAN 25, 2007 9:16 AM

PROBE OUT
JAN 25, 2007 9:55 AM
JAN 25, 2007 9:38 AM
JAN 25, 2007 9:16 AM

LOW TEMP WARNING
JAN 25, 2007 9:39 AM

ALARM HISTORY REPORT

----- SENSOR ALARM -----
L 1:DSL-ANN.
ANNULAR SPACE
FUEL ALARM
JAN 25, 2007 9:40 AM

FUEL ALARM
APR 3, 2006 1:55 PM

SETUP DATA WARNING
JAN 1, 1996 8:32 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

----- SENSOR ALARM -----
L 2:DSL-TURBINE
STP SUMP
FUEL ALARM
JAN 25, 2007 9:44 AM

FUEL ALARM
JAN 25, 2007 9:42 AM

FUEL ALARM
APR 3, 2006 2:10 PM

* * * * * END * * * * *

SYSTEM SETUP
- - - - - - - - - - - - - - - -
JAN 24, 2008 9:50 AM

SYSTEM UNITS
U.S.
SYSTEM LANGUAGE
ENGLISH
SYSTEM DATE/TIME FORMAT
MON DD YYYY HH:MM:SS AM

COUNTY OF SAN DIEGO
CRIME LAB

114261

SHIFT TIME 1 : DISABLED
SHIFT TIME 2 : DISABLED
SHIFT TIME 3 : DISABLED
SHIFT TIME 4 : DISABLED

TANK PERIODIC WARNINGS
DISABLED
TANK ANNUAL WARNINGS
DISABLED
LINE PERIODIC WARNINGS
DISABLED
LINE ANNUAL WARNINGS
DISABLED

PRINT TC VOLUMES
ENABLED

TEMP COMPENSATION
VALUE (DEG F): 60.0
STICK HEIGHT OFFSET
DISABLED

H-PROTOCOL DATA FORMAT
HEIGHT
DAYLIGHT SAVING TIME
ENABLED
START DATE
APR WEEK 1 SUN
START TIME
2:00 AM
END DATE
OCT WEEK 5 SUN
END TIME
2:00 AM

RE-DIRECT LOCAL PRINTOUT
DISABLED

SYSTEM SECURITY
CODE : 000000

COMMUNICATIONS SETUP
- - - - - - - - - - - - - - - -

PORT SETTINGS:

COMM BOARD : 2 (RS-232)
BAUD RATE : 1200
PARITY : ODD
STOP BIT : 1 STOP
DATA LENGTH: 7 DATA

AUTO TRANSMIT SETTINGS:

AUTO LEAK ALARM LIMIT
DISABLED
AUTO HIGH WATER LIMIT
DISABLED
AUTO OVERFILL LIMIT
DISABLED
AUTO LOW PRODUCT
DISABLED
AUTO THEFT LIMIT
DISABLED
AUTO DELIVERY START
DISABLED
AUTO DELIVERY END
DISABLED
AUTO EXTERNAL INPUT ON
DISABLED
AUTO EXTERNAL INPUT OFF
DISABLED
AUTO SENSOR FUEL ALARM
DISABLED
AUTO SENSOR WATER ALARM
DISABLED
AUTO SENSOR OUT ALARM
DISABLED

RS-232 SECURITY
CODE : 000000

114261

RS-232 END OF MESSAGE
DISABLED

LEAK TEST METHOD
- - - - - - - - - - - - - -
TEST MONTHLY : ALL TANK
WEEK 1 MON
START TIME : 12:00 AM
TEST RATE :0.20 GAL/HR
DURATION : 2 HOURS

LEAK TEST REPORT FORMAT
NORMAL

IN-TANK SETUP
- - - - - - - - - - - - - -

T 1:DIESEL
PRODUCT CODE : 1
THERMAL COEFF :.000450
TANK DIAMETER : 95.00
TANK PROFILE : 1 PT
FULL VOL : 4000

FLOAT SIZE: 4.0 IN. 8496

WATER WARNING : 2.5
HIGH WATER LIMIT: 3.0

MAX OR LABEL VOL: 4000
OVERFILL LIMIT : 90%
: 3600
HIGH PRODUCT : 95%
: 3800
DELIVERY LIMIT : 5%
: 200

LOW PRODUCT : 200
LEAK ALARM LIMIT: 99
SUDDEN LOSS LIMIT: 99
TANK TILT : 0.00

MANIFOLDED TANKS
T#: NONE

LEAK MIN PERIODIC: 25%
: 1000

LEAK MIN ANNUAL : 25%
: 1000

PERIODIC TEST TYPE
STANDARD

ANNUAL TEST FAIL
ALARM DISABLED

PERIODIC TEST FAIL
ALARM DISABLED

GROSS TEST FAIL
ALARM DISABLED

ANN TEST AVERAGING: OFF
PER TEST AVERAGING: OFF

TANK TEST NOTIFY: OFF

TNK TST SIPHON BREAK:OFF

DELIVERY DELAY : 1 MIN

LIQUID SENSOR SETUP
- - - - - - - - - - - - - -

L 1:DSL-ANN.
TRI-STATE (SINGLE FLOAT)
CATEGORY : ANNULAR SPACE

L 2:DSL-TURBINE
TRI-STATE (SINGLE FLOAT)
CATEGORY : STP SUMP

EXTERNAL INPUT SETUP
- - - - - - - - - - - - - -
NONE

OUTPUT RELAY SETUP
- - - - - - - - - - - - - -

R 1:OVERFILL ALARM
TYPE:
STANDARD
NORMALLY OPEN

IN-TANK ALARMS
ALL:OVERFILL ALARM
ALL:HIGH PRODUCT ALARM
ALL:MAX PRODUCT ALARM

ENTERED MAR 0 6 2009

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 4	DATE 1/23/2009
PERMIT # 114261	BUS. CODE K70
TIME START 9:00	END 2:00
SPECIALIST Jessica Pearson	
INSPECTION CONTACT Jeanne Redemen	
TITLE Criminalist III	
PHONE 858-467-4600	

BUSINESS NAME SD County Sheriff Crime Lab

ADDRESS 5255 Mount Etna Drive

CITY/ZIP San Diego / 92117-6912

On the above date, the County inspected your business under the authority of the California Health and Safety Code (H&SC), to determine compliance with applicable provisions of the H&SC, the California Code of Regulations (CCR), and the San Diego County Code of Regulatory Ordinances (SDCC). **This report serves as a Notice to Comply (H&SC 25187.8 & 25404.1.2) for any minor violations as defined in H&SC 25404 and 25117.6.** This report may contain both minor and more significant (Class II) violations. Minor violations do not include repeat violations or violations remaining uncorrected for more than 30 days (or as specified below). Minor violations do not include knowing, willful, intentional, or chronic violations; nor do they include violations showing a pattern of neglect or disregard. The remarks below are intended to provide guidance to correct any violations indicated on the attached violation report. You must submit a written response to this report within 30 days (or as specified below) demonstrating that all violations have been corrected or include a written notice of disagreement that clearly states the reason for any disputed violations. Prompt correction can protect you from penalties for a "minor violation". Penalties can be imposed for each day in violation for all other violations even if they are corrected promptly. However, correction within 30 days (or as specified below) will make a penalty less likely.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y	N/A		Y	N/A	
☒	☐	Unified Program Facility Permit current	☒	☐	Permit Expires on: 3/31/2009
☒	☐	Hazardous Materials Business Plan available	☒	☐	Contingency Plan available ☐ LQG ☒ SQG
☒	☐	Employee Training is adequate	☒	☐	Employee Training records available
☒	☐	Waste disposal records available for review	☒	☐	Universal waste managed properly
☒	☐	Emergency contacts current ☐ Updated today	☒	☐	Waste containers ☒ closed ☐ labeled
☐	☐	Chemical inventory/map current ☒ Updated today	☒	☐	Waste containers in good condition

Consent to inspect granted by: ☒ **Inspection Contact** ☐ **Other:** ____

A routine CUPA inspection covering onsite hazardous materials, hazardous waste, medical waste and underground storage tanks (USTs) was conducted with Mike Johnson, Designated Operator (DO), and Jeanne Redemen, Criminalist III. This facility is currently a large quantity generator of medical waste. The annual monitoring system certification for the 4,000-gallon diesel-containing UST, which powers an emergency generator, was performed during the inspection by James Romero, ICC-certified Service Technician for LeMesnager Engineering. This facility stores reportable quantities of hazardous materials onsite and generates hazardous waste through the laboratory analysis and testing of evidence from crime scenes.

RECEIVED FEB 1 0 2009

Notice to Comply:

1.) **Observation:** Currently, this facility has medical waste hauled off site once a month. Red bags that are tied off prior to the monthly pick-up are stored in individual labs until the day before the pick-up at which point they are brought to the medical waste storage area. In the Blood Alcohol area, tied off red-bags are stored in a fridge that runs between 2-4 degrees Celsius prior to disposal. Under the current practice, tied off red bags are routinely exceeding the 7 day storage time limit that applies to generators of more than 20 lbs of red bags/month who do not store biohazardous waste at, or below, 0 degrees Celsius. *Violation: Red bag waste stored >7 days at >0 degrees C (for generators of >20 lbs/month). 118280 (d)(1)(A)* **Corrective Action:** Revise medical waste (specifically, red bag) disposal procedures so that storage time limits are met. Submit evidence of correction to the San Diego County Hazardous Materials Division (HMD) within 30 days.

2.) **Observation:** The audible component of the UST overfill alarm was not working (produced no sound) during the inspection. *Violation: All audible/visual alarms not functioning properly. 2632(c)(2)(B), 2636(f)(1)* **Corrective Action:** Fix the audible component of the overfill alarm and submit evidence of completion to the HMD within 30 days.

☐ **This is an annual certification that the Hazardous Materials Business Plan (inventory & site map, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.**

Initials of Business Representative: ____

PRINTED NAME OF BUSINESS REPRESENTATIVE

DATE SIGNED 1/23/09

SIGNATURE OF BUSINESS REPRESENTATIVE

X

TITLE OF BUSINESS REPRESENTATIVE Criminalist III

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

PERMIT # 114261
DATE 1/23/2009
PAGE 2 OF 4

BUSINESS ADDRESS: 5255 Mount Etna Drive ZIP CODE: 92117-6912

Remarks:

Non-UST Remarks

- An unknown canister filter of some type was observed attached to the drain lines of a sink in the CSI Photo Room. The canister was filled with a green liquid and sediment. Ms. Redemen thought the system may have once been part of the old photo-processing system that has since been removed. **Within 30 days, submit documentation to the HMD describing the canister/contents. If the materials in the canister are hazardous, proof of proper management/disposal should be included.**

- The site map component of the Hazardous Materials Business Plan (HMBP) needs to be revised so that it clearly identifies the location of reportable quantities of hazardous materials and wastes. The UST needs to be shown as an underground not above ground tank and should be marked as 4,000 gallons in capacity. It is recommended that a second page be added to the map so that the first page can be used as an overview of this and surrounding facilities (i.e. Evidence storage etc.) and the second page show a more comprehensive view of the crime lab. **Within 30 days please submit a revised site map and HMBP Certification Form to the HMD.**

- All sharps containers observed during the inspection were properly labeled with state mandated biohazard labeling and county-mandated generator information. Proper generator labeling of red bags was less consistent. The majority of unlabeled red bags were found to not yet be holding waste, and those that had waste were labeled during the inspection. Ensure that red bags, in addition to sharps containers, are properly labeled as soon as waste is placed in them.

- Hazardous waste labels were applied to the four collection containers holding mixed wastes in the hazardous waste storage area. Many of the waste items had satellite labels, however, once these items are placed in the 180-day collection area they need to meet general accumulation labeling requirements. Please ensure that all hazardous waste labels in the 180-day area note the physical state and hazards of the waste they are identifying.

- Information on satellite accumulation and other topic related to hazardous waste can be obtained on the State Department of Toxic Substances Control website at www.dtsc.ca.gov under Fact Sheets, Publications, & Forms.

- Evidence of correction for two violations cited during the 1/24/08 HMD inspection (V0225 and V0227) was observed onsite today. Those violations will be closed in HMD files.

UST Remarks

- The Tank Page of the UST Operating Permit Application and the conditionally approved UST Monitoring Plan were updated during the inspection. **Submit a current copy of both documents to the HMD within 30 days.**

- Ensure that the most recent UST financial responsibility documents and a hard copy of the UST Operating Permit are available in facility records.

- The site map and emergency response components of the Hazardous Materials Business Plan (HMBP) were updated today. A copy of the site map was submitted to the HMD.

QUESTIONS and/or CORRESPONDENCE REGARDING THIS REPORT SHOULD BE DIRECTED TO
JESSICA PEARSON, ENVIRONMENTAL HEALTH SPECIALIST,
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
PHONE (858) 495-5872
FAX (858) 694-3705

SIGNATURE OF BUSINESS REPRESENTATIVE	DATE SIGNED	TITLE OF BUSINESS REPRESENTATIVE
[signature]	1/23/09	Criminalist III

COUNTY OF SAN DIEGO

MEDICAL WASTE REQUIREMENTS COMPLIANCE INSPECTION REPORT

PERMIT # 114261
DATE 01/23/09
PAGE 3 OF 4

BUSINESS ADDRESS: 5255 Mount Etna Drive ZIP: 92117-6912

VIOLATION REPORT: *The items checked below refer to specific section numbers of the California Health and Safety Code Sections 25100 and 117600 et. al.; the San Diego County Code of Regulatory Ordinances Sections 68.1201 et. al.; and the California Code of Regulations, Title 22 Sections 65600 et. al.*

All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

STORAGE AND LABELING

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V4201	UPF Permit not obtained. 117705, 68.905
	☐	V4202	Medical Waste (MW) not separated from other waste at point of origin. 118275
	☐	V4203	Enclosure or designated accumulation area for MW containers not secured. 118307, 118310
	☐	V4204	MW designated accumulation area not posted with an approved and legible biohazardous waste "warning sign" in English and Spanish. 118310
	☐	V4205	Medical SOLID WASTE not secured to deny access to unauthorized persons. 68.1211
	☐	V4206	Spill of MW not properly cleaned up. 118300
	☐	V4207	Sharps not stored in approved and properly marked sharps container. 118285(a)(d)
	☐	V4208	Full sharps container not taped closed or tightly-lidded to preclude loss of contents. 118285(b)
	☐	V4209	Red bags/sharps container not labeled with generator's name, address, and phone number. 68.1205, 68.1206
	☐	V4210	MW not stored in approved and properly marked red bags. 118275
	☐	V4211	Red bags not tied off to prevent leakage/expulsion of contents during handling and storage. 118280(a)
	☐	V4212	Red bags not containerized in rigid, leak resistant, and covered containers or bins. 118280(b)
	☐	V4213	Waste container/bin not labeled on the lid and side so as to be clearly visible. 118280(b)
	☐	V4214	Reusable containers/bins for MW storage not kept clean/sanitary. 118295, 118305
	☐	V4215	Frozen (0C/32 F) MW stored >90 days. 118280(d)(2)
	☐	V4306	Full sharps container stored >30 days at >0°C. 118285(c)
1	☑	V4307	Red bag waste stored >7 days at >0°C (for generators of >20lbs/month). 118280(d)(1)(A)
	☐	V4308	Red bag waste stored >30 days at >0°C (for generators of <20lbs/month). 118280(d)(1)(B)
	☐	V4309	MW interim storage area not marked with warning sign or a biohazard symbol legible from 5 ft. 118307, 118310
	☐	V4310	MW Interim storage area not properly secured. 118307

TREATMENT AND DISPOSAL

	☐	V4251	MW treated by unapproved method/procedure. 118215
	☐	V4252	Standardized written operating procedures for steam sterilization not available. 118215(2)(A)
	☐	V4253	Recording thermometer not calibrated annually. 118215(2)(B)
	☐	V4254	No records of annual thermometer calibration checks onsite for at least the past 3 years. 118215(2)(B)
	☐	V4255	Heat-sensitive tape/other approved method not used for each load treated onsite. 118215(2)(C)
	☐	V4256	Monthly biological indicator or other approved method not used to confirm proper disinfection. 118215(2)(D)
	☐	V4257	Onsite steam sterilization did not reach 121°C/250 °F for 30 minutes. 118215(2)(B)
	☐	V4258	Treatment records/logs of dates, time and temperature not available for 3 yrs. 118215(2)(E)
	☐	V4259	Disposal of untreated MW to an unauthorized point. 118340

TRANSPORTATION REQUIREMENTS

Viol #		VIOL	VIOLATION DESCRIPTION
	☐	V4260	Transportation of MW without State Hauler Registration or a (LQHE) from HMD. 118025
	☐	V4304	No LQHE for "self-hauled" MW (<20 pounds of waste/wk). 118025, 118030(a)(1)
	☐	V4305	LQHE not renewed annually as required. 118030(b)
	☐	V4311	Medical Waste tracking documents not in vehicle transporting MW. 118040(c)
	☐	V4312	MW tracking documents/logs not maintained for 3 years for LQHE. 118040(a)

SMALL QTY. GENERATORS ONLY (<200 lbs/mo) MW)

	☐	V4301	Medical Waste Mgmt. Plan (MWMP) not submitted to HMD (initial/updates if onsite treatment). 117935
	☐	V4302	Did not maintain and show proof of "onsite" medical waste treatment records for 3 yrs. 117943, 118215(2)(E)
	☐	V4303	Did not retain on file disposal receipts/tracking documents for waste shipped offsite for 2 yrs. 117945(b)
	☐	V4309	MWMP or equivalent information not onsite. 117945

REQUIREMENTS FOR LARGE QUANTITY GENERATORS ONLY

(≥ 200 pounds of waste generated per month)

	☐	V4351	MWMP not submitted to HMD (initial/updates). 117960, 117970
	☐	V4352	Records of MW treatment not available for 3 years. 117975, 118215(2)(E)
	☐	V4353	Did not retain on file disposal receipts/tracking documents for at least 3yrs. for waste shipped offsite. 117975

PATHOLOGY, CHEMOTHERAPY, PHARMAC. & HAZ. WASTE

	☐	V4401	Chemo waste not segregated from other MW. 118275(e)
	☐	V4402	Chemo waste container not properly labeled. 118275(e)
	☐	V4403	Illegal disposal of chemo waste. 118340
	☐	V4411	Pathology waste not segregated from other MW. 118275(f)
	☐	V4412	Pathology waste container not properly labeled. 118275(f)
	☐	V4413	Illegal disposal of pathology waste. 118340
	☐	V4421	Pharmwaste not segregated from other MW. 118275(g)
	☐	V4422	Pharmwaste not properly labeled. 118275(g)
	☐	V4423	Pharmwaste stored >90 days when container full, or stored longer than one year (max. allowable time). 118280(e)
	☐	V4432	Illegal disposal of pharmwaste. 118340, 118222(b)
	☐	V4441	Illegal disposal of photo/hazwaste to sewer/trash. 25189.5

ONSITE MW TREATMENT FACILITY REQUIREMENTS

	☐	V4501	Onsite MW treatment permit not obtained/renewed. 117950, 118130, 118135, 65620, 65623
	☐	V4502	Current copy of the MW treatment permit not available. 65621(f), 65623, 118165, 118180
	☐	V4503	Condition(s) of the MW treatmt. permit violated. 65623

SIGNATURE OF BUSINESS REPRESENTATIVE

1/23/09
DATE SIGNED

Criminalist II
TITLE OF BUSINESS REPRESENTATIVE

DEH:HM-9255 (7/07) NCR

DISTRIBUTION: WHITE-RETURN TO HMD: YELLOW-BUSINESS RETAINS

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PERMIT#: 114261

DATE: 01 / 23 / 09

PAGE: 4 OF 4

BUSINESS ADDRESS: 5255 Mount Etna Drive ZIP: 92117-6912

VIOLATION REPORT: The items checked below refer to specific section numbers of Title 23 of the California Code of Regulations (CCR), Chapters 6.7, of the Health & Safety Code (HSC) & the County Code of Regulatory Ordinances (SDCC). The following code sections checked are in violation (V) with the Underground Storage Tank laws and regulations. All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

GENERAL UNDERGROUND STORAGE TANK (UST) REQUIREMENTS

Viol # NOV	VIOLATION DESCRIPTION — UST SYSTEM RECORDS	VIOL	V
	Current UPF permit not obtained/not available. 25284; 68.905, 68.1003, 68.1005	3101	
	Current Operating Permit not available at facility. 25284(a), 25286(a); 2712 (i); 68.1003	3102	
	All permit operating conditions not met. 25284; 2712	3158	
	UST repair/modify/closure permit not obtained. 68.1004, 68.1005, 68.1009.5	3103	
	CUPA UST form(s) A &/or B not available/completed/ submitted to HMD. 25286(a); 2711	3104	
	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809	3105	
	Owner/operator agreement not available/ completed/submitted to HMD. 25284(a)(3); 2620(b)	3106	
	Monitoring procedures not available/completed/ submitted to HMD.2632(b)& (d), 2634(d), 2641(h), 2711(a)(9)	3107	
	Emergency Response Plan is not available/complete. 25289(b); 2632(b), 2634(e), 2641(h)	3108	
	Scaled Plot plan showing tank, piping & equipment location not available/complete/submitted to HMD. 2711(a)(8), 2632(d)(1)(C)	3109	
	Annual certification for ATG and/or sensors not completed (existing tank systems only). 2641(i), 2638	3110	
	Annual certification for continuous monitoring system not completed (new tanks). 25284.1(a)(4)(C); 2630(d), 2638	3116	
	Designated Operator (DO) Notification/Change form not submitted &/or DO not ICC certified. 2715 (a)(b)	3191	

Viol # NOV	VIOLATION DESCRIPTION — FILE RECORDS	VIOL	V
	Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e)	3114	
	Secondary containment testing not completed (passed) for all components &/or repairs to secondary containment components not completed. 25284.1, 25291(a)(2); 2637	3115	
	All releases not recorded and/or reported. 25294, 25295; 2650, 2651, 2652	3151	
	All maintenance/monitoring/calibration/ repair records not available. 25293; 2712 (b)	3152	
	Monitoring Cert. not submitted to CUPA w/l 30 days. 2638(d)	3161	
	Facility employee(s) not trained; records incomplete/not onsite. 2715(f)	3193	
	Enhanced leak detection not performed as required. 25292.4; 2640(e)	3154	
	Contractor &/or technician not trained & certified as required. 25284.1(a)(5)(D); 2715	3162	
	Contractor did not have required license, i.e., Class A, C-10, C34, C36 and/or C61. 25284.1(a)(5)(D); 2715	3163	
	Monitoring system disabled or tampered with and/or monitoring records falsified. 25299(f)	3157	
	All monitoring equipment not installed, calibrated, operated, and/or maintained per manufacturer's instructions. 2638(a), 2641(j)	3164	
	UST system repair(s) not completed properly. 25292.1(c); 2660 (a)(k)(l)(m)	3160	
	Designated Operator monthly inspection not conducted, incomplete or DO inspection reports not onsite.2715 (c)(d)(e)	3192	

UST SYSTEM INSPECTION

Requirements applicable for both, single & double walled systems

#	VIOLATION DESCRIPTION	NOV	VIOL	TANK # / PRODUCT: T002 / diesel	V	V	V
	Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)		3251				
2	All audible and/or visual alarms not functioning properly. 2632(c)(2)(B), 2636(f)(1)		3252	✓			
	Sticker/tag not affixed to monitoring equipment at certification. 2638(f)		3270				
	UST system does not have an approved overfill protection system. 2635(b)(2)		3254				
	Spill container is not in good condition and/or liquid free. 2635 (b)(1), 2636(a)(1)		3255				
	Fill box drain not functional and backup system is not available. 2635(b)(1)(C)		3256				
	Secondary containment system components not liquid free. 2631(d)(4)		3257				
	Sensors not placed adequately and/or at low point in sumps. 2641(a), 25291(a)(7)(C)		3258				
	Dispenser containment currently required and not present. 25284.1(a)(5); 2636(g)		3259				
	Dispenser containment not adequately monitored. 2636(f)(1) or (f)(5)(A)		3267				
	Dispenser containment not maintained free of liquid. 2631(d)(4)		3261				
	Secondary containment piping obstructed preventing drainage to sump. 2632		3262				
	Monitoring system components &/or devices are not all functional. 2630, 2641(j), 2632		3263				
	Spill containment not tested annually. 25284.2		3264				
	UST system not operated to prevent spills and/or overfills. 25292.1 (a)		3265				
	UST system not product tight (for tank installs on or after 7/1/03). 25290.1(c), 25290.2 (c)		3268				
	UST system not continuously monitored using Vacuum/Pressure/Hydrostatic (VPH) system (for tank installs on or after 7/1/04). 25290.1 (d)&(e)		3269				
	CATHODIC PROTECTION						
	System not checked as required by tester (at 6 months/3yrs). 2635(a)(2)(A)		3301				
	Impressed-current system not checked every 60 days. 2635(a)(2)(A)		3302				
	Corrosion protection not adequate. 25292.1(b); 2635(a)(2), 2662(c)		3303				
	CLOSURE REQUIREMENTS						
	Temporary closure requirements not completed. 25298, 2671		3322				
	Unused tank not properly closed. Permanent closure requirements not met. 25298, 2672		3324				

Signature of Business Representative

1/23/09
Date Signed

Owner/Manager
Title of Business Representative

DEH:HM-928 (Revised 12/05) NCR

DISTRIBUTION: WHITE-RETURN TO HMD; YELLOW-BUSINESS RETAINS

scan to file # 114261. jp

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933
www.sdcounty.ca.gov/deh/hmd

Medical Waste Management Plan

Facility Information

Business Name: SAN DIEGO SHERIFF'S CRIME LAB

Unified Program Facility Permit #: 114261

Type of Business: FORENSIC LAB

Date: 02/23/09

Address: 5255 MOUNTETNA DRIVE (Street No. / Street Name) SAN DIEGO (City) CA (State) 92117-6912 (Zip Code)

Person Responsible for implementing the Medical Waste Management Plan

Name: DON TAPPER

Title: ASST. DIRECTOR OF FORENSIC SERVICES **Phone:** (858) 467-4607 X ____

Types of wastes generated

☒ **Sharps** – needles, broken glass, blades.
Estimated monthly amount 50 lbs

☒ **Blood or body fluids** - liquid blood elements or other regulated body fluids, or articles contaminated with blood or body fluids.
Estimated monthly amount 250 lbs

☐ **Laboratory wastes** - specimens or microbiological cultures, stocks of infectious agents, live and attenuated vaccines, and culture media.
Estimated monthly amount _____ lbs

☐ **Isolation waste** – waste contaminated with excretion, exudates, or secretions from humans or animals who are isolated due to highly communicable diseases.
Estimated monthly amount _____ lbs

☐ **Waste contaminated with fixatives or chemotherapeutic agents.**
Estimated monthly amount _____ lbs

☐ **Surgical specimens** – human or animal parts or tissues removed surgically or by autopsy.
Estimated monthly amount _____ lbs

☐ **Pathology waste** – recognizable human anatomical parts.
Estimated monthly amount _____ lbs

☐ **Contaminated animals** – animal carcasses, body parts, bedding materials.
Estimated monthly amount _____ lbs

☐ **Other (please specify):** _____
Estimated monthly amount _____ lbs

☐ **Home Generated Sharps**
Estimated monthly amount _____ lbs

Estimate of TOTAL monthly medical waste generated: 300 lbs

Method of treatment performed onsite (if applicable):

☐ **Steam Autoclaving** ☐ **Other state approved alternative technology** (please specify below):

_____

Medical Waste Management Plan

Registered Medical Waste Hauler used to remove untreated medical waste (if applicable):

Name: WASTE MANAGEMENT HEALTHCARE SOLUTIONS, INC.

Address: 1996 Don Lee Place, Suite C

City: Escondido **State** CA **ZIP Code** 92029

Phone #: (760) 489-5009 X ____

Contact Person: Bliss

Offsite treatment facility to which medical waste is transported (if applicable):

Facility Name: _____

Address: _____

City: _____ **State** _____ **ZIP Code** _____

Phone #: (___) _____ X ____

Contact Person: _____ **Phone #:** (___) _____ X ____

I hereby certify to the best of my knowledge and believe the statements made herein are correct and accurate.

Name: DON TAPPER
Type or Print

Title: ASST. DIRECTOR OF FORENSIC SERVICES

Signature: Donald M. Tapper **Date:** 02/23/09

Emergency Action Plan:
Note: This requirement only applies to Large Quantity Generators of Medical Waste (≥200 lbs/month)

Plan to be followed to ensure the proper disposal of medical waste in the event of a natural disaster, treatment system breaks down, power failure, spill, etc. (use additional sheets if necessary):

IF SAFE TO DO SO, TRAINED LAB PERSONNEL WILL CONTAIN/ LOCALIZE SPILL(S) USING PROPER ON-SITE SAFETY EQUIPMENT. HAZMAT WILL BE CONTACTED TO REMOVE SPILL(S) AS NECESSARY. CLEAN-UP CONTRACTOR WILL BE CONTACTED TO REMOVE WASTE A NECESSARY.

COUNTY OF SAN DIEGO

CORRECTIVE ACTION FORM TO DOCUMENT RETURN TO COMPLIANCE

PERMIT #: 114261
SPECIALIST: J. Pearson
INSPECTION DATE: 01/23/09
CONTACT: J. Redemer

BUSINESS NAME SD CNTY SHERIFF CRIME LAB

ADDRESS 5555 MT ETNA DRIVE CITY SAN DIEGO ZIP 92117-6912

VIOL #	DATE CORRECTED	INDICATE HOW VIOLATIONS WERE CORRECTED (ATTACH ANY SUPPORTING DOCUMENTATION TO THIS FORM)
1 v4307	2/5/09	Medical waste is now hauled on a weekly basis.
2 v3252	2/19/09	Mike Johnson (UST) Overfill alarm replaced by J. Romero.
~~3~~ v	__/__/__	Unknown Canister (see attached).
~~4~~ v	__/__/__	HMBP Cert / Site Map
~~5~~ v	__/__/__	UST Forms from (K. M. Johnson)
6 v	__/__/__	
7	__/__/__	
8 v	__/__/__	
9 v	__/__/__	
10 v	__/__/__	

I certify under penalty of law that this business/site has corrected all violations marked on the Compliance Inspection Report/Notice of Violation. I have personally examined and am familiar with the information submitted and believe the information is true, accurate and complete. I am authorized to file this certification for the business/site, and am aware that there are significant penalties for submitting false information.

Responsible Party: Don Tapper (Print Name) **Job Title** Asst. Director

Signature of Responsible Party: Don Tapper **Date:** 02/23/09

≤ Send completed form and supporting documentation to the address listed below ≥

COUNTY OF SAN DIEGO USE ONLY: **Reviewed by:** Jessica Pearson (Specialist's name and date required for processing) **Date:** 3/11/09

Specialist's comments:

☑ **All violations noted on date listed above were corrected.**

☑ Based on information provided by the business
☐ Based on field verification by Specialist

☑ **RTC entered in Kiva by Specialist on:** 3/11/09 ☐ **RTC entered in Kiva by Clerical on:** __/__/__

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
http://www.sdcdeh.org//hmd 619-338-2222; 1-800-253-9933; Fax 619-338-2377

COMPLIANCE INSPECTION REPORT WRITTEN RESPONSE

Notice to Comply:

1. **Observation:** Currently, this facility has medical waste hauled off site once a month. Red bags that are tied off prior to the monthly pick-up are stored in individual labs until the day before the pick-up at which point they are brought to the medical waste storage area. In the Blood Alcohol area, tied off red bags are stored in a fridge that runs between 2-4 degrees Celsius prior to disposal. Under the current practice, tied off red bags are routinely exceeding the 7-day storage time limit that applies to generators of more than 20 lbs of red bags/month who do not store biohazardous waste at, or below, 0 degrees Celsius. *Violation: Red bag waste stored >7 days at >0 degrees C (for generators of >20 lbs/month). 118280 (d)(1)(A).* **Corrective Action:** Revise medical waste (specifically, red bag) disposal procedures so that storage time limits are met. Submit evidence of correction to the San Diego County Hazardous Materials Division (HMD) within 30 days.

   Response: Beginning February 5, 2009, the lab went to a weekly pickup schedule for medical waste. The company, Waste Management Healthcare Solutions (760.489.5009), now picks up our waste every Thursday.

2. **Observation:** The audible component of the UST overfill alarm was not working (produced no sound) during the inspection. *Violation: All audible/visual alarms not functioning properly. 2632(c)(2)(B), 2636(f)(1).* **Corrective Action:** Fix the audible component of the overfill alarm and submit evidence of completion to the HMD within 30 days.

   Response: The overfill alarm was replaced by James Romero from LeMesnager Engineering Inc. on February 19, 2009.

Remarks:

Non-UST Remarks

- An unknown canister filter of some type was observed attached to the drain lines of a sink in the CSI Photo Room. The canister was filled with a green liquid and sediment. Ms. Redeman thought the system may have once been part of the old photo-processing system that has since been removed. **Within 30 days, submit documentation to the HMD describing the canister/contents. If the materials in the canister are hazardous, proof of proper management/disposal should be included.**

  Response: The canisters are called dilution traps and existed in the facility prior to the lab moving here in 1995. These types of devices are typically used to dilute and neutralize chemicals that may be found in laboratory or industrial waste, but the actual purpose for the traps as used by the previous tenants of this facility (hospital) is unknown. The lab does not use these traps for this purpose and has placed no hazardous materials into them.

- The site map component of the Hazardous Materials Business Plan (HMBP) needs to be revised so that it clearly identifies the location of reportable quantities of hazardous

materials and wastes. The UST needs to be shown as an underground, not above ground, tank and should be marked as 4,000 gallons in capacity. It is recommended that a second page be added to the map so that the first page can be used as an overview of this and surrounding facilities (i.e., Evidence Storage) and the second page show a more comprehensive view of the crime lab. **Within 30 days please submit a revised site map and HMBP Certification Form to the HMD.**

Response: Three new site maps have been created and included in the updated Hazardous Materials Business Plan. These maps identify the location of reportable quantities of hazardous materials and wastes and also show the capacity of the tank (4,000 gallons) and indicate that it is an underground tank. One map is an overview of the facility, and the other two show a more comprehensive view of the crime lab.

- All sharps containers observed during the inspection were properly labeled with the state mandated biohazard labeling and county-mandated generator information. Proper generator labeling of red bags was less consistent. The majority of unlabeled red bags were found to not yet be holding waste, and those that had waste were labeled during the inspection. Ensure that red bags, in addition to sharps containers, are properly labeled as soon as waste is placed in them.

  Response: Lab personnel have been instructed to label red bags as soon as waste is placed in them.

- Hazardous waste labels were applied to the four collection containers holding mixed wastes in the hazardous waste storage area. Many of the waste items had satellite labels; however, once these items are placed in the 180-day collection area they need to meet general accumulation labeling requirements. Please ensure that all hazardous waste labels in the 180-day area note the physical state and hazards of the waste they are identifying.

  Response: Criminalist III Jeanne Redeman, or designee, will ensure that all hazardous waste labels in the 180-day area note the physical state and hazards of the waste they are identifying.

- Information on satellite accumulation and other topic related to hazardous waste can be obtained on the State Department of Toxic Substances Control website at www.dtsc.ca.gov under Fact Sheets, Publications, & Forms.

- Evidence of correction for two violations cited during the 1/24/08 HMD inspection (V0225 and V0227) was observed onsite today. Those violations will be closed in HMD files.

UST Remarks

- The Tank Page of the UST Operating Permit Application and the conditionally approved UST Monitoring Plan were updated during the inspection. **Submit a current copy of both documents to the HMD within 30 days.**

COMPLIANCE INSPECTION REPORT WRITTEN RESPONSE

Response: General Services is the custodian of these records.

- Ensure that the most recent UST financial responsibility documents and a hard copy of the UST Operating Permit are available in facility records.

  Response: General Services is the custodian of these records.

- The site map and emergency response components of the Hazardous Materials Business Plan (HMBP) were updated today. A copy of the site map was submitted to the HMD.

Monitoring Cert w/working overfill alarm. Scan to file # 114261. JP

Appendix VI

(Copies of Monitoring System Certification form and UST Monitoring Plot Plan available at http://www.waterboards.ca.gov.)

MONITORING SYSTEM CERTIFICATION

For Use By All Jurisdictions Within the State of California

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

A General Information

Facility Name: Crime Lab — Bldg. No.: _____

Site Address: 5255 Mt. Etna — City: San Diego — Zip: _____

Facility Contact Person: Mike J. — Contact Phone No.: (_____) _____

Make/Model of Monitoring System: Veeder-Root TLS-300 C — Date of Testing/Servicing: 1/23/09

B. Inventory of Equipment Tested/Certified

Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: Diesel 4,000 Emergency Gen ☑ In-Tank Gauging Probe. Model: 847390-107 ☑ Annular Space or Vault Sensor. Model: 794390-420 ☑ Piping Sump / Trench Sensor(s). Model: 794380-208 ☐ Fill Sump Sensor(s). Model: _____ ☐ Mechanical Line Leak Detector. Model: _____ ☐ Electronic Line Leak Detector. Model: _____ ☑ Tank Overfill / High-Level Sensor. Model: V/R 790091-001 ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID:** _____ ☐ In-Tank Gauging Probe. Model: _____ ☐ Annular Space or Vault Sensor. Model: _____ ☐ Piping Sump / Trench Sensor(s). Model: _____ ☐ Fill Sump Sensor(s). Model: _____ ☐ Mechanical Line Leak Detector. Model: _____ ☐ Electronic Line Leak Detector. Model: _____ ☐ Tank Overfill / High-Level Sensor. Model: _____ ☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID: _____ ☐ In-Tank Gauging Probe. Model: _____ ☐ Annular Space or Vault Sensor. Model: _____ ☐ Piping Sump / Trench Sensor(s). Model: _____ ☐ Fill Sump Sensor(s). Model: _____ ☐ Mechanical Line Leak Detector. Model: _____ ☐ Electronic Line Leak Detector. Model: _____ ☐ Tank Overfill / High-Level Sensor. Model: _____ ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID:** _____ ☐ In-Tank Gauging Probe. Model: _____ ☐ Annular Space or Vault Sensor. Model: _____ ☐ Piping Sump / Trench Sensor(s). Model: _____ ☐ Fill Sump Sensor(s). Model: _____ ☐ Mechanical Line Leak Detector. Model: _____ ☐ Electronic Line Leak Detector. Model: _____ ☐ Tank Overfill / High-Level Sensor. Model: _____ ☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID: _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s	**Dispenser ID:** _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).

*if the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. **Certification - I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report; *(check all that apply)*:** ☑ System set-up ☑ Alarm history report

Technician Name (print): James Romero — Signature: _____

Certification No.: V/R A29899 Incon Cert#2053493760 — License. No.: 203029

Testing Company Name: Lemesnager Engineering — No.: (619) 300-6094

Testing Company Address: 8211 Santaluz Village Green N. San Diego Ca. 92127 — Date of Testing/Servicing: 1/23/09

D. Results of Testing/Servicing

Software Version Installed: 15.03

Complete the following checklist:

☑ Yes	☐ No*	Is the audible alarm operational?
☑ Yes	☐ No*	Is the visual alarm operational?
☑ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☑ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☑ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☑ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No.
☑ Yes	☐ No* ☐ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90 %
☑ Yes*	☐ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☑ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☑ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☑ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments: Overfill alarm annuciator not working, will return to repair.

Returned on 2-19-09 and replaced Interval timer on overfill alarm and tested good.

F. In-Tank Gauging / SIR Equipment:

☑ Check this box if tank gauging is used only for inventory control.
☐ Check this box if no tank gauging or SIR equipment is installed.

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☑ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☑ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☑ Yes	☐ No*	Was accuracy of system product level readings tested?
☑ Yes	☐ No*	Was accuracy of system water level readings tested?
☑ Yes	☐ No*	Were all probes reinstalled properly?
☑ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In the Section H, below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD):

☑ Check this box if LLDs are not installed.

Complete the following checklist:

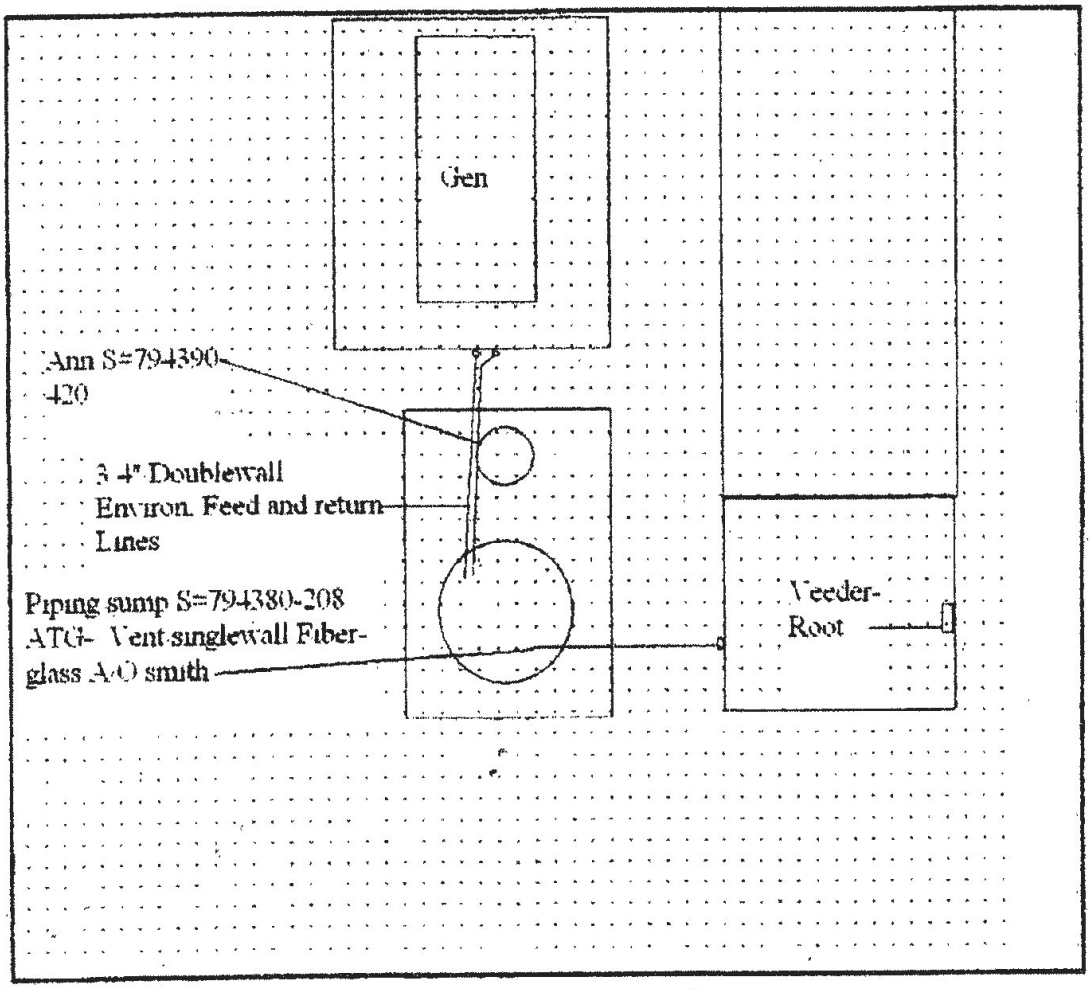
☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☐ 3 g.p.h.; ☐ 0.1 g.p.h ; ☐ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In the Section H, below, describe how and when these deficiencies were or will be corrected.**

H. Comments:

UST Monitoring Site Plan

Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/14/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

Spill Bucket Testing Report Form

This form is intended for use by contractors performing annual testing of UST spill containment structures. The completed form and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name:	Crime Lab	Date of Testing:	1-23-09
Facility Address:	5255 Mt. Etna San Diego Ca.		
Facility Contact:	Mike J.	Phone:	(
Date Local Agency Was Notified of Testing :			
Name of Local Agency Inspector *(if present during testing)*: Jessica P.			

2. TESTING CONTRACTOR INFORMATION

Company Name:	Lemesnager Eng:
Technician Conducting Test	James Romero
Credentials[1]:	☑ CSLB Contractor ☑ ICC Service Tech. ☐ SWRCB Tank Tester ☐ Other *(Specify)*
License Number(s):203029	

3. SPILL BUCKET TESTING INFORMATION

Test Method Used:	☑ Hydrostatic	☐ Vacuum	☐ Other	
Test Equipment Used:1 hr. visual			Equipment Resolution:	
Identify Spill Bucket *(By Tank Number, Stored Product, etc.)*	1Diesel	2	3	4
Bucket Installation Type:	☐ Direct Bury ☑ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump
Bucket Diameter	12"			
Bucket Depth:	15"			
Wait time between applying vacuum/water and start of test:	15 min			
Test Start Time (T_I):	9:25			
Initial Reading (R_I):	6"			
Test End Time (T_F):	10:25			
Final Reading (R_F):	6"			
Test Duration ($T_F - T_I$):	1 hr			
Change in Reading ($R_F - R_I$):	0			
Pass/Fail Threshold or Criteria:	No-loss			
Test Result:	☑ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technician's Signature: _____ Date: 1-23-09

[1] State laws and regulations do not currently require testing to be performed by a qualified contractor. However, local requirements may be more stringent.

SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH-CUPA
HAZARDOUS MATERIALS DIVISION
P.O. Box 129261, San Diego, CA 92112-9261
1-800-253-9933 (619) 338-2222 Fax (619) 338-2377

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:

The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a complete Hazardous Materials Business Plan (HMBP),** only after the initial submittal of a complete HMBP. The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must also annually certify that the HMBP is current and maintained on site. See Back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID# 3 7 0 0 0 1 1 4 2 6 1

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
SAN DIEGO SHERIFF'S CRIME LABORATORY

BUSINESS SITE ADDRESS 103
5255 MOUNT ETNA DRIVE

CITY 104 SAN DIEGO | CA | ZIP CODE 105 92117-6912

II. CERTIFICATION STATEMENT

☒ **CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES: This is an annual renewal to certify that the list of carcinogens and/or reproductive toxins last provided is a current list as specified in the San Diego County Code of Regulatory Ordinances Section 68.1113.** LIST ATTACHED

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☐ **ANNUAL CERTIFICATION WITHOUT CHANGES: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored.**

☒ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification. This submittal satisfies annual certification requirements specified in H&SC Section 25505(d)&(e)(2).**

As an Authorized Representative, I certify under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that : a)The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administrative Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE: Donald M. Tapper | DATE: February 23, 2009

NAME OF SIGNER (print): Don Tapper | TITLE OF SIGNER: Asst. Director of Forensic Services

CUPA USE ONLY

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☒ Site Map	3/11/09	*Note: Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted.
☐ *Emergency Contacts	___/___/___	
☐ *Chemical Inventory	___/___/___	

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map. A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐** FIRE DIST.____

Specialist's Signature: (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts) _____

REMARKS: _____

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

ATTENTION: HAZARDOUS MATERIALS HANDLER

Chapter 6.95 of the California Health & Safety Code (H&SC) establishes minimum standards for Hazardous Materials Business Plans (HMBP). Each business shall prepare a HMBP if that business uses, handles, or stores a hazardous material/waste in quantities greater than or equal to the following:

- 55 gallons of a liquid.
- 500 pounds of a solid substance.
- 200 cubic feet of compressed gas.
- A toxic compressed gas (TLV $\leq$ 10 ppm) in any amount.
- Extremely hazardous substances in quantities equal to or greater than the Threshold Planning Quantities.

A complete HMBP consists of the following elements as established in H&SC Section 25504:

- Hazardous Materials Inventory
- Site Plan
- List of Emergency Contacts
- Emergency Response Plan
- Employee Training Plan

The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency and with the concurrence of all the local fire jurisdictions, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, in lieu of a complete HMBP, only after the initial submittal of a complete HMBP.

The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored and must also annually certify that the HMBP is current and maintained on site.

Substantial changes as listed below must be submitted to the HMD within 30 days of the change along with a certification that the HMBP is current and maintained on site:

- **A 100% or greater increase or decrease in the quantity of any hazardous material on the inventory**
- **Addition or deletion of a hazardous material to the inventory**
- **Changes in the storage, location, or use of hazardous materials**
- **Any change in business name, ownership, or address**
- **Any change in Emergency Coordinator/Contact information**

Instructions for Completing the Hazardous Materials Business Plan Certification

Note: The numbering of the instructions follows the data element numbers that are on Statewide reporting forms. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C.

1. FACILITY ID NUMBER - Enter the 6 character Permit Number from your Permit. If you do not have a Permit, leave this blank.

3. BUSINESS NAME - Enter the full legal name of the business. This is the same as the terms "Facility Name" or "DBA" – Doing Business As.

103. BUSINESS SITE ADDRESS - Enter the street address where the facility is located. No post office box numbers are allowed.

104. CITY - Enter the city or unincorporated area in which business site is located.

105. ZIP CODE - Enter the zip code of business site. The extra 4-digit zip may also be added.

CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES - Any business which is required to submit a HMBP and handles a material which is a carcinogen or reproductive toxin, is required to submit a list of each such material handled during the previous year to the Director of the Department of Environmental Health. The list must include all carcinogens and reproductive toxins handled in quantities less than 55 gallons or 500 pounds. The list of such materials handled shall be renewed each year. Check this box to certify that the information previously submitted is still correct and no changes, additions or deletions are necessary. See http://www.sdcounty.ca.gov/deh/hmd/forms_hmd.html and review HM-9243 (Disclosure of Hazardous Materials Information Bulletin) to find out if you are required to submit this list.

INITIAL CERTIFICATION: Check this box if you are submitting a new HMBP.

ANNUAL CERTIFICATION WITHOUT CHANGES: Check this box if you are submitting an annual certification on an existing plan.

CERTIFICATION OF CHANGES/REVISIONS: Check this box if you are submitting changes to the hazardous materials inventory, list of emergency contacts, or the site plan. All pages should include the new submittal date. For multi-page site maps, include all pages with new submittal date.

scan to file # 114261. jp

Permit #: 114261 **Date: 2/23/2009**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: San Diego Sheriff's Crime Laboratory

Business Address: 5255 Mount Etna Drive, San Diego, CA 92117-6912

Business Owner or Operator: San Diego Sheriff's Department

Please complete the following by entering the chemical name in the chemical name column and then place a check ✓ in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check ✓ in the <1-gallon column.
(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal	<1 lb	<10 gal	<10 lbs	<55 gal	<500 lbs	Trade Secret
Acetaldehyde	☒	☐	☐	☐	☐	☐	☐
Alprazolam	☐	☒	☐	☐	☐	☐	☐
Anabolic steroids	☐	☒	☐	☐	☐	☐	☐
Aniline	☒	☐	☐	☐	☐	☐	☐
Barbiturates	☐	☒	☐	☐	☐	☐	☐
Benzene	☒	☐	☐	☐	☐	☐	☐
Benzidine-based dyes	☐	☒	☐	☐	☐	☐	☐
Benzodiazepines	☐	☒	☐	☐	☐	☐	☐
Benphetamine	☐	☒	☐	☐	☐	☐	☐
Bromoform	☒	☐	☐	☐	☐	☐	☐
Carbamazepine	☐	☒	☐	☐	☐	☐	☐
Carbon disulphide	☐	☐	☒	☐	☐	☐	☐
Carbon tetrachloride	☒	☐	☐	☐	☐	☐	☐
Chlordiazepoxide HCl	☐	☒	☐	☐	☐	☐	☐
Chloroform	☐	☐	☒	☐	☐	☐	☐
Cocaine	☐	☒	☐	☐	☐	☐	☐
Cyclohexane	☒	☐	☐	☐	☐	☐	☐
Diazepam	☐	☒	☐	☐	☐	☐	☐
1,2-Dichloroethane	☐	☐	☐	☒	☐	☐	☐
Dichloromethane	☐	☐	☒	☐	☐	☐	☐
3,3'-Dimethoxybenzidine	☐	☒	☐	☐	☐	☐	☐

Permit #: 114261 **Date: 2/23/2009**

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HAZARDOUS MATERIALS DIVISION
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(PLEASE NOTE: the symbol < means **less than).**

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Diphenylhydantoin	☐	☒	☐	☐	☐	☐	☐
Formaldehyde	☐	☐	☒	☐	☐	☐	☐
Halazepam	☐	☒	☐	☐	☐	☐	☐
Lead	☐	☐	☐	☒	☐	☐	☐
Lead compounds	☐	☒	☐	☐	☐	☐	☐
Lorazepam	☐	☒	☐	☐	☐	☐	☐
Mercury and mercury compounds	☐	☐	☐	☒	☐	☐	☐
Methyltestosterone	☐	☒	☐	☐	☐	☐	☐
Nicotine	☐	☒	☐	☐	☐	☐	☐
Oxazepam	☐	☒	☐	☐	☐	☐	☐
Oxymetholone	☐	☒	☐	☐	☐	☐	☐
Pentobarbital sodium	☐	☒	☐	☐	☐	☐	☐
Phenacetin	☐	☒	☐	☐	☐	☐	☐
Phenobarbital	☐	☒	☐	☐	☐	☐	☐
Phenolphthalein	☒	☐	☐	☐	☐	☐	☐
Phenolphthalein	☐	☒	☐	☐	☐	☐	☐
Primidone	☐	☒	☐	☐	☐	☐	☐
Pyridine	☒	☐	☐	☐	☐	☐	☐
Secobarbital	☐	☒	☐	☐	☐	☐	☐
Stanozolol	☐	☒	☐	☐	☐	☐	☐
Temazepam	☐	☒	☐	☐	☐	☐	☐

Permit #: 114261 **Date: 2/23/2009**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

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(PLEASE NOTE: the symbol < means **less than).**

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Testosterone and its esters	☐	☒	☐	☐	☐	☐	☐
Testosterone enanthate	☐	☒	☐	☐	☐	☐	☐
Toluene	☐	☐	☒	☐	☐	☐	☐
Trichloroethylene	☒	☐	☐	☐	☐	☐	☐
==========	☐	☐	☐	☐	☐	☐	☐
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Fill 1142161

Kiva comm made 12/16/09

State of California
State Water Resources Control Board
Division of Financial Assistance
P.O. Box 944212
Sacramento, CA 94244-2121
(Instructions on reverse side)

For State Use Only

CERTIFICATION OF FINANCIAL RESPONSIBILITY

FOR UNDERGROUND STORAGE TANKS CONTAINING PETROLEUM

A. I am required to demonstrate Financial Responsibility in the required amounts as specified in California Code of Regulations (CCR), Title 23, Division 3, Chapter 18, Section 2807,

[X] 500,000 dollars per occurrence or [ ] 1 million dollars per occurrence AND [X] 1 million dollars annual aggregate or [ ] 2 million dollars annual aggregate

B. County of San Diego *hereby certifies that it is in compliance with the requirements of Section 2807,*
(Name of Tank Owner or Operator)
California Code of Regulations, Title 23, Division 3, Chapter 18, Article 3, Section 2807.
The mechanisms used to demonstrate financial responsibility as required by Section 2807 are as follows:

C. Mechanism Type	Name and Address of Issuer	Mechanism Number	Coverage Amount	Coverage Period	Corrective Action	Third Party Comp.
Government guarantee	1600 Pacific Hwy San Diego, CA 92101	N/A for this Mechanism	$500K per occurance $1Mil annual aggregate	Annual	Yes	Yes
Chief Financial Officer Letter	1600 Pacific Hwy San Diego, CA 92101	N/A for this mechanism	$500K per occurance $1Mil annual aggregate	Annual	Yes	Yes

Note:

Note: If you are using the State Fund as any part of your demonstration of financial responsibility, your execution and submission of this certification also certifies that you are in compliance and shall maintain compliance with all conditions for participation in the Fund. See instructions.

D. Facility Name	Facility Address
See attachments	See attachments
Facility Name	Facility Address
Facility Name	Facility Address

E. Signature of Tank Owner or Operator	Date	Name and Title of Tank Owner or Operator
[signature]	11/12/09	April Heinze Director Dept of Gen. Serv.
Signature of Witness or Notary	Date	Name of Witness or Notary
[signature]	11/12/09	Vicki Rajsky

CFR (Revised 11/08) FILE: Original - Local Agency Copies - Facility/Site(s)

CPN	PERMIT	FUEL	LOCATION	Annual	Secondary
0047	123025	Diesel	South Bay Regional Center 4-8-09 500 3rd Ave. 399009 Chula Vista, Ca. 91910	4/28/2009	6/25/2008
0072	120813	Diesel	Las Colinas Detention 8-4-08 9000 Cottonwood Ave. Santee, CA. 92041	8/4/2009	7/30/2008
0086	210568	Diesel	County Operations Center 5555 Overland Ave. 8/25/09 San Diego CA. 92123	7/8/2009	5/27/2009
0087	129820	Diesel	NCRC Regional 10-30-08 325 S. Melrose 343735 Vista, CA. 92083	11/18/2009	12/5/2008
0090	132347	Diesel	San Diego Central Jail 3-24-09 1173 Front St. San Diego CA. 92101	4/14/2009	1/27/2009
0348	202823	Diesel	East Mesa Juvenile Detention 446 Alta Rd. 3-24-09 San Diego Ca. 92154	4/21/2009	12/18/2008
0350	121047	Diesel	C.A.C. 4-22-09 1600 Pacific Highway 000000 San Diego, CA. 92101	4/27/2009	12/12/2008
0392	126500	Diesel	S.D. County Phyciatric Hospital 3853 Rosecrans Ave. 017950 San Diego Ca. 92110 3-25-09	2/9/2009	12/11/2008
0395	114261	Diesel	Sheriff Crime Lab 4-15-09 5255 Mount Etna San Diego, CA. 92117	1/23/2009	11/14/2008
2031	105234	Jet A	Gillespie Field Astrea 3-12-08 1745 N. Marshall Ave. #2068 El Cajon, CA. 92020	1/16/2009	12/23/2008

COUNTY OF SAN DIEGO

INTER-DEPARTMENTAL CORRESPONDENCE

January 6, 2009

TO: Gary W. Erbeck, Director
Department of Environmental Health

FROM: Donald F. Steuer
Chief Financial Officer

MUNICIPAL FINANCIAL TEST DEMONSTRATING FINANCIAL RESPONSIBILITY FOR UNDERGROUND STORAGE TANKS BASED ON THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2008

Pursuant to Federal Regulation 40 CFR 280.105 (c), this letter is in support of the use of the local governmental financial test to demonstrate financial responsibility for taking corrective action and/or compensating third parties for bodily injury and property damage caused by sudden accidental releases and/or non-sudden accidental releases in the amount of at least $500,000 per occurrence and $1 million annual aggregate arising from operating underground storage tanks (see worksheet for Municipal Financial Test, Attachment A).

A listing of underground storage tank facilities that are assured by this financial test is included on Attachment B.

The County of San Diego has not received an adverse opinion, or a disclaimer of opinion, from an independent auditor on its financial statements for the latest completed fiscal year.

If you have any questions, please contact Shirley Carrero, Manager of Central Projects and Accounting Services at (619) 531-5050.

DONALD F. STEUER
Chief Financial Officer

CPAS:SAC:lr

Attachments

c: Michael P. Dorsey, Chief, Environmental Health
John A. Clements, Manager, Fleet Maintenance Support

COUNTY OF SAN DIEGO

INTER-DEPARTMENTAL CORRESPONDENCE

January 6, 2009

TO: Gary W. Erbeck, Director
Department of Environmental Health

FROM: Donald F. Steuer
Chief Financial Officer

CHIEF FINANCIAL OFFICER LETTER REGARDING FINANCIAL RESPONSIBILITY FOR UNDERGROUND STORAGE TANKS (UST) BASED ON THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2008

The attached annual Chief Financial Officer letter demonstrating the County's financial responsibility for maintaining Underground Storage Tanks (UST) is submitted to the Department of Environmental Health pursuant to Title 40, Code of Federal Regulations (CFR), Part 280, Subpart H, Section 280.93.

The aforementioned federal regulations requires all owners and operators to show, through an approved method, their ability to pay for potential cleanup and third party damages resulting from accidental releases from their USTs. To demonstrate financial responsibility, the County of San Diego uses the approved local government financial test, pursuant to Title 40, CFR Section 280.105. In this regard, this report is submitted to your office in your capacity as the regulator in this area for the County of San Diego.

As shown in the attached report, the County currently owns and operates 30 underground tanks that are used to store gasoline and diesel fuel at various County facilities. Financial responsibility means that money will be available to meet potential cleanup costs or third party lawsuits resulting from leaking USTs.

The County successfully passed the test with a score of 2.373 (it must be greater than zero). Assumptions in the calculations, for which we received authorization from the Environmental Protection Agency, may include netting advance refundings of County debt and excluding certain Federal and State revenues with no matching local fund requirements.

As evidence that this procedure has been satisfactorily completed, copies of this letter are provided to the Department of General Services, Fleet Management, to post at all of the UST sites.

If you have any questions, please contact Shirley Carrero, Manager of Central Projects and Accounting Services at (619) 531-5050.

DONALD F. STEUER
Chief Financial Officer

AFC:CPG:lr

Attachments

COUNTY OF SAN DIEGO
WORKSHEET FOR MUNICIPAL FINANCIAL TEST
Year Ended June 30, 2008
(in Thousands *)

Part I: Basic Information		
1. Total Revenues		
a. Revenues	4,411,934	*
b. Subtract interfund transfers	597,545	*
c. Total Revenues	3,814,389	*
2. Total Expenditures		
a. Expenditures	4,395,550	*
b. Subtract Interfund Transfers	597,996	*
c. Total Expenditures	3,797,554	*
3. Local Revenues		
a. Total Revenues (from 1c)	3,814,389	*
b. Subtract intergovernmental transfers	2,165,015	*
c. Local Revenues	1,649,374	*
4. Debt Service		
a. Interest and fiscal charges	69,471	*
b. Add debt retirement	207,713	*
c. Total Debt Service	277,184	*
5. Total Funds	1,586,176	*
6. Population	3,146	*
Part II: Application of Test		
7. Total Revenues to Population		
a. Total Revenues (from 1c)	3,814,389	*
b. Population (from 6)	3,146	*
c. Divide 7a by 7b	1,212.457	
d. Subtract 417	795.457	
e. Divide by 5,212	0.153	
f. Multiply by 4.095	0.625	
8. Total Expenses to Population		
a. Total Expenses (from 2c)	3,797,554	*
b. Population (from 6)	3,146	*
c. Divide 8a by 8b	1,207.106	
d. Subtract 524	683.106	
e. Divide by 5,401	0.126	
f. Multiply by 4.095	0.518	
9. Local Revenues to Total Revenues		
a. Local Revenues (from 3c)	1,649,374	*
b. Total Revenues (from 1c)	3,814,389	*
c. Divide 9a by 9b	0.432	
d. Subtract .695	(0.263)	
e. Divide by .205	(1.281)	
f. Multiply by 2.840	(3.638)	
10. Debt Service to Population		
a. Debt Service (from 4c)	277,184	*
b. Population (from 6)	3,146	*
c. Divide 10a by 10b	88.107	
d. Subtract 51	37.107	
e. Divide by 1,038	0.036	
f. Multiply by -1.866	(0.067)	

11. Debt Service to Total Revenues		
a. Debt Service (from 4c)	277,184	*
b. Total Revenues (from1c)	3,814,389	*
c. Divide 11a by 11b	0.073	
d. Subtract .068	0.005	
e. Divide by .259	0.018	
f. Multiply by -3.533	(0.064)	
12. Total Revenues to Total Expenses		
a. Total Revenues (from 1c)	3,814,389	*
b. Total Expenses (from 2c)	3,797,554	*
c. Divide 12a by 12b	1.004	
d. Subtract .910	0.094	
e. Divide by .899	0.105	
f. Multiply by 3.458	0.363	
13. Funds Balance to Total Revenues		
a. Total Funds (from 5)	1,586,176	*
b. Total Revenues (from 1c)	3,814,389	*
c. Divide 13a by 13b	0.416	
d. Subtract .891	(0.475)	
e. Divide by 9.156	(0.052)	
f. Multiply by 3.270	(0.170)	
14. Funds Balance to Total Expenses		
a. Total funds (from 5)	1,586,176	*
b. Total Expenses (from 2c)	3,797,554	*
c. Divide 14a by 14b	0.418	
d. Subtract .866	(0.448)	
e. Divide by 6.409	(0.070)	
f. Multiply by 3.270	(0.229)	
15. Total Funds to Population		
a. Total Funds (from 5)	1,586,176	*
b. Population (from 6)	3,146	*
c. Divide 15a by 15b	504.188	
d. Subtract 270	234.188	
e. Divide by 4,548	0.051	
f. Multiply by 1.866	0.096	
16. Add 7f + 8f + 9f + 10f + 11f + 12f + 13f + 14f + 15f + 4.937	2.373	

I hereby certify that the financial index shown on line 16 of the worksheet is greater than zero and that the wording of this letter is identical to the wording specified in 40 CFR Part 280.105(c) as such regulations were constituted on the date shown immediately below.

DONALD F. STEUER
Chief Financial Officer

Date

Scan to file # 114261. JP

Appendix VI

(Copies of Monitoring System Certification form and UST Monitoring Plot Plan available at http://www.waterboards.ca.gov.)

MONITORING SYSTEM CERTIFICATION

For Use By All Jurisdictions Within the State of California

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

A. General Information

Facility Name: Crime Lab — Bldg. No.: _____

Site Address: 5255 Mt. Etna — City: San Diego — Zip: _____

Facility Contact Person: Mike J. — Contact Phone No.: (_____)_____

Make/Model of Monitoring System: Veeder-Root TLS-300 C — Date of Testing/Servicing: 1/23/09

B. Inventory of Equipment Tested/Certified

Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: Diesel 4,000 Emergency Gen ☑ In-Tank Gauging Probe. Model: 847390-107 ☑ Annular Space or Vault Sensor. Model: 794390-420 ☑ Piping Sump / Trench Sensor(s). Model: 794380-208 ☐ Fill Sump Sensor(s). Model: _____ ☐ Mechanical Line Leak Detector. Model: _____ ☐ Electronic Line Leak Detector. Model: _____ ☑ Tank Overfill / High-Level Sensor. Model: V/R 790091-001 ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID:** _____ ☐ In-Tank Gauging Probe. Model: _____ ☐ Annular Space or Vault Sensor. Model: _____ ☐ Piping Sump / Trench Sensor(s). Model: _____ ☐ Fill Sump Sensor(s). Model: _____ ☐ Mechanical Line Leak Detector. Model: _____ ☐ Electronic Line Leak Detector. Model: _____ ☐ Tank Overfill / High-Level Sensor. Model: _____ ☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID: _____ ☐ In-Tank Gauging Probe. Model: _____ ☐ Annular Space or Vault Sensor. Model: _____ ☐ Piping Sump / Trench Sensor(s). Model: _____ ☐ Fill Sump Sensor(s). Model: _____ ☐ Mechanical Line Leak Detector. Model: _____ ☐ Electronic Line Leak Detector. Model: _____ ☐ Tank Overfill / High-Level Sensor. Model: _____ ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID:** _____ ☐ In-Tank Gauging Probe. Model: _____ ☐ Annular Space or Vault Sensor. Model: _____ ☐ Piping Sump / Trench Sensor(s). Model: _____ ☐ Fill Sump Sensor(s). Model: _____ ☐ Mechanical Line Leak Detector. Model: _____ ☐ Electronic Line Leak Detector. Model: _____ ☐ Tank Overfill / High-Level Sensor. Model: _____ ☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID: _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s	**Dispenser ID:** _____ ☐ Dispenser Containment Sensor(s). Model: _____ ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. **Certification - I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report; *(check all that apply)*:** ☑ System set-up ☑ Alarm history report

Technician Name (print): James Romero — Signature: _____

Certification No.: V/R A29899 Incon Cert#2053493760 — License. No.: 203029

Testing Company Name: Lemesnager Engineering — No.: (619) 300-6094

Testing Company Address: 8211 Santaluz Village Green N. San Diego Ca, 92127 — Date of Testing/Servicing: 1/23/09

D. Results of Testing/Servicing

Software Version Installed: 15.03

Complete the following checklist:

☑ Yes	☐ No*	Is the audible alarm operational?
☑ Yes	☐ No*	Is the visual alarm operational?
☑ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☑ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☑ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☑ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No.
☐ Yes	☐ No* ☐ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90 %
☐ Yes*	☐ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☑ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☑ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☑ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments: Overfill alarm annuciator not working, will return to repair.

F. In-Tank Gauging / SIR Equipment:

☐ Check this box if tank gauging is used only for inventory control.
☐ Check this box if no tank gauging or SIR equipment is installed.

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☑ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☑ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☑ Yes	☐ No*	Was accuracy of system product level readings tested?
☑ Yes	☐ No*	Was accuracy of system water level readings tested?
☑ Yes	☐ No*	Were all probes reinstalled properly?
☑ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In the Section H, below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD):

☐ Check this box if LLDs are not installed.

Complete the following checklist:

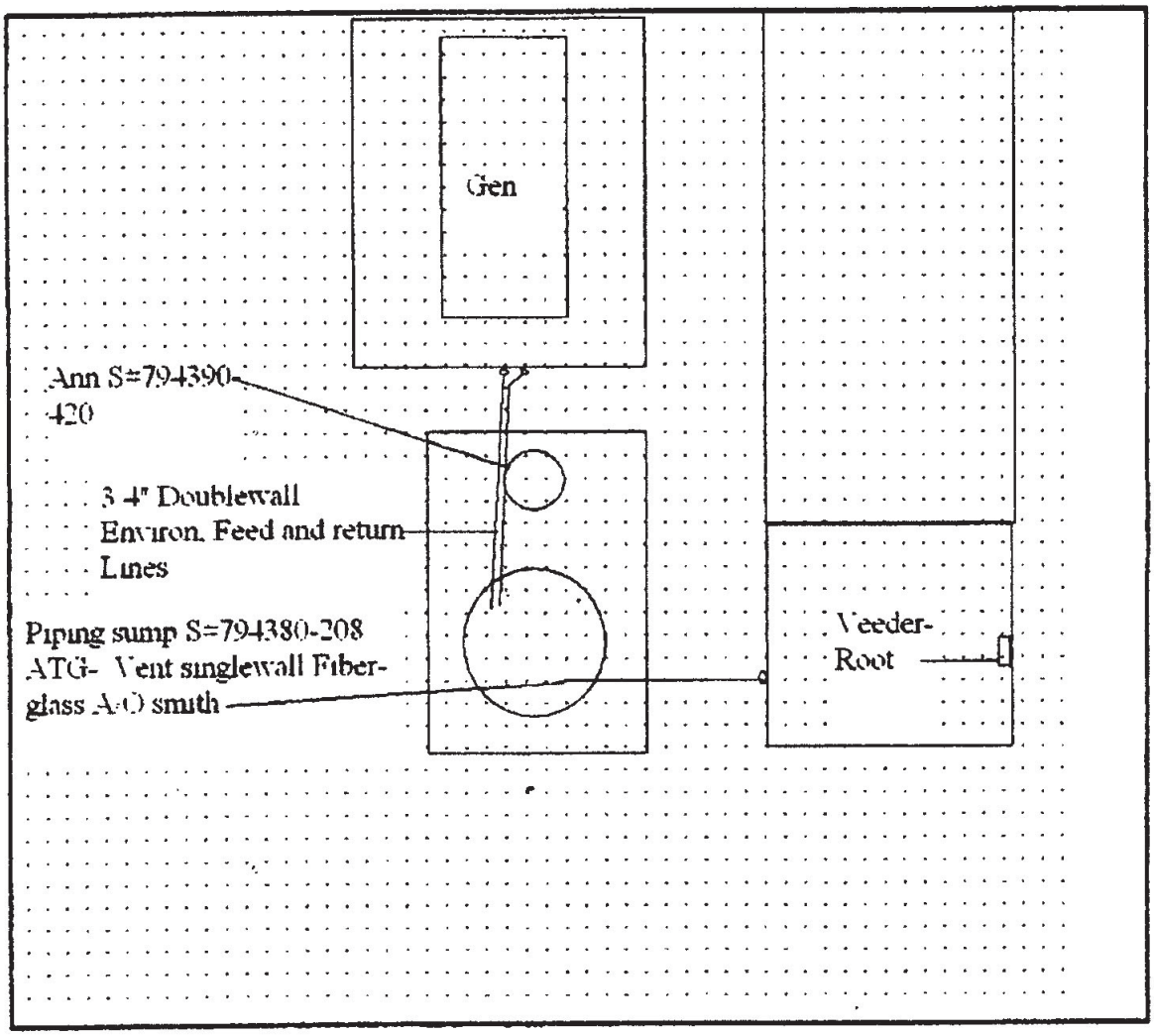
☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☐ 3 g.p.h.; ☐ 0.1 g.p.h ; ☐ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In the Section H, below, describe how and when these deficiencies were or will be corrected.**

H. Comments:

UST Monitoring Site Plan

Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/19/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

Spill Bucket Testing Report Form

This form is intended for use by contractors performing annual testing of UST spill containment structures. The completed form and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name:	Crime Lab	Date of Testing:	1-23-09
Facility Address:	5255 Mt. Etna San Diego Ca,		
Facility Contact:	Mike J.	Phone:	(
Date Local Agency Was Notified of Testing :			
Name of Local Agency Inspector *(if present during testing)*: Jessica P.			

2. TESTING CONTRACTOR INFORMATION

Company Name:	Lemesnager Eng:
Technician Conducting Test	James Romero
Credentials[1]:	☑ CSLB Contractor ☑ ICC Service Tech. ☐ SWRCB Tank Tester ☐ Other *(Specify)*
License Number(s):203029	

3. SPILL BUCKET TESTING INFORMATION

Test Method Used:	☑ Hydrostatic	☐ Vacuum	☐ Other	
Test Equipment Used: 1 hr. visual			Equipment Resolution:	
Identify Spill Bucket *(By Tank Number, Stored Product, etc.)*	1Diesel	2	3	4
Bucket Installation Type:	☐ Direct Bury ☑ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump
Bucket Diameter	12"			
Bucket Depth:	15"			
Wait time between applying vacuum/water and start of test:	15 min			
Test Start Time (T_I):	9:25			
Initial Reading (R_I):	6"			
Test End Time (T_F):	10:25			
Final Reading (R_F):	6"			
Test Duration ($T_F - T_I$):	1 hr			
Change in Reading ($R_F - R_I$):	0			
Pass/Fail Threshold or Criteria:	No-loss			
Test Result:	☑ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technician's Signature: _____ Date: 1-23-09

[1] State laws and regulations do not currently require testing to be performed by a qualified contractor. However, local requirements may be more stringent.

SYSTEM SETUP
- - - - - - - - - - - - -
JAN 23. 2009 10:58 AM

SYSTEM UNITS
U.S.
SYSTEM LANGUAGE
ENGLISH
SYSTEM DATE/TIME FORMAT
MON DD YYYY HH:MM:SS xM

COUNTY OF SAN DIEGO
CRIME LAB
5255 MT.ETNA DR.

SHIFT TIME 1 : DISABLED
SHIFT TIME 2 : DISABLED
SHIFT TIME 3 : DISABLED
SHIFT TIME 4 : DISABLED

TANK PERIODIC WARNINGS
DISABLED
TANK ANNUAL WARNINGS
DISABLED
LINE PERIODIC WARNINGS
DISABLED
LINE ANNUAL WARNINGS
DISABLED

PRINT TC VOLUMES
ENABLED

TEMP COMPENSATION
VALUE (DEG F): 60.0
STICK HEIGHT OFFSET
DISABLED

H-PROTOCOL DATA FORMAT
HEIGHT
DAYLIGHT SAVING TIME
ENABLED
START DATE
APR WEEK 1 SUN
START TIME
2:00 AM
END DATE
OCT WEEK 6 SUN
END TIME
2:00 AM

RE-DIRECT LOCAL PRINTOUT
DISABLED

SYSTEM SECURITY
CODE : 000000

COMMUNICATIONS SETUP
- - - - - - - - - - - - - - -

PORT SETTINGS:

COMM BOARD : 2 (RS-232)
BAUD RATE : 1200
PARITY : ODD
STOP BIT : 1 STOP
DATA LENGTH: 7 DATA

AUTO TRANSMIT SETTINGS:

AUTO LEAK ALARM LIMIT
DISABLED
AUTO HIGH WATER LIMIT
DISABLED
AUTO OVERFILL LIMIT
DISABLED
AUTO LOW PRODUCT
DISABLED
AUTO THEFT LIMIT
DISABLED
AUTO DELIVERY START
DISABLED
AUTO DELIVERY END
DISABLED
AUTO EXTERNAL INPUT ON
DISABLED
AUTO EXTERNAL INPUT OFF
DISABLED
AUTO SENSOR FUEL ALARM
DISABLED
AUTO SENSOR WATER ALARM
DISABLED
AUTO SENSOR OUT ALARM
DISABLED

RS-232 SECURITY
CODE : 000000

RS-232 END OF MESSAGE
DISABLED

IN-TANK SETUP
- - - - - - - - - - - - - -

T 1:DIESEL
PRODUCT CODE : 1
THERMAL COEFF : .000450
TANK DIAMETER : 95.00
TANK PROFILE : 1 PT
FULL VOL : 4000

FLOAT SIZE: 4.0 IN. 8496

WATER WARNING : 2.5
HIGH WATER LIMIT: 3.0

MAX OR LABEL VOL: 4000
OVERFILL LIMIT : 90%
: 3600
HIGH PRODUCT : 95%
: 3800
DELIVERY LIMIT : 5%
: 200

LOW PRODUCT : 200
LEAK ALARM LIMIT: 99
SUDDEN LOSS LIMIT: 99
TANK TILT : 0.00

MANIFOLDED TANKS
T#: NONE

LEAK MIN PERIODIC: 25%
: 1000

LEAK MIN ANNUAL : 25%
: 1000

PERIODIC TEST TYPE
STANDARD

ANNUAL TEST FAIL
ALARM DISABLED

PERIODIC TEST FAIL
ALARM DISABLED

GROSS TEST FAIL
ALARM DISABLED

ANN TEST AVERAGING: OFF
PER TEST AVERAGING: OFF

TANK TEST NOTIFY: OFF

TNK TST SIPHON BREAK:OFF

DELIVERY DELAY : 1 MIN

LEAK TEST METHOD
- - - - - - - - - - - - -
TEST MONTHLY : ALL TANK
WEEK 1 MON
START TIME : 12:00 AM
TEST RATE :0.20 GAL/HR
DURATION : 2 HOURS

LEAK TEST REPORT FORMAT
NORMAL

LIQUID SENSOR SETUP
- - - - - - - - - - - - - -

L 1:DSL-ANN.
TRI-STATE (SINGLE FLOAT)
CATEGORY : ANNULAR SPACE

L 2:DSL-FILL PIPE
TRI-STATE (SINGLE FLOAT)
CATEGORY : PIPING SUMP

EXTERNAL INPUT SETUP
- - - - - - - - - - - - - - -
NONE

OUTPUT RELAY SETUP
- - - - - - - - - - - - - - -

R 1:OVERFILL ALARM
TYPE:
  STANDARD
NORMALLY OPEN

IN-TANK ALARMS
 ALL:OVERFILL ALARM
 ALL:HIGH PRODUCT ALARM
 ALL:MAX PRODUCT ALARM

SOFTWARE REVISION LEVEL
VERSION 15.01
SOFTWARE# 346015-100-B
CREATED - 97.10.23.08.56

S-MODULE# 330161-001-A
SYSTEM FEATURES:
  PERIODIC IN-TANK TESTS
  ANNUAL IN-TANK TESTS
  0.20 GAL/HR PLLD
  PRECISION TEST SPECIAL

ALARM HISTORY REPORT

---- IN-TANK ALARM -----

T 1:DIESEL .

SETUP DATA WARNING
JAN 1, 1996 8:32 AM

OVERFILL ALARM
JAN 23, 2009 10:48 AM
JAN 23, 2009 10:42 AM
JAN 23, 2009 10:32 AM

INVALID FUEL LEVEL
JAN 23, 2009 10:16 AM
JAN 24, 2008 10:14 AM
JAN 25, 2007 9:16 AM

PROBE OUT
JAN 23, 2009 10:15 AM
JAN 24, 2008 10:16 AM
JAN 24, 2008 10:13 AM

HIGH WATER WARNING
JAN 23, 2009 10:22 AM

LOW TEMP WARNING
JAN 25, 2007 9:39 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

----- SENSOR ALARM -----
L 1:DSL-ANN.
ANNULAR SPACE
FUEL ALARM
JAN 23, 2009 10:09 AM

FUEL ALARM
NOV 14, 2008 10:12 AM

FUEL ALARM
JAN 24, 2008 10:05 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

----- SENSOR ALARM -----
L 2:DSL-FILL PIPE
PIPING SUMP
FUEL ALARM
JAN 23, 2009 10:14 AM

FUEL ALARM
NOV 14, 2008 10:13 AM

FUEL ALARM
JAN 24, 2008 10:09 AM

* * * * * END * * * * *

send to file # 114261. JP

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION

P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK
OPERATING PERMIT APPLICATION – TANK INFORMATION

(One form per UST)

TYPE OF ACTION (Check one item only. For an UST permanent closure or removal, complete only this section and Sections I, II, III, IV, and IX below) 430
☐ 1. NEW PERMIT ☒ 3. RENEWAL PERMIT ☐ 5. CHANGE OF INFORMATION
☐ 6. TEMPORARY UST CLOSURE ☐ 7. UST PERMANENT CLOSURE ON SITE ☐ 8. UST REMOVAL

DATE UST PERMANENTLY CLOSED: 430a | DATE EXISTING UST DISCOVERED: 430b

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3: County of San Diego, Sheriff Crime Lab
FACILITY ID # 1: 37-000-114261

BUSINESS SITE ADDRESS 103: 5255 Mt. Etna Drive
CITY 104: San Diego
CA
ZIP CODE 105: 92117-

II. TANK DESCRIPTION

TANK ID # 432: 001
TANK MANUFACTURER 433: Modern Welding
TANK CONFIGURATION: THIS TANK IS 434: ☒ 1. A STAND-ALONE TANK ☐ 2. ONE IN A COMPARTMENTED UNIT. Complete one page for each compartment in the unit.
DATE UST SYSTEM INSTALLED 435:
TANK CAPACITY IN GALLONS 436: 4,000
NUMBER OF COMPARTMENTS IN THE UNIT 437: 1

III. TANK USE AND CONTENTS

TANK USE 439: ☐ 1a. MOTOR VEHICLE FUELING ☐ 1b. MARINA FUELING ☐ 1c. AVIATION FUELING ☒ 5. EMERGENCY GENERATOR FUEL [HSC §25281.5(c)] ☐ 3. CHEMICAL PRODUCT STORAGE ☐ 4. HAZARDOUS WASTE (Includes Used Oil) ☐ 6. OTHER GENERATOR FUEL ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 439a

CONTENTS 440: PETROLEUM: ☐ 1a. REGULAR UNLEADED ☐ 1c. MIDGRADE UNLEADED ☐ 1b. PREMIUM UNLEADED ☒ 3. DIESEL ☐ 5. JET FUEL ☐ 6. AVIATION GAS ☐ 8. PETROLEUM BLEND FUEL ☐ 9. OTHER PETROLEUM (Specify): 440a
NON-PETROLEUM: ☐ 7. USED OIL ☐ 10. ETHANOL ☐ 11. OTHER NON-PETROLEUM (Specify): 440b

IV. TANK CONSTRUCTION

TYPE OF TANK 443: ☐ 1. SINGLE WALL ☒ 2. DOUBLE WALL ☐ 95. UNKNOWN
PRIMARY CONTAINMENT 444: ☐ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. INTERNAL BLADDER ☐ 7. STEEL + INTERNAL LINING ☐ 95. UNKNOWN ☒ 99. OTHER (Specify): steelclad w/frp 444a
SECONDARY CONTAINMENT 445: ☒ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. EXTERIOR MEMBRANE LINER ☐ 7. JACKETED ☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 445a
OVERFILL PREVENTION 452: ☒ 1. AUDIBLE & VISUAL ALARMS ☒ 2. BALL FLOAT ☐ 3. FILL TUBE SHUT-OFF VALVE ☐ 4. TANK MEETS REQUIREMENTS FOR EXEMPTION FROM OVERFILL PREVENTION EQUIPMENT

V. PRODUCT / WASTE PIPING CONSTRUCTION

PIPING CONSTRUCTION 460: ☐ 1. SINGLE-WALLED ☒ 2. DOUBLE-WALLED ☐ 99. OTHER
SYSTEM TYPE 458: ☐ 1. PRESSURE ☐ 2. GRAVITY ☒ 3. CONVENTIONAL SUCTION ☐ 4. SAFE SUCTION [23 CCR §2636(a)(3)]
PRIMARY CONTAINMENT 464: ☐ 1. STEEL ☐ 4. FIBERGLASS ☒ 8. FLEXIBLE ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464a
SECONDARY CONTAINMENT 464b: ☐ 1. STEEL ☐ 4. FIBERGLASS ☒ 8. FLEXIBLE ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464c
PIPING/TURBINE CONTAINMENT SUMP TYPE 464d: ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE

VI. VENT, VAPOR RECOVERY (VR) AND RISER / FILL PIPE PIPING CONSTRUCTION

VENT PRIMARY CONTAINMENT	☒ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify)	464e 464e1
VENT SECONDARY CONTAINMENT	☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90. NONE ☐ 99. OTHER (Specify)	464f 464f1
VR PRIMARY CONTAINMENT	☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90. NONE ☐ 99. OTHER (Specify)	464g 464g1
VR SECONDARY CONTAINMENT	☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90. NONE ☐ 99. OTHER (Specify)	464h 464h1
VENT PIPING TRANSITION SUMP TYPE	☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE	464i
RISER PRIMARY CONTAINMENT	☒ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify)	464j 464j1
RISER SECONDARY CONTAINMENT	☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify)	464k 464k1
FILL COMPONENTS INSTALLED	☒ 1. SPILL BUCKET ☒ 3. STRIKER PLATE/BOTTOM PROTECTOR ☐ 4. CONTAINMENT SUMP	451a-c

VII. UNDER DISPENSER CONTAINMENT (UDC)

CONSTRUCTION TYPE 469a: ☐ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☒ 3. NO DISPENSERS ☐ 90. NONE
CONSTRUCTION MATERIAL 469b-c: ☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 99. OTHER (Specify)

VIII. CORROSION PROTECTION

STEEL COMPONENT PROTECTION 448: ☐ 2. SACRIFICIAL ANODE(S) ☐ 4. IMPRESSED CURRENT ☐ 6. ISOLATION

IX. APPLICANT SIGNATURE

CERTIFICATION: I certify that this UST system is compatible with the hazardous substance stored and that the information provided herein is true, accurate, and in full compliance with legal requirements.

APPLICANT SIGNATURE
DATE 470: 1/23/2009
APPLICANT NAME (print) 471: Kenneth M. Johnson
APPLICANT TITLE 472: Senior Plumber / Dso

UST Operating Permit Application – Tank Information Instructions

(Formerly SWRCB Permit Application Form B)

Complete a separate form for each UST for all new permits, permit changes, and any UST system information changes. This form must be submitted within 30 days of permit or UST system information changes, unless your local agency requires approval prior to making changes. For tanks that are part of a compartmentalized unit, each compartment is considered a separate tank and requires completion of a separate Tank Information form. For a UST permanent closure or removal, complete only TYPE OF ACTION and Sections I, II, III, IV, and IX. (Note: Numbering of these instructions matches the data element numbers on the form.)

430. TYPE OF ACTION – Check the appropriate box to indicate why this form is being submitted.
430a. DATE UST PERMANENTLY CLOSED – For reporting closure only: enter the date the UST was removed or closed on site.
430b. DATE EXISTING UST DISCOVERED – Enter the date this UST was discovered. Leave blank if installation date is known.
1. FACILITY ID NUMBER – This space is for agency use only.
3. BUSINESS NAME – Enter the complete facility name.
103. BUSINESS SITE ADDRESS – Enter the street address of the facility, including building number, if applicable. This address must be the physical location of the facility. Post office box numbers are not acceptable.
104. CITY – Enter the city or unincorporated area in which the facility is located.
105. ZIP CODE – Enter the zip code of business site. The zip + 4 may also be added.
432. TANK ID # –Applicant may enter the owner's tank identification number or leave this space blank. The Local Agency will assign the State tank identification number as the unique identifier for the tank.
433. TANK MANUFACTURER – Enter the name of the company that manufactured the tank.
434. TANK CONFIGURATION. Check the appropriate box to indicate if the tank is a stand-alone tank or one in a compartmented unit. A separate UST Operating Permit Application – Tank Information form must be submitted for each compartment.
435. DATE UST SYSTEM INSTALLED – Enter the date the local agency signed-off on installation of the UST system. This is the date of initial tank system installation, and does not include upgrades or retrofits which may have been performed later. If this is for a new installation, leave blank.
436. TANK CAPACITY IN GALLONS: Enter the tank capacity. For compartmentalized tanks, enter data for the compartment covered by this tank form only.
437. NUMBER OF COMPARTMENTS IN THE UNIT: If the tank is a compartment, enter the total number of compartments in the unit.
439. TANK USE – Check the type of tank usage.
439a. If you checked "Other" specify the type of tank usage in the space provided.
440. TANK CONTENTS – Check the specific petroleum or non-petroleum substance stored.
440a. If you checked "Other Petroleum" specify the common name of the substance in the space provided [i.e., the name used in the facility's Hazardous Materials Business Plan (HMBP) inventory].
440b. If you checked "Other" under Non-petroleum, specify the common name of substance in the space provided (i.e., the name used in the HMBP inventory).
443. TYPE OF TANK – Check the box that identifies the type of tank.
444. TANK PRIMARY CONTAINMENT – Check the construction material of the primary containment (i.e., inner tank wall nearest the hazardous substance stored). If the tank material is not listed, check "Other" and specify the material in the space provided.
444a. If you checked "Other" specify the type of primary containment in the space provided.
445. TANK SECONDARY CONTAINMENT – Check the construction material of the secondary containment that provides containment external to, and separate from, the primary containment described above. If the tank is a single-wall tank, check "None." If the material is not listed, check "Other" and specify the material in the space provided (e.g., HDPE).
445a. If you checked "Other" specify the type of secondary containment in the space provided.
452 OVERFILL PREVENTION – Check the box(es) to describe the type(s) of overfill protection equipment installed.
458. PIPING SYSTEM TYPE – Check the type of product/waste piping installed in this tank system. "Safe suction" refers to piping systems meeting all requirements of 23 CCR §2636(a)(3) (also known as "European Suction" systems) (i.e., sloped suction piping systems with no valves or pumps below grade and only one check valve, located below and as close as practical to the suction pump). Title 23, California Code of Regulations is available online at www.calregs.com.
460. PIPING CONSTRUCTION-Indicate if the piping is single-walled or double-walled, or "other".
464. PIPING PRIMARY CONTAINMENT – Check the material(s) used to construct the primary (i.e., inner) underground product/waste piping.
464a. If you checked "Other" specify the type of primary containment in the space provided.
464b. PIPING SECONDARY CONTAINMENT – Check the material(s) used to construct the secondary containment system(s) (i.e., secondary piping, trench) provided for the product/waste piping. For single-wall piping systems, check "None."
464c. If you checked "Other" specify the type of secondary containment in the space provided.
464d. PIPING/TURBINE CONTAINMENT SUMP TYPE – Indicate the type of piping/turbine containment sump(s). Check "None" if not present.
464e-e1. VENT PRIMARY CONTAINMENT – Check the material(s) used to construct the primary (i.e., inner) vent piping. (Note: Address venting of the tank primary containment only.) Specify Other type of containment in the space provided.
464f-f1. VENT SECONDARY CONTAINMENT – Check the material(s) used to construct the secondary containment system(s) (e.g., secondary piping,) provided for the vent piping. For single-wall piping systems, check "None." (Note: Address venting of the tank primary containment only.) Specify Other type of containment in the space provided.
464g-g1. VR PRIMARY CONTAINMENT – Check the material(s) used to construct the primary (i.e., inner) vapor recovery piping. For tanks without vapor recovery piping (e.g., Diesel tanks), check "None." Specify Other type of containment in the space provided.
464h-h1. VR SECONDARY CONTAINMENT – Check the material(s) used to construct the secondary containment system(s) (e.g., secondary piping) provided for the vapor recovery piping. For single-wall piping systems, check "None." Specify Other type of containment in the space provided.
464i. VENT PIPING TRANSITION SUMP TYPE – Indicate type of transition sump(s). Check "None" if not present.
464j-j1. RISER PRIMARY CONTAINMENT – Check the material(s) used to construct the primary (i.e., inner) piping for all risers (not drop tubes) other than annular space risers (i.e., risers for filling or gauging of the primary tank). Specify Other type of containment in the space provided.
464k-k1. RISER SECONDARY CONTAINMENT – Check the material(s) used to construct secondary containment system(s) (i.e., secondary piping, sumps) provided for the riser piping. For risers without secondary containment, check "None." Specify Other type of containment in the space provided.
451a-c. FILL COMPONENTS INSTALLED – Check the appropriate boxes to show that spill containment, tank bottom protection, and fill containment sumps (if applicable) are installed.
469a. UDC CONSTRUCTION TYPE – Check the box to describe the type of dispenser containment system(s) (i.e., dispenser sumps or pans). If the system has no dispensers (e.g., standby generator tank system), check "No Dispensers." If the system has a dispenser, but no UDC, check "None".
469b. UDC CONSTRUCTION MATERIAL – Check the box to describe the materials used to construct the UDC.
469c. If you checked "Other" specify the construction material in the space provided.
448. STEEL COMPONENT PROTECTION – All systems contain some steel components. Check the appropriate box(es) to describe all corrosion protection methods used. "Isolation" means electrical isolation from soil, backfill, and groundwater. Examples include fiberglass cladding, non-metallic secondary containment systems which isolate steel components from the sub-surface environment, and insulating bushings.
APPLICANT SIGNATURE – The same person who signs the UST Operating Permit Application – Facility Information Form shall sign in the space provided. This signature certifies that the signer believes that all information submitted is true and accurate, and that the UST system is compatible with the hazardous substance stored.
470. DATE – Enter the date the form was signed.
471. APPLICANT NAME – Print or type the name of the person signing the form.
472. APPLICANT TITLE – Enter the title of the person signing the form.

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
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UNDERGROUND STORAGE TANK
MONITORING PLAN (Page 1 of 2)

TYPE OF ACTION ☒ 1. NEW PLAN ☐ 2. CHANGE OF INFORMATION 490-1

PLAN TYPE (Check one item only) ☐ 1. MONITORING IS IDENTICAL FOR ALL USTs AT THIS FACILITY. 490-2
☒ 2. THIS PLAN COVERS ONLY THE FOLLOWING UST SYSTEM(S)(specify):

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3	FACILITY ID #
County of San Diego Sheriff Crime Lab	3 7 0 0 0 1 1 4 2 6 1 1

BUSINESS SITE ADDRESS 103	CITY 104		ZIP CODE 105
5255 Mt. ETNA	San Diego	CA	92117-

II. EQUIPMENT TESTING AND PREVENTIVE MAINTENANCE

Testing, preventive maintenance, and calibration of monitoring equipment (e.g., sensors, probes, line leak detectors, etc.) must be performed at the frequency specified by the equipment manufacturers' instructions, or annually, whichever is more frequent, and that such work must be performed by qualified personnel. (23 CCR §2632, 2634, 2638, 2641)

MONITORING EQUIPMENT IS SERVICED ☒ 1. ANNUALLY ☐ 99. OTHER (Specify): 490-3a 490-3b

III. MONITORING LOCATIONS

☒ 1. NEW SITE PLOT PLAN/MAP SUBMITTED WITH THIS PLAN. 490-4
☐ 2. SITE PLOT PLAN/MAP PREVIOUSLY SUBMITTED. (23 CCR §2632, 2634)

IV. TANK MONITORING IS PERFORMED USING THE FOLLOWING METHOD(S):

☒ 1. CONTINUOUS ELECTRONIC TANK MONITORING OF ANNULAR (INTERSTITIAL) SPACE(S) OR SECONDARY CONTAINMENT VAULT(S) WITH AUDIBLE AND VISUAL ALARMS (23 CCR §2632, 2634) 490-5
SECONDARY CONTAINMENT IS: ☒ a. DRY ☐ b. LIQUID FILLED ☐ c. PRESSURIZED ☐ d. UNDER VACUUM 490-6

PANEL MANUFACTURER: Veeder Root 490-7	MODEL #: TLS-300 490-8
LEAK SENSOR MANUFACTURER: Veeder Root 490-9	MODEL #(S): 794380-420 490-10

☐ 2. AUTOMATIC TANK GAUGING (ATG) SYSTEM USED TO MONITOR SINGLE WALL TANK(S) (23 CCR §2643) 490-11

PANEL MANUFACTURER: 490-12	MODEL #: 490-13
IN-TANK PROBE MANUFACTURER: 490-14	MODEL #(S): 490-15

LEAK TEST FREQUENCY: ☐ a. CONTINUOUS ☐ b. DAILY/NIGHTLY ☐ c. WEEKLY 490-16
☐ d. MONTHLY ☐ e. OTHER (Specify): 490-17

PROGRAMMED TESTS: ☐ a. 0.1 g.p.h. ☐ b. 0.2 g.p.h. ☐ c. OTHER (Specify): 490-18 490-19

☐ 3. MONTHLY STATISTICAL INVENTORY RECONCILIATION (23 CCR §2646.1) 490-20

☐ 4. WEEKLY MANUAL TANK GAUGING (MTG) (23 CCR §2645): TESTING PERIOD: ☐ a. 36 HOURS ☐ b. 60 HOURS 490-21 490-22

☐ 5. TANK INTEGRITY TESTING (23 CCR §2643.1): 490-23
TEST FREQUENCY: ☐ a. ANNUALLY ☐ b. BIENNIALLY ☐ c. OTHER (Specify): 490-24, 490-25

☐ 99. OTHER (Specify): 490-26, 490-27

V. PIPE MONITORING IS PERFORMED USING THE FOLLOWING METHOD(S) (Check all that apply)

☒ 1. CONTINUOUS MONITORING OF PIPE/ PIPING SUMP(S) AND OTHER SECONDARY CONTAINMENT WITH AUDIBLE AND VISUAL ALARMS (23 CCR §2636) 490-28
SECONDARY CONTAINMENT IS: ☒ a. DRY ☐ b. LIQUID FILLED ☐ c. PRESSURIZED ☐ d. UNDER VACUUM 490-29

PANEL MANUFACTURER: Veeder Root 490-30	MODEL #: TLS-300 490-31
LEAK SENSOR MANUFACTURER: Veeder Root 490-32	MODEL #(S): 794390-208 490-33

PIPING LEAK ALARM TRIGGERS AUTOMATIC PUMP (i.e., TURBINE) SHUTDOWN. ☐ a. YES ☐ b. NO 490-34
FAILURE/DISCONNECTION OF THE MONITORING SYSTEM TRIGGERS AUTOMATIC PUMP SHUTDOWN. ☐ a. YES ☐ b. NO 490-35

☐ 2. MECHANICAL LINE LEAK DETECTOR (MLLD) THAT ROUTINELY PERFORMS 3.0 g.p.h. LEAK TESTS AND RESTRICTS OR SHUTS OFF PRODUCT FLOW WHEN A LEAK IS DETECTED (23 CCR §2636) 490-36

MLLD MANUFACTURER(S): 490-37	MODEL #(S): 490-38

☐ 3. ELECTRONIC LINE LEAK DETECTOR (ELLD) THAT ROUTINELY PERFORMS 3.0 g.p.h. LEAK TESTS (23 CCR §2636) 490-39

ELLD MANUFACTURER(S): 490-40	MODEL #(S): 490-41

PROGRAMMED IN LINE LEAK TEST: ☐ 1. MINIMUM MONTHLY 0.2 g.p.h. ☐ 2. MINIMUM ANNUAL 0.1 g.p.h. 490-42
ELLD DETECTION OF A PIPING LEAK TRIGGERS AUTOMATIC PUMP (i.e., TURBINE) SHUTDOWN. ☐ a. YES ☐ b. NO 490-43
ELLD FAILURE/DISCONNECTION TRIGGERS AUTOMATIC PUMP (i.e., TURBINE) SHUTDOWN. ☐ a. YES ☐ b. NO 490-44

☐ 4. PIPE INTEGRITY TESTING: TEST FREQUENCY ☐ a. ANNUALLY ☐ b. EVERY 3 YEARS ☐ c. OTHER (Specify): 490-46, 490-47

☒ 5. VISUAL PIPE MONITORING: FREQUENCY ☐ a. DAILY ☐ b. WEEKLY ☒ c. MIN. MONTHLY & EACH TIME SYSTEM OPERATED* 490-48, 490-49
* Allowed for monitoring of unburied emergency generator fuel piping only per HSC §25281.5(b)(3)

☐ 6. SUCTION PIPING MEETS EXEMPTION CRITERIA [23 CCR §2636(a)(3)] 490-50

☐ 7. NO REGULATED PIPING PER HEALTH AND SAFETY CODE, DIVISION 20, CHAPTER 6.7 IS CONNECTED TO THE TANK SYSTEM 490-51

☐ 99. OTHER (Specify): 490-52, 490-53

UST Monitoring Plan – Page 1 Instructions

Complete a separate UST Monitoring Plan for each UST monitoring system at the facility. This Monitoring Plan must be kept at the UST location at all times. The elements of this Monitoring Plan constitute conditions of the UST Operating Permit. This form must be submitted with your initial UST Operating Permit Application and within 30 days of changes in the information it contains. Please note that you are required to obtain approval prior to installing or modifying monitoring equipment. (Note: Numbering of these instructions follows the data element numbers on the form.)

490-1. TYPE OF ACTION – Check the appropriate box to indicate why this plan is being submitted.
490-2. PLAN TYPE – Check the appropriate box to indicate whether this plan covers all, or merely some, of the USTs at the facility. If the plan covers only some of the tanks, identify those tanks in the space provided [e.g., by using the Tank ID #(s) in item 432 of the UST Operating Permit Application – Tank Information Form(s)].
1. FACILITY ID NUMBER – This space is for agency use only.
3. BUSINESS NAME – Enter the complete Facility Name.
103. BUSINESS SITE ADDRESS – Enter the street address where the facility is located, including building number, if applicable. Post office box numbers are not acceptable. This information must provide a means to locate the facility geographically.
104. CITY – Enter the city or unincorporated area in which the facility is located.
105. ZIP CODE – Enter the zip code of the UST site. The zip+4 may also be added.
490-3a. MONITORING EQUIPMENT IS SERVICED – Check the appropriate box to specify the frequency of monitoring equipment testing/certification.
490-3b. Specify Other frequency for monitoring equipment servicing.
490-4. SITE PLAN - Indicate if a site plan/map is submitted with this monitoring plan or if it was submitted previously and is current for the facility. Monitoring plans must include a Site Plot Plan/Map showing the tank and piping layouts and the locations where monitoring is performed (i.e., location of sensors, probes, line leak detectors, monitoring system control panel, etc.).
490-5. IV-1 CONTINUOUS ELECTRONIC MONITORING-Indicate if this monitoring method is being used to monitor the tanks.
490-6. SECONDARY CONTAINMENT– If IV-1 is checked, check the appropriate box to describe the environment inside the tank secondary containment.
490-7. PANEL MANUFACTURER – If IV-1 is checked, enter the name of the manufacturer of the monitoring system control panel (console).
490-8. MODEL # – If IV-1 is checked, enter the model number for the monitoring system control panel.
490-9. LEAK SENSOR MANUFACTURER – If IV-1 is checked, enter the name of the manufacturer of the sensor(s). If additional space is needed, use Section X.
490-10. MODEL #(S) – If IV-1 is checked, enter the model number for each type of sensor installed. If additional space is needed, use Section X.
490-11. IV-2 AUTOMATIC TANK GAUGING-Indicate if this method is used for monitoring the UST's.
490-12. PANEL MANUFACTURER – If IV-2 is checked, enter the name of the manufacturer of the monitoring system control panel (console).
490-13. MODEL # – If IV-2 is checked, enter the model number for the monitoring system control panel.
490-14. IN-TANK PROBE MANUFACTURER – If IV-2 is checked, enter the name of the manufacturer of the probe(s).
490-15. MODEL #(S) – If IV-2 is checked, enter the model number for each type of in-tank probe installed. If additional space is needed, use Section X.
490-16. LEAK TEST FREQUENCY – If IV-2 is checked, check the appropriate box to describe the in-tank leak test frequency.
490-17. SPECIFY – If 490-16e is checked, enter the frequency of programmed leak tests.
490-18. PROGRAMMED TESTS – If IV-2 is checked, check the appropriate box to describe the tests programmed into the ATG system.
490-19. SPECIFY – If 490-18c is checked, enter the frequency of in-tank leak testing.
490-20. IV-3 INVENTORY RECONCILIATION – Check the box if statistical inventory reconciliation is performed.
490-21. IV-4 WEEKLY MANUAL TANK GAUGING – Indicate if this method is used to monitor the tanks.
490-22. TESTING PERIOD – If IV-4 is checked, check the appropriate box to describe the MTG testing period.
490-23. IV-5 TANK INTEGRITY TESTING: Indicate if this method is used to monitor the tanks.
490-24. TEST FREQUENCY – If IV-5 is checked, check the appropriate box to describe the frequency of tank integrity testing.
490-25. OTHER: If 490-24c is checked, specify other test frequency.
490-26. IV-99 OTHER: Indicate if monitoring of the tanks occurs that is not indicated in any other category.
490-27. If IV-99 is checked, enter a brief description of the other tank monitoring method(s) used (e.g., vadose zone monitoring per 23 CCR §2647, groundwater monitoring per 23CCR §2648). Include the monitoring frequency (e.g., Continuous, Weekly). If additional space is needed, use Section X.
490-28. V-1 CONTINUOUS MONITORING OF PIPE/PIPING SUMP(S) AND OTHER SECONDARY CONTAINMENT WITH AUDIBLE AND VISUAL ALARMS: Indicate if this is the monitoring method used for the piping.
490-29. SECONDARY CONTAINMENT: If V-1 is checked, Check the appropriate box to describe the environment inside piping secondary containment.
490-30. PANEL MANUFACTURER – If V-1 is checked, enter the name of the manufacturer of the monitoring system control panel (console).
490-31. MODEL # – If V-1 is checked, enter the model number for the monitoring system control panel.
490-32. LEAK SENSOR MANUFACTURER – If V-1 is checked, enter the name of the manufacturer of the sensor(s).
490-33. MODEL #(S) – If V-1 is checked, enter the model number for each type of sensor installed. If additional space is needed, use Section X.
490-34. PIPING LEAK ALARM T RIGGERS AUTOMATIC PUMP SHUTDOWN – If V-1 is checked, check Yes or No.
490-35. FAILURE/DISCONNECTION OF THE MONITORING SYSTEM TRIGGERS AUTOMATIC PUMP SHUTDOWN – If V-1 is checked, check Yes or No.
490-36. V-2 PIPE MECHANICAL LINE LEAK DETECTORS PERFORM 3 GPH LEAK TESTS: Indicate if this monitoring method is used to monitor the pipelines.
490-37. MLLD MANUFACTURER(S) – If V-2 is checked, enter the name(s) of the manufacturer(s) of the mechanical line leak detector(s). If additional space is needed, use Section X.
490-38. MODEL #(s) - If V-2 is checked, Enter the model number for each type of mechanical line leak detector installed. If additional space is needed, use Section X.
490-39. V-3 PIPE ELECTRONIC LINE LEAK DETECTORS: Indicate if this monitoring method is used to monitor the pipelines.
490-40. ELLD MANUFACTURER – If V-3 is checked, Enter the name of the manufacturer of the electronic line leak detector(s).
490-41. MODEL #(S)n - If V-3 is checked, enter the model number for each type of electronic line leak detector installed. If additional space is needed, use Section X.
490-42. PROGRAMMED LINE INTEGRITY TESTS –If V-3 is checked, check the appropriate box to describe the type of tests programmed into the monitoring system.
490-43. ELLD DETECTION OF A PIPING LEAK ALARM TRIGGERS PUMP SHUTDOWN – If V-1 is checked, check Yes or No.
490-44. ELLD DETECTION OF A PIPING LEAK FAILURE/DISCONNECTION TRIGGERS PUMP SHUTDOWN. – If V-1 is checked, check Yes or No.
490-45. V-4 PIPE INTEGRITY TESTING - Indicate if this monitoring method is used to monitor the pipelines.
490-46. TEST FREQUENCY – If V-4 is checked, check the appropriate box to describe the frequency of pipe integrity testing.
490-47. SPECIFY – If 490-46-99 is checked, enter the frequency of pipe integrity testing.
490-48. V-5 VISUAL PIPE MONITORING - Indicate if this monitoring method is used to monitor the pipelines.
490-49. If V-5 is checked, check the appropriate box to describe the frequency of visual monitoring.
490-50. SUCTION PIPING MEETS EXEMPTION CRITERIA - Indicate if this monitoring method is used to monitor the pipelines.
490-51. NO REGULATED PIPING PER HEALTH AND SAFETY CODE, DIVISION 20, CHAPTER 6.7 IS CONNECTED TO THE TANK SYSTEM - Check this box if no piping in the tank system is regulated under the UST law, or there is no piping.
490-52. V-99 OTHER - Indicate if another method is used for pipeline monitoring.
490-53. SPECIFY – Enter a brief description of the other line monitoring method(s) used. If additional space is needed, see Section X. Be sure to clearly describe monitoring method(s) and frequency.

This monitoring plan must include a Site Plan showing the general tank and piping layouts and the locations where monitoring is performed (i.e., location of each sensor, line leak detector, monitoring system control panel, etc.). If you already have a diagram (e.g., current UST Monitoring Site Plan from a Monitoring System Certification form, Hazardous Materials Business Plan map, etc.) that shows all required information, include it with this plan.

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION

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UNDERGROUND STORAGE TANK
MONITORING PLAN (Page 2 of 2)

This plan has been reviewed and is:
☑ Approved ☐ Approved with conditions*
Date: 1/23/09
Specialist: _____ *conditions on back
(Local Agency Signature)

VI. UNDER DISPENSER CONTAINMENT (UDC) MONITORING

1. UDC MONITORING IS PERFORMED USING THE FOLLOWING METHOD: 490-54a 490-54b
☐ 1. CONTINUOUS ELECTRONIC MONITORING ☐ 2. FLOAT AND CHAIN ASSEMBLY ☐ 3. ELECTRONIC STAND-ALONE
☒ 4. NO DISPENSERS ☐ 99. OTHER (Specify):

PANEL MANUFACTURER:	490-55	MODEL #:	490-56
LEAK SENSOR MANUFACTURER:	490-57	MODEL #(S):	490-58

DETECTION OF A LEAK INTO THE UDC TRIGGERS AUDIBLE AND VISUAL ALARMS	☐ a. YES	☐ b. NO	490-59
UDC LEAK ALARM TRIGGERS AUTOMATIC PUMP SHUTDOWN	☐ a. YES	☐ b. NO	490-60
FAILURE / DISCONNECTION OF UDC MONITORING SYSTEM TRIGGERS AUTOMATIC PUMP SHUTDOWN	☐ a. YES	☐ b. NO	490-61
UDC MONITORING STOPS THE FLOW OF PRODUCT AT THE DISPENSER	☐ a. YES	☐ b. NO	490-62

2. UDC CONSTRUCTION IS ☐ 1. SINGLE-WALLED ☐ 2. DOUBLE-WALLED 490-63

IF DOUBLE WALLED: 490-64a
UDC INTERSTITIAL SPACE IS MONITORED BY: ☐ 1. LIQUID ☐ 2. PRESSURE ☐ 3. VACUUM
A LEAK WITHIN THE SECONDARY CONTAINMENT OF THE UDC TRIGGERS AUDIBLE AND VISUAL ALARMS ☐ a. YES ☐ b. NO 490-64b

VII. PERIODIC SYSTEM TESTING

☐ 1. **ELD TESTING**: THIS FACILITY HAS BEEN NOTIFIED BY THE STATE WATER RESOURCES CONTROL BOARD THAT ENHANCED LEAK DETECTION (ELD) MUST BE PERFORMED. PERIODIC ELD IS PERFORMED EVERY 36 MONTHS AS REQUIRED. (23 CCR §2644.1) 490-65

☒ 2. **SECONDARY CONTAINMENT COMPONENTS ARE TESTED EVERY 36 MONTHS.** 490-66

☒ 3. **SPILL BUCKETS ARE TESTED ANNUALLY.** 490-67

VIII. RECORDKEEPING

The following monitoring/maintenance records are kept for this facility:

☐ Alarm logs	490-68a	☒ Visual Inspection Records	490-68b
☐ Tank integrity testing results	490-68c	☐ SIR testing results (and supporting documentation records)	490-68d
☐ Tank gauging results (and supporting documentation records)	490-68e	☐ ATG Testing results (and supporting documentation records)	490-68f
☐ Corrosion Protection 60-day logs	490-68g	☒ Equipment maintenance and calibration records	490-68h

IX. TRAINING

☒ Personnel with UST monitoring responsibilities are familiar with all of the following documents relevant to their job duties. 490-69a

REFERENCE DOCUMENTS MAINTAINED AT FACILITY (Check all that apply)

- ☒ THIS UNDERGROUND STORAGE TANK MONITORING PLAN (Required) 490-69b
- ☒ OPERATING MANUALS FOR ELECTRONIC MONITORING EQUIPMENT (Required) 490-69c
- ☐ CALIFORNIA UNDERGROUND STORAGE TANK REGULATIONS 490-69d
- ☐ CALIFORNIA UNDERGROUND STORAGE TANK LAW 490-69e
- ☐ STATE WATER RESOURCES CONTROL BOARD (SWRCB) PUBLICATION: "HANDBOOK FOR TANK OWNERS - MANUAL AND STATISTICAL INVENTORY RECONCILIATION" 490-69f
- ☐ SWRCB PUBLICATION: "UNDERSTANDING AUTOMATIC TANK GAUGING SYSTEMS" 490-69g
- ☐ OTHER (Specify): 490-69h, 490-69i

☒ This facility has a "Designated UST Operator" who has passed the California UST System Operator Exam administered by the International Code Council (ICC). The "Designated UST Operator" will train facility employees in the proper operation and maintenance of the UST systems annually, and within 30 days of hire. This training will include, but is not limited to, the following: 490-70

- Operation of the UST systems in a manner consistent with the facility's best management practices
- The facility employee's role with regard to the monitoring equipment as specified in this UST Monitoring Plan
- The facility employee's role with regard to spills and overfills as specified in the UST Response Plan
- Names of contact person(s) for emergencies and monitoring alarms

X. COMMENTS/ADDITIONAL INFORMATION

Provide additional comments here or indicate how many pages with additional information on specific monitoring procedures are attached to this plan. 490-71

XI. PERSONNEL RESPONSIBILITIES

The UST Owner/Operator is responsible for ensuring that: 1) the daily/routine UST monitoring activities and maintenance of UST leak detection equipment covered by this plan occurs, 2) all conditions that indicate a possible release are investigated, and 3) all monitoring records are maintained properly.
The following person(s) are responsible for performing the monitoring and equipment maintenance:

NAME	490-72	TITLE	490-73
NAME Mike Johnson	490-74	TITLE Senior Plumber/ DSO	490-75

The Designated Operator shall perform a monthly visual inspection of the facility, provide a report to the owner/operator, and inform the owner/operator of any conditions that need follow-up action.

XII. OWNER/OPERATOR SIGNATURE

CERTIFICATION: I certify that the information provided herein is true and accurate to the best of my knowledge.

APPLICANT SIGNATURE	490-76	DATE:	490-77
REPRESENTING: ☐ 1. Tank Owner/Operator ☐ 2. Facility Owner/Operator ☒ 3. Authorized Representative of Owner			
APPLICANT NAME (print): K.M. Johnson	490-78	APPLICANT TITLE: Senior Plumber/ DSO	490-79

(Agency Use Only) This plan has been reviewed and: ☑ Approved ☐ Approved With Conditions

Local Agency Signature: Jessica Pearson Date: 1 / 23 / 09

Comments or Special Conditions:

UST Monitoring Plan – Page 2 Instructions

Complete a separate UST Monitoring Plan for each UST monitoring system at the facility. This Monitoring Plan must be kept at the UST location at all times. The elements of this Monitoring Plan constitute conditions of the UST Operating Permit. This form must be submitted with your initial UST Operating Permit Application and within 30 days of changes in the information it contains. Please note that you are required to obtain approval prior to installing or modifying monitoring equipment. (Note: Numbering of these instructions follows the data element numbers on the form.)

490-54a. MONITORING OF THE UNDER DISPENSER CONTAINMENT – Indicate the method used for UDC monitoring.
490-54b. SPECIFY – If 99 "Other" is checked, describe other method used.
If VI-1-1, VI-1-2 or VI-1-3 or VI-1-99 is checked, complete 490-55 to 490-64b.

490-55. PANEL MANUFACTURER – Enter the name of the manufacturer of the monitoring system control panel (console). If there is no control panel (e.g., only an electrical relay box is installed) leave this space blank.
490.56. MODEL # – Enter the model number for the monitoring system control panel (console). If there is no control panel (e.g., only an electrical relay box is installed) leave this space blank.
490-57. LEAK SENSOR MANUFACTURER – Enter the name of the manufacturer of the sensor(s).
490-58. MODEL #(S) – Enter the model number of the sensor(s) installed. If additional space is needed, use Section X.
490-59. DETECTION OF A LEAK INTO THE UDC TRIGGERS AUDIBLE AND VISUAL ALARMS – Indicate Yes or No
490-60. UDC LEAK ALARM TRIGGERS PUMP SHUTDOWN – Indicate Yes or No
490-61. FAILURE/DISCONNECTION OF UDC MONITORING SYSTEM TRIGGERS AUTOMATIC PUMP SHUTDOWN – Indicate Yes or No
490-62. UDC MONITORING STOPS THE FLOW OF PRODUCT AT THE DISPENSER – Indicate Yes or No.
490-63. UDC CONSTRUCTION – Indicate if the construction of the UDC is single-walled, or double-walled.
490-64a. DOUBLE-WALLED INTERSTITIAL SPACE MONITORING – Indicate what is used to monitor the interstitial space.
490-64b. LEAK WITHIN THE SECONDARY CONTAIMENT OF UDC TRIGGERS AUDIBLE AND VISUAL ALARMS – Indicate Yes or No
490-65. VII-1 ELD TESTING – Check the box if you have been notified by the State Water Resources Control Board (SWRCB) that the UST(s) covered by this plan is/are subject to Enhanced Leak Detection Requirements (i.e., UST has any single-wall component and is located within 1,000 feet of a public drinking water well).
490-66. TESTING OF SECONDARY CONTAINMENT COMPONENTS EVERY 36 MONTHS - Check the box if you have secondary containment that requires testing.
490-67. SPILL BUCKET TESTING - Check the box if you have spill buckets.
490-68a-h. VIII RECORDKEEPING – Indicate which monitoring and equipment maintenance records are maintained for this facility.
490-69a IX TRAINING STATEMENT – Check the box to verify that the statement is true.
REFERENCE DOCUMENTS MAINTAINED AT FACILITY – Check the appropriate boxes to describe reference documents maintained at the facility. Note that the first two items on the list must be kept at the facility.
490-69b. MONITORING PLAN – Indicate that this plan is kept as a reference document.
490-69c. OPERATING MANUALS FOR ELECTRONIC EQUIPMENT – Indicate that this plan is kept as a reference document.
490-69d. CA UST REGULATIONS – Indicate that this is kept as a reference document.
490-69e. CA UST LAW – Indicate that this is kept as a reference document.
490-69f. STATE WATER RESOURCES CONTROL BOARD (SWRCB) PUBLICATION – "HANDBOOK FOR TANK OWNERS - MANUAL AND STATISTICAL INVENTORY RECONCILIATION – Indicate that this is kept as a reference document.
490-69g. SWRCB PUBLICATION: "UNDERSTANDING AUTOMATIC TANK GAUGING SYSTEMS" – Indicate that this is kept as a reference document.
490-69h. OTHER – Indicate that other reference documents are kept.
490-69i. SPECIFY-If "OTHER" is checked, enter a brief description of the other document(s) maintained at the facility. If additional space is needed, see Section X.
490-70. DESIGNATED OPERATOR TRAINING – Check this box to verify that this statement is true.
490-71. COMMENTS/ADDITIONAL INFORMATION – Make additional comments or you may attach and identify the number of additional pages of information to describe any additional UST system monitoring-related information (e.g., additional information required by your local agency). Attach any monitoring logs that you will be using for the monitoring of your tank system.
490-72. NAME – Enter the name of the person who routinely conducts the monitoring and equipment maintenance under this plan.
490-73. TITLE – Enter the title of the person.
490-74. NAME – Enter the name of the second person, if applicable, who routinely conducts the monitoring and equipment maintenance under this plan.
490-75. TITLE – Enter the title of the second person.

OWNER/OPERATOR SIGNATURE – The tank owner/operator, facility owner/operator, or an authorized representative of the owner shall sign in the space provided. This signature certifies that the signer believes that all information submitted is true, accurate, and complete, and that the training program specified in Section IX has been implemented.

490-76. REPRESENTING – Check the appropriate box to indicate whether the signer is the UST owner/operator, the UST facility owner/operator, or an authorized representative of the owner.
490-77. DATE – Enter the date the plan was signed.
490-78. APPLICANT NAME – Print or type the name of the person signing the plan.
490-79. APPLICANT TITLE – Enter the title of the person signing the plan.

Send to File #114261
Kiva comment made 2/5/10

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document installation, testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

Plan Check Number: **Permit Number:**

A. General Information

Facility Name: Crime Lab Bldg. No.:

Site Address: 5255 Mt.Etna City: San Diego Zip:

Facility Contact Person: Mike Johmson Contact Phone No.:

Make/Model of Monitoring System: Veeder Root TLS-300c Date of Testing/Servicing: 1-21-2010

B. Inventory of Equipment Tested/Certified: Check the appropriate boxes to indicate specific equipment installed/ inspected serviced:

Tank ID: Diesel 4000 Emergency Gen ☒ In-Tank Gauging Probe Model. 847390-107 ☒ Annular Space or Vault Sensor Model: 794390-420 ☒ Piping Sump / Trench Sensor(s) Model: 794380-208 ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☒ Tank Overfill / High-Level Sensor Model: V/R #790091-001 ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID**: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID**: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model. ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification - I certify that the equipment identified in this document was installed/inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report *(check all that apply)*: ☒ Copy of the report ☐ System set-up ☐ Alarm history report

Technician Name (print): James Romero

Signature: _____

Certification No.: A29899 License No.: 203029

Testing Company Name: Lemesnager Engineering Phone No.: (619) 270-8700 x00

Testing Company Address: 9450 Mira Mesa Blvd. Suite C #229 San Diego, Ca.92126 Date of Testing/Servicing: 1-21-2010

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

D. Results of Testing/Servicing

Permit Number:

Software Version Installed: 15.03

Complete the following checklist:

☑ Yes	☐ No*	Is the audible alarm operational?
☑ Yes	☐ No*	Is the visual alarm operational?
☑ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☑ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☑ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☑ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shutdown? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shutdown due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No.
☑ Yes	☐ No* ☐ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90 %
☐ Yes*	☑ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☑ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☑ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☑ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments (500 characters max. add additional sheets if needed):

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

F. In-Tank Gauging / SIR Equipment: **Permit Number:**

☐ Check this box if tank gauging is used only for inventory control

☐ Check this box if no tank gauging or SIR equipment is installed

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☑ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☑ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☑ Yes	☐ No*	Was accuracy of system product level readings tested?
☑ Yes	☐ No*	Was accuracy of system water level readings tested?
☑ Yes	☐ No*	Were all probes reinstalled properly?
☑ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD): ☑ Check this box if LLDs are not installed.

Complete the following checklist:

☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ❑ 3 g.p.h.; ❑ 0.1 g.p.h. ; ❑ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

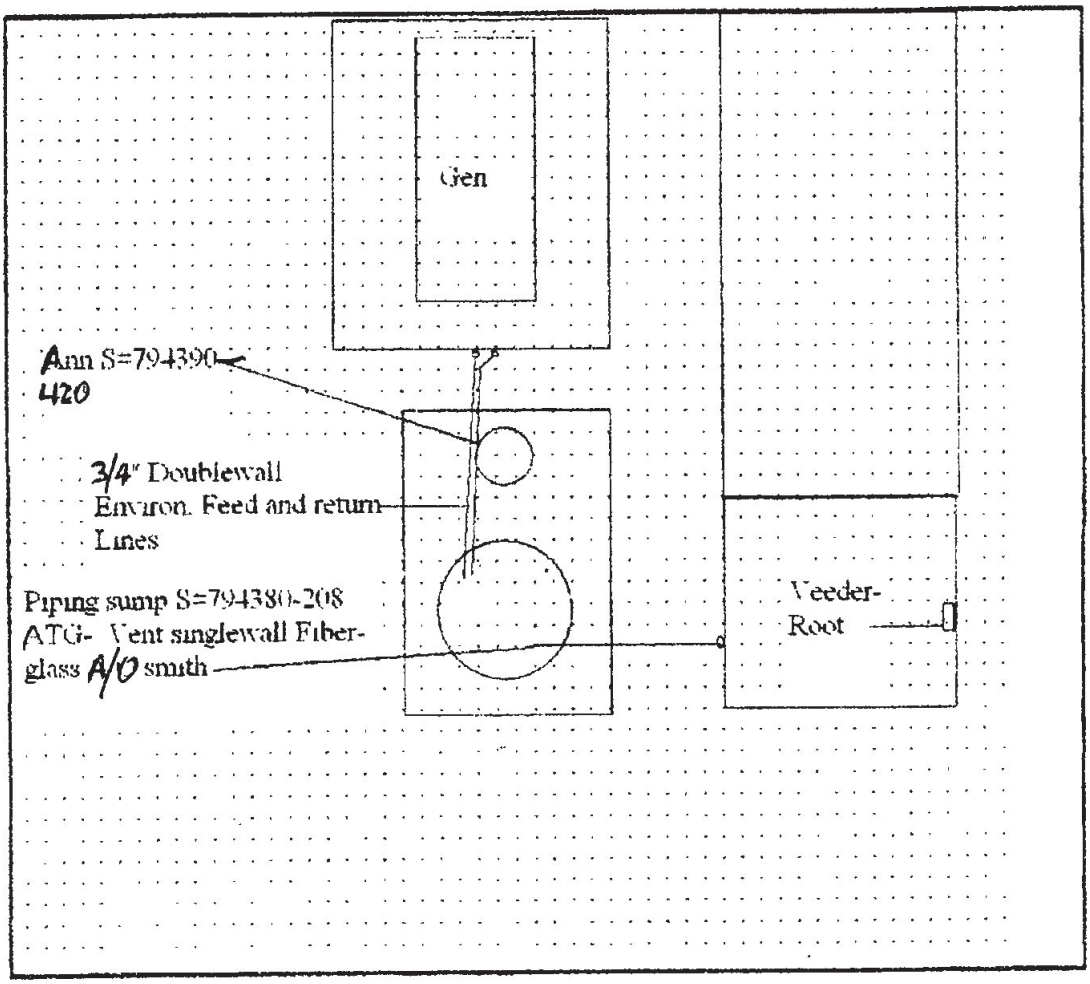
*** In Section H below, describe how and when these deficiencies were or will be corrected.**

H. Comments (500 characters max. add additional sheets if needed):

emergency Generator location.

UST Monitoring Site Plan

Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/14/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

Spill Bucket Testing Report Form

This form is intended for use by contractors performing annual testing of UST spill containment structures. The completed form and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name:	Crime Lab	Date of Testing:	1-21-2010
Facility Address:	5255 Mt. Etna San Diego Ca,		
Facility Contact:	Mike J.	Phone:	(
Date Local Agency Was Notified of Testing :			
Name of Local Agency Inspector *(if present during testing)*: Sonja I.			

2. TESTING CONTRACTOR INFORMATION

Company Name:	Lemesnager Eng:
Technician Conducting Test	James Romero
Credentials[1]:	☑ CSLB Contractor ☐ ICC Service Tech. ☐ SWRCB Tank Tester ☐ Other *(Specify)*
License Number(s):203029	

3. SPILL BUCKET TESTING INFORMATION

Test Method Used:	☑ Hydrostatic	☐ Vacuum	☐ Other	
Test Equipment Used:1 hr. visual			Equipment Resolution:	
Identify Spill Bucket *(By Tank Number, Stored Product, etc.)*	**1Diesel**	2	3	4
Bucket Installation Type:	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump
Bucket Diameter	12"			
Bucket Depth:	15"			
Wait time between applying vacuum/water and start of test:	15 min			
Test Start Time (T_I):	9:17			
Initial Reading (R_I):	6"			
Test End Time (T_F):	10:17			
Final Reading (R_F):	6"			
Test Duration ($T_F - T_I$):	1 hr			
Change in Reading ($R_F - R_I$):	0			
Pass/Fail Threshold or Criteria:	No-loss			
Test Result:	☑ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technician's Signature: J. Romero Date: 1-21-2010

[1] State laws and regulations do not currently require testing to be performed by a qualified contractor. However, local requirements may be more stringent

COUNTY OF SAN DIEGO

CORRECTIVE ACTION FORM TO DOCUMENT RETURN TO COMPLIANCE

PERMIT #: 114241
SPECIALIST: S. Ingmanson
INSPECTION DATE: 1/21/2010
CONTACT: Anthony DeMaria / Jeanne Redemer

BUSINESS NAME SD Cnty Sheriff Crime Lab

ADDRESS 5255 Mt. Etna Dr. CITY San Diego ZIP 92117

VIOL #	DATE CORRECTED	INDICATE HOW VIOLATIONS WERE CORRECTED (ATTACH ANY SUPPORTING DOCUMENTATION TO THIS FORM)
1 v	02/08/10	Hazardous waste labels have been updated to include hazardous properties and physical state. Old labels have been replaced with new (see attached)
2 v	02/26/10	Hazardous waste will be removed from the lab on March 8th. To avoid this from happening in future, a five year contract for hazardous waste pickup will be secured. (See attached for chemical waste pickup date)
3 v	___/___/___	
4 v	___/___/___	
5 v	___/___/___	
6 v	___/___/___	
7 v	___/___/___	
8 v	___/___/___	
9 v	___/___/___	
10 v	___/___/___	

I certify under penalty of law that this business/site has corrected all violations marked on the Compliance Inspection Report/Notice of Violation. I have personally examined and am familiar with the information submitted and believe the information is true, accurate and complete. I am authorized to file this certification for the business/site, and am aware that there are significant penalties for submitting false information.

Responsible Party: Anthony DeMaria (Print Name) **Job Title** Supervising Criminalist

Signature of Responsible Party: [signature] **Date:** 02/26/10

< Send completed form and supporting documentation to the address listed below >

COUNTY OF SAN DIEGO USE ONLY: **Reviewed by:** S. Ingmanson **Date:** 3/3/10
(Specialist's name and date required for processing)

Specialist's comments:

☒ **All violations noted on date listed above were corrected.**

☒ Based on information provided by the business
☐ Based on field verification by Specialist

☒ **RTC entered in Kiva by Specialist on:** 3/3/10 ☐ **RTC entered in Kiva by Clerical on:** ___/___

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
http://www.sdcdeh.org//hmd 619-338-2222; 1-800-253-9933; Fax 619-338-2377

File # 114261. JP

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2139 1-800-253-9933
http://www.sdcounty.ca.gov/deh/hmd/index.html

Designation of Underground Storage Tank (UST) Operator

UST Owner Statement of Understanding and Compliance with UST Requirements

Facility Name: Sheriff Regional Crime Lab	Facility Permit #: 1 1 4 2 6 1
Facility Address: 5255 Mount Etna	Phone:
City: San Diego	Zip Code: 92117-

Reason for Submitting this Form *(Check One)* ☐ Initial Certification ☐ Change of Designated Operator ☒ Certificate Renewal

Designated UST Operator(s) for this Facility

PRIMARY DESIGNATED UST OPERATOR

Designated Operator's Name: Kenneth M. Johnson
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (858)694-3615
International Code Council Certification #: 5248983-UC

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2010-10-15

ALTERNATE 1 ***(Optional)***

Designated Operator's Name: Craig Cook
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (760) 940-4522 x
International Code Council Certification #: 8071778

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2012-06-09

ALTERNATE 2 ***(Optional)***

Designated Operator's Name:
Business Name *(If different from above)*:
Designated Operator's Phone #:
International Code Council Certification #:

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☐ Employee
☐ Service Technician ☐ Third-Party
Expiration Date:

NOTIFY THE LOCAL REGULATORY AGENCY WITHIN 30 DAYS OF ANY CHANGES TO THIS INFORMATION

I certify that, for the facility indicated at the top of this page, the individual(s) listed above will serve as Designated UST Operator(s). The individual(s) will conduct and document monthly facility inspections and annual facility employee training, in accordance with California Code of Regulations, Title 23, Sections 2715(c) - (f).
Furthermore, I understand and am in compliance with the requirements (statutes, regulations, and local ordinances) applicable to underground storage tanks.

M.C. Urquhart
NAME OF TANK OWNER OR OWNER'S AGENT (Please Print)

DATE: 08 / 06 / 2010

M.C. Urquhart
SIGNATURE OF TANK OWNER OR OWNER'S AGENT

OWNER'S PHONE #: (760) 940-4522 x

Return this completed form to: **HMD-Designated UST Operator**
P.O. Box 129261, San Diego, CA 92112-9261

PLS File 114261

5

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2139 1-800-253-9933
http://www.sdcounty.ca.gov/deh/hmd/index.html

Designation of Underground Storage Tank (UST) Operator

UST Owner Statement of Understanding and Compliance with UST Requirements

Facility Name: Sheriff Regional Crime Lab	Facility Permit #: 1 1 4 2 6 1
Facility Address: 5255 Mount Etna	Phone:
City: San Diego	Zip Code: 92117-

Reason for Submitting this Form *(Check One)* ☐ **Initial Certification** ☐ **Change of Designated Operator** ☒ **Certificate Renewal**

Designated UST Operator(s) for this Facility

PRIMARY DESIGNATED UST OPERATOR

Designated Operator's Name: Kenneth M. Johnson
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (858)694-3615
International Code Council Certification #: 5248983

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2012-08-27

ALTERNATE 1 ***(Optional)***

Designated Operator's Name: Craig Cook
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (760) 940-4522 x
International Code Council Certification #: 8071778

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2012-06-09

ALTERNATE 2 ***(Optional)***

Designated Operator's Name:
Business Name *(If different from above)*:
Designated Operator's Phone #:
International Code Council Certification #:

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☐ Employee
☐ Service Technician ☐ Third-Party
Expiration Date:

NOTIFY THE LOCAL REGULATORY AGENCY WITHIN 30 DAYS OF ANY CHANGES TO THIS INFORMATION

I certify that, for the facility indicated at the top of this page, the individual(s) listed above will serve as Designated UST Operator(s). The individual(s) will conduct and document monthly facility inspections and annual facility employee training, in accordance with California Code of Regulations, Title 23, Sections 2715(c) - (f).
Furthermore, I understand and am in compliance with the requirements (statutes, regulations, and local ordinances) applicable to underground storage tanks.

M.C. Mountain — **DATE:** 9 / 16 / 2010

NAME OF TANK OWNER OR OWNER'S AGENT (Please Print)

M C Mountain — **OWNER'S PHONE #:** (760) 940-4522 x

SIGNATURE OF TANK OWNER OR OWNER'S AGENT

Return this completed form to: **HMD-Designated UST Operator**
P.O. Box 129261, San Diego, CA 92112-9261

ENTERED FEB 0 3 2010

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 4 DATE 1/21/2010
PERMIT# 114261 BUS. CODE K70
TIME START 900 END 400
SPECIALIST S. Ingmanson
INSPECTION CONTACT Jeanne Redeman
TITLE Criminalist III
PHONE (858) 467-4600

BUSINESS NAME SD City Sheriff Crime Lab
ADDRESS 5255 Mt. Etna Dr.
CITY/ZIP San Diego / 92117

On the above date, the County inspected your business under the authority of the California Health and Safety Code (H&SC), to determine compliance with applicable provisions of the H&SC, the California Code of Regulations (CCR), and the San Diego County Code of Regulatory Ordinances (SDCC). **This report serves as a Notice to Comply (H&SC 25187.8 & 25404.1.2) for any minor violations as defined in H&SC 25404 and 25117.6.** This report may contain both minor and more significant (Class II) violations. Minor violations do not include repeat violations or violations remaining uncorrected for more than 30 days (or as specified below). Minor violations do not include knowing, willful, intentional, or chronic violations; nor do they include violations showing a pattern of neglect or disregard. The remarks below are intended to provide guidance to correct any violations indicated on the attached violation report. You must submit a written response to this report within 30 days (or as specified below) demonstrating that all violations have been corrected or include a written notice of disagreement that clearly states the reason for any disputed violations. Prompt correction can protect you from penalties for a "minor violation". Penalties can be imposed for each day in violation for all other violations even if they are corrected promptly. However, correction within 30 days (or as specified below) will make a penalty less likely.

Y*	N/A*	NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.	Y*	N/A*	
☒	☐	Unified Program Facility Permit current			Permit Expires on: 3/31/2010
☒	☐	Hazardous Materials Business Plan available	☒	☐	Contingency Plan available ☒ LQG ☐ SQG
☐	☐	Employee training is adequate	☒	☐	Employee training records available
☒	☐	Waste disposal records available for review	☒	☐	Universal waste managed properly
☐	☐	Emergency contacts current ☒ Updated today	☒	☐	Waste containers ☒ closed ☐ labeled
☐	☐	Chemical inventory/map current ☒ Updated today	☒	☐	Waste containers in good condition

Consent to inspect granted by: ☐ Inspection Contact ☒ Other:

Permission was granted today to conduct an annual monitoring System Certification of the 4000 gal diesel UST by Mike Johnson, DUSTO. James Romero, an ICC and Veeder Root Certified Technician for Le Mesnager Engineering conducted the UST certification. Jeanne Redeman, Criminalist III for the Sheriff Crime Lab, was present during the site walk through and Review of documentation.

RECEIVED JAN 27 2010

Observations/violations / Notice to Comply:

① Failed to properly label hazardous waste containers. All of the hazardous waste containers observed onsite were missing the ~~hazardous waste~~ physical state (solid/liquid) and ~~physical~~ hazardous properties (flammable/toxic/reactive/corrosive/other) information on the hazardous waste labels. The hazardous waste accumulation area had labeled bins to accumulate hazardous waste containers based on their hazardous property. One bin was labeled as "general," contained individually packaged bottles of hazardous waste that were missing haz waste labels. Several containers of picric acid in the hazardous waste accumulation area were missing haz waste labels.

② Accumulated hazardous waste beyond the accumulation time limit of 90 days. Since your facility generates more than 1kg of acutely hazardous

☒ This is an annual certification that the Hazardous Materials Business Plan (inventory & site map, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.

SPR
Initials of Business Representative

PRINTED NAME OF BUSINESS REPRESENTATIVE: Jeanne Redeman
DATE SIGNED: 1/21/10
SIGNATURE OF BUSINESS REPRESENTATIVE: X
TITLE OF BUSINESS REPRESENTATIVE: Criminalist III

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

PERMIT # 114261
DATE 1/21/2010
PAGE 2 OF 4

BUSINESS ADDRESS: 5255 Mt. Etna Dr. ZIP CODE: 92117

waste per month, Large Quantity Generator (LQG) regulations apply. Several 1 liter sized glass bottles were observed to contain hazardous waste beyond accumulation time limits (date = 12/4/08). Under Satellite accumulation, hazardous waste may not be accumulated onsite for more than 1 year. A container of DFO stock was also observed in the same area (Latent Prints) with an expiration date of 12/18/08. A ¼ full 55g drum of Phenol waste in the hazardous (Wet Chem) waste accumulation area had an accum start date of 8/29/08.

Corrective actions: Within 30 days, send proof to HMD that all containers of hazardous waste have been properly labeled and send proof hazardous waste has been properly managed within the accumulation time limits. Ensure employees are trained on these requirements to ensure future compliance.

Observations/remarks:

A) According to statements made by an employee in the Firearms area, small amounts of acids and bases are used in serial number restoration on firearms. Be advised that benchtop treatment is limited to pH neutralization. Be sure to adhere to standardized SOPs & maintain copies onsite. Ensure employees are adequately trained on the established SOPs. Maintaining logs onsite can help prove proper treatment/neutralization of waste. Be sure to make a proper waste determination of any waste generated, especially if it is suspected that any waste stream generated may also contain heavy metals.

B) Be sure to make proper waste classifications for haz waste placed in the "general" box in the haz waste accumulation area to ensure incompatibles are not co-mingled and/or improperly labeled. The same scrutiny should apply to ward hazardous materials, including the NaOH and acid observed today in the same compartment in the Controlled Substances Lab.

C) The following hazardous wastes were observed onsite today missing the haz. state & physical properties on the haz waste labels. Note that this is not a complete list and only represents less than ¼ of the improperly labeled haz waste onsite: organic waste (~1L) in arson Unit; DFO stock (~1L) missing label in Latent Prints unit; and in the haz waste accum area: 5gal "CSA Debris," ~1L DuQuenois Reagent; Chloroform waste (& controlled substances); Phenol waste; Formadine waste; etc. Copies of photos taken to demonstrate the inadequate labeling observed (violation = 1) will be provided.

SIGNATURE OF BUSINESS REPRESENTATIVE | 1/21/10 DATE SIGNED | Criminalist III TITLE OF BUSINESS REPRESENTATIVE

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

PERMIT # 114261
DATE 1/21/2010
PAGE 3 OF 4

BUSINESS ADDRESS: 5255 Mt. Edna Dr. ZIP CODE: 92117

(D) All components of the UST tested today passed and were certified. SB989 occured in 8/6/9 and all components passed. The DUSTO employee training occured on 4/15/09 (be sure to add the training record to the UST paperwork onsite).

Note: Be sure to submit the "RTC" form to HMD within 30days when corrective acomsade complete. Form provided by HMD today.

SIGNATURE OF BUSINESS REPRESENTATIVE | 1/21/10 DATE SIGNED | Criminalist III TITLE OF BUSINESS REPRESENTATIVE

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT
Large Quantity Generators of Hazardous Waste

PERMIT # 142161
DATE 1/21/2010
PAGE 4 OF 4

BUSINESS ADDRESS: 5255 Mt. Etna Dr. **ZIP:** 92117

VIOLATION REPORT: The items checked below refer to specific section numbers of Title 22 of the California Code of Regulations and Chapter 6.5 of the California Health and Safety Code. Large Hazardous Waste Quantity Generator=(LQG).
All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form (HM-926) to document your return to compliance. Your Specialist can provide this form. Please call (619) 338-2222 or your Specialist if you have any questions.

HAZARDOUS WASTE REQUIREMENTS

RECORDKEEPING

Viol #	V	VIOLATION DESCRIPTION
	☐ 0144	Failed to have SB14 compliance documentation for review. 25244.21, 25244.19, & 67100.3(a), 67100.2(a)
	☐ 0150	Failed to complete Biennial Report (RCRA LQG only). 66262.41(b) {keep copy per 66262.40(b)}

STORAGE AND HANDLING -Pursuant to 66262.34(a)

	☐ V0201	Failed to keep container closed. 66265.173(a)
(1)	☒ V0202	Failed to properly label and/or date hazardous waste container and/or tank. 66262.34(a)(2); 66262.34(a)(3) and 66262.34(f)
	☐ V0205	Failed to transfer hazardous waste from a container that leaked or was in poor condition to another container in good condition. 66265.171
	☐ V0206	Failed to keep ignitable or reactive waste 50 feet from property line. 66265.176
	☐ V0207	Did not maintain &/or operate facility to minimize possibility of release or fire. 66265.31
	☐ V0208	Failed to conduct weekly inspections. 66265.174
(2)	☒ V0209	Accumulated hazardous waste more than 90 days. 25201(a) and 66262.34(a)&(c)
	☒ V0212	Failed to properly separate incompatible wastes. 66265.177
	☐ V0213	Failed to use a lined/compatible container. 66265.172
	☐ V0235	Did not accumulate waste in container or tank. 66262.34(a)(1)

TRAINING, EMERGENCY CONTINGENCY PLAN & EMERGENCY PROCEDURES
Pursuant to 66262.34(a)(1)(A)

	☐ V0401	Failed to maintain training records. 66265.16(d) & (e)
	☐ V0402	Employee training program not adequate. 66265.16(a) & (b)
	☐ V0404	Spill or fire control equipment not available. 66265.32(c), (d)
	☐ V0405	Failed to maintain aisle space. 66265.35
	☐ V0406	Emergency contingency plan not prepared and/or kept onsite. 66265.51(a), 66265.53(a) & (b)
	☐ V0413	Failed to have an adequate emergency contingency plan. 66265.52
	☐ V0414	Failed to train employees annually. 66265.16(c)

HAZARDOUS WASTE REQUIREMENTS

TRAINING, EMERGENCY CONTINGENCY PLAN & EMERGENCY PROCEDURES
Pursuant to 66262.34(a)(1)(A)

Viol #	V	VIOLATION DESCRIPTION
	☐ V0415	Failed to equip facility with internal emergency communications or alarm system. 66265.32(a)
	☐ V0416	Failed to carry out contingency plan during an emergency. 66265.51(b)
	☐ V0417	Failed to have an emergency coordinator on call or available during emergency. 66265.55

HAZARDOUS WASTE TANK REQUIREMENTS
Pursuant to 66262.34(a)(1)(A)

	☐ V1601	Failed to obtain a PE assessment for hazardous waste (HW) tank system. 66265.191(a) or 66265.192(a)
	☐ V1602	Failed to provide adequate PE assessment report for a HW tank system. 66265.191(g) or 66265.192(k)
	☐ V1603	Failed to provide proper secondary containment and/or leak detection for HW tank system. 66265.193(a)
	☐ V1604	Failed to maintain secondary containment empty. 66265.196(b) & (c), 66265.194(c)
	☐ V1605	Failed to inspect and/or document daily HW tank system inspections. 66265.195(c)
	☐ V1606	Failed to use proper spill/overfill prevention controls and practices. 66265.194(a) & (b)
	☐ V1607	Failed to adequately design or maintain corrosion protection. 66265.191(b)(3) or 66265.192(a)&(f)
	☐ V1608	Failed to complete annual integrity assessment for HW tank system without secondary containment. 66265.191(a) & (e)
	☐ V1609	Failed to remove unfit HW tank system from service. 66265.196
	☐ V1611	Failed to properly complete and/or document closure for a HW tank system. 67383.3 & 66265.197(a)&(b)
	☐ V1619	Failed to install safety measures for HW tank system holding ignitable or reactive waste. 66265.198(a)
	☐ V1620	Failed to immediately remove from service a HW tank system that leaked or failed. 66265.196(b) & (c)
	☐ V1621	Failed to notify DTSC when a release to environment occurred from HW tank system. 66265.196(e)(1)or(3)
	☐ V1622	Failed to meet air emission standards for HW tank system with VOC waste. 66265.202 & 66265.1082 (a)(b) or (c)
	☐ V1623	Failed to develop written plan & schedule to perform VOC emissions monitoring. 66265.1089(b)
	☐ V1624	Failed to comply with the 3 year record keeping requirement for tank accumulating VOC waste. 66265.1090(a)
	☐ V1625	Failed to properly control air pollutant emissions for tank accumulating VOC waste. 66265.202, 66265.1083(b) & 66265.1085(b)

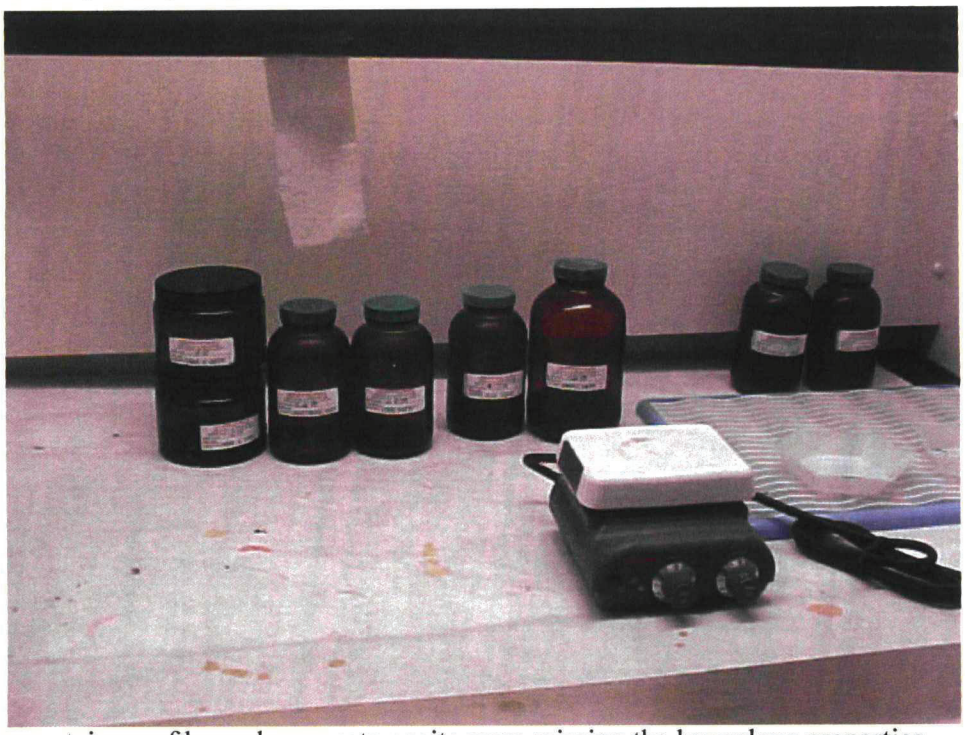
SIGNATURE OF BUSINESS REPRESENTATIVE

1/21/10
DATE SIGNED

Crumenaker III
TITLE OF BUSINESS REPRESENTATIVE

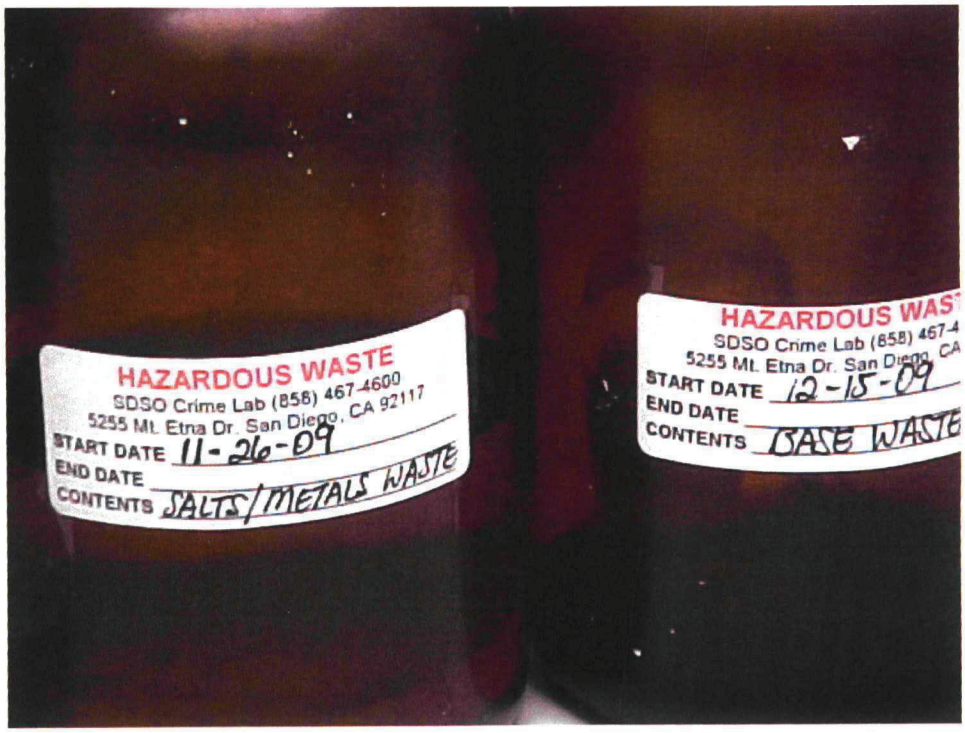
Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
Phone: (619) 338-2222 1-800-253-9933 http://www.sdcounty.ca.gov/deh/hmd/index.html

SD Cnty Sheriff Crime Lab, 5255 Mt. Etna Dr., San Diego, 92117 HMD #114261, 1/21/2010
Photos taken by: Sonja Ingmanson, HMD



All of the containers of hazardous waste onsite were missing the hazardous properties and physical state information on the hazardous waste labels. See the next photo for a close up. 1

SD Cnty Sheriff Crime Lab, 5255 Mt. Etna Dr., San Diego, 92117 HMD #114261, 1/21/2010
Photos taken by: Sonja Ingmanson, HMD



Hazardous waste missing hazardous properties and physical state information on the labels. 2

ENTERED MAR 0 1 2011 15

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 2 DATE 2/4/11
PERMIT# 114261 BUS. CODE K70
TIME START 900 END 1225
SPECIALIST Ingmanson

FACILITY NAME SD Cnty Sheriff Crime Lab
ADDRESS 5255 Mt. Etna Dr.
CITY/ZIP San Diego / 92117

INSPECTION CONTACT
Anthony Demaria
TITLE Safety Manager
PHONE (858) 467-4600

On the above date, the County inspected your facility under the authority of the California Health and Safety Code (H&SC), to determine compliance with applicable provisions of the H&SC, the California Code of Regulations (CCR), and the San Diego County Code of Regulatory Ordinances (SDCC). **This report serves as a Notice to Comply (H&SC 25187.8 & 25404.1.2) for any minor violations as defined in H&SC 25404 and 25117.6.** This report may contain both minor and more significant (Class II) violations. Minor violations do not include repeat violations or violations remaining uncorrected for more than 30 days (or as specified below). Minor violations do not include knowing, willful, intentional, or chronic violations; nor do they include violations showing a pattern of neglect or disregard. The remarks below are intended to provide guidance to correct any violations indicated on the attached violation report. You must submit a written response to this report within 30 days (or as specified below) demonstrating that all violations have been corrected or include a written notice of disagreement that clearly states the reason for any disputed violations. Prompt correction can protect you from penalties for a "minor violation". Penalties can be imposed for each day in violation for all other violations even if they are corrected promptly. However, correction within 30 days (or as specified below) will make a penalty less likely.

Y*	N/A*	NOTE: **Reinspection fees will be charged if additional inspections are required to determine compliance.**	Y*	N/A*	
☒	☐	Unified Program Facility Permit current	☒	☐	Permit Expires on: 3/31/2011
☒	☐	Hazardous Materials Business Plan available	☒	☐	Contingency Plan available ☐LQG ☒SQG
☒	☐	Employee training is adequate	☒	☐	Employee training records available
☒	☐	Waste disposal records available for review	☒	☐	Universal waste managed properly
☒	☐	Emergency contacts current ☒ Updated today	☒	☐	Waste containers ☒ closed ☒ labeled
☒	☐	Chemical inventory/map current ☐ Updated today	☒	☐	Waste containers in good condition

Consent to inspect granted by: ☒ Inspection Contact ☐ Other:

Permission was granted today to conduct a routine annual Monitoring System Certification of the 4000 UST of diesel fuel by Anthony Demaria, Safety Manager, and Mike Johnson, DUSTO. Rene LeMesnager of LeMesnager Engineering conducted the UST monitoring system testing and certification. Anthony DeMaria was present for the site walkthrough and review of paperwork.

UST observations / Remarks:

A) All components of the UST Monitoring System tested today passed and were certified, including the spill bucket.

RECEIVED FEB 24 2011

B) The Annual DUSTO-Employee training occured on 8/25/10

C) The next Secondary containment testing is due by 11/14/2011.

D) The current letter of Financial Responsibility needs to be added to the UST binder; the letter observed today was dated 7/14/2010

The following areas were inspected today: Maintenance, Controlled Substances, Forensic Biology, Forensic Alcohol, Latent Fingerprint Development, Crime Scene Investigation Unit, Cooling Tower chemical storage, Hazardous Waste accumulation area and the dumpsters.

☒ This is an annual certification that the Hazardous Materials Business Plan (inventory & site map, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are stored.

A.D.
Initials of Facility Representative

PRINTED NAME OF FACILITY REPRESENTATIVE: Anthony DeMaria

DATE SIGNED: 02/04/11

SIGNATURE OF FACILITY REPRESENTATIVE: X

TITLE OF FACILITY REPRESENTATIVE:

PERMIT # 1142601
DATE 2/4/2011
PAGE 2 OF 2

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

Hazardous Materials/Waste and Medical Waste Observations/Remarks:

BUSINESS ADDRESS: 5255 Mt. Etna Dr. ZIP CODE: 92117

A) The majority of containers onsite were observed to be properly labeled. any ~~violations~~ labeling violations observed were corrected onsite during todays walkthrough including: One red bag, TWO sharps containers, and 2-1gal containers of Vinyl Flat Paint. Mr. DeMaria stated that each area/unit has ~~[illegible]~~ an assigned compliance/Safety person who conducts routine visual inspections to verify containers are properly labeled, closed, and managed. A yearly inventory of the site is conducted to ensure chemicals are not kept beyond expiration dates.

B) Be sure to properly manage any empty containers larger than 5gal by adding the date emptied, the word "empty" and properly manage them within a year. 11 - empty 5gal containers were observed accumulating by the cooling towers. Also make proper waste determinations of any chemicals in this area. If any are unusable and/or are waste, ensure they are managed according to requirements if hazardous.

C) If any paint related hazardous waste is generated from building maintenance, ensure it is immediately labeled and managed properly. Do not transport any hazardous waste to another site. A registered hazardous waste hauler must always be used and must be transported to an authorized Treatment, Storage, and Disposal Facility (TSDF).

D) If your facility has more than 500 pounds of ammunition onsite, then it should be included on your HMD permit inventory.

E) Be sure to recertify your Hazardous Materials Business Plan (HMBP) and Carcinogen/reproductive toxin list annually, even if no changes are made. Both were recertified today (last previous date was 2/23/2009. any other changes to these forms or to the Medical Waste Management Plan (MWMP) must be submitted and recertified with HMD within 30 days of the changes made.

SIGNATURE OF BUSINESS REPRESENTATIVE	DATE SIGNED	TITLE OF BUSINESS REPRESENTATIVE
[signature]	02/04/11	Anthony DeMaria

SAN DIEGO COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH-CUPA
HAZARDOUS MATERIALS DIVISION
P.O. Box 129261, San Diego, CA 92112-9261
1-800-253-9933 (619) 338-2222 Fax (619) 338-2377

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:

The San Diego County, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a complete Hazardous Materials Business Plan (HMBP),** only after the initial submittal of a complete HMBP. The business must certify that a complete HMBP has been prepared and is maintained at the site where the hazardous materials are stored. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must also annually certify that the HMBP is current and maintained on site. See Back for instructions and further clarification.

I. IDENTIFICATION

FACILITY ID# 3 7 [redacted] 0 0 0 [redacted] 1 1 4 2 6 1 [redacted]

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
San Diego Sheriff's Crime Laboratory

BUSINESS SITE ADDRESS 103
5255 Mt. Etna Drive

CITY 104
San Diego

CA

ZIP CODE 105
92117-6912

II. CERTIFICATION STATEMENT

☒ **CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES: This is an annual renewal to certify that the list of carcinogens and/or reproductive toxins last provided is a current list as specified in the San Diego County Code of Regulatory Ordinances Section 68.1113.**

Check only one of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☒ **ANNUAL CERTIFICATION WITHOUT CHANGES: This is an annual certification (H&SC Section 25505(d)&(e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored.**

☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification. This submittal satisfies annual certification requirements specified in H&SC Section 25505(d)&(e)(2).**

As an Authorized Representative, I certify under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that : a)The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administrative Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
Anthony D.L	2/4/11
NAME OF SIGNER (print)	TITLE OF SIGNER
Anthony DeMaria	Supervising Criminalist

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ Site Map	___/___/___
☒ *Emergency Contacts	2/4/11
☐ *Chemical Inventory	___/___/___

***Note**: Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted.

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map. A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐** FIRE DIST.____

Specialist's Signature (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)

REMARKS: _____

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

FA 1142 61
Kiva comm 5/27/11

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2139 1-800-253-9933
http://www.sdcounty.ca.gov/deh/hmd/index.html

Designation of Underground Storage Tank (UST) Operator

UST Owner Statement of Understanding and Compliance with UST Requirements

Facility Name: Sheriff Regional Crime Lab	Facility Permit #: 1 1 4 2 6 1
Facility Address: 5255 Mount Etna	Phone:
City: San Diego	Zip Code: 92117-

Reason for Submitting this Form *(Check One)* ☐ Initial Certification ☐ Change of Designated Operator ☒ Certificate Renewal

Designated UST Operator(s) for this Facility

PRIMARY DESIGNATED UST OPERATOR

Designated Operator's Name: Kenneth M. Johnson
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (858)694-3615
International Code Council Certification #: 5248983

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee ☐ Service Technician ☐ Third-Party

Expiration Date: 2012-08-27

ALTERNATE 1 *(Optional)*

Designated Operator's Name: Melvin Zamora
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (619) 572-5860 x
International Code Council Certification #: 8084365

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee ☐ Service Technician ☐ Third-Party

Expiration Date: 2012-10-15

ALTERNATE 2 *(Optional)*

Designated Operator's Name: Craig Cook
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (760) 940-4522 x
International Code Council Certification #: 8071778

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee ☐ Service Technician ☐ Third-Party

Expiration Date: 2012-06-09

NOTIFY THE LOCAL REGULATORY AGENCY WITHIN 30 DAYS OF ANY CHANGES TO THIS INFORMATION

I certify that, for the facility indicated at the top of this page, the individual(s) listed above will serve as Designated UST Operator(s). The individual(s) will conduct and document monthly facility inspections and annual facility employee training, in accordance with California Code of Regulations, Title 23, Sections 2715(c) - (f).
Furthermore, I understand and am in compliance with the requirements (statutes, regulations, and local ordinances) applicable to underground storage tanks.

MC Urquhart — DATE: 3/10/2011
NAME OF TANK OWNER OR OWNER'S AGENT (Please Print)

MC Urquhart — OWNER'S PHONE #: (858) 694-2111 x
SIGNATURE OF TANK OWNER OR OWNER'S AGENT

Return this completed form to: **HMD-Designated UST Operator**
P.O. Box 129261, San Diego, CA 92112-9261

HM-9174 (11/04)

County of San Di
DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS M
P.O. BOX 129261, SAN DIEGO, CA 92112-92
(858) 505-6880 FAX (858) 505-6848

Please update effective: 11/28/11
KIVA reviewed on: 11/28/11
Chris Kasprovich

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT & SPILL CONTAINMENT TESTING REPORT FORM

This form is intended for use by contractors performing initial & periodic testing of UST secondary containment systems. Use the appropriate pages of this form to report results for all components tested. The completed form, written test procedures, and printouts from tests (if applicable), must be provided to the facility owner/operator for submittal to the County of San Diego Department of Environmental Health Hazardous Materials Division UST Group.

Permit Number: **Plan Check Number:**

1. FACILITY INFORMATION

Facility Name: County Crime Lab	Date of Testing: 10/25/2011
Facility Address: 5255 Mt Etna Drive	**Test Type:**
Facility Contact: Mike Johnson Phone: (858) 694-3615	☐ Initial ☐ Repair Test
Date Local Agency Was Notified of Testing: 10/14/2011	☐ 6 month ☐ Other:
Name of Local Agency Inspector *(if present during testing)*: None	☒ 36 month

2. TESTING CONTRACTOR INFORMATION

Company Name: Jenal Engineering Corporation	
Technician Conducting Test: Keegan Slatten	
Credentials: ☒ CSLB Licensed Contractor	☐ SWRCB Licensed Tank Tester
License Type: A	License Number: 602806

Manufacturer Training

Manufacturer	Component(s)	Date Training Expires
Franklin Fueling	Incon STS 1000	2/17/2013

3. SUMMARY OF TEST RESULTS

Component	Pass	Fail	Not Tested	Repairs Made	Component	Pass	Fail	Not Tested	Repairs Made
Diesel Piping Sump	☒	☐	☐	☐		☐	☐	☐	☐
Diesel Fill Bucket	☒	☐	☐	☐		☐	☐	☐	☐
Annular Space	☒	☐	☐	☐		☐	☐	☐	☐
Product Supply Line	☒	☐	☐	☐		☐	☐	☐	☐
Product Return Line	☒	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
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	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐

If hydrostatic testing was performed, describe what was done with the water after completion of tests:

Rinse aid left on site. Will be secured when all five (5) sites are completed.

For any equipment capable of generating a print out of test results, you must attach a copy of the test report to this certification ☒ **System printout attached.**

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

To the best of my knowledge, the facts stated in this document are accurate and in full compliance with legal requirements

Technician's Signature: Keegan Slatten Date: 10/25/2011

4. TANK ANNULAR TESTING

Test Method Developed By:	☒ Tank Manufacturer	☒ Industry Standard	☐ Professional Engineer
	☐ Other *(Specify)*		
Test Method Used:	☐ Pressure	☒ Vacuum	☐ Hydrostatic
	☐ Other *(Specify)*		
Test Equipment Used: Marsh Process Gauges P-105		Equipment Resolution: +/- .5% FS	

	Tank # 1 Diesel	**Tank #**	**Tank #**	**Tank #**
Is Tank Exempt From Testing?[1]	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Tank Capacity:	4,000			
Tank Material:	FG/Steel			
Tank Manufacturer:	Joor			
Product Stored:	Diesel			
Wait time between applying pressure/vacuum/water and starting test:	½ Hour			
Test Start Time:	8:30			
Initial Reading (R_I):	-15" hg			
Test End Time:	9:30			
Final Reading (R_F):	-15" hg			
Test Duration:	1 Hour			
Change in Reading (R_F-R_I):	0			
Pass/Fail Threshold or Criteria:	+/- 0			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Was sensor removed for testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, & recommended follow-up for failed tests)*

[1] Secondary containment systems where the continuous monitoring automatically monitors both the primary and secondary containment, such as systems that are hydrostatically monitored or under constant vacuum, are exempt from periodic containment testing. {California Code of Regulations, Title 23, Section 2637(a)(6)}

5. SECONDARY PIPE TESTING

Test Method Developed By:	☒ Piping Manufacturer	☒ Industry Standard	☐ Professional Engineer
	☐ Other *(Specify)*		
Test Method Used:	☒ Pressure	☐ Vacuum	☐ Hydrostatic
	☐ Other *(Specify)*		
Test Equipment Used: Marsh Process Gauges P-140		Equipment Resolution: +/- .5% FS	

	Piping Run # 1 FOS	**Piping Run #** 2 FOR	**Piping Run #**	**Piping Run #**
Piping Material:	Poly	Poly		
Piping Manufacturer:	Environ	Environ		
Piping Diameter:	¾"	¾"		
Length of Piping Run:	23'	23'		
Product Stored:	Diesel	Diesel		
Method and location of piping-run isolation:	Fernco termination @ sump & generator	Fernco termination @ sump & generator		
Wait time between applying pressure/vacuum/water and starting test:	½ Hour	½ Hour		
Test Start Time:	8:30	8:30		
Initial Reading (R_I):	5.0 psi	5.0 psi		
Test End Time:	9:30	9:30		
Final Reading (R_F):	5.0 psi	5.0 psi		
Test Duration:	1 Hour	1 Hour		
Change in Reading (R_F-R_I):	0.0	0.0		
Pass/Fail Threshold or Criteria:	+/- 0.0	+/- 0.0		
Test Result:	☒ **Pass** ☐ **Fail**	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

6. PIPING SUMP TESTING

Test Method Developed By:	☒ Sump Manufacturer	☒ Industry Standard	☐ Professional Engineer
	☐ Other *(Specify)*		
Test Method Used:	☐ Pressure	☐ Vacuum	☒ Hydrostatic
	☐ Other *(Specify)*		
Test Equipment Used: Incon STS 1000		Equipment Resolution: +/- .0001	

	Sump # 1	Sump #	Sump #	Sump #
Sump Diameter:	35"			
Sump Depth:	24"			
Sump Material:	FG			
Height from Tank Top to Top of Highest Piping Penetration:	11"			
Height from Tank Top to Lowest Electrical Penetration:	8"			
Condition of sump prior to testing:	Good			
Portion of Sump Tested[2]	Approx 50%			
Does turbine shut down when sump sensor detects liquid (both product and water)?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Turbine shutdown response time	N/A			
Is system programmed for fail-safe shutdown?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was fail-safe verified to be operational?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Wait time between applying pressure/vacuum/water and starting test:	½ Hour			
Test Start Time:	9:08 9:23			
Initial Reading (R_I):	6.9377 6.9373			
Test End Time:	9:23 9:38			
Final Reading (R_F):	6.9372 6.9370			
Test Duration:	15 Min x 2			
Change in Reading (R_F-R_I):	-.0005 -.0003			
Pass/Fail Threshold or Criteria:	+/- .0020			
Test Result:	☒ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail
Was sensor removed for testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

[2] If the entire depth of the sump is not tested, specify how much was tested. If the answer to any of the questions indicated with an asterisk (*) is "NO" or "NA", the entire sump must be tested. (See SWRCB LG-160)

9. SPILL/OVERFILL CONTAINMENT BOXES

Facility is Not Equipped With Spill/Overfill Containment Boxes ☐			
Spill/Overfill Containment Boxes are Present, but were Not Tested ☐			
Test Method Developed By:	☒ Spill Bucket Manufacturer	☒ Industry Standard	☐ Professional Engineer
	☐ Other *(Specify)*		
Test Method Used:	☐ Pressure	☐ Vacuum	☒ Hydrostatic
	☐ Other *(Specify)*		
Test Equipment Used: Incon STS 1000		Equipment Resolution: +/- .0001	

	Spill Box # 1 Diesel	**Spill Box #**	**Spill Box #**	**Spill Box #**
Bucket Diameter:	**12"**			
Bucket Depth:	**15"**			
Wait time between applying pressure/vacuum/water and starting test:	**½ Hour**			
Test Start Time:	**9:08** **9:28**			
Initial Reading (R_I):	**3.7322** **3.7320**			
Test End Time:	**9:23** **9:38**			
Final Reading (R_F):	**3.7319** **3.7319**			
Test Duration:	**15 Minute x 2**			
Change in Reading (R_F-R_I):	**-.0003** **-.0001**			
Pass/Fail Threshold or Criteria:	**+/- .0020**			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

Send Completed Form to:
County of San Diego,
Department of Environmental Health,
Hazardous Materials Division
UST Group
P.O. Box 129261
San Diego CA 92112-9261

CRIME LAB
MT ETNA
SANDIEGO CA

10/25/2011 9:23 AM

SUMP LEAK TEST REPORT

DIE FB

TEST STARTED	9:08 AM
TEST STARTED	10/25/2011
BEGIN LEVEL	3.7322 IN
END TIME	9:23 AM
END DATE	10/25/2011
END LEVEL	3.7319 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

DIE PS

TEST STARTED	9:08 AM
TEST STARTED	10/25/2011
BEGIN LEVEL	6.9377 IN
END TIME	9:23 AM
END DATE	10/25/2011
END LEVEL	6.9372 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

CRIME LAB
MT ETNA
SANDIEGO CA

10/25/2011 9:38 AM

SUMP LEAK TEST REPORT

DIE FB

TEST STARTED	9:23 AM
TEST STARTED	10/25/2011
BEGIN LEVEL	3.7320 IN
END TIME	9:38 AM
END DATE	10/25/2011
END LEVEL	3.7319 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

DIE PS

TEST STARTED	9:23 AM
TEST STARTED	10/25/2011
BEGIN LEVEL	6.9373 IN
END TIME	9:38 AM
END DATE	10/25/2011
END LEVEL	6.9370 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

File # 1142601
(see last page for all permits covered).
Kiva comm made 2/18/11 under all permits

DONALD F. STEUER
CHIEF FINANCIAL OFFICER
(619) 531-5413
FAX (619) 531-5219

County of San Diego

AUDITOR AND CONTROLLER
1600 PACIFIC HIGHWAY STE 166, SAN DIEGO, CALIFORNIA 92101-2478

TRACY M. SANDOVAL
ASST. CHIEF FINANCIAL OFFICER/
AUDITOR & CONTROLLER
(619) 531-5413
FAX (619) 531-5219

January 24, 2011

TO: Jack Miller, Director
Department of Environmental Health

FROM: Donald F. Steuer
Chief Financial Officer

MUNICIPAL FINANCIAL TEST DEMONSTRATING FINANCIAL RESPONSIBILITY FOR UNDERGROUND STORAGE TANKS BASED ON THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2010

Pursuant to Federal Regulation 40 CFR 280.105 (c), this letter is in support of the use of the local governmental financial test to demonstrate financial responsibility for taking corrective action and/or compensating third parties for bodily injury and property damage caused by sudden accidental releases and/or non-sudden accidental releases in the amount of at least $500,000 per occurrence and $1 million annual aggregate arising from operating underground storage tanks (See Worksheet for Municipal Financial Test, Attachment A).

A listing of underground storage tank facilities that are assured by this financial test is included on Attachment B.

The County of San Diego has not received an adverse opinion, or a disclaimer of opinion, from an independent auditor on its financial statements for latest completed fiscal year.

If you have any questions, please contact Tracy Drager, Deputy Controller at (619) 531-5338.

Donald F. Steuer

DONALD F. STEUER
Chief Financial Officer

AFC:TD:lr

Attachments

c: Michael P. Dorsey, Chief, Environmental Health
Sharyl Blackington, Manager, Fleet Maintenance Support

DONALD F. STEUER
CHIEF FINANCIAL OFFICER
(619) 531-5413
FAX (619) 531-5219

County of San Diego

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1600 PACIFIC HIGHWAY STE 166, SAN DIEGO, CALIFORNIA 92101-2478

TRACY M. SANDOVAL
ASST. CHIEF FINANCIAL OFFICER/
AUDITOR & CONTROLLER
(619) 531-5413
FAX (619) 531-5219

January 24, 2011

TO: Jack Miller, Director
Department of Environmental Health

FROM: Donald F. Steuer
Chief Financial Officer

CHIEF FINANCIAL OFFICER LETTER REGARDING FINANCIAL RESPONSIBILITY FOR UNDEGROUND STORAGE TANKS (UST) BASED ON THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2010

The attached annual Chief Financial Officer letter demonstrating the County's financial responsibility for maintaining Underground Storage Tanks (UST) is submitted to the Department of Environmental Health pursuant to Title 40, Code of Federal Regulations (CFR), Part 280, Subpart H, Section 280.93.

The aforementioned federal regulations requires all owners and operators to show, through an approved method, their ability to pay for potential cleanup and third party damages resulting from accidental releases from their USTs. To demonstrate financial responsibility, the County of San Diego uses the approved local government financial test, pursuant to Title 40, CFR Section 2880.105. In this regard, this report is submitted to your office in your capacity as the regulator in this area for the County of San Diego.

As shown in the attached report, the County currently owns and operates 29 underground tanks that are used to store gasoline and diesel fuel at various County facilities. Financial responsibility means that money will be available to meet potential cleanup costs or third party lawsuits resulting from leaking USTs.

The County successfully passed the test with a score of 1.713 (it must be greater than zero). Assumptions in the calculations, for which we received authorization from the Environmental Protection Agency, may include netting advance refunding of County debt and excluding certain Federal and State revenues with no matching local fund requirements.

As evidence that this procedure has been satisfactorily completed, copies of this letter are provided to the Department of General Services, Fleet Management, to post at all of the UST sites.

If you have any questions, please contact Tracy Drager, Deputy Controller at (619) 531-5338.

Donald F. Steuer

DONALD F. STEUER
Chief Financial Officer

AFC:TD:lr

Attachments

COUNTY OF SAN DIEGO
WORKSHEET FOR MUNICIPAL FINANCIAL TEST
Year Ended June 30, 2010
(in Thousands *)

Part I: Basic Information

1. Total Revenues		
a. Revenues	4,204,946	*
b. Subtract interfund transfers	452,327	*
c. Total Revenues	3,752,619	*
2. Total Expenditures		
a. Expenditures	4,234,362	*
b. Subtract Interfund Transfers	458,337	*
c. Total Expenditures	3,776,025	*
3. Local Revenues		
a. Total Revenues (from 1c)	3,752,619	*
b. Subtract intergovernmental transfers	2,218,079	*
c. Local Revenues	1,534,540	*
4. Debt Service		
a. Interest and fiscal charges	93,926	*
b. Add debt retirement	291,001	*
c. Total Debt Service	384,927	*
5. Total Funds	2,251,151	*
6. Population	3,224	*

Part II: Application of Test

7. Total Revenues to Population		
a. Total Revenues (from 1c)	3,752,619	*
b. Population (from 6)	3,224	*
c. Divide 7a by 7b	1,163.964	
d. Subtract 417	746.964	
e. Divide by 5,212	0.143	
f. Multiply by 4.095	0.587	
8. Total Expenses to Population		
a. Total Expenses (from 2c)	3,776,025	*
b. Population (from 6)	3,224	*
c. Divide 8a by 8b	1,171.224	
d. Subtract 524	647.224	
e. Divide by 5,401	0.120	
f. Multiply by 4.095	0.491	
9. Local Revenues to Total Revenues		
a. Local Revenues (from 3c)	1,534,540	*
b. Total Revenues (from 1c)	3,752,619	*
c. Divide 9a by 9b	0.409	
d. Subtract .695	(0.286)	
e. Divide by .205	(1.395)	
f. Multiply by 2.840	(3.963)	
10. Debt Service to Population		
a. Debt Service (from 4c)	384,927	*
b. Population (from 6)	3,224	*
c. Divide 10a by 10b	119.394	
d. Subtract 51	68.394	
e. Divide by 1,038	0.066	
f. Multiply by -1.866	(0.123)	

11. Debt Service to Total Revenues		
a. Debt Service (from 4c)	384,927	*
b. Total Revenues (from1c)	3,752,619	*
c. Divide 11a by 11b	0.103	
d. Subtract .068	0.035	
e. Divide by .259	0.133	
f. Multiply by -3.533	(0.472)	
12. Total Revenues to Total Expenses		
a. Total Revenues (from 1c)	3,752,619	*
b. Total Expenses (from 2c)	3,776,025	*
c. Divide 12a by 12b	0.994	
d. Subtract .910	0.084	
e. Divide by .899	0.093	
f. Multiply by 3.458	0.322	
13. Funds Balance to Total Revenues		
a. Total Funds (from 5)	2,251,151	*
b. Total Revenues (from 1c)	3,752,619	*
c. Divide 13a by 13b	0.600	
d. Subtract .891	(0.291)	
e. Divide by 9.156	(0.032)	
f. Multiply by 3.270	(0.104)	
14. Funds Balance to Total Expenses		
a. Total funds (from 5)	2,251,151	*
b. Total Expenses (from 2c)	3,776,025	*
c. Divide 14a by 14b	0.596	
d. Subtract .866	(0.270)	
e. Divide by 6.409	(0.042)	
f. Multiply by 3.270	(0.138)	
15. Total Funds to Population		
a. Total Funds (from 5)	2,251,151	*
b. Population (from 6)	3,224	*
c. Divide 15a by 15b	698.248	
d. Subtract 270	428.248	
e. Divide by 4,548	0.094	
f. Multiply by 1.866	0.176	
16. Add 7f + 8f + 9f + 10f + 11f + 12f + 13f + 14f + 15f + 4.937	1.713	

I hereby certify that the financial index shown on line 16 of the worksheet is greater than zero and that the wording of this letter is identical to the wording specified in 40 CFR Part 280.105(c) as such regulations were constituted on the date shown immediately below.

DONALD F. STEUER
Chief Financial Officer

1-25-11
Date

CPN	PERMIT	FUEL	LOCATION	Annual	Secondary
0047	114740	DIESEL	South Bay Regional Center 4-8-09 500 3rd Ave. 399009 Chula Vista, Ca. 91910	4/28/2009	6/25/2008
0072	120813	DIESEL	Las Colinas Detention 8-4-08 9000 Cottonwood Ave. Santee, CA. 92041	7/30/2008	7/30/2008
0086	210568	DIESEL	County Operations Center 5555 Overland Ave. San Diego Ca. 92123	7/8/2009	5/27/2009
0087	129820	DIESEL	NCRC Regional 10-30-08 325 S. Melrose 343735 Vista, CA. 92083	11/18/2009	12/5/2008
0090	138403	DIESEL	San Diego Central Jail 3-24-09 1173 Front St. San Diego Ca. 92101	4/14/2009	1/27/2009
0348	202823	DIESEL	East Mesa Juvenile Detention 446 Alta Rd. 3-24-09 San Diego Ca. 92154	4/21/2009	12/18/2008
0350	121047	DIESEL	C.A.C. 4-22-09 1600 Pacific Highway 000000 San Diego, CA. 92101	4/27/2009	12/12/2008
0392	126500	DIESEL	S.D. County Phyciatric Hospital 3853 Rosecrans Ave. 017950 San Diego Ca. 92110 3-25-09	2/9/2009	12/11/2008
0395	114261	DIESEL	Sheriff Crime Lab 4-15-09 5255 Mount Etna San Diego, CA. 92117	1/23/2009	11/14/2008
2031	105234	Jet A	Gillespie Field Astrea 3-12-08 1745 N. Marshall Ave. #2068 El Cajon, CA. 92020	1/16/2009	12/23/2008

Send to File 11/4/01
Kiva comm. made 2/7/11

Appendix VI

(Copies of Monitoring System Certification form and UST Monitoring Plot Plan available at http://www.waterboards.ca.gov.)

MONITORING SYSTEM CERTIFICATION

For Use By All Jurisdictions Within the State of California

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

A. General Information

Facility Name. Crime Lab — Bldg. No.:_____

Site Address: 5255 Mt. Etna — City: San Diego — Zip: _____

Facility Contact Person: Mike Johnson — Contact Phone No.: (_858_) 694-3615_____

Make/Model of Monitoring System: Veeder Root TLS-300C — Date of Testing/Servicing: **2/4/11**

B. Inventory of Equipment Tested/Certified

Check the appropriate boxes to indicate specific equipment inspected/serviced:

Tank ID: Diesel 4,000 Emergency Gen X In-Tank Gauging Probe. Model. 847390-107 X Annular Space or Vault Sensor. Model: 794390-420 X Piping Sump / Trench Sensor(s). Model. 794380-208 Fill Sump Sensor(s) Model: _____ Mechanical Line Leak Detector. Model. _____ Electronic Line Leak Detector. Model: _____ X Tank Overfill / High-Level Sensor. Model: V/R 790091-001 Other (specify equipment type and model in Section E on Page 2).	**Tank ID**: _____ q In-Tank Gauging Probe. Model: _____ q Annular Space or Vault Sensor. Model: _____ q Piping Sump / Trench Sensor(s). Model. _____ q Fill Sump Sensor(s). Model: _____ q Mechanical Line Leak Detector. Model: _____ q Electronic Line Leak Detector. Model. _____ q Tank Overfill / High-Level Sensor. Model: _____ q Other (specify equipment type and model in Section E on Page 2).
Tank ID: _____ q In-Tank Gauging Probe Model. _____ q Annular Space or Vault Sensor. Model: _____ q Piping Sump / Trench Sensor(s). Model: _____ q Fill Sump Sensor(s). Model: _____ q Mechanical Line Leak Detector. Model: _____ q Electronic Line Leak Detector. Model: _____ q Tank Overfill / High-Level Sensor. Model: _____ q Other (specify equipment type and model in Section E on Page 2).	**Tank ID**: _____ q In-Tank Gauging Probe. Model: _____ q Annular Space or Vault Sensor. Model: _____ q Piping Sump / Trench Sensor(s). Model: _____ q Fill Sump Sensor(s). Model: _____ q Mechanical Line Leak Detector. Model: _____ q Electronic Line Leak Detector. Model: _____ q Tank Overfill / High-Level Sensor. Model. _____ q Other (specify equipment type and model in Section E on Page 2).
Dispenser ID: _____ q Dispenser Containment Sensor(s). Model: _____ q Shear Valve(s) q Dispenser Containment Float(s) and Chain(s).	**Dispenser ID**: _____ q Dispenser Containment Sensor(s) Model: _____ q Shear Valve(s). q Dispenser Containment Float(s) and Chain(s)
Dispenser ID: _____ q Dispenser Containment Sensor(s). Model: _____ q Shear Valve(s). q Dispenser Containment Float(s) and Chain(s).	**Dispenser ID**: _____ q Dispenser Containment Sensor(s) Model: _____ q Shear Valve(s). q Dispenser Containment Float(s) and Chain(s).
Dispenser ID: _____ q Dispenser Containment Sensor(s). Model: _____ q Shear Valve(s). q Dispenser Containment Float(s) and Chain(s	**Dispenser ID**: _____ q Dispenser Containment Sensor(s). Model: _____ q Shear Valve(s). q Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility

C. **Certification - I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report; *(check all that apply)*:** X **System set-up** X **Alarm history report**

Technician Name (print): Rene LeMesnager_____ Signature: Rene LeMesnager

Certification No.. V/R A239143 License. No.. 203029_____

Testing Company Name: __LeMesnager Engineering_____ No.:(_619) 917-8001

Testing Company Address: 9450 Mira Mesa Blvd, Suite C#229, San Diego, CA 92126_____ Date of Testing/Servicing: **2/4/11**

D. Results of Testing/Servicing

Software Version Installed: 15 03

Complete the following checklist:

X Yes		No*	Is the audible alarm operational?
X Yes		No*	Is the visual alarm operational?
X Yes		No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
X Yes		No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
X Yes		No* N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
Yes	X	No* N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shut-down? *(Check all that apply)* q Sump/Trench Sensors; q Dispenser Containment Sensors. Did you confirm positive shut-down due to leaks and sensor failure/disconnection? q Yes; q No.
X Yes		No* N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? _____%
Yes*	X	No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
Yes*	X	No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* q Product; q Water. If yes, describe causes in Section E, below.
X Yes		No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
X Yes		No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments:.

F. In-Tank Gauging / SIR Equipment:

X Check this box if tank gauging is used only for inventory control.
Check this box if no tank gauging or SIR equipment is installed

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

Yes	No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
Yes	No*	Were all tank gauging probes visually inspected for damage and residue buildup?
Yes	No*	Was accuracy of system product level readings tested?
Yes	No*	Was accuracy of system water level readings tested?
Yes	No*	Were all probes reinstalled properly?
Yes	No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In the Section H, below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD):

X Check this box if LLDs are not installed.

Complete the following checklist:

Yes	No* N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: 3 g p.h.; 0.1 g.p.h ; 0.2 g.p.h.
Yes	No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
Yes	No*	Was the testing apparatus properly calibrated?
Yes	No* N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
Yes	No* N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
Yes	No* N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
Yes	No* N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
Yes	No* N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
Yes	No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In the Section H, below, describe how and when these deficiencies were or will be corrected.**

H. Comments:

Spill Bucket Testing Report Form

This form is intended for use by contractors performing annual testing of UST spill containment structures. The completed form and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name:	Crime Lab		Date of Testing: 2/4/2011
Facility Address:	5255 Mt. Etna San Diego Ca,		
Facility Contact:	Mike Johnson	Phone:	858.694.3615
Date Local Agency Was Notified of Testing :			
Name of Local Agency Inspector *(if present during testing)*: Sonja Ingmanson			

2. TESTING CONTRACTOR INFORMATION

Company Name:	LeMesnager Engineering
Technician Conducting Test	Rene LeMesnager
Credentials[1]:	☒CSLB Contractor ☐ ICC Service Tech. ☐ SWRCB Tank Tester ☐ Other *(Specify)* _____
License Number(s):203029	

3. SPILL BUCKET TESTING INFORMATION

Test Method Used:	☒Hydrostatic	☐ Vacuum	☐ Other	
Test Equipment Used: 1 hr. visual			Equipment Resolution:	
Identify Spill Bucket *(By Tank Number, Stored Product, etc.)*	**1Diesel**	**2**	**3**	**4**
Bucket Installation Type:	☐ Direct Bury ☒Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump
Bucket Diameter	12"			
Bucket Depth:	15"			
Wait time between applying vacuum/water and start of test:	15 min			
Test Start Time (T_I):	9:30 am			
Initial Reading (R_I):	7"			
Test End Time (T_F):	10:30 am			
Final Reading (R_F):	7"			
Test Duration ($T_F - T_I$):	1 hr			
Change in Reading ($R_F - R_I$):	0			
Pass/Fail Threshold or Criteria:	No-loss			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

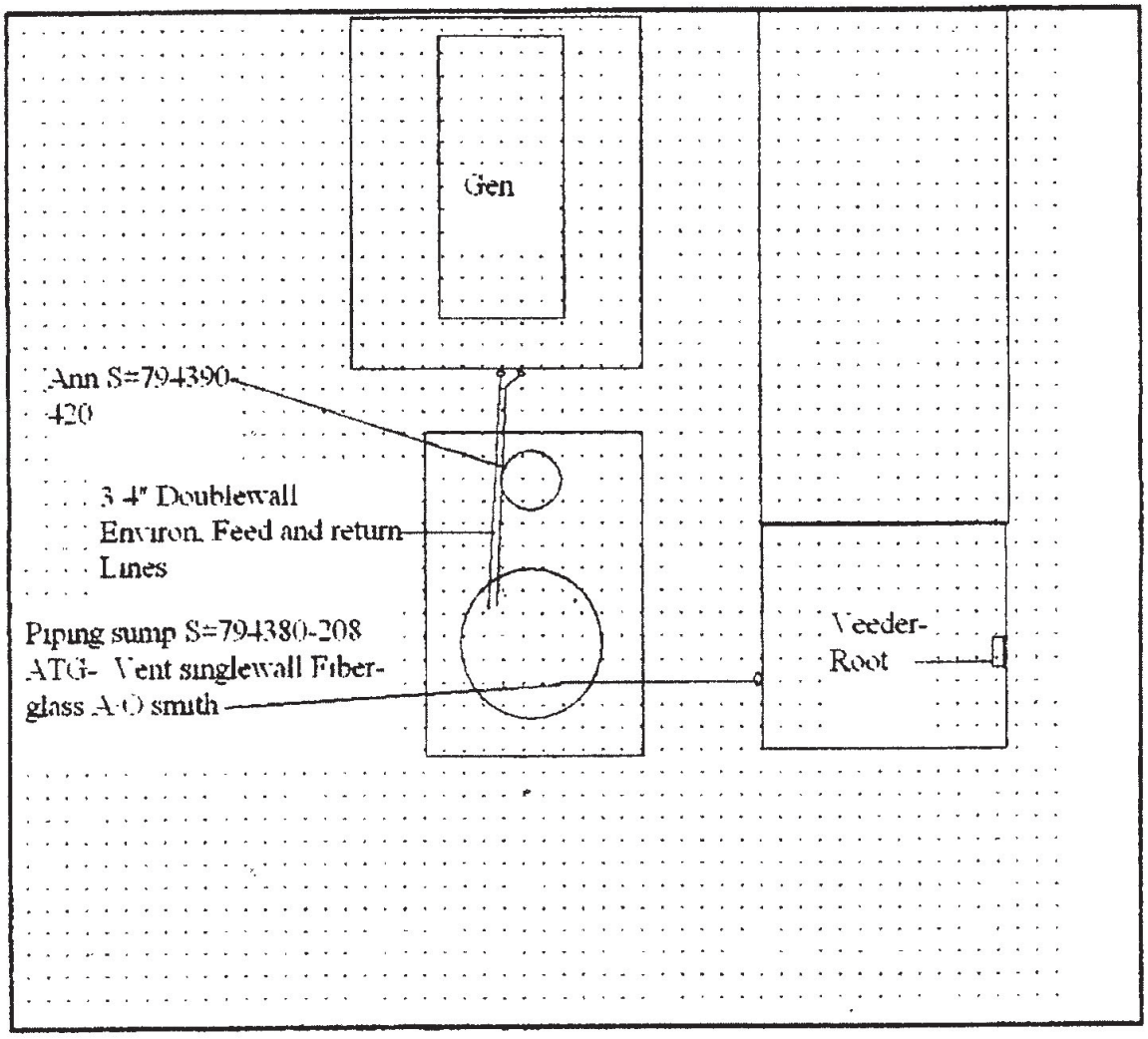
I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technician's Signature: Rene LeMesnager Date: 2/4/11

[1] State laws and regulations do not currently require testing to be performed by a qualified contractor. However, local requirements may be more stringent.

UST Monitoring Site Plan

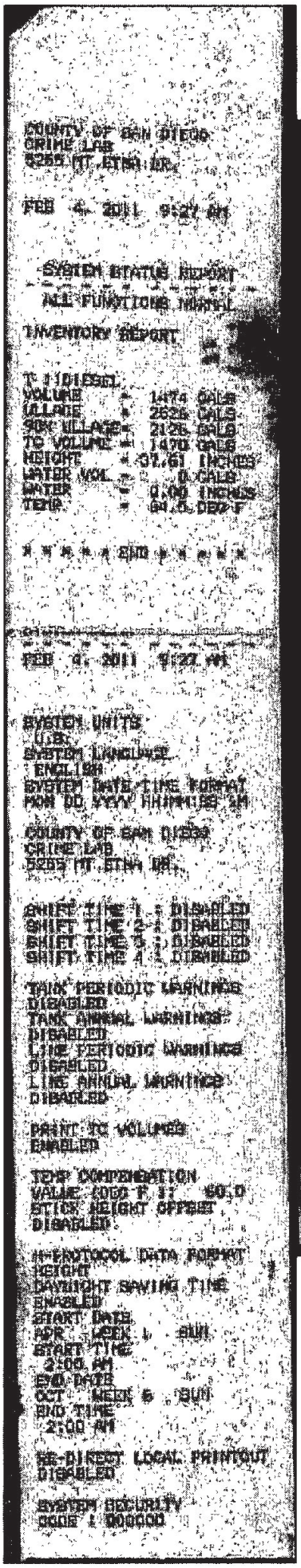
Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/19/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.



COUNTY OF SAN DIEGO
CRIME LAB
5255 MT ETNA DR.

FEB 4, 2011 9:27 AM

SYSTEM STATUS REPORT

ALL FUNCTIONS NORMAL

INVENTORY REPORT

T1:DIESEL
VOLUME = 1474 GALS
ULLAGE = 2626 GALS
90% ULLAGE= 2126 GALS
TC VOLUME = 1470 GALS
HEIGHT = 31.61 INCHES
WATER VOL = 0 GALS
WATER = 0.00 INCHES
TEMP = 64.6 DEG F

* * * * * END * * * * *

FEB 4, 2011 9:27 AM

SYSTEM UNITS
U.S.
SYSTEM LANGUAGE
ENGLISH
SYSTEM DATE-TIME FORMAT
MON DD,YYYY HH:MM:SS AM

COUNTY OF SAN DIEGO
CRIME LAB
5255 MT ETNA DR.

SHIFT TIME 1 : DISABLED
SHIFT TIME 2 : DISABLED
SHIFT TIME 3 : DISABLED
SHIFT TIME 4 : DISABLED

TANK PERIODIC WARNINGS
DISABLED
TANK ANNUAL WARNINGS
DISABLED
LINE PERIODIC WARNINGS
DISABLED
LINE ANNUAL WARNINGS
DISABLED

PRINT TC VOLUMES
ENABLED

TEMP COMPENSATION
VALUE USED F.T. 60.0
STICK HEIGHT OFFSET
DISABLED

M-PROTOCOL DATA FORMAT
HEIGHT
DAYLIGHT SAVING TIME
ENABLED
START DATE
APR WEEK 1 SUN
START TIME
2:00 AM
END DATE
OCT WEEK 5 SUN
END TIME
2:00 AM

RE-DIRECT LOCAL PRINTOUT
DISABLED

SYSTEM SECURITY
CODE : 000000

COMMUNICATIONS SETUP

PORT SETTINGS:

COMM BOARD : 2 (RS-232)
BAUD RATE : 1200
PARITY : ODD
STOP BIT : 1 STOP
DATA LENGTH : 7 DATA

AUTO TRANSMIT SETTINGS:

AUTO LEAK ALARM LIMIT
DISABLED
AUTO HIGH WATER LIMIT
DISABLED
AUTO OVERFILL LIMIT
DISABLED
AUTO LOW PRODUCT
DISABLED
AUTO THEFT LIMIT
DISABLED
AUTO DELIVERY START
DISABLED
AUTO DELIVERY END
DISABLED
AUTO EXTERNAL INPUT ON
DISABLED
AUTO EXTERNAL INPUT OFF
DISABLED
AUTO SENSOR FUEL ALARM
DISABLED
AUTO SENSOR WATER ALARM
DISABLED
AUTO SENSOR OUT ALARM
DISABLED

RS-232 SECURITY
CODE : 000000

RS-232 END OF MESSAGE
DISABLED

IN-TANK SETUP

T1:DIESEL
PRODUCT CODE : 1
THERMAL COEFF : 0.000450
TANK DIAMETER : 95.00
TANK PROFILE : 1 PT
FULL VOL : 4000

FLOAT SIZE: 4.0 IN. SHAPE

WATER WARNING : 2.5
HIGH WATER LIMIT : 3.0

MAX CR LABEL VOL: 3000
OVERFILL LIMIT : 90%
3600
HIGH PRODUCT : 95%
3800
DELIVERY LIMIT : 5%
200

LOW PRODUCT : 200
LEAK ALARM LIMIT: 99
BUDDEN LOSS LIMIT: 99
TANK TILT : 0.00

MANIFOLDED TANKS
THIS NONE

LEAK MIN PERIODIC: 25%
1000

LEAK MIN ANNUAL : 95%
1000

PERIODIC TEST TYPE
STANDARD

ANNUAL TEST FAIL
ALARM DISABLED

PERIODIC TEST FAIL
ALARM DISABLED

GROSS TEST FAIL
ALARM DISABLED

ANN TEST AVERAGING: OFF
PER TEST AVERAGING: OFF

TANK TEST NOTIFY: OFF

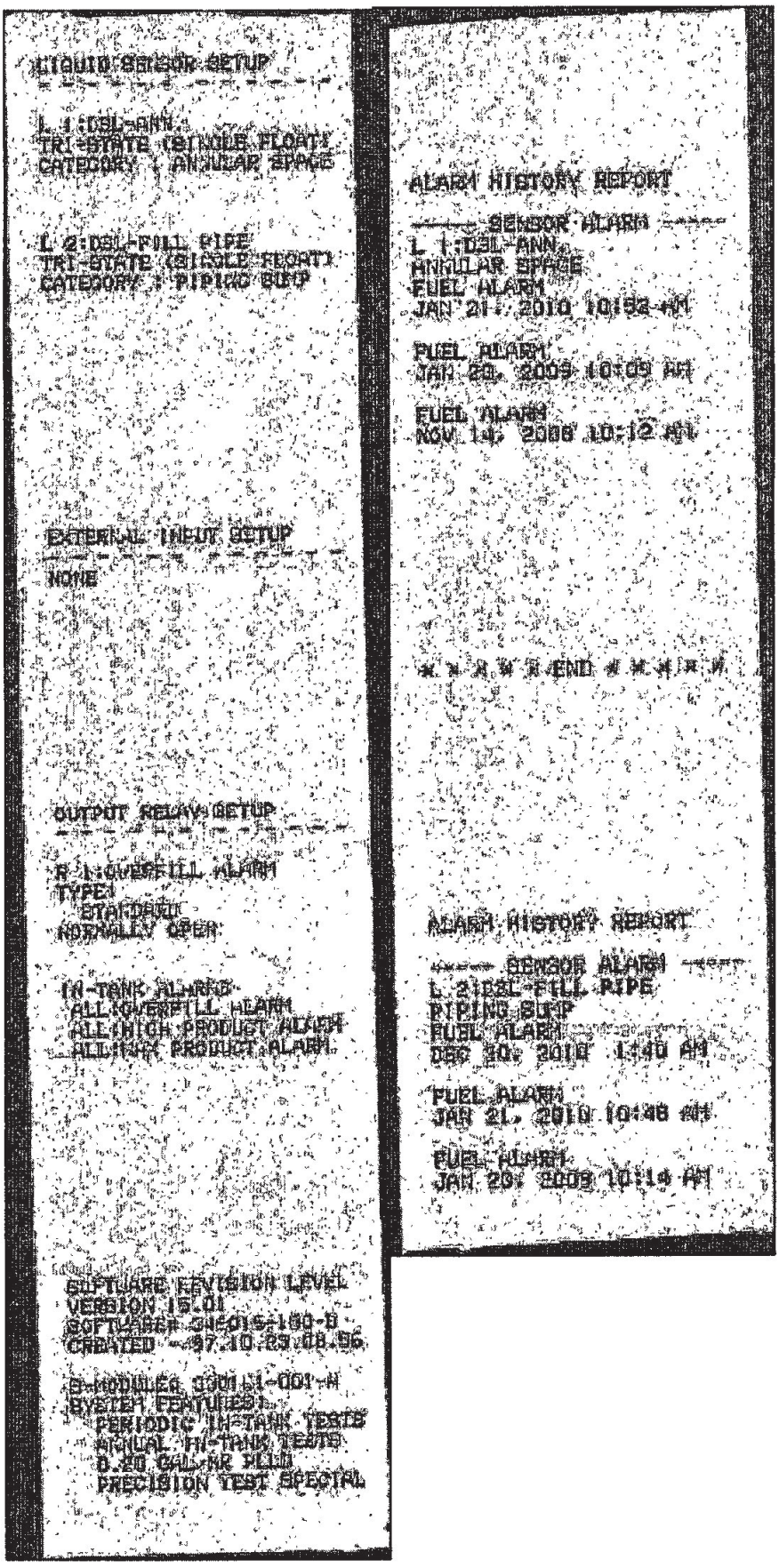
TNK TST SIPHON BREAK:OFF

DELIVERY DELAY : 1 MIN

LEAK TEST METHOD

TEST MONTHLY : ALL TANK
WEEK 1 MON
START TIME : 12:00 AM
TEST RATE : 0.20 GAL/HR
DURATION : 2 HOURS

LEAK TEST REPORT FORMAT
NORMAL



LIQUID SENSOR SETUP

L 1:DSL-ANN
TRI-STATE (SINGLE FLOAT)
CATEGORY : ANNULAR SPACE

L 2:DSL-FILL PIPE
TRI-STATE (SINGLE FLOAT)
CATEGORY : PIPING SUMP

EXTERNAL INPUT SETUP

NONE

OUTPUT RELAY SETUP

R 1:OVERFILL ALARM
TYPE:
STATIONARY
NORMALLY OPEN

IN-TANK ALARMS
ALL:OVERFILL ALARM
ALL:HIGH PRODUCT ALARM
ALL:LOW PRODUCT ALARM

SOFTWARE REVISION LEVEL
VERSION 15.01
SOFTWARE: 346015-100-B
CREATED - 97.10.23 08.56

S-MODULES: 3001-1-001-H
SYSTEM FEATURES:
PERIODIC IN-TANK TESTS
ANNUAL IN-TANK TESTS
0.20 GAL/HR FLLD
PRECISION TEST SPECIAL

ALARM HISTORY REPORT

SENSOR ALARM
L 1:DSL-ANN
ANNULAR SPACE
FUEL ALARM
JAN 21, 2010 10:52 AM

FUEL ALARM
JAN 20, 2009 10:09 AM

FUEL ALARM
NOV 14, 2008 10:12 AM

END

ALARM HISTORY REPORT

SENSOR ALARM
L 2:DSL-FILL PIPE
PIPING SUMP
FUEL ALARM
DEC 30, 2010 1:40 AM

FUEL ALARM
JAN 21, 2010 10:48 AM

FUEL ALARM
JAN 20, 2009 10:14 AM

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document installation, testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

Plan Check Number: **Permit Number:** H426 I

A. General Information

Facility Name: County of San Diego Crime Lab Bldg. No.:

Site Address: 5255 Mt. Etha Dr. City: San Diego Zip:

Facility Contact Person: Mike Johnson Contact Phone No.: (858) 694-3615 x

Make/Model of Monitoring System: TLS 300C Date of Testing/Servicing: 18-Jan-12

B. Inventory of Equipment Tested/Certified: Check the appropriate boxes to indicate specific equipment installed/ inspected serviced:

Tank ID: Diesel 4,000 ☒ In-Tank Gauging Probe Model: 847390-107 ☒ Annular Space or Vault Sensor Model: 794390-420 ☒ Piping Sump / Trench Sensor(s) Model: 794380-208 ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☒ Tank Overfill / High-Level Sensor Model: 847390-107 ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID:** ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID:** ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
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*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification - I certify that the equipment identified in this document was installed/inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report *(check all that apply)*: ☐ Copy of the report ☒ System set-up ☒ Alarm history report

Technician Name (print): Peter Jauregui III

Signature: _____

Certification No.: 34641 License No.: 708231

Testing Company Name: Jauregui & Culver inc. Phone No.: (760) 743-0518 x

Testing Company Address: 959 W. Mission Ave, Escondido, CA, 92025 Date of Testing/Servicing: 18-Jan-12

D. Results of Testing/Servicing

Permit Number:

Software Version Installed: 15.01

Complete the following checklist:

☒ Yes	☐ No*	Is the audible alarm operational?
☒ Yes	☐ No*	Is the visual alarm operational?
☒ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shutdown? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shutdown due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No.
☒ Yes	☐ No* ☐ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90%
☐ Yes*	☒ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☒ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☒ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☒ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments (500 characters max. add additional sheets if needed):

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

F. In-Tank Gauging / SIR Equipment: **Permit Number:**

☒ Check this box if tank gauging is used only for inventory control

☐ Check this box if no tank gauging or SIR equipment is installed

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☐ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☐ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☐ Yes	☐ No*	Was accuracy of system product level readings tested?
☐ Yes	☐ No*	Was accuracy of system water level readings tested?
☐ Yes	☐ No*	Were all probes reinstalled properly?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD): ☒ Check this box if LLDs are not installed.

Complete the following checklist:

☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☐ 3 g.p.h.; ☐ 0.1 g.p.h. ; ☐ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

H. Comments **(500 characters max. add additional sheets if needed):**

Spill Bucket Testing Report Form

This form is intended for use by contractors performing annual testing of UST spill containment structures. The completed form and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name:	San Diego Crime Lab	Date of Testing:	1-18-2012
Facility Address:	5255 Mt. Etna Dr.		
Facility Contact:	Tom Johnson	Phone:	619-572-3164
Date Local Agency Was Notified of Testing :			
Name of Local Agency Inspector *(if present during testing)*:	Chris Kasprovich		

2. TESTING CONTRACTOR INFORMATION

Company Name:	Jauregui & Culver inc
Technician Conducting Test:	Peter Jauregui III
Credentials[1]:	x CSLB Contractor x ICC Service Tech. ☐ SWRCB Tank Tester ☐ Other *(Specify)*
License Number(s):	708231, 5315297

3. SPILL BUCKET TESTING INFORMATION

Test Method Used:	x Hydrostatic	☐ Vacuum	☐ Other	
Test Equipment Used: Water and Tape Measure			Equipment Resolution: 0 Loss	
Identify Spill Bucket *(By Tank Number, Stored Product, etc.)*	**Diesel**	**2**	**3**	**4**
Bucket Installation Type:	☐ Direct Bury X Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump
Bucket Diameter:	12"			
Bucket Depth:	15"			
Wait time between applying vacuum/water and start of test:	10 min			
Test Start Time (T_I):	8:10			
Initial Reading (R_I):	6 ½"			
Test End Time (T_F):	9:10			
Final Reading (R_F):	6 ½"			
Test Duration ($T_F - T_I$):	1 hr			
Change in Reading ($R_F - R_I$):	0 change			
Pass/Fail Threshold or Criteria:	0 loss			
Test Result:	**X Pass ☐ Fail**	**☐ Pass ☐ Fail**	**☐ Pass ☐ Fail**	**☐ Pass ☐ Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

Water was deemed non Haz and was removed for future testing

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

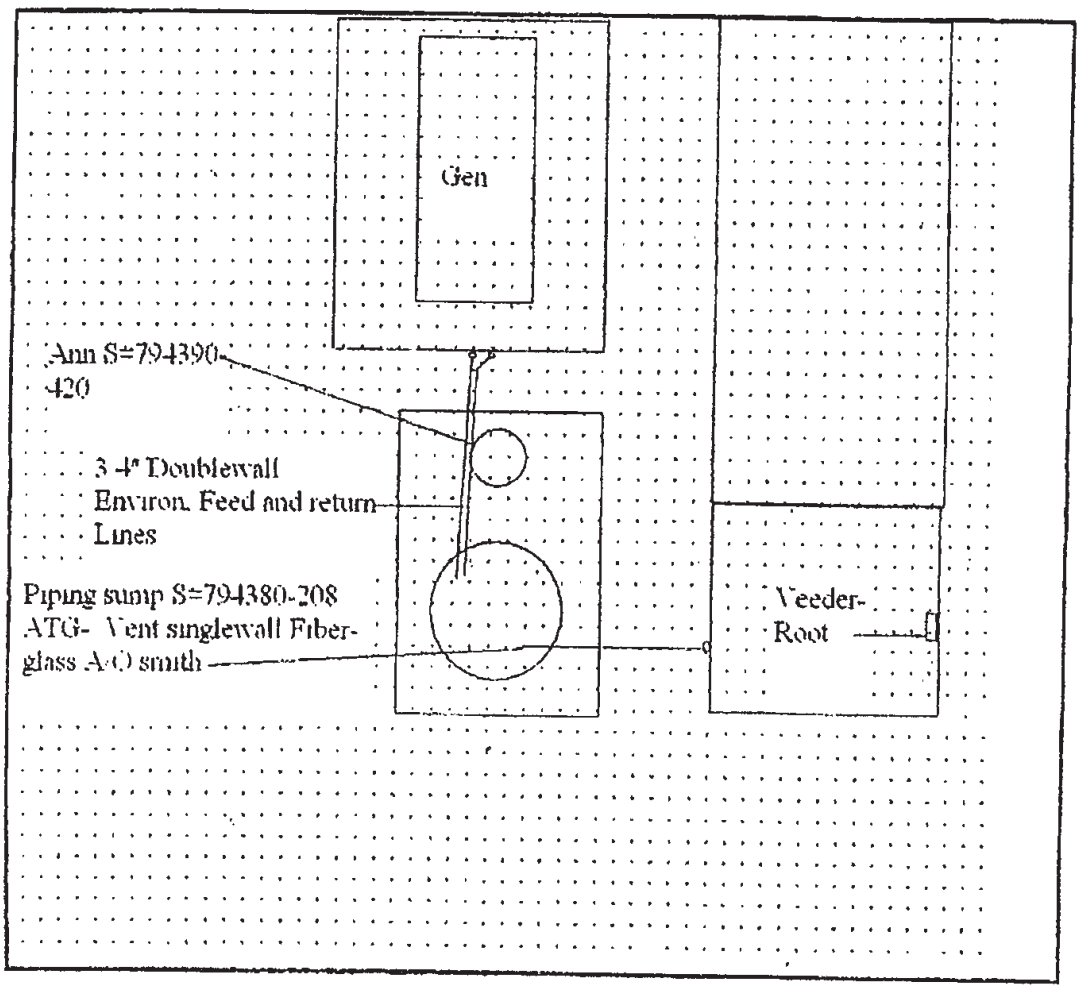
I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technician's Signature: _____ Date: 1-26-2012

[1] State laws and regulations do not currently require testing to be performed by a qualified contractor. However, local requirements may be more stringent.

UST Monitoring Site Plan

Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/14/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH-CUPA
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6880 FAX (858) 505-6848

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION

The California Health & Safety Code (H&SC), Division 20, Chapter 6.95, Section 25505 provides for the following:
The County of San Diego, Department of Environmental Health, Hazardous Materials Division (HMD), as the administering agency, requires a business that handles hazardous materials to submit the hazardous materials inventory, a list of emergency contacts, and a site plan, **in lieu of a complete Hazardous Materials Business Plan (HMBP),** only after the initial submittal of a complete HMBP. A complete HMBP includes the items to be submitted to the HMD and an Emergency Response Plan and Employee Training Plan, as established in H&SC Section 25504. The business must annually certify that a complete HMBP has been prepared, is current and is maintained at the site where the hazardous materials are stored. See *Back* for instructions and further clarification

I. IDENTIFICATION

FACILITY ID#	3	7		0	0	0		1	1	4	2	6	1	1	

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
San Diego Sheriff's Crime Laboratory

BUSINESS SITE ADDRESS 103
5255 Mt. Etna Drive

CITY 104		ZIP CODE 105
San Diego	CA	-92117691

II. CERTIFICATION STATEMENT

☒ **CARCINOGEN/REPRODUCTIVE TOXIN ANNUAL RENEWAL WITHOUT CHANGES: This is an annual renewal to certify that the list of carcinogens and/or reproductive toxins last provided is a current list as specified in the San Diego County Code of Regulatory Ordinances Section 68.1113.**

Check only ONE of the following boxes:

☐ **INITIAL CERTIFICATION: This is to certify (H&SC Section 25505(e)(1)) that a complete HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, has been prepared and is maintained at the site where the hazardous materials are stored.**

☒ **ANNUAL CERTIFICATION WITHOUT CHANGES: This is an annual certification (H&SC Section 25505(d) & (e)(2)) that the HMBP, which includes the hazardous materials inventory, a list of emergency contacts, a site plan, emergency response plan, and employee training plan, is current and includes all the information required in H&SC Section 25504, and 25509, and is maintained at the site where the hazardous materials are stored.**

☐ **CERTIFICATION OF CHANGES/REVISIONS: This is to certify that the HMBP has been reviewed (H&SC Section 25505(c) & 25510) and all necessary changes/revisions have been made. The HMBP is current and is maintained at the site where the hazardous materials are stored. Attached are changes to the hazardous materials inventory and/or list of emergency contacts. For site map revisions, submit only the pages that have a change or revision and attach to this certification. This submittal satisfies annual certification requirements specified in H&SC Section 25505(d) & (e)(2).**

As an Authorized Representative, I certify, under the penalty of law, that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete. By checking any of the boxes above I also certify that: a) The information contained in the hazardous materials inventory most recently submitted to the CUPA or Administering Agency is complete, accurate, and up to date; b) There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory; and c) All hazardous materials subject to inventory requirements are listed on the most recently submitted inventory.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE
Lauren Sautkulis	1/18/2012
NAME OF SIGNER (print)	TITLE OF SIGNER
LAUREN SAUTKULIS	ASSISTANT SAFETY MANAGER/CRIMINALIST

OFFICE USE

INSTRUCTIONS TO CLERICAL STAFF FOR HMBP ACCEPTANCE

☐ **Site Map** ____/____/____
☐ ***Emergency Contacts** ____/____/____
☐ ***Chemical Inventory** ____/____/____

***Note:** Indicate the date that the inventory and/or ER contact information in the KIVA database was reviewed and changes were submitted for processing. If the inventory and ER contact information are exactly the same as it is recorded in KIVA, no changes need to be submitted.

Hazardous Materials Business Plan acceptance date will be changed to the acceptance date on new site map.
A letter will be mailed to business after processing of site map updates.

HIRT SITE ☐**
FIRE DIST.____

Specialist's Signature: (only required for new plans or for changes to site maps, chemical inventory and/or emergency contacts)
Chris Kaprowicz

REMARKS: Inspected 1/18/2012

** If HIRT box is checked, follow HIRT policy to indicate on the inventory forms which hazardous materials make this a HIRT site.

DEH 2003-WUPSP-114261

Permit #: 114261
State ID: 37-000-114261

Operating Permit Issued on: 08/09/2012
Operating Permit Expires on: 08/08/2017
Reference Number: 136

San Diego County

Department of Environmental Health

UNDERGROUND STORAGE TANK OPERATING PERMIT

UST Facility Name: SD CNTY SHERIFF CRIME LAB
Site Address: 5255 MT ETNA DR, SAN DIEGO, 92117-6912
Tank Owner's Name: COUNTY OF SAN DIEGO
Tank Operator's Name SD CNTY SHERIFF CRIME LAB

See reverse side for permit conditions and requirements.

	Tank#	Capacity (gallons)	Tank Use	Piping Construction	Contents	Monitoring Alternative
1	23515	4000	Motor Vehicle Fuel	DOUBLE WALL	DIESEL	DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL

Total Number of Operating Permitted Tanks: 1

OPERATING CONDITIONS AND REQUIREMENTS FOR THE PERMIT TO OPERATE UNDERGROUND STORAGE TANKS

This permit is valid for 5 years pursuant to the California Health & Safety Code, Chapter 6.7, Section 25285 with an annual renewal fee per San Diego County Code, Title 6, Division 8, Chapter 9, Certified Unified Program Agency. Failure to comply with the following operating conditions, 1998 U.S.T. Upgrading Requirements, and requirements for this permit to operate may cause the HMD to revoke, or modify this permit pursuant to Section 25285.1 of the California Health & Safety Code. **NOTE: The owner and operator are subject to all applicable requirements of Chapters 6.7 and 6.75 of the California Health and Safety Code, and CCR Title 23 Division 3, Chapters 16 and 18.**

The Underground Storage Tank Facility Owner/Operator shall provide and maintain the following:

1. Obtain appropriate permits from the Department of Environmental Health (DEH). Permits are required to install, operate, close, upgrade or repair an underground storage tank system including associated piping.

2. A copy of this permit and all conditions and attachments, including a copy of the "Operating Permit Application – **Facility Information**" and the "Operating Permit Application – **Tank Information**", must be kept at the underground storage tank location at all times. This permit must be renewed prior to the expiration date.

3. The permittee shall ensure that both the owner and the operator of the tank are provided with a copy of this permit. If the permittee is not the operator of the tank, then the permittee must:
   a. Enter into a written agreement with the operator of the tank to monitor the tank system as set forth in this permit;
   b. Provide the operator with a copy or summary of Section 25299 (attached); and
   c. Notify the DEH of any change of operator.

4. Allow the DEH to inspect the facility, equipment, device or records pursuant to Section 68. 903 of the San Diego County Code and HSC Chapter 6.7, Section 25289.

5. Monitor the underground storage tank using a monitoring method specified on the permit application. Monitoring, maintenance and testing records shall be kept on site for at least 3 years, 6 1/2 years for cathodic protection maintenance records, and 5 years for written performance claims pertaining to release detection systems, and calibration and maintenance records for such systems. Records of repairs, lining, and upgrades shall be maintained on site or at another approved location for the remaining life of the underground storage tank. These records shall be kept on site and made available upon request to the DEH or the State Water Board. Monitoring records shall include:
   a. The date and time of all monitoring or sampling;
   b. Monitoring equipment calibration and maintenance records;
   c. The results of any visual observations;
   d. The results of all sample analysis performed in the laboratory or in the field, including laboratory data sheets and analysis used;
   e. The logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; and
   f. The results of any inventory readings and daily inventory reconciliation.

6. A copy of the Designated Operator monthly inspection record with all attachments for the previous 12 months and a list of facility employees who have been trained by the designated operator (including dates of training and dates of hire) shall be kept on site.

7. A copy of the written approved "Underground Storage Tank Monitoring Plan" (referenced in Jan. 17, 2008 Title 23, Section 2632 (d)(1)), emergency response plan, and plot plan shall be kept on site.

8. Maintain all equipment, devices and instruments in good repair. All monitoring and leak detection equipment shall be installed, calibrated, operated, and maintained in accordance with manufacturer's instructions, including routine maintenance and service checks (at least once per calendar year) for operating or running condition. All primary containment shall be product-tight.

9. Owners and operators shall use care to prevent releases due to spilling or overfilling. Before product is delivered, owners, operators, or their agents shall ensure that the space available in the tank is greater than the volume of product to be transferred to the tank and shall ensure that the transfer operation is monitored constantly to prevent overfilling and spilling. In addition, you must report and record all unauthorized releases (leaks) to the DEH within 24 hours [(Phone Number (858) 505-6880].

10. Report and record all failed integrity tests or inconclusive SIR results to the DEH within 24 hours [Phone Number (858) 505-6880].

11. Submit a copy of all monitoring certification, spill bucket, integrity and secondary containment test results to the DEH within 30 days after the completion of the test. Submit a copy of enhanced leak detection results to the DEH within 60 days after the completion of the test.

12. Notify the DEH in writing within 30 days of a change in ownership, operator, monitoring procedure, equipment or tank usage.

13. Maintain adequate Pollution Liability Insurance (Financial Responsibility) pursuant to Article 3, Chapter 6.75 of the California Health & Safety Code.

14. Additional requirements may be imposed on the tank owner/operator for the permit to operate should the State Water Resources Control Board (SWRCB) adopt new sections or amend the California Health & Safety Code or the California Code of Regulations, Title 23.

ENTERED FEB 23 2012 AMM

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 4	DATE 1/18/2012
PERMIT # 114261	BUS. CODE K70
TIME START 0745	END 1130
SPECIALIST Kasprovich	
INSPECTION CONTACT Lauren Sautkulis	
TITLE Criminalist II	
PHONE (858) 467-4600	

FACILITY NAME SD County Sheriff Crime Lab

ADDRESS 5255 Mt. Etna Drive

CITY/ZIP San Diego, CA / 92117

On the above date, the County inspected your facility under the authority of the California Health and Safety Code (H&SC), to determine compliance with applicable provisions of the H&SC, the California Code of Regulations (CCR), and the San Diego County Code of Regulatory Ordinances (SDCC). **This report serves as a Notice to Comply (H&SC 25187.8 & 25404.1.2) for any minor violations as defined in H&SC 25404 and 25117.6.** This report may contain both minor and more significant (Class II) violations. Minor violations do not include repeat violations or violations remaining uncorrected for more than 30 days (or as specified below). Minor violations do not include knowing, willful, intentional, or chronic violations; nor do they include violations showing a pattern of neglect or disregard. The remarks below are intended to provide guidance to correct any violations indicated on the attached violation report. You must submit a written response to this report within 30 days (or as specified below) demonstrating that all violations have been corrected or include a written notice of disagreement that clearly states the reason for any disputed violations. Prompt correction can protect you from penalties for a "minor violation". Penalties can be imposed for each day in violation for all other violations even if they are corrected promptly. However, correction within 30 days (or as specified below) will make a penalty less likely.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y*	N/A*		Y*	N/A*	
☒	☐	Unified Program Facility Permit current	☒	☐	Permit Expires on: 3/31/2012
☒	☐	Hazardous Materials Business Plan available	☒	☐	Contingency Plan available ☐LQG ☒SQG
☒	☐	Employee Training is adequate	☒	☐	Employee Training records available
☒	☐	Waste disposal records available for review	☒	☐	Universal waste managed properly
☒	☐	Emergency contacts current ☐Updated today	☐	☐	Waste containers ☐ closed ☐ labeled
☒	☐	Chemical inventory/map current ☐ Updated today	☒	☐	Waste containers in good condition

Consent to inspect granted by: ☒ **Inspection Contact** ☐ **Other:** ____

RECEIVED FEB 07 2012

ROUTINE INSPECTION

The annual monitoring system certification for the 4,000 gallon diesel underground storage tank (UST) was conducted today with Mike Johnson, DUSTO, and ICC Certified Service Technician Peter Jauregui, from Jauregui and Culver Testing. The Sheriff Crime Lab was also inspected today with Lauren Sautkulis, Criminalist II. Consent for both inspections was granted.

NOTICE TO COMPLY:

1) VIOLATION (3193) FACILITY EMPLOYEE(S) NOT TRAINED; RECORDS INCOMPLETE/NOT ONSITE

OBSERVATION: The last documented Designated Underground Storage Tank Operator (DUSTO) training of employees at this facility was conducted on 8/25/2010. Mike Johnson is the DUSTO for this site and stated he had been unable to complete the employee training in 2011 due to work load.

CORRECTIVE ACTION: Immediately conduct employee training provided by the primary DUSTO or one of the alternate designees. This is an annual requirement for operators of USTs and is past due. Submit evidence to Hazardous Material Division (HMD) within 30 days this violation has been corrected.

☐ **This is an annual certification that the Hazardous Materials Business Plan (inventory & site map, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are**

Initials of Facility Representative

PRINTED NAME OF FACILITY REPRESENTATIVE: LAUREN SAUTKULIS

DATE SIGNED: 01 / 23 / 12

SIGNATURE OF FACILITY REPRESENTATIVE: x Lauren Sautkulis

TITLE OF FACILITY REPRESENTATIVE: ASSISTANT SAFETY MANAGER / CRIMINALIST

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
Phone: (858) 505-6880 http://www.sdcdeh.org

FACILITY ADDRESS: 5255 Mt. Etna Drive ZIP CODE: 92117

By July 1, 2005, and every twelve months thereafter, the designated UST operator(s) shall train facility employees for which he or she is responsible in the proper operation and maintenance of the underground storage tank system. For facility employees hired on or after July 1, 2005, the initial training shall be conducted within 30 days of the date of hire.
(1) The training for facility employees must include, but is not limited to:
(A) The operation of the underground storage tank system in a manner consistent with the facility's best management practices.
(B) The facility employee's role with regard to the monitoring equipment as specified in the facility's monitoring plan.
(C) The facility employee's role with regard to spills and overfills as specified in the facility's response plan.
(D) The name of the contact person(s) for emergencies and monitoring equipment alarms.
(2) At least one of the facility employees present during operating hours shall have current training in accordance with subdivision (f)(1). For facilities that are not routinely staffed, the designated UST operator shall implement a facility employee training program approved by the local agency.
(3) A list of facility employees who have been trained by the designated UST operator(s), shall be maintained on-site or off-site at a readily available location, if approved by the local agency. The list shall be provided to the local agency upon request. The list shall include the dates of training for all facility employees, and the hiring dates for all facility employees hired on or after July 1, 2005.

REMARKS:

THE FOLLOWING AREAS WERE INCLUDED IN TODAY'S INSPECTION: 4,000 GALLON DIESEL UST, MAINTENANCE SHOP, FORENSIC LABS, CHEMICAL WASTE STORAGE ROOM, FIREARMS ANALYSIS UNIT, CRIME SCENE INVESTIGATIONS, AND CHEMICAL STORAGE ROOM.

A) All components of the UST system were tested and passed. The monitoring plan, response plan, plot plan, CFO/CFR letter, facility page, tank page, monthly DUSTO reports, and DUSTO letter of designation was reviewed. A copy of the UST operating permit could not be located. It is recommended a copy of the permit be obtained and placed in the UST binder and be made available for inspection.

B) SB 989 testing was conducted on 10/25/2011 and is due by 10/25/2014.

C) The Medical Waste Management Plan (MWMP) dated 2/23/2009 was reviewed. This site is a large quantity generator of medical waste.

D) This site has in use 2 separate EPA ID numbers. One is used for P/E (CAR000077289) and the other (CAL000146074) is used for the labs. Manifest copies for 2011 indicate all hazardous waste generated at this site

Lauren Sauerkraut 01 / 23 / 12 ASSISTANT SAFETY MANAGER/CRIMINALIST

SIGNATURE OF FACILITY REPRESENTATIVE | DATE SIGNED | TITLE OF FACILITY REPRESENTATIVE

was shipped under one EPA ID number. If for tracking purposes both numbers are used to segregate shipments of hazardous waste, ensure the correct EPA ID number is used for shipments. In addition, ensure all generator copies of hazardous waste manifests are sent to Department Of Toxic Substance Control (DTSC) within 30 days of shipping the hazardous waste.

E) The Hazardous Material Business Plan (HMBP) dated 2/19/2008 was reviewed. Annual employee training on the HMBP is current. Remember to re certify your HMBP and annual carcinogen and toxicity report annually even if there have been no changes.

Lauren Sautka 01/23/12 ASSISTANT SAFETY MANAGER/CRIMINALIST

SIGNATURE OF FACILITY REPRESENTATIVE | DATE SIGNED | TITLE OF FACILITY REPRESENTATIVE

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PERMIT#: 114261

DATE: 1 / 18 / 2012

PAGE: 4 OF 4

BUSINESS ADDRESS: 5255 Mt. Etna Drive **ZIP:** 92117

VIOLATION REPORT: The items checked below refer to specific section numbers of Title 23 of the California Code of Regulations (CCR), Chapters 6.7 of the Health & Safety Code (HSC) & the County Code of Regulatory Ordinances (SDCC). The following code sections checked are in violation (V) with the Underground Storage Tank laws and regulations. All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

GENERAL UNDERGROUND STORAGE TANK (UST) REQUIREMENTS

VIOLATION DESCRIPTION				VIOLATION DESCRIPTION			
Viol # NOV	UST SYSTEM RECORDS	VIOL	V	Viol # NOV	FILE RECORDS	VIOL	V
	Current UPF Permit not obtained/not available. 25284; 68.905, 68.1003, 68.1005	3101			Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e)	3114	
	Current Operating Permit not available at facility. 25284(a), 25286(a); 2712 (i); 68.1003	3102			Secondary containment testing not completed (passed) for all components and/or repairs to secondary containment components not completed. 25284.1, 25291(a)(2); 2637	3115	
	All permit operating conditions not met. 25284; 2712	3158					
	UST repair/modify/closure permit not obtained. 68.1004, 68.1005, 68.1009.5	3103			All releases not recorded and/or reported. 25294, 25295; 2650, 2651, 2652	3151	
	CUPA UST form(s) A and/or B not available/complete/ submitted to HMD. 25286(a); 2711	3104			All maintenance/monitoring/calibration/repair records not available. 25293; 2712 (b)	3152	
	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809	3105			Monitoring Cert. not submitted to CUPA w/in 30 days. 2638(d)	3161	
				(/ \	Facility employee(s) not trained; records incomplete/not onsite. 2715(f)	3193	V1
	Owner/operator agreement not available/complete/ submitted to HMD. 25284(a)(3); 2620(b)	3106		\	Enhanced leak detection not performed as required. 25292.4; 2640(e)	3154	
	Monitoring procedures not available/complete/submitted to HMD.2632(b)& (d), 2634(d), 2641(h), 2711(a)(9)	3107			Contractor and/or technician not trained and certified as required. 25284.1(a)(5)(D); 2715	3162	
	Emergency Response Plan is not available/complete. 25289(b); 2632(b), 2634(e), 2641(h)	3108			Contractor did not have required license, i.e., Class A, C-10, C34, C36 and/or C61. 25284.1(a)(5)(D); 2715	3163	
	Scaled Plot Plan showing tank, piping and equipment location not available/complete/submitted to HMD. 2711(a)(8), 2632(d)(1)(C)	3109			Monitoring system disabled or tampered with and/or monitoring records falsified. 25299(f)	3157	
	Annual certification for ATG and/or sensors not completed (existing tank systems only). 2641(j), 2638	3110			All monitoring equipment not installed, calibrated, operated, and/or maintained per manufacturer's instructions. 2638(a), 2641(j)	3164	
	Annual certification for continuous monitoring system not completed (new tanks). 25284.1(a)(4)(C); 2630(d), 2638	3116			UST system repair(s) not completed properly. 25292.1(c); 2660(a)(k)(l)&(m)	3160	
	Designated Operator (DO) Notification/Change form not submitted and/or DO not ICC certified. 2715 (a)(b)	3191			Designated Operator (DO) monthly inspection not conducted, incomplete or DO inspection reports not onsite.2715 (c)(d)&(e)	3192	

UST SYSTEM INSPECTION

Requirements applicable for both single & double walled systems

		TANK #					
		PRODUCT					
#	VIOLATION DESCRIPTION	NOV	VIOL	V	V	V	V
	Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)		3251				
	All audible and/or visual alarms not functioning properly. 2632(c)(2)(B), 2636(f)(1)		3252				
	Sticker/tag not affixed to monitoring equipment at certification. 2638(f)		3270				
	UST system does not have an approved overfill protection system. 2635(b)(2)		3254				
	Spill container is not in good condition and/or liquid free. 2635(b)(1), 2636(a)(1)		3255				
	Fill box drain not functional and backup system is not available. 2635(b)(1)(C)		3256				
	Secondary containment system components not liquid free. 2631(d)(4)		3257				
	Sensors not placed adequately and/or at low point in sumps. 2641(a); 25291(a)(7)(C)		3258				
	Dispenser containment currently required and not present. 25284.1(a)(5); 2636(g)		3259				
	Dispenser containment not adequately monitored. 2636(f)(1) or (f)(5)(A)		3267				
	Dispenser containment not maintained free of liquid. 2631(d)(4)		3261				
	Secondary containment piping obstructed preventing drainage to sump. 2632		3262				
	Monitoring system components and/or devices are not all functional. 2630, 2641(j), 2632		3263				
	Spill containment not tested annually. 25284.2		3264				
	UST system not operated to prevent spills and/or overfills. 25292.1(a)		3265				
	UST system not product tight (for tank installed on or after 7/1/03). 25290.1(c), 25290.2(c)		3268				
	UST system not continuously monitored using Vacuum/Pressure/Hydrostatic (VPH) system (for tank installed on or after 7/1/04). 25290.1(d)&(e)		3269				
CATHODIC PROTECTION							
	System not checked as required by tester (at 6 months/3 years). 2635(a)(2)(A)		3301				
	Impressed-current system not checked every 60 days. 2635(a)(2)(A)		3302				
	Corrosion protection not adequate. 25292.1(b); 2635(a)(2), 2662(c)		3303				
CLOSURE REQUIREMENTS							
	Temporary closure requirements not completed. 25298; 2671		3322				
	Unused tank not properly closed. Permanent closure requirements not met. 25298; 2672		3324				

Lauren Gauthier
Signature of Business Representative

01 / 23 / 12
Date Signed

ASSISTANT SAFETY MANAGER/CEIMINAUST
Title of Business Representative

COUNTY OF SAN DIEGO

CORRECTIVE ACTION FORM TO DOCUMENT RETURN TO COMPLIANCE

PERMIT#: 114261
SPECIALIST: KASPROVICH
INSPECTION DATE: 1/18/2012
CONTACT: Mike Johnson

FACILITY NAME **SD COUNTY SHERIFF CRIME LAB**

ADDRESS **5255 Mt. Etna Drive** | CITY **San Diego** | ZIP **92117**

VIOL #	DATE CORRECTED	Indicate How Violations Were Corrected (Attach Any Supporting Documentation)
1 v 3193	1/30/2012	Conducted annual DUSTO training to employees and documented the training.
2 v		
3 v		
4 v		
5 v		
6 v		
7 v		
8 v		
9 v		
10 v		

I certify under penalty of law that this facility has corrected all violations marked on the Compliance Inspection Report/Notice of Violation. I have personally examined and am familiar with the information submitted and believe the information is true, accurate and complete. I am authorized to file this certification for the facility, and am aware that there are significant penalties for submitting false information.

Responsible Party: _____ **Job Title** _____
Print Name

Signature of Responsible Party: _____ **Date:** _____

≤ Send completed form and supporting documentation to the address listed below≥

COUNTY OF SAN DIEGO USE ONLY: Reviewed by: Chris Kasprovich **Date:** 1/30/12
(Specialist's name and date required for processing)

Specialist's comments: _____

☒ All violations noted on date listed above were corrected.

☒ Based on information provided by the business
☐ Based on field verification by Specialist

☐ RTC entered in Kiva by Specialist on: ___/___/___ ☐ RTC entered in Kiva by Office Assistant on: 2/23/12

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
http://www.sdcdeh.org 858-505-6880

DEH2002-HMPFP 114261 Submitted

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 3	DATE 1/7/2013
PERMIT # 114261	BUS. CODE K70
TIME START 0745	END 1130
SPECIALIST Kasprovich	
INSPECTION CONTACT Lauren Sautkulis	
TITLE Criminalist II	
PHONE (858) 467-4600	

FACILITY NAME SD County Sheriff Crime Lab

ADDRESS 5255 Mt. Etna Drive

CITY/ZIP San Diego, CA / 92117

On the above date, the County inspected your facility under the authority of the California Health and Safety Code (H&SC), to determine compliance with applicable provisions of the H&SC, the California Code of Regulations (CCR), and the San Diego County Code of Regulatory Ordinances (SDCC). **This report serves as a Notice to Comply (H&SC 25187.8 & 25404.1.2) for any minor violations as defined in H&SC 25404 and 25117.6.** This report may contain both minor and more significant (Class II) violations. Minor violations do not include repeat violations or violations remaining uncorrected for more than 30 days (or as specified below). Minor violations do not include knowing, willful, intentional, or chronic violations; nor do they include violations showing a pattern of neglect or disregard. The remarks below are intended to provide guidance to correct any violations indicated on the attached violation report. You must submit a written response to this report within 30 days (or as specified below) demonstrating that all violations have been corrected or include a written notice of disagreement that clearly states the reason for any disputed violations. Prompt correction can protect you from penalties for a "minor violation". Penalties can be imposed for each day in violation for all other violations even if they are corrected promptly. However, correction within 30 days (or as specified below) will make a penalty less likely.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y*	N/A*		Y*	N/A*	
☒	☐	Unified Program Facility Permit current			Permit Expires on: 3/31/2013
☒	☐	Hazardous Materials Business Plan available	☒	☐	Contingency Plan available ☐LQG ☒SQG
☒	☐	Employee Training is adequate	☒	☐	Employee Training records available
☒	☐	Waste disposal records available for review	☒	☐	Universal waste managed properly
☒	☐	Emergency contacts current ☐Updated today	☐	☐	Waste containers ☐ closed ☐ labeled
☒	☐	Chemical inventory/map current ☐ Updated today	☒	☐	Waste containers in good condition

Consent to inspect granted by: ☒ **Inspection Contact** ☐ **Other:** ____

DEH 2002 – HMFP- 114261

ROUTINE INSPECTION

The annual monitoring system certification for the 4,000 gallon diesel underground storage tank (UST) was conducted today with Mike Johnson, DUSTO, and ICC Certified Service Technician Peter Jauregui, from Jauregui and Culver Testing. The Sheriff Crime Lab was also inspected today with Lauren Sautkulis, Criminalist II. Consent for both inspections was granted.

NOTICE TO COMPLY:

1) VIOLATION (3252) ALL AUDIBLE AND/OR VISUAL ALARMS NOT FUNCTIONING PROPERLY

OBSERVATION: The audible alarm associated with the tank overfill alert device failed to function during the test. Upon inspection by the Service Technician, it was discovered a bad relay in the electrical box was causing the audible alarm to malfunction.

CORRECTIVE ACTION: Schedule the repairs to be made to the audible alarm system. Keep the repair records onsite, available for inspection. Submit evidence to Hazardous Material Division (HMD) within 30 days this violation has been corrected.

☑ **This is an annual certification that the Hazardous Materials Business Plan (inventory & site map, emergency contacts, emergency response plan, and employee training plan) is current and includes all the information required in the H&SC and is maintained at the site where hazardous materials are**

(LS) Initials of Facility Representative

PRINTED NAME OF FACILITY REPRESENTATIVE: LAUREN SAUTKULIS

DATE SIGNED: 01 / 08 / 2013

SIGNATURE OF FACILITY REPRESENTATIVE: x Lauren Sautkulis

TITLE OF FACILITY REPRESENTATIVE: ASSISTANT SAFETY MANAGER

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
Phone: (858) 505-6880 http://www.sdcdeh.org

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

PERMIT # 114261
DATE 1/7/2013
PAGE 2 OF 3

FACILITY ADDRESS: 5255 Mt. Etna Drive ZIP CODE: 92117

REMARKS:

THE FOLLOWING AREAS WERE INCLUDED IN TODAY'S INSPECTION: 4,000 GALLON DIESEL UST, MAINTENANCE SHOP, FORENSIC LABS, CHEMICAL WASTE STORAGE ROOM, FIREARMS ANALYSIS UNIT, CRIME SCENE INVESTIGATIONS, AND CHEMICAL STORAGE ROOM.

A) All components of the UST system were tested and passed except the overfill audible alarm. The monitoring plan, response plan, plot plan, CFO/CFR letter, facility page, tank page, monthly DUSTO reports, and DUSTO letter of designation was reviewed.

B) SB 989 testing was conducted on 10/25/2011 and is due by 10/25/2014.

C) The Medical Waste Management Plan (MWMP) dated 2/23/2009 was reviewed. This site is a large quantity generator of medical waste.

D) This site has in use 2 separate EPA ID numbers. One is used for P/E (CAR000077289) and the other (CAL000146074) is used for the labs. If for tracking purposes both numbers are used to segregate shipments of hazardous waste, ensure the correct EPA ID number is used for shipments. In addition, ensure all generator copies of hazardous waste manifests are sent to Department Of Toxic Substance Control (DTSC) within 30 days of shipping the hazardous waste.

E) The Hazardous Material Business Plan (HMBP) was reviewed. Annual employee training on the HMBP is current. Remember to re certify your HMBP and annual carcinogen and toxicity report annually even if there have been no changes.

SIGNATURE OF FACILITY REPRESENTATIVE	DATE SIGNED	TITLE OF FACILITY REPRESENTATIVE
[signature]	01 / 08 / 2013	ASSISTANT SAFETY MANAGER

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PERMIT#: 114261

DATE: 1 / 7 / 2013

PAGE: 3 OF 3

BUSINESS ADDRESS: 5255 Mt. Etna Drive ZIP: 92117

VIOLATION REPORT: The items checked below refer to specific section numbers of Title 23 of the California Code of Regulations (CCR), Chapters 6.7 of the Health & Safety Code (HSC) & the County Code of Regulatory Ordinances (SDCC). The following code sections checked are in violation (V) with the Underground Storage Tank laws and regulations. All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form to document your return to compliance. Your Specialist can provide these forms. Please call (619) 338-2222 or your Specialist if you have any questions.

GENERAL UNDERGROUND STORAGE TANK (UST) REQUIREMENTS

VIOLATION DESCRIPTION				VIOLATION DESCRIPTION			
Viol # NOV	UST SYSTEM RECORDS	VIOL	V	Viol # NOV	FILE RECORDS	VIOL	V
	Current UPF Permit not obtained/not available. 25284; 68.905, 68.1003, 68.1005	3101			Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e)	3114	
	Current Operating Permit not available at facility. 25284(a), 25286(a); 2712 (i); 68.1003	3102			Secondary containment testing not completed (passed) for all components and/or repairs to secondary containment components not completed. 25284.1, 25291(a)(2); 2637	3115	
	All permit operating conditions not met. 25284; 2712	3158					
	UST repair/modify/closure permit not obtained. 68.1004, 68.1005, 68.1009.5	3103			All releases not recorded and/or reported. 25294, 25295; 2650, 2651, 2652	3151	
	CUPA UST form(s) A and/or B not available/complete/ submitted to HMD. 25286(a); 2711	3104			All maintenance/monitoring/calibration/repair records not available. 25293; 2712 (b)	3152	
	Current evidence of financial responsibility not available. 25292.2(a), 25299.33; 2809	3105			Monitoring Cert. not submitted to CUPA w/in 30 days. 2638(d)	3161	
					Facility employee(s) not trained; records incomplete/not onsite. 2715(f)	3193	
	Owner/operator agreement not available/complete/ submitted to HMD. 25284(a)(3); 2620(b)	3106			Enhanced leak detection not performed as required. 25292.4; 2640(e)	3154	
	Monitoring procedures not available/complete/submitted to HMD.2632(b)& (d), 2634(d), 2641(h), 2711(a)(9)	3107			Contractor and/or technician not trained and certified as required. 25284.1(a)(5)(D); 2715	3162	
	Emergency Response Plan is not available/complete. 25289(b); 2632(b), 2634(e), 2641(h)	3108			Contractor did not have required license, i.e., Class A, C-10, C34, C36 and/or C61. 25284.1(a)(5)(D); 2715	3163	
	Scaled Plot Plan showing tank, piping and equipment location not available/complete/submitted to HMD. 2711(a)(8), 2632(d)(1)(C)	3109			Monitoring system disabled or tampered with and/or monitoring records falsified. 25299(f)	3157	
	Annual certification for ATG and/or sensors not completed (existing tank systems only). 2641(j), 2638	3110			All monitoring equipment not installed, calibrated, operated, and/or maintained per manufacturer's instructions. 2638(a), 2641(j)	3164	
	Annual certification for continuous monitoring system not completed (new tanks). 25284.1(a)(4)(C); 2630(d), 2638	3116			UST system repair(s) not completed properly. 25292.1(c); 2660(a)(k)(l)&(m)	3160	
	Designated Operator (DO) Notification/Change form not submitted and/or DO not ICC certified. 2715 (a)(b)	3191			Designated Operator (DO) monthly inspection not conducted, incomplete or DO inspection reports not onsite.2715 (c)(d)&(e)	3192	

UST SYSTEM INSPECTION

Requirements applicable for both single & double walled systems

		TANK #					
		PRODUCT					
#	VIOLATION DESCRIPTION	NOV	VIOL	V	V	V	V
	Monitor in alarm at beginning of inspection. Alarm not investigated, recorded or reported. 2632 (c)(2)(B), 2650(e)(3)&(4), 2630(d)		3251				
1	All audible and/or visual alarms not functioning properly. 2632(c)(2)(B), 2636(f)(1)		3252	✓			
	Sticker/tag not affixed to monitoring equipment at certification. 2638(f)		3270				
	UST system does not have an approved overfill protection system. 2635(b)(2)		3254				
	Spill container is not in good condition and/or liquid free. 2635(b)(1), 2636(a)(1)		3255				
	Fill box drain not functional and backup system is not available. 2635(b)(1)(C)		3256				
	Secondary containment system components not liquid free. 2631(d)(4)		3257				
	Sensors not placed adequately and/or at low point in sumps. 2641(a); 25291(a)(7)(C)		3258				
	Dispenser containment currently required and not present. 25284.1(a)(5); 2636(g)		3259				
	Dispenser containment not adequately monitored. 2636(f)(1) or (f)(5)(A)		3267				
	Dispenser containment not maintained free of liquid. 2631(d)(4)		3261				
	Secondary containment piping obstructed preventing drainage to sump. 2632		3262				
	Monitoring system components and/or devices are not all functional. 2630, 2641(j), 2632		3263				
	Spill containment not tested annually. 25284.2		3264				
	UST system not operated to prevent spills and/or overfills. 25292.1(a)		3265				
	UST system not product tight (for tank installed on or after 7/1/03). 25290.1(c), 25290.2(c)		3268				
	UST system not continuously monitored using Vacuum/Pressure/Hydrostatic (VPH) system (for tank installed on or after 7/1/04). 25290.1(d)&(e)		3269				
CATHODIC PROTECTION							
	System not checked as required by tester (at 6 months/3 years). 2635(a)(2)(A)		3301				
	Impressed-current system not checked every 60 days. 2635(a)(2)(A)		3302				
	Corrosion protection not adequate. 25292.1(b); 2635(a)(2), 2662(c)		3303				
CLOSURE REQUIREMENTS							
	Temporary closure requirements not completed. 25298; 2671		3322				
	Unused tank not properly closed. Permanent closure requirements not met. 25298; 2672		3324				

Lauren Sandt

Signature of Business Representative

01 / 08 / 2013

Date Signed

ASSISTANT SAFETY MANAGER

Title of Business Representative

DEH2002- HUPFP- 114261

COUNTY OF SAN DIEGO

CORRECTIVE ACTION FORM TO DOCUMENT RETURN TO COMPLIANCE

PERMIT#: 114261
SPECIALIST: KASPROVICH
INSPECTION DATE: 1/7/2013
CONTACT: Mike Johnson

FACILITY NAME SHERIFF CRIME LAB

ADDRESS 5255 Mt. Etna Dr. | CITY San Diego | ZIP 92117

VIOL #	DATE CORRECTED	Indicate How Violations Were Corrected (Attach Any Supporting Documentation)
1 v 3252	2/4/2013	Technician replaced audible alarm relay.
2 v		Tank # 23515
3 v		
4 v		
5 v		
6 v		
7 v		
8 v		
9 v		
10 v		

I certify under penalty of law that this facility has corrected all violations marked on the Compliance Inspection Report/Notice of Violation. I have personally examined and am familiar with the information submitted and believe the information is true, accurate and complete. I am authorized to file this certification for the facility, and am aware that there are significant penalties for submitting false information.

Responsible Party: K. MIKE JOHNSON (Print Name) **Job Title** SR. PLUMBER/DSO

Signature of Responsible Party: K M Johnson **Date:** 2/4/2013

< Send completed form and supporting documentation to the address listed below >

COUNTY OF SAN DIEGO USE ONLY: **Reviewed by:** Chris Kasprovich **Date:** 2/8/13
(Specialist's name and date required for processing)

Specialist's comments:

☒ All violations noted on date listed above were corrected.

☒ Based on information provided by the business
☐ Based on field verification by Specialist

☒ RTC entered in Kiva by Specialist on: 2/8/13 ☐ RTC entered in Kiva by Office Assistant on: ___/___/___

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
http://www.sdcdeh.org 858-505-6880

UPFP#: 114261
Please update effective: 2/11/13
Kiva reviewed on 2/11/13
Chris Kasprovich

County of San Die

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document installation, testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

Plan Check Number: **Permit Number:** DEH2002-HUPFP-114261

A. General Information

Facility Name: County of San Diego Crime Lab — Bldg. No.:

Site Address: 5255 Mt. Etha Dr. — City: San Diego — Zip:

Facility Contact Person: Mike Johnson — Contact Phone No.: (858) 694-3615 x

Make/Model of Monitoring System: TLS 300C — Date of Testing/Servicing: 7-Jan-13

B. Inventory of Equipment Tested/Certified: Check the appropriate boxes to indicate specific equipment installed/ inspected serviced:

Tank ID: Diesel 4,000 ☒ In-Tank Gauging Probe Model: 847390-107 ☒ Annular Space or Vault Sensor Model: 794390-420 ☒ Piping Sump / Trench Sensor(s) Model: 794380-208 ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☒ Tank Overfill / High-Level Sensor Model: 847390-107 ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID**: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID**: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification - I certify that the equipment identified in this document was installed/inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report *(check all that apply)*: ☐ Copy of the report ☒ System set-up ☒ Alarm history report

Technician Name (print): Peter Jauregui III

Signature: _____

Certification No.: B34641 — License No.: 708231

Testing Company Name: Jauregui & Culver inc. — Phone No.: (760) 743-0518 x

Testing Company Address: 959 W. Mission Ave, Escondido, CA, 92025 — Date of Testing/Servicing: 7-Jan-13

D. Results of Testing/Servicing

Permit Number:

Software Version Installed: 15.01

Complete the following checklist:

☒ Yes	☐ No*	Is the audible alarm operational?
☒ Yes	☐ No*	Is the visual alarm operational?
☒ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shutdown? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shutdown due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No.
☒ Yes	☐ No* ☐ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90%
☐ Yes*	☒ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☒ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☒ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☒ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments (500 characters max. add additional sheets if needed): The Timer on the Overfill alarm was repaced on 1-XX-2013, in order to finnish the site Monitoring Cert.

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

F. In-Tank Gauging / SIR Equipment: **Permit Number:**

☒ Check this box if tank gauging is used only for inventory control

☐ Check this box if no tank gauging or SIR equipment is installed

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☒ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☒ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☒ Yes	☐ No*	Was accuracy of system product level readings tested?
☒ Yes	☐ No*	Was accuracy of system water level readings tested?
☒ Yes	☐ No*	Were all probes reinstalled properly?
☒ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD): ☐ Check this box if LLDs are not installed.

Complete the following checklist:

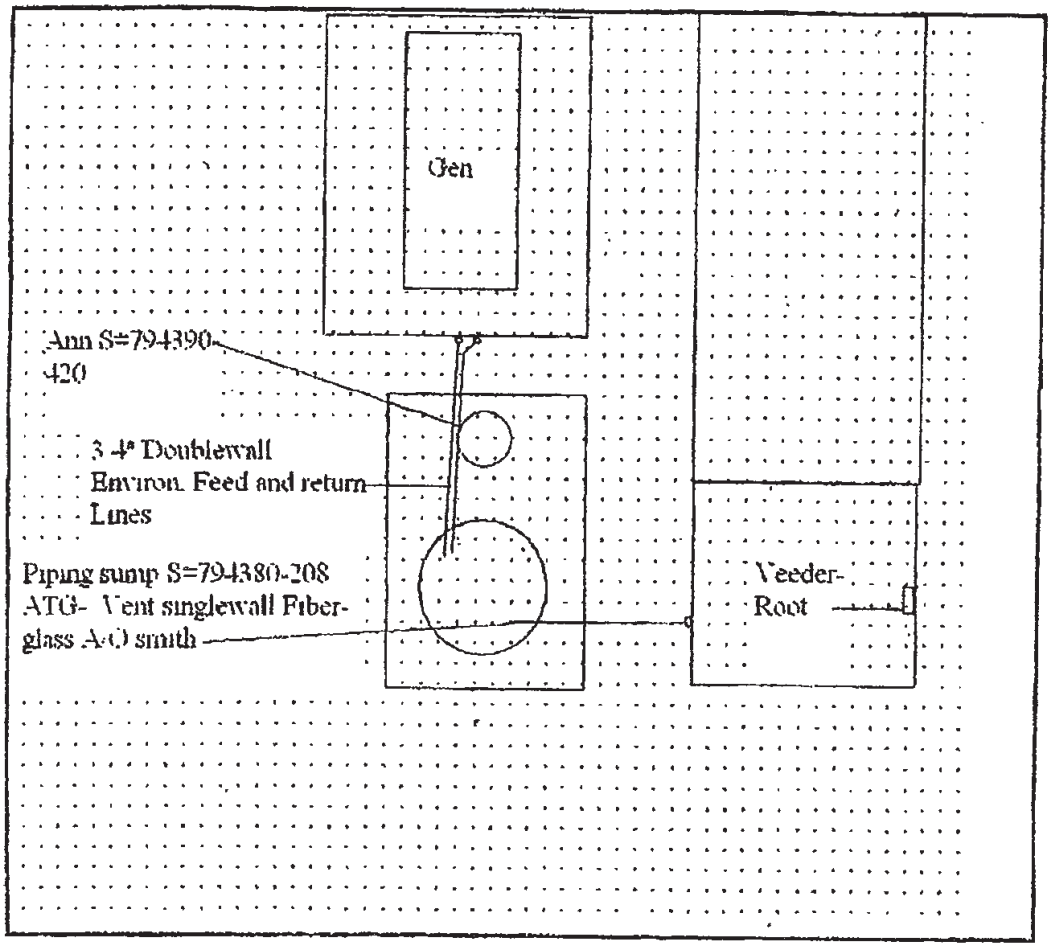
☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☐ 3 g.p.h.; ☐ 0.1 g.p.h. ; ☐ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

H. Comments (500 characters max. add additional sheets if needed): **The Overfill alarm timer(witch Controls the Buzzer) Was bad at the time of the inspection and was replaced on 2-4-2013.**

UST Monitoring Site Plan

Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/14/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared

Spill Bucket Testing Report Form

This form is intended for use by contractors performing annual testing of UST spill containment structures. The completed form and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION

Facility Name:	San Diego Crime Lab	Date of Testing:	1-7-2013
Facility Address:	5255 Mt. Etna Dr.		
Facility Contact:	Tom Johnson	Phone:	619-572-3164
Date Local Agency Was Notified of Testing :			
Name of Local Agency Inspector *(if present during testing)*:	Chris Kasprovich		

2. TESTING CONTRACTOR INFORMATION

Company Name:	Jauregui & Culver inc
Technician Conducting Test:	Peter Jauregui III
Credentials[1]:	x CSLB Contractor x ICC Service Tech. ☐ SWRCB Tank Tester ☐ Other *(Specify)* _____
License Number(s):	708231, 5315297

3. SPILL BUCKET TESTING INFORMATION

Test Method Used:	x Hydrostatic	☐ Vacuum	☐ Other	
Test Equipment Used: Water and Tape Measure			Equipment Resolution: 0 Loss	
Identify Spill Bucket *(By Tank Number, Stored Product, etc.)*	**Diesel**	**2**	**3**	**4**
Bucket Installation Type:	☐ Direct Bury X Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump
Bucket Diameter:	12"			
Bucket Depth:	15"			
Wait time between applying vacuum/water and start of test:	10 min			
Test Start Time (T_I):	8:00			
Initial Reading (R_I):	6 ¾"			
Test End Time (T_F):	9:00			
Final Reading (R_F):	6 ¾"			
Test Duration ($T_F - T_I$):	1 hr			
Change in Reading ($R_F - R_I$):	0 change			
Pass/Fail Threshold or Criteria:	0 loss			
Test Result:	**X Pass ☐ Fail**	**☐ Pass ☐ Fail**	**☐ Pass ☐ Fail**	**☐ Pass ☐ Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

Water was deemed non Haz and was removed for future testing

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technician's Signature: _____ Date: 1-7-2013

[1] State laws and regulations do not currently require testing to be performed by a qualified contractor. However, local requirements may be more stringent.

SYSTEM SETUP

JAN 7, 2013 9:17 AM

SYSTEM UNITS
U.S.
SYSTEM LANGUAGE
ENGLISH
SYSTEM DATE/TIME FORMAT
MON DD-YYYY HH:MM:SS xM

COUNTY OF SAN DIEGO
CRIME LAB
5255 MT.ETNA DR.

SHIFT TIME 1 : DISABLED
SHIFT TIME 2 : DISABLED
SHIFT TIME 3 : DISABLED
SHIFT TIME 4 : DISABLED

TANK PERIODIC WARNINGS
DISABLED
TANK ANNUAL WARNINGS
DISABLED
LINE PERIODIC WARNINGS
DISABLED
LINE ANNUAL WARNINGS
DISABLED

PRINT TC VOLUMES
ENABLED

TEMP COMPENSATION
VALUE (DEG F): 60.0
STICK HEIGHT OFFSET
DISABLED

H-PROTOCOL DATA FORMAT
HEIGHT
DAYLIGHT SAVING TIME
ENABLED
START DATE
APR WEEK 1 SUN
START TIME
2:00 AM
END DATE
OCT WEEK 6 SUN
END TIME
2:00 AM

RE-DIRECT LOCAL PRINTOUT
DISABLED

SYSTEM SECURITY
CODE : 000000

COMMUNICATIONS SETUP

PORT SETTINGS:

COMM BOARD : 2 (RS-232)
BAUD RATE : 1200
PARITY : ODD
STOP BIT : 1 STOP
DATA LENGTH: 7 DATA

AUTO TRANSMIT SETTINGS:

AUTO LEAK ALARM LIMIT
DISABLED
AUTO HIGH WATER LIMIT
DISABLED
AUTO OVERFILL LIMIT
DISABLED
AUTO LOW PRODUCT
DISABLED
AUTO THEFT LIMIT
DISABLED
AUTO DELIVERY START
DISABLED
AUTO DELIVERY END
DISABLED
AUTO EXTERNAL INPUT ON
DISABLED
AUTO EXTERNAL INPUT OFF
DISABLED
AUTO SENSOR FUEL ALARM
DISABLED
AUTO SENSOR WATER ALARM
DISABLED
AUTO SENSOR OUT ALARM
DISABLED

RS-232 SECURITY
CODE : 000000

RS-232 END OF MESSAGE
DISABLED

IN-TANK SETUP

T 1:DIESEL
PRODUCT CODE : 1
THERMAL COEFF : .000450
TANK DIAMETER : 95.00
TANK PROFILE : 1 PT
FULL VOL : 4000

FLOAT SIZE: 4.0 IN. 8496

WATER WARNING : 2.5
HIGH WATER LIMIT: 3.0

MAX OR LABEL VOL: 4000
OVERFILL LIMIT : 90%
: 3600
HIGH PRODUCT : 95%
: 3800
DELIVERY LIMIT : 5%
: 200

LOW PRODUCT : 200
LEAK ALARM LIMIT: 99
SUDDEN LOSS LIMIT: 99
TANK TILT : 0.00

MANIFOLDED TANKS
T#: NONE

LEAK MIN PERIODIC: 25%
: 1000

LEAK MIN ANNUAL : 25%
: 1000

PERIODIC TEST TYPE
STANDARD

ANNUAL TEST FAIL
ALARM DISABLED

PERIODIC TEST FAIL
ALARM DISABLED

GROSS TEST FAIL
ALARM DISABLED

ANN TEST AVERAGING: OFF
PER TEST AVERAGING: OFF

TANK TEST NOTIFY: OFF

TNK TST SIPHON BREAK:OFF

DELIVERY DELAY : 1 MIN

LEAK TEST METHOD

TEST MONTHLY : ALL TANK
WEEK 1 MON
START TIME : 12:00 AM
TEST RATE :0.20 GAL/HR
DURATION : 2 HOURS

LEAK TEST REPORT FORMAT
NORMAL

LIQUID SENSOR SETUP

L 1:DSL-ANN.
TRI-STATE (SINGLE FLOAT)
CATEGORY : ANNULAR SPACE

L 2:DSL-FILL PIPE
TRI-STATE (SINGLE FLOAT)
CATEGORY : PIPING SUMP

EXTERNAL INPUT SETUP

NONE

OUTPUT RELAY SETUP

R 1:OVERFILL ALARM
TYPE:
STANDARD
NORMALLY OPEN

IN-TANK ALARMS
ALL:OVERFILL ALARM
ALL:HIGH PRODUCT ALARM
ALL:MAX PRODUCT ALARM

SOFTWARE REVISION LEVEL
VERSION 15.01
SOFTWARE# 346015-100-B
CREATED - 97.10.23.08.56

S-MODULE# 330161-001-A
SYSTEM FEATURES:
PERIODIC IN-TANK TESTS
ANNUAL IN-TANK TESTS
0.20 GAL/HR PLLD
PRECISION TEST SPECIAL

ALARM HISTORY REPORT

----- SYSTEM ALARM -----
PAPER OUT
FEB 14, 2012 10:42 AM
PRINTER ERROR
FEB 14, 2012 10:42 AM
BATTERY IS OFF
JAN 1, 1996 8:00 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

---- IN-TANK ALARM -----

T 1:DIESEL

SETUP DATA WARNING
JAN 1, 1996 8:32 AM

OVERFILL ALARM
JAN 7, 2013 9:38 AM
JAN 7, 2013 9:34 AM
JAN 7, 2013 9:28 AM

INVALID FUEL LEVEL
JAN 23, 2009 10:16 AM
JAN 24, 2008 10:14 AM
JAN 25, 2007 9:16 AM

PROBE OUT
JAN 7, 2013 9:38 AM
JAN 7, 2013 9:37 AM
JAN 7, 2013 9:30 AM

HIGH WATER WARNING
JAN 21, 2010 11:45 AM
JAN 23, 2009 10:22 AM

LOW TEMP WARNING
JAN 21, 2010 11:19 AM
JAN 21, 2010 11:09 AM
JAN 21, 2010 10:43 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

----- SENSOR ALARM -----
L 2:DSL-FILL PIPE
PIPING SUMP
FUEL ALARM
JAN 7, 2013 9:21 AM

FUEL ALARM
JAN 18, 2012 8:55 AM

FUEL ALARM
FEB 4, 2011 9:53 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

----- SENSOR ALARM -----
L 1:DSL-ANN.
ANNULAR SPACE
FUEL ALARM
JAN 7, 2013 9:20 AM

FUEL ALARM
JAN 7, 2013 9:20 AM

FUEL ALARM
JAN 18, 2012 8:55 AM

* * * * * END * * * * *

DONALD F. STEUER
CHIEF FINANCIAL OFFICER
(619) 531-5413
FAX (619) 531-5219

County of San Diego

AUDITOR AND CONTROLLER
1600 PACIFIC HIGHWAY STE 166, SAN DIEGO, CALIFORNIA 92101-2478

TRACY M. SANDOVAL
ASST. CHIEF FINANCIAL OFFICER/
AUDITOR & CONTROLLER
(619) 531-5413
FAX (619) 531-5219

December 14, 2012

TO: Jack Miller, Director
Department of Environmental Health

FROM: Tracy M. Sandoval
General Manager/Auditor & Controller

MUNICIPAL FINANCIAL TEST DEMONSTRATING FINANCIAL RESPONSIBILITY FOR UNDERGROUND STORAGE TANKS BASED ON THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2012

Pursuant to Federal Regulation 40 CFR 280.105 (c), this letter is in support of the use of the local governmental financial test to demonstrate financial responsibility for taking corrective action and/or compensating third parties for bodily injury and property damage caused by sudden accidental releases and/or non-sudden accidental releases in the amount of at least $500,000 per occurrence and $1 million annual aggregate arising from operating underground storage tanks (See Worksheet for Municipal Financial Test, Attachment A).

A listing of underground storage tank facilities that are assured by this financial test is included on Attachment B.

The County of San Diego has not received an adverse opinion, or a disclaimer of opinion, from an independent auditor on its financial statements for the latest completed fiscal year.

If you have any questions, please contact Tracy Drager, Deputy Controller at (858) 694-2324.

Tracy M Sandoval

TRACY M. SANDOVAL
General Manager/Auditor & Controller

AFC:TD:lr

Attachments

c: Joseph M. Vizzier, Chief, Environmental Health
Sharyl Blackington, Manager, Fleet Maintenance Support

DONALD F. STEUER
CHIEF FINANCIAL OFFICER
(619) 531-5413
FAX (619) 531-5219

County of San Diego

AUDITOR AND CONTROLLER
1600 PACIFIC HIGHWAY STE 166, SAN DIEGO, CALIFORNIA 92101-2478

TRACY M. SANDOVAL
ASST. CHIEF FINANCIAL OFFICER/
AUDITOR & CONTROLLER
(619) 531-5413
FAX (619) 531-5219

December 14, 2012

TO: Jack Miller, Director
Department of Environmental Health

FROM: Tracy M. Sandoval
General Manager/Auditor & Controller

CHIEF FINANCIAL OFFICER LETTER REGARDING FINANCIAL RESPONSIBILITY FOR UNDEGROUND STORAGE TANKS (UST) BASED ON THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2012

The attached annual Chief Financial Officer letter demonstrating the County's financial responsibility for maintaining Underground Storage Tanks (UST) is submitted to the Department of Environmental Health pursuant to Title 40, Code of Federal Regulations (CFR), Part 280, Subpart H, Section 280.93.

The aforementioned federal regulations requires all owners and operators to show, through an approved method, their ability to pay for potential cleanup and third party damages resulting from accidental releases from their USTs. To demonstrate financial responsibility, the County of San Diego uses the approved local government financial test, pursuant to Title 40, CFR Section 280.105. In this regard, this report is submitted to your office in your capacity as the regulator in this area for the County of San Diego.

As shown in the attached report, the County currently owns and operates 42 underground tanks that are used to store gasoline and diesel fuel at various County facilities. Financial responsibility means that money will be available to meet potential cleanup costs or third party lawsuits resulting from leaking USTs.

The County successfully passed the test with a score of 2.821 (it must be greater than zero). Assumptions in the calculations, for which we received authorization from the Environmental Protection Agency, may include netting advance refunding of County debt and excluding certain Federal and State revenues with no matching local fund requirements.

As evidence that this procedure has been satisfactorily completed, copies of this letter are provided to the Department of General Services, Fleet Management, to post at all of the UST sites.

If you have any questions, please contact Tracy Drager, Deputy Controller at (858) 694-2324.

Tracy M Sandoval

TRACY M. SANDOVAL
General Manager/Auditor & Controller

AFC:TD:lr

Attachments

COUNTY OF SAN DIEGO
WORKSHEET FOR MUNICIPAL FINANCIAL TEST
Year Ended June 30, 2012
(in Thousands *)

Part I: Basic Information

1. Total Revenues		
a. Revenues	4,404,245	*
b. Subtract interfund transfers	460,552	*
c. Total Revenues	3,943,693	*
2. Total Expenditures		
a. Expenditures	4,319,259	*
b. Subtract Interfund Transfers	465,438	*
c. Total Expenditures	3,853,821	*
3. Local Revenues		
a. Total Revenues (from 1c)	3,943,693	*
b. Subtract intergovernmental transfers	2,328,938	*
c. Local Revenues	1,614,755	*
4. Debt Service		
a. Interest and fiscal charges	88,106	*
b. Add debt retirement	109,686	*
c. Total Debt Service	197,792	*
5. Total Funds	2,440,031	*
6. Population	3,143	*

Part II: Application of Test

7. Total Revenues to Population		
a. Total Revenues (from 1c)	3,943,693	*
b. Population (from 6)	3,143	*
c. Divide 7a by 7b	1,254.754	
d. Subtract 417	837.754	
e. Divide by 5,212	0.161	
f. Multiply by 4.095	0.658	
8. Total Expenses to Population		
a. Total Expenses (from 2c)	3,853,821	*
b. Population (from 6)	3,143	*
c. Divide 8a by 8b	1,226.160	
d. Subtract 524	702.160	
e. Divide by 5,401	0.130	
f. Multiply by 4.095	0.532	
9. Local Revenues to Total Revenues		
a. Local Revenues (from 3c)	1,614,755	*
b. Total Revenues (from 1c)	3,943,693	*
c. Divide 9a by 9b	0.409	
d. Subtract .695	(0.286)	
e. Divide by .205	(1.393)	
f. Multiply by 2.840	(3.956)	
10. Debt Service to Population		
a. Debt Service (from 4c)	197,792	*
b. Population (from 6)	3,143	*
c. Divide 10a by 10b	62.931	
d. Subtract 51	11.931	
e. Divide by 1,038	0.011	
f. Multiply by -1.866	(0.021)	

11. Debt Service to Total Revenues		
a. Debt Service (from 4c)	197,792	*
b. Total Revenues (from1c)	3,943,693	*
c. Divide 11a by 11b	0.050	
d. Subtract .068	(0.018)	
e. Divide by .259	(0.069)	
f. Multiply by -3.533	0.243	
12. Total Revenues to Total Expenses		
a. Total Revenues (from 1c)	3,943,693	*
b. Total Expenses (from 2c)	3,853,821	*
c. Divide 12a by 12b	1.023	
d. Subtract .910	0.113	
e. Divide by .899	0.126	
f. Multiply by 3.458	0.436	
13. Funds Balance to Total Revenues		
a. Total Funds (from 5)	2,440,031	*
b. Total Revenues (from 1c)	3,943,693	*
c. Divide 13a by 13b	0.619	
d. Subtract .891	(0.272)	
e. Divide by 9.156	(0.030)	
f. Multiply by 3.270	(0.097)	
14. Funds Balance to Total Expenses		
a. Total funds (from 5)	2,440,031	*
b. Total Expenses (from 2c)	3,853,821	*
c. Divide 14a by 14b	0.633	
d. Subtract .866	(0.233)	
e. Divide by 6.409	(0.036)	
f. Multiply by 3.270	(0.119)	
15. Total Funds to Population		
a. Total Funds (from 5)	2,440,031	*
b. Population (from 6)	3,143	*
c. Divide 15a by 15b	776.338	
d. Subtract 270	506.338	
e. Divide by 4,548	0.111	
f. Multiply by 1.866	0.208	
16. Add 7f + 8f + 9f + 10f + 11f + 12f + 13f + 14f + 15f + 4.937	2.821	

I hereby certify that the financial index shown on line 16 of the worksheet is greater than zero and that the wording of this letter is identical to the wording specified in 40 CFR Part 280.105(c) as such regulations were constituted on the date shown immediately below.

Tracy M. Sandoval
General Manager/Auditor & Controller

12/19/12
Date

ATTACHMENT B

SAN DIEGO COUNTY
FUEL TANK LOCATIONS

	LOCATION	ADDRESS	TYPE OF FUEL	# HOSES	TANKS/SIZE	MAKE MODEL TLS	NO. OF TANKS
1	ALPINE (17)	2910 Tavern Road, Alpine 91901	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
2	BONSALL (58)	2370 Pala Road, Bonsall 92003	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
3	BORREGO (37)	4550 Rango Way, Borrego 92004	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
4	CAMPO (23)	970 Forest Gate Road, Campo 91906	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
5	COC (36)	5555 Overland Ave. ,San Diego 92123	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	8	20,000	Veeder Root, 350	1
6	DESCANSO (32)	24592 Viejas Grade Road, Descanso 91916	Gasoline	4	12,000	Veeder Root, 350	1
7	EAST MESA (35)	446 Alta Road, San Diego 92173	Diesel	1	12,000	Veeder Root, 350	1
		1 TANK 2 COMPARTMENTS	Gasoline	2	8,000	Veeder Root, 350	1
8	ENCINITAS (95)	179 N. El Camino Real, Encinitas 92024	Gasoline	4	12,000	Veeder Root, 350	1
9	JULIAN (38)	1524 Highway 78 ,Julian 92036	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
10	LAKESIDE (33)	13115 Willow Road, Lakeside 92040	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
11	MT LAGUNA (35)	33947 Mt. Laguna Drive, Mt Laguna 91948	Diesel	1	2,000	Veeder Root, Guardian 250	
		1 TANK 2 COMPARTMENTS	Gasoline	1	1,000	Veeder Root, Guardian 250	
12	MT PALOMAR (56)	20745 State Park Road, Mt. Palomar 92060	Diesel	1	2,000	Veeder Root, Guardian 250	
		1 TANK 2 COMPARTMENTS	Gasoline	1	1,000	Veeder Root, Guardian 250	
13	RAMONA (48)	116 th Street, Ramona 92065	Diesel	8	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
14	SAN FELIPE (41)	20704 San Felipe Road,San Felipe 92088	Diesel	1	1,000	Veeder Root, Guardian 250	
		1 TANK 2 COMPARTMENTS	Gasoline	1	2,000	Veeder Root, Guardian 250	
15	SAN MARCOS (68)	1579 Osage Road, San Marcos 92069	Diesel	4	12,000	Veeder Root, 350	1

ATTACHMENT B

SAN DIEGO COUNTY
FUEL TANK LOCATIONS

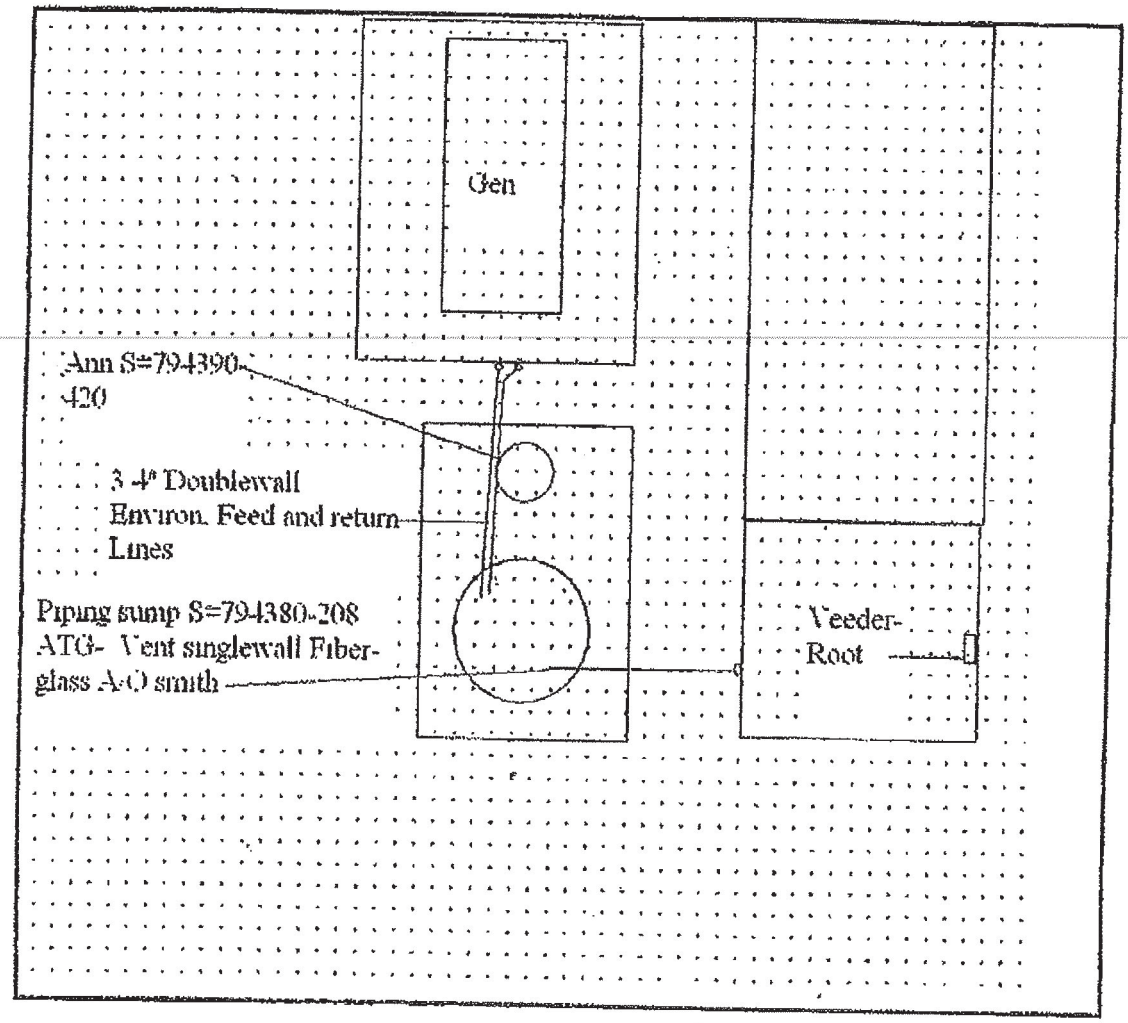
	LOCATION	ADDRESS	TYPE OF FUEL	# HOSES	TANKS/SIZE	MAKE MODEL TLS	NO. OF TANKS
			Gasoline	4	12,000	Veeder Root, 350	1
16	SANTEE (39)	1875 Weld Blvd, El Cajon 92020	Gasoline	4	12,000	Veeder Root, 350	1
17	SOUTH BAY (76)	500 Third Ave. , Chula Vista 91910	Gasoline	4	12,000	Veeder Root, 350	1
18	SPRING VALLEY (28)	11970 Singer Lane, Spring Valley 91977	Diesel	2	12,000	Veeder Root, 350	1
			Gasoline	2	12,000	Veeder Root, 350	1
19	UNION & A (33)	1251 Union Street, San Diego 92101	Gasoline	4	12,000	Veeder Root, 350	1
20	VALLEY CENTER (64)	28565 Cole Grade Rd. Valley Center 92082	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
21	VISTA (90)	325 S. Melrose Street ,Vista 92083	Gasoline	8	15,000	Veeder Root, 350	1
22	SOUTH BAY REGIONAL CENTER	500 3rd Ave. Chula Vista 91910	Diesel	0	5,000	Veeder Root, TLS350	1
23	LAS COLINAS DETENTION	9000 Cottonwood Ave. Santee 92041	Diesel	0	1,000	Veeder Root, TLS350	1
24	COC CENTRAL PLANT	5555 Overland Ave. San Diego 92123	Diesel	0	20,000	Veeder Root, TLS350	1
25	COC PARKING STRUCTURE	5555 Overland Ave. San Diego 92123	Diesel	0	15,000	Veeder Root, TLS350	1
26	NCRC REGIONAL	325 S. Melrose Vista 92081	Diesel	0	10,000	Veeder Root, TLS350	1
27	SAN DIEGO CENTRAL JAIL	1173 Front St. San Diego 92101	Diesel	0	6,500	Simples SST	1
28	EAST MESA JUVENILE DETENTION	4460 Alta Road San Diego 92154	Diesel	0	6,000	INCON TS2001	1
29	CAC	1600 Pacific Highway San Diego 92101	Diesel	0	2,000	Veeder Root, TLS350	1
30	SAN DIEGO PHSYCHIATRIC HOSPITAL	3853 Rosecrans Ave. San Diego 92110	Diesel	0	2,000	Veeder Root, TLS350	1
31	SHERIFF CRIME LAB	5255 Mount Etna San Diego 92117	Diesel	0	4,000	Veeder Root, TLS350	1
32	GILLESPIE FIELD ASTREA	1745 N. Marshall Ave. El Cajon 92020	Jet A	1	12,000	Veeder Root, TLS350	1
			Jet A	3	20,000	Veeder Root, TLS350	1

42 UST

3 AST, all AST's are 1 tank 2 compartments

UST Monitoring Site Plan

Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/14/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2139 1-800-253-9933
http://www.sdcounty.ca.gov/deh/hmd/index.html

Designation of Underground Storage Tank (UST) Operator

UST Owner Statement of Understanding and Compliance with UST Requirements

Facility Name: Sheriff Regional Crime Lab	Facility Permit #:	1	1	4	2	6	1
Facility Address: 5255 Mount Etna	Phone:						
City: San Diego	Zip Code: 92117-						

Reason for Submitting this Form *(Check One)* ☐ **Initial Certification** ☐ **Change of Designated Operator** ☒ **Certificate Renewal**

Designated UST Operator(s) for this Facility

PRIMARY DESIGNATED UST OPERATOR

Designated Operator's Name: Kenneth M. Johnson
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (858)694-3615
International Code Council Certification #: 5248983

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2014-08-21

ALTERNATE 1 ***(Optional)***

Designated Operator's Name: Melvin Zamora
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (619) 572-5860 x
International Code Council Certification #: 8084365

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2015-02-26

ALTERNATE 2 ***(Optional)***

Designated Operator's Name: Craig Cook
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (760) 940-4522 x
International Code Council Certification #: 8071778

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2012-06-09

NOTIFY THE LOCAL REGULATORY AGENCY WITHIN 30 DAYS OF ANY CHANGES TO THIS INFORMATION

I certify that, for the facility indicated at the top of this page, the individual(s) listed above will serve as Designated UST Operator(s). The individual(s) will conduct and document monthly facility inspections and annual facility employee training, in accordance with California Code of Regulations, Title 23, Sections 2715(c) - (f).
Furthermore, I understand and am in compliance with the requirements (statutes, regulations, and local ordinances) applicable to underground storage tanks.

K.M. Johnson **DATE:** 2/27/13

NAME OF TANK OWNER OR OWNER'S AGENT (Please Print)

K.M. Johnson **OWNER'S PHONE #:** (858) 694-2111 x

SIGNATURE OF TANK OWNER OR OWNER'S AGENT

Return this completed form to: **HMD-Designated UST Operator**
P.O. Box 129261, San Diego, CA 92112-9261

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 1

(One form per facility)

TYPE OF ACTION ☒ 1. NEW PLAN ☐ 2. CHANGE OF INFORMATION R01

I. FACILITY INFORMATION

FACILITY ID # *(Agency Use Only)* 3 7 — 0 0 0 — 1 1 4 2 6 1 1

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) R02

County of San Diego Sheriff Crime Lab

BUSINESS SITE ADDRESS R03	CITY R04		ZIP CODE R05
5255 Mt. Etna Drive	San Diego	CA	92117-

II. SPILL CONTROL AND CLEANUP METHODS

This plan addresses unauthorized releases from UST systems and supplements the emergency response plans and procedures in the facility's Hazardous Materials Business Plan.

- If safe to do so, facility personnel will take immediate measures to control or stop any release (e.g., activate pump shut-off, etc.) and, if necessary, safely remove remaining hazardous material from the UST system.
- Any release to secondary containment will be pumped or otherwise removed within 24 hours of discovery. Recovered hazardous materials, unless suitable for their intended use, will be managed as hazardous waste.
- Absorbent material will be used to contain and clean up manageable spills of hazardous materials. Absorbent material which has become too saturated to be effective or which is no longer intended for use will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. Used absorbent material, reusable or waste, will be stored in a properly labeled and sealed container. Waste material shall be disposed appropriately.
- Facility personnel will determine whether any water removed from secondary containment systems, or from clean-up activity, has been in contact with any hazardous material. If the water is contaminated, it will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. If the water has a petroleum sheen (i.e., rainbow colors), it is contaminated. A thick floating petroleum layer may not necessarily display rainbow colors. Water (hazardous or non-hazardous) from sumps, spill containers, etc. will not be disposed to storm water systems.
- We will review secondary containment systems for possible deterioration if any of the following conditions occur:
  1. Hazardous material in contact with secondary containment is not compatible with the material used for secondary containment;
  2. Secondary containment is prone to damage from any equipment used to remove or clean up hazardous material collected in secondary containment;
  3. Hazardous material, other than the product/waste stored in the primary containment system, is placed inside secondary containment to treat or neutralize released product/waste, and the added material or resulting material from such a combination is not compatible with secondary containment.

III. SPILL CONTROL AND CLEAN-UP EQUIPMENT

PERIODIC MAINTENANCE: Spill control and clean-up equipment kept permanently on-site is listed in the facility's Hazardous Materials Business Plan. This equipment is inspected at least monthly, and after each use, supplies are replenished as needed. Defective equipment is repaired or replaced as necessary.

EQUIPMENT NOT PERMANENTLY ON-SITE, BUT AVAILABLE FOR USE IF NEEDED: (Complete only if applicable)

EQUIPMENT	LOCATION	AVAILABILITY
R10	R20	R30
R11	R21	R31
R12	R22	R32
R13	R23	R33
R14	R24	R34
R15	R25	R35

IV. RESPONSIBLE PERSONS

THE FOLLOWING PERSON(S) IS/ARE RESPONSIBLE FOR AUTHORIZING ANY WORK NECESSARY UNDER THIS RESPONSE PLAN:

NAME	TITLE
R40 James Parks	R50 Building Maintenance Supervisor
R41	R51
R42 Michael Johnson	R52 Senior Plumber/ DSO
R43	R53

V. MONITORING INDICATORS

IF MONITORING INDICATES A POSSIBLE UNAUTHORIZED RELEASE, STEPS TO VERIFY THE RELEASE WILL BE MADE AS FOLLOWS: R60

☒ Additional system testing or data collection ☒ Inspection by qualified persons ☐ Recalibration of equipment ☐ Other (specify):

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 2

(One form per facility)

VI. REPORTING AND RECORD KEEPING

We will report/record any overfill, spill, or unauthorized release from a UST system as indicated in this plan.

Recordable Releases: Any unauthorized release from primary containment which the UST operator is able to clean up within eight (8) hours after the release was detected or should reasonably have been detected, and which does not escape from secondary containment, does not increase the hazard of fire or explosion, and does not cause any deterioration of secondary containment, must be recorded in the facility's monitoring records. Monitoring records must include:

- The UST operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous substances released;
- A description of the actions taken to control and clean up the release;
- The method and location of disposal of the released hazardous substances, and whether a hazardous waste manifest was or will be used;
- A description of actions taken to repair the UST and to prevent future releases;
- A description of the method used to reactivate interstitial monitoring after replacement or repair of primary containment.

Reportable Releases: Any overfill, spill, or unauthorized release which escapes from secondary containment (or primary containment if no secondary containment exists), increases the hazard of fire or explosion, or causes any deterioration of secondary containment, is a reportable release. Reportable releases are also recordable.

Within 24 hours after a reportable release has been detected, or should have been detected, we will notify the local agency administering the UST program of the release, investigate the release, and take immediate measures to stop the release. If necessary, or if required by the local agency, remaining stored product/waste will be removed from the UST to prevent further releases or facilitate corrective action. If an emergency exists, we will notify the State Office of Emergency Services.

Within five (5) working days of a reportable release, we will submit to the local agency a full written report containing all of the following information to the extent that the information is known at the time of filing the report:

- The UST owner's or operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous materials released;
- The approximate date of the release;
- The date on which the release was discovered;
- The date on which the release was stopped;
- A description of actions taken to control and/or stop the release;
- A description of corrective and remedial actions, including investigations which were undertaken and will be conducted to determine the nature and extent of soil, ground water or surface water contamination due to the release;
- The method(s) of cleanup implemented to date, proposed cleanup actions, and a schedule for implementing the proposed actions;
- The method(s) and location(s) of disposal of released hazardous materials and any contaminated soils, groundwater, or surface water.
- Copies of any hazardous waste manifests used for off-site transport of hazardous wastes associated with clean-up activity;
- A description of proposed methods for any repair or replacement of UST system primary/secondary containment systems;
- A description of additional actions taken to prevent future releases.

We will follow the reporting procedures described above if any of the following conditions occur:

- A recordable unauthorized release can not be cleaned up or is still under investigation within eight (8) hours of detection;
- Released hazardous substances are discovered at the UST site or in the surrounding area;
- Unusual operating conditions are observed, including erratic behavior of product dispensing equipment, sudden loss of product, or the unexplained presence of water in the tank, unless system equipment is found to be defective and is immediately repaired or replaced, and no leak has occurred;
- Monitoring results from UST system monitoring equipment/methods indicate that a release may have occurred, unless the monitoring equipment is found to be defective and is immediately repaired, recalibrated, or replaced, and additional monitoring does not confirm the initial results.

Record Retention: Monitoring records and written reports of unauthorized releases must be maintained on-site for at least 3 years. Hazardous waste shipping/disposal records (e.g., manifests) must be maintained for at least 3 years from the date of shipment.

VII. OWNER/OPERATOR SIGNATURE

CERTIFICATION: I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR SIGNATURE	DATE R70
K.M. Johnson	6-19-12
OWNER/OPERATOR NAME (print) R71	OWNER/OPERATOR TITLE R72
K.M. Johnson	Senior Plumber / DSO

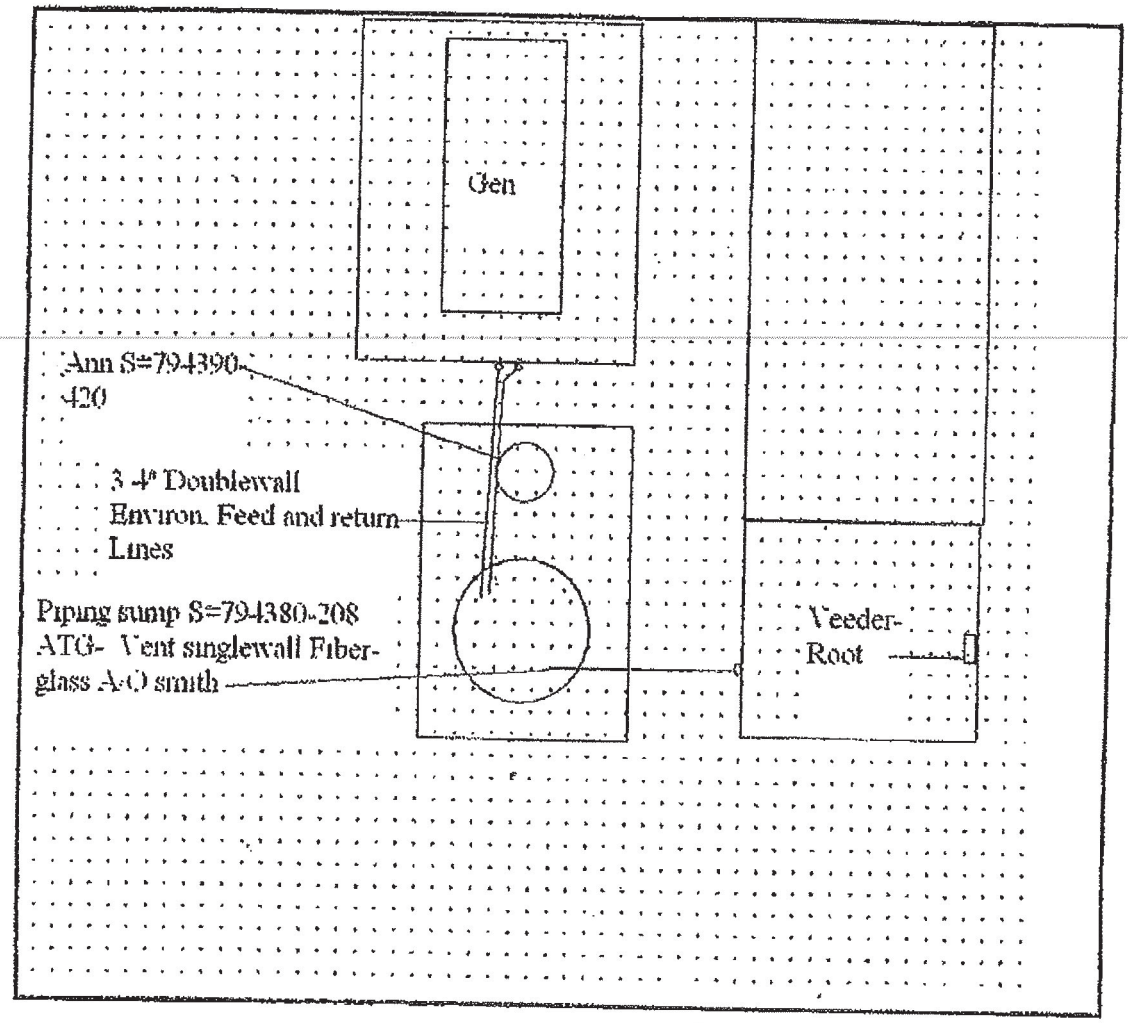
(Agency Use Only) This plan has been reviewed and is: ☐ Approved ☐ Approved With Conditions* ☐ Disapproved

Local Agency Signature: Date:

**Conditions of approval (if any):*

UST Monitoring Site Plan

Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/14/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2139 1-800-253-9933
http://www.sdcounty.ca.gov/deh/hmd/index.html

Designation of Underground Storage Tank (UST) Operator

UST Owner Statement of Understanding and Compliance with UST Requirements

Facility Name: Sheriff Regional Crime Lab	Facility Permit #:	1	1	4	2	6	1
Facility Address: 5255 Mount Etna	Phone:						
City: San Diego	Zip Code: 92117-						

Reason for Submitting this Form *(Check One)* ☐ **Initial Certification** ☐ **Change of Designated Operator** ☒ **Certificate Renewal**

Designated UST Operator(s) for this Facility

PRIMARY DESIGNATED UST OPERATOR

Designated Operator's Name: Kenneth M. Johnson
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (858)694-3615
International Code Council Certification #: 5248983

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2014-08-21

ALTERNATE 1 ***(Optional)***

Designated Operator's Name: Melvin Zamora
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (619) 572-5860 x
International Code Council Certification #: 8084365

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2015-02-26

ALTERNATE 2 ***(Optional)***

Designated Operator's Name: Craig Cook
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (760) 940-4522 x
International Code Council Certification #: 8071778

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2012-06-09

NOTIFY THE LOCAL REGULATORY AGENCY WITHIN 30 DAYS OF ANY CHANGES TO THIS INFORMATION

I certify that, for the facility indicated at the top of this page, the individual(s) listed above will serve as Designated UST Operator(s). The individual(s) will conduct and document monthly facility inspections and annual facility employee training, in accordance with California Code of Regulations, Title 23, Sections 2715(c) - (f).
Furthermore, I understand and am in compliance with the requirements (statutes, regulations, and local ordinances) applicable to underground storage tanks.

K.M. Johnson **DATE:** 2/27/13

NAME OF TANK OWNER OR OWNER'S AGENT (Please Print)

K.M. Johnson **OWNER'S PHONE #:** (858) 694-2111 x

SIGNATURE OF TANK OWNER OR OWNER'S AGENT

Return this completed form to: **HMD-Designated UST Operator**
P.O. Box 129261, San Diego, CA 92112-9261

DONALD F. STEUER
CHIEF FINANCIAL OFFICER
(619) 531-5413
FAX (619) 531-5219

County of San Diego

AUDITOR AND CONTROLLER
1600 PACIFIC HIGHWAY STE 166, SAN DIEGO, CALIFORNIA 92101-2478

TRACY M. SANDOVAL
ASST. CHIEF FINANCIAL OFFICER/
AUDITOR & CONTROLLER
(619) 531-5413
FAX (619) 531-5219

December 14, 2012

TO: Jack Miller, Director
Department of Environmental Health

FROM: Tracy M. Sandoval
General Manager/Auditor & Controller

MUNICIPAL FINANCIAL TEST DEMONSTRATING FINANCIAL RESPONSIBILITY FOR UNDERGROUND STORAGE TANKS BASED ON THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2012

Pursuant to Federal Regulation 40 CFR 280.105 (c), this letter is in support of the use of the local governmental financial test to demonstrate financial responsibility for taking corrective action and/or compensating third parties for bodily injury and property damage caused by sudden accidental releases and/or non-sudden accidental releases in the amount of at least $500,000 per occurrence and $1 million annual aggregate arising from operating underground storage tanks (See Worksheet for Municipal Financial Test, Attachment A).

A listing of underground storage tank facilities that are assured by this financial test is included on Attachment B.

The County of San Diego has not received an adverse opinion, or a disclaimer of opinion, from an independent auditor on its financial statements for the latest completed fiscal year.

If you have any questions, please contact Tracy Drager, Deputy Controller at (858) 694-2324.

Tracy M Sandoval

TRACY M. SANDOVAL
General Manager/Auditor & Controller

AFC:TD:lr

Attachments

c: Joseph M. Vizzier, Chief, Environmental Health
Sharyl Blackington, Manager, Fleet Maintenance Support

DONALD F. STEUER
CHIEF FINANCIAL OFFICER
(619) 531-5413
FAX (619) 531-5219

County of San Diego

AUDITOR AND CONTROLLER
1600 PACIFIC HIGHWAY STE 166, SAN DIEGO, CALIFORNIA 92101-2478

TRACY M. SANDOVAL
ASST. CHIEF FINANCIAL OFFICER/
AUDITOR & CONTROLLER
(619) 531-5413
FAX (619) 531-5219

December 14, 2012

TO: Jack Miller, Director
Department of Environmental Health

FROM: Tracy M. Sandoval
General Manager/Auditor & Controller

CHIEF FINANCIAL OFFICER LETTER REGARDING FINANCIAL RESPONSIBILITY FOR UNDEGROUND STORAGE TANKS (UST) BASED ON THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2012

The attached annual Chief Financial Officer letter demonstrating the County's financial responsibility for maintaining Underground Storage Tanks (UST) is submitted to the Department of Environmental Health pursuant to Title 40, Code of Federal Regulations (CFR), Part 280, Subpart H, Section 280.93.

The aforementioned federal regulations requires all owners and operators to show, through an approved method, their ability to pay for potential cleanup and third party damages resulting from accidental releases from their USTs. To demonstrate financial responsibility, the County of San Diego uses the approved local government financial test, pursuant to Title 40, CFR Section 280.105. In this regard, this report is submitted to your office in your capacity as the regulator in this area for the County of San Diego.

As shown in the attached report, the County currently owns and operates 42 underground tanks that are used to store gasoline and diesel fuel at various County facilities. Financial responsibility means that money will be available to meet potential cleanup costs or third party lawsuits resulting from leaking USTs.

The County successfully passed the test with a score of 2.821 (it must be greater than zero). Assumptions in the calculations, for which we received authorization from the Environmental Protection Agency, may include netting advance refunding of County debt and excluding certain Federal and State revenues with no matching local fund requirements.

As evidence that this procedure has been satisfactorily completed, copies of this letter are provided to the Department of General Services, Fleet Management, to post at all of the UST sites.

If you have any questions, please contact Tracy Drager, Deputy Controller at (858) 694-2324.

Tracy M Sandoval

TRACY M. SANDOVAL
General Manager/Auditor & Controller

AFC:TD:lr

Attachments

COUNTY OF SAN DIEGO
WORKSHEET FOR MUNICIPAL FINANCIAL TEST
Year Ended June 30, 2012
(in Thousands *)

Part I: Basic Information

1. Total Revenues		
a. Revenues	4,404,245	*
b. Subtract interfund transfers	460,552	*
c. Total Revenues	3,943,693	*
2. Total Expenditures		
a. Expenditures	4,319,259	*
b. Subtract Interfund Transfers	465,438	*
c. Total Expenditures	3,853,821	*
3. Local Revenues		
a. Total Revenues (from 1c)	3,943,693	*
b. Subtract intergovernmental transfers	2,328,938	*
c. Local Revenues	1,614,755	*
4. Debt Service		
a. Interest and fiscal charges	88,106	*
b. Add debt retirement	109,686	*
c. Total Debt Service	197,792	*
5. Total Funds	2,440,031	*
6. Population	3,143	*

Part II: Application of Test

7. Total Revenues to Population		
a. Total Revenues (from 1c)	3,943,693	*
b. Population (from 6)	3,143	*
c. Divide 7a by 7b	1,254.754	
d. Subtract 417	837.754	
e. Divide by 5,212	0.161	
f. Multiply by 4.095	0.658	
8. Total Expenses to Population		
a. Total Expenses (from 2c)	3,853,821	*
b. Population (from 6)	3,143	*
c. Divide 8a by 8b	1,226.160	
d. Subtract 524	702.160	
e. Divide by 5,401	0.130	
f. Multiply by 4.095	0.532	
9. Local Revenues to Total Revenues		
a. Local Revenues (from 3c)	1,614,755	*
b. Total Revenues (from 1c)	3,943,693	*
c. Divide 9a by 9b	0.409	
d. Subtract .695	(0.286)	
e. Divide by .205	(1.393)	
f. Multiply by 2.840	(3.956)	
10. Debt Service to Population		
a. Debt Service (from 4c)	197,792	*
b. Population (from 6)	3,143	*
c. Divide 10a by 10b	62.931	
d. Subtract 51	11.931	
e. Divide by 1,038	0.011	
f. Multiply by -1.866	(0.021)	

11. Debt Service to Total Revenues		
a. Debt Service (from 4c)	197,792	*
b. Total Revenues (from1c)	3,943,693	*
c. Divide 11a by 11b	0.050	
d. Subtract .068	(0.018)	
e. Divide by .259	(0.069)	
f. Multiply by -3.533	0.243	
12. Total Revenues to Total Expenses		
a. Total Revenues (from 1c)	3,943,693	*
b. Total Expenses (from 2c)	3,853,821	*
c. Divide 12a by 12b	1.023	
d. Subtract .910	0.113	
e. Divide by .899	0.126	
f. Multiply by 3.458	0.436	
13. Funds Balance to Total Revenues		
a. Total Funds (from 5)	2,440,031	*
b. Total Revenues (from 1c)	3,943,693	*
c. Divide 13a by 13b	0.619	
d. Subtract .891	(0.272)	
e. Divide by 9.156	(0.030)	
f. Multiply by 3.270	(0.097)	
14. Funds Balance to Total Expenses		
a. Total funds (from 5)	2,440,031	*
b. Total Expenses (from 2c)	3,853,821	*
c. Divide 14a by 14b	0.633	
d. Subtract .866	(0.233)	
e. Divide by 6.409	(0.036)	
f. Multiply by 3.270	(0.119)	
15. Total Funds to Population		
a. Total Funds (from 5)	2,440,031	*
b. Population (from 6)	3,143	*
c. Divide 15a by 15b	776.338	
d. Subtract 270	506.338	
e. Divide by 4,548	0.111	
f. Multiply by 1.866	0.208	
16. Add 7f + 8f + 9f + 10f + 11f + 12f + 13f + 14f + 15f + 4.937	2.821	

I hereby certify that the financial index shown on line 16 of the worksheet is greater than zero and that the wording of this letter is identical to the wording specified in 40 CFR Part 280.105(c) as such regulations were constituted on the date shown immediately below.

Tracy M. Sandoval
General Manager/Auditor & Controller

12/19/12
Date

ATTACHMENT B

SAN DIEGO COUNTY
FUEL TANK LOCATIONS

	LOCATION	ADDRESS	TYPE OF FUEL	# HOSES	TANKS/SIZE	MAKE MODEL TLS	NO. OF TANKS
1	ALPINE (17)	2910 Tavern Road, Alpine 91901	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
2	BONSALL (58)	2370 Pala Road, Bonsall 92003	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
3	BORREGO (37)	4550 Rango Way, Borrego 92004	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
4	CAMPO (23)	970 Forest Gate Road, Campo 91906	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
5	COC (36)	5555 Overland Ave. ,San Diego 92123	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	8	20,000	Veeder Root, 350	1
6	DESCANSO (32)	24592 Viejas Grade Road, Descanso 91916	Gasoline	4	12,000	Veeder Root, 350	1
7	EAST MESA (35)	446 Alta Road, San Diego 92173	Diesel	1	12,000	Veeder Root, 350	1
		1 TANK 2 COMPARTMENTS	Gasoline	2	8,000	Veeder Root, 350	1
8	ENCINITAS (95)	179 N. El Camino Real, Encinitas 92024	Gasoline	4	12,000	Veeder Root, 350	1
9	JULIAN (38)	1524 Highway 78 ,Julian 92036	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
10	LAKESIDE (33)	13115 Willow Road, Lakeside 92040	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
11	MT LAGUNA (35)	33947 Mt. Laguna Drive, Mt Laguna 91948	Diesel	1	2,000	Veeder Root, Guardian 250	
		1 TANK 2 COMPARTMENTS	Gasoline	1	1,000	Veeder Root, Guardian 250	
12	MT PALOMAR (56)	20745 State Park Road, Mt. Palomar 92060	Diesel	1	2,000	Veeder Root, Guardian 250	
		1 TANK 2 COMPARTMENTS	Gasoline	1	1,000	Veeder Root, Guardian 250	
13	RAMONA (48)	116 th Street, Ramona 92065	Diesel	8	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
14	SAN FELIPE (41)	20704 San Felipe Road,San Felipe 92088	Diesel	1	1,000	Veeder Root, Guardian 250	
		1 TANK 2 COMPARTMENTS	Gasoline	1	2,000	Veeder Root, Guardian 250	
15	SAN MARCOS (68)	1579 Osage Road, San Marcos 92069	Diesel	4	12,000	Veeder Root, 350	1

ATTACHMENT B

SAN DIEGO COUNTY
FUEL TANK LOCATIONS

	LOCATION	ADDRESS	TYPE OF FUEL	# HOSES	TANKS/SIZE	MAKE MODEL TLS	NO. OF TANKS
			Gasoline	4	12,000	Veeder Root, 350	1
16	SANTEE (39)	1875 Weld Blvd, El Cajon 92020	Gasoline	4	12,000	Veeder Root, 350	1
17	SOUTH BAY (76)	500 Third Ave. , Chula Vista 91910	Gasoline	4	12,000	Veeder Root, 350	1
18	SPRING VALLEY (28)	11970 Singer Lane, Spring Valley 91977	Diesel	2	12,000	Veeder Root, 350	1
			Gasoline	2	12,000	Veeder Root, 350	1
19	UNION & A (33)	1251 Union Street, San Diego 92101	Gasoline	4	12,000	Veeder Root, 350	1
20	VALLEY CENTER (64)	28565 Cole Grade Rd. Valley Center 92082	Diesel	4	12,000	Veeder Root, 350	1
			Gasoline	4	12,000	Veeder Root, 350	1
21	VISTA (90)	325 S. Melrose Street ,Vista 92083	Gasoline	8	15,000	Veeder Root, 350	1
22	SOUTH BAY REGIONAL CENTER	500 3rd Ave. Chula Vista 91910	Diesel	0	5,000	Veeder Root, TLS350	1
23	LAS COLINAS DETENTION	9000 Cottonwood Ave. Santee 92041	Diesel	0	1,000	Veeder Root, TLS350	1
24	COC CENTRAL PLANT	5555 Overland Ave. San Diego 92123	Diesel	0	20,000	Veeder Root, TLS350	1
25	COC PARKING STRUCTURE	5555 Overland Ave. San Diego 92123	Diesel	0	15,000	Veeder Root, TLS350	1
26	NCRC REGIONAL	325 S. Melrose Vista 92081	Diesel	0	10,000	Veeder Root, TLS350	1
27	SAN DIEGO CENTRAL JAIL	1173 Front St. San Diego 92101	Diesel	0	6,500	Simples SST	1
28	EAST MESA JUVENILE DETENTION	4460 Alta Road San Diego 92154	Diesel	0	6,000	INCON TS2001	1
29	CAC	1600 Pacific Highway San Diego 92101	Diesel	0	2,000	Veeder Root, TLS350	1
30	SAN DIEGO PHSYCHIATRIC HOSPITAL	3853 Rosecrans Ave. San Diego 92110	Diesel	0	2,000	Veeder Root, TLS350	1
31	SHERIFF CRIME LAB	5255 Mount Etna San Diego 92117	Diesel	0	4,000	Veeder Root, TLS350	1
32	GILLESPIE FIELD ASTREA	1745 N. Marshall Ave. El Cajon 92020	Jet A	1	12,000	Veeder Root, TLS350	1
			Jet A	3	20,000	Veeder Root, TLS350	1

42 UST

3 AST, all AST's are 1 tank 2 compartments

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 1

(One form per facility)

TYPE OF ACTION ☒ 1. NEW PLAN ☐ 2. CHANGE OF INFORMATION R01

I. FACILITY INFORMATION

FACILITY ID # *(Agency Use Only)* 3 7 — 0 0 0 — 1 1 4 2 6 1 1

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) R02

County of San Diego Sheriff Crime Lab

BUSINESS SITE ADDRESS R03	CITY R04		ZIP CODE R05
5255 Mt. Etna Drive	San Diego	CA	92117-

II. SPILL CONTROL AND CLEANUP METHODS

This plan addresses unauthorized releases from UST systems and supplements the emergency response plans and procedures in the facility's Hazardous Materials Business Plan.

- If safe to do so, facility personnel will take immediate measures to control or stop any release (e.g., activate pump shut-off, etc.) and, if necessary, safely remove remaining hazardous material from the UST system.
- Any release to secondary containment will be pumped or otherwise removed within 24 hours of discovery. Recovered hazardous materials, unless suitable for their intended use, will be managed as hazardous waste.
- Absorbent material will be used to contain and clean up manageable spills of hazardous materials. Absorbent material which has become too saturated to be effective or which is no longer intended for use will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. Used absorbent material, reusable or waste, will be stored in a properly labeled and sealed container. Waste material shall be disposed appropriately.
- Facility personnel will determine whether any water removed from secondary containment systems, or from clean-up activity, has been in contact with any hazardous material. If the water is contaminated, it will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. If the water has a petroleum sheen (i.e., rainbow colors), it is contaminated. A thick floating petroleum layer may not necessarily display rainbow colors. Water (hazardous or non-hazardous) from sumps, spill containers, etc. will not be disposed to storm water systems.
- We will review secondary containment systems for possible deterioration if any of the following conditions occur:
  1. Hazardous material in contact with secondary containment is not compatible with the material used for secondary containment;
  2. Secondary containment is prone to damage from any equipment used to remove or clean up hazardous material collected in secondary containment;
  3. Hazardous material, other than the product/waste stored in the primary containment system, is placed inside secondary containment to treat or neutralize released product/waste, and the added material or resulting material from such a combination is not compatible with secondary containment.

III. SPILL CONTROL AND CLEAN-UP EQUIPMENT

PERIODIC MAINTENANCE: Spill control and clean-up equipment kept permanently on-site is listed in the facility's Hazardous Materials Business Plan. This equipment is inspected at least monthly, and after each use, supplies are replenished as needed. Defective equipment is repaired or replaced as necessary.

EQUIPMENT NOT PERMANENTLY ON-SITE, BUT AVAILABLE FOR USE IF NEEDED: (Complete only if applicable)

EQUIPMENT	LOCATION	AVAILABILITY
R10	R20	R30
R11	R21	R31
R12	R22	R32
R13	R23	R33
R14	R24	R34
R15	R25	R35

IV. RESPONSIBLE PERSONS

THE FOLLOWING PERSON(S) IS/ARE RESPONSIBLE FOR AUTHORIZING ANY WORK NECESSARY UNDER THIS RESPONSE PLAN:

NAME	TITLE
R40 James Parks	R50 Building Maintenance Supervisor
R41	R51
R42 Michael Johnson	R52 Senior Plumber/ DSO
R43	R53

V. MONITORING INDICATORS

IF MONITORING INDICATES A POSSIBLE UNAUTHORIZED RELEASE, STEPS TO VERIFY THE RELEASE WILL BE MADE AS FOLLOWS: R60

☒ Additional system testing or data collection ☒ Inspection by qualified persons ☐ Recalibration of equipment ☐ Other (specify):

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1-800-253-9933

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 2

(One form per facility)

VI. REPORTING AND RECORD KEEPING

We will report/record any overfill, spill, or unauthorized release from a UST system as indicated in this plan.

Recordable Releases: Any unauthorized release from primary containment which the UST operator is able to clean up within eight (8) hours after the release was detected or should reasonably have been detected, and which does not escape from secondary containment, does not increase the hazard of fire or explosion, and does not cause any deterioration of secondary containment, must be recorded in the facility's monitoring records. Monitoring records must include:

- The UST operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous substances released;
- A description of the actions taken to control and clean up the release;
- The method and location of disposal of the released hazardous substances, and whether a hazardous waste manifest was or will be used;
- A description of actions taken to repair the UST and to prevent future releases;
- A description of the method used to reactivate interstitial monitoring after replacement or repair of primary containment.

Reportable Releases: Any overfill, spill, or unauthorized release which escapes from secondary containment (or primary containment if no secondary containment exists), increases the hazard of fire or explosion, or causes any deterioration of secondary containment, is a reportable release. Reportable releases are also recordable.

Within 24 hours after a reportable release has been detected, or should have been detected, we will notify the local agency administering the UST program of the release, investigate the release, and take immediate measures to stop the release. If necessary, or if required by the local agency, remaining stored product/waste will be removed from the UST to prevent further releases or facilitate corrective action. If an emergency exists, we will notify the State Office of Emergency Services.

Within five (5) working days of a reportable release, we will submit to the local agency a full written report containing all of the following information to the extent that the information is known at the time of filing the report:

- The UST owner's or operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous materials released;
- The approximate date of the release;
- The date on which the release was discovered;
- The date on which the release was stopped;
- A description of actions taken to control and/or stop the release;
- A description of corrective and remedial actions, including investigations which were undertaken and will be conducted to determine the nature and extent of soil, ground water or surface water contamination due to the release;
- The method(s) of cleanup implemented to date, proposed cleanup actions, and a schedule for implementing the proposed actions;
- The method(s) and location(s) of disposal of released hazardous materials and any contaminated soils, groundwater, or surface water.
- Copies of any hazardous waste manifests used for off-site transport of hazardous wastes associated with clean-up activity;
- A description of proposed methods for any repair or replacement of UST system primary/secondary containment systems;
- A description of additional actions taken to prevent future releases.

We will follow the reporting procedures described above if any of the following conditions occur:

- A recordable unauthorized release can not be cleaned up or is still under investigation within eight (8) hours of detection;
- Released hazardous substances are discovered at the UST site or in the surrounding area;
- Unusual operating conditions are observed, including erratic behavior of product dispensing equipment, sudden loss of product, or the unexplained presence of water in the tank, unless system equipment is found to be defective and is immediately repaired or replaced, and no leak has occurred;
- Monitoring results from UST system monitoring equipment/methods indicate that a release may have occurred, unless the monitoring equipment is found to be defective and is immediately repaired, recalibrated, or replaced, and additional monitoring does not confirm the initial results.

Record Retention: Monitoring records and written reports of unauthorized releases must be maintained on-site for at least 3 years. Hazardous waste shipping/disposal records (e.g., manifests) must be maintained for at least 3 years from the date of shipment.

VII. OWNER/OPERATOR SIGNATURE

CERTIFICATION: I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR SIGNATURE	DATE R70
K.M. Johnson	6-19-12
OWNER/OPERATOR NAME (print) R71	OWNER/OPERATOR TITLE R72
K.M. Johnson	Senior Plumber / DSO

(Agency Use Only) This plan has been reviewed and is: ☐ Approved ☐ Approved With Conditions* ☐ Disapproved

Local Agency Signature: Date:

**Conditions of approval (if any):*

Permit #: 114261 **Date: 2/23/2009**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: San Diego Sheriff's Crime Laboratory

Business Address: 5255 Mount Etna Drive, San Diego, CA 92117-6912

Business Owner or Operator: San Diego Sheriff's Department

Please complete the following by entering the chemical name in the chemical name column and then place a check ✓ in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check ✓ in the <1-gallon column.
(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Acetaldehyde	☒	☐	☐	☐	☐	☐	☐
Alprazolam	☐	☒	☐	☐	☐	☐	☐
Anabolic steroids	☐	☒	☐	☐	☐	☐	☐
Aniline	☒	☐	☐	☐	☐	☐	☐
Barbiturates	☐	☒	☐	☐	☐	☐	☐
Benzene	☒	☐	☐	☐	☐	☐	☐
Benzidine-based dyes	☐	☒	☐	☐	☐	☐	☐
Benzodiazepines	☐	☒	☐	☐	☐	☐	☐
Benphetamine	☐	☒	☐	☐	☐	☐	☐
Bromoform	☒	☐	☐	☐	☐	☐	☐
Carbamazepine	☐	☒	☐	☐	☐	☐	☐
Carbon disulphide	☐	☐	☒	☐	☐	☐	☐
Carbon tetrachloride	☒	☐	☐	☐	☐	☐	☐
Chlordiazepoxide HCl	☐	☒	☐	☐	☐	☐	☐
Chloroform	☐	☐	☒	☐	☐	☐	☐
Cocaine	☐	☒	☐	☐	☐	☐	☐
Cyclohexane	☒	☐	☐	☐	☐	☐	☐
Diazepam	☐	☒	☐	☐	☐	☐	☐
1,2-Dichloroethane	☐	☐	☐	☒	☐	☐	☐
Dichloromethane	☐	☐	☒	☐	☐	☐	☐
3,3'-Dimethoxybenzidine	☐	☒	☐	☐	☐	☐	☐

Permit #: 114261 **Date: 2/23/2009**

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(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Diphenylhydantoin	☐	☒	☐	☐	☐	☐	☐
Formaldehyde	☐	☐	☒	☐	☐	☐	☐
Halazepam	☐	☒	☐	☐	☐	☐	☐
Lead	☐	☐	☐	☒	☐	☐	☐
Lead compounds	☐	☒	☐	☐	☐	☐	☐
Lorazepam	☐	☒	☐	☐	☐	☐	☐
Mercury and mercury compounds	☐	☐	☐	☒	☐	☐	☐
Methyltestosterone	☐	☒	☐	☐	☐	☐	☐
Nicotine	☐	☒	☐	☐	☐	☐	☐
Oxazepam	☐	☒	☐	☐	☐	☐	☐
Oxymetholone	☐	☒	☐	☐	☐	☐	☐
Pentobarbital sodium	☐	☒	☐	☐	☐	☐	☐
Phenacetin	☐	☒	☐	☐	☐	☐	☐
Phenobarbital	☐	☒	☐	☐	☐	☐	☐
Phenolphthalein	☒	☐	☐	☐	☐	☐	☐
Phenolphthalein	☐	☒	☐	☐	☐	☐	☐
Primidone	☐	☒	☐	☐	☐	☐	☐
Pyridine	☒	☐	☐	☐	☐	☐	☐
Secobarbital	☐	☒	☐	☐	☐	☐	☐
Stanozolol	☐	☒	☐	☐	☐	☐	☐
Temazepam	☐	☒	☐	☐	☐	☐	☐

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(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Testosterone and its esters	☐	☒	☐	☐	☐	☐	☐
Testosterone enanthate	☐	☒	☐	☐	☐	☐	☐
Toluene	☐	☐	☒	☐	☐	☐	☐
Trichloroethylene	☒	☐	☐	☐	☐	☐	☐
==========	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐
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State of California
State Water Resources Control Board
Division of Financial Assistance
P.O. Box 944212
Sacramento, CA 94244-2121
(Instructions on reverse side)

For State Use Only

CERTIFICATION OF FINANCIAL RESPONSIBILITY

FOR UNDERGROUND STORAGE TANKS CONTAINING PETROLEUM

A. I am required to demonstrate Financial Responsibility in the required amounts as specified in California Code of Regulations (CCR), Title 23, Division 3, Chapter 18, Section 2807,

[X] 500,000 dollars per occurrence or [ ] 1 million dollars per occurrence AND [X] 1 million dollars annual aggregate or [ ] 2 million dollars annual aggregate

B. County of San Diego *hereby certifies that it is in compliance with the requirements of Section 2807,*
(Name of Tank Owner or Operator)
California Code of Regulations, Title 23, Division 3, Chapter 18, Article 3, Section 2807.
The mechanisms used to demonstrate financial responsibility as required by Section 2807 are as follows:

C. Mechanism Type	Name and Address of Issuer	Mechanism Number	Coverage Amount	Coverage Period	Corrective Action	Third Party Comp
Government guarantee	1600 Pacific Hwy San Diego, CA 92101	N/A for this Mechanism	$500K per occurance $1Mil annual aggregate	Annual	Yes	Yes
Chief Financial Officer Letter	1600 Pacific Hwy San Diego, CA 92101	N/A for this mechanism	$500K per occurance $1Mil annual aggregate	Annual	Yes	Yes

Note:

Note: If you are using the State Fund as any part of your demonstration of financial responsibility, your execution and submission of this certification also certifies that you are in compliance and shall maintain compliance with all conditions for participation in the Fund. See instructions.

D. Facility Name	Facility Address
See attachments	See attachments
Facility Name	Facility Address
Facility Name	Facility Address

E. Signature of Tank Owner or Operator	Date	Name and Title of Tank Owner or Operator
[signature]	11/12/09	April Heinze Director DepT of Gen. Serv.
Signture of Witness or Notary	Date	Name of Witness or Notary
[signature]	11/12/09	Vicki Rajsky

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 3	DATE 1/6/2014
RECORD ID #	DEH2002-HUPFP-114261
TIME START 0800	END 1000
SPECIALIST	Kasprovich
INSPECTION CONTACT	Lauren Sautkulis
TITLE	Criminalist II
PHONE	(858) 467-4600

FACILITY NAME SD County Sheriff Crime Lab

ADDRESS 5255 Mt. Etna Drive

CITY/ZIP San Diego, CA / 92117

On the above date, the County inspected your facility under the authority of the California Health and Safety Code (H&SC), to determine compliance with applicable provisions of the H&SC, the California Code of Regulations (CCR), and the San Diego County Code of Regulatory Ordinances (SDCC). **This report serves as a Notice to Comply (H&SC 25187.8 & 25404.1.2) for any minor violations as defined in H&SC 25404 and 25117.6.** This report may contain both minor and more significant (Class II) violations. Minor violations do not include repeat violations or violations remaining uncorrected for more than 30 days (or as specified below). Minor violations do not include knowing, willful, intentional, or chronic violations; nor do they include violations showing a pattern of neglect or disregard. The remarks below are intended to provide guidance to correct any violations indicated on the attached violation report. You must submit a written response to this report within 30 days (or as specified below) demonstrating that all violations have been corrected or include a written notice of disagreement that clearly states the reason for any disputed violations. Prompt correction can protect you from penalties for a "minor violation". Penalties can be imposed for each day in violation for all other violations even if they are corrected promptly. However, correction within 30 days (or as specified below) will make a penalty less likely.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y*	N/A*		Y*	N/A*	
☒	☐	Unified Program Facility Permit current	☒	☐	Permit Expires on: 3/31/2014
☒	☐	Hazardous Materials Business Plan available	☒	☐	Contingency Plan available ☐LQG ☒SQG
☒	☐	Employee Training is adequate	☒	☐	Employee Training records available
☒	☐	Waste disposal records available for review	☐	☐	Universal waste managed properly
☒	☐	Emergency contacts current ☐Updated today	☒	☐	Waste containers ☒ closed ☒ labeled
☒	☐	Chemical inventory/map current ☐ Updated today	☒	☐	Waste containers in good condition

Consent to inspect granted by: ☒ Inspection Contact ☐ Other: ____

ROUTINE INSPECTION

The annual monitoring system certification for the 4,000 gallon diesel underground storage tank (UST) was conducted today with Mike Johnson, DUSTO, and ICC Certified Service Technician Andrew Jauregui, from Jauregui and Culver Testing. The Sheriff Crime Lab was also inspected today with Lauren Sautkulis, Criminalist II. Consent for both inspections was granted.

NOTICE TO COMPLY:

1) VIOLATION: BUSINESS PLAN NOT CERTIFIED ANNUALLY

OBSERVATION: As of January 1, 2013, all permitted businesses are required to submit business plan information electronically using the California Environmental Reporting System (CERS). This business has failed to submit site business plan information electronically and has failed to certify the business plan annually.

CORRECTIVE ACTION: The CERS ID for this facility is 10386706. Go to the CERS homepage and set up the account for this business. Once access has been granted for this ID, submit all required elements for regulator review. Complete the CERS submittal by February 6, 2014 as evidence this violation has been corrected.

The Hazardous Materials Business Plan (inventory & site map, emergency contacts, emergency response plan, and employee training plan) is required by law to be certified online through the California Environmental Reporting System (CERS). For additional information about hazardous materials business plans and CERS, go to: http://www.sdcounty.ca.gov/deh/hazmat/hmd-cers-info.html

PRINTED NAME OF FACILITY REPRESENTATIVE: LAUREN SAUTKULIS

DATE SIGNED: 01 / 08 / 14

SIGNATURE OF FACILITY REPRESENTATIVE: X Lauren Sautkulis

TITLE OF FACILITY REPRESENTATIVE: Assistant Safety manager/Criminalist

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

RECORD ID # DEH2002-HUPFP-114261
DATE 1/6/2014

FACILITY ADDRESS: 5255 Mt. Etna Drive ZIP CODE: 92117

REMARKS:

THE FOLLOWING AREAS WERE INCLUDED IN TODAY'S INSPECTION: 4,000 GALLON DIESEL UST, MAINTENANCE SHOP, FORENSIC LABS, CHEMICAL WASTE STORAGE ROOM, FIREARMS ANALYSIS UNIT, CRIME SCENE INVESTIGATIONS, AND CHEMICAL STORAGE ROOM.

A) All components of the UST system were tested and passed. The monitoring plan, response plan, plot plan, CFO/CFR letter, facility page, tank page, monthly DUSTO reports, DUSTO employee training, and DUSTO letter of designation were reviewed.

B) SB 989 testing was conducted on 10/25/2011 and is due by 10/25/2014.

C) This site is a large quantity generator of medical waste. Be sure to upload the Medical Waste Management Plan (MWMP) in CERS.

D) Three (3) years worth of hazardous waste shipping documents were reviewed during the inspection. Three (3) years worth of medical waste shipping documents were reviewed during the inspection.

E) Remember to re certify your Hazardous Material Business Plan (HMBP) and annual carcinogen and toxicity report annually even if there have been no changes.

Lauren Sawtelle — 01 / 08 / 14 — Assistant safety manager / Commandit

SIGNATURE OF FACILITY REPRESENTATIVE | DATE SIGNED | TITLE OF FACILITY REPRESENTATIVE

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT
Small and Large Quantity Generators of Hazardous Waste
Handlers of Hazardous Materials

PERMIT # 114261
DATE 1/6/2014
PAGE 3 **OF** 3

FACILITY ADDRESS: 5255 Mt. Etna Drive **ZIP:** 92117

VIOLATION REPORT: The items checked below refer to specific sections/numbers of Titles 19, 22 & 27 of the California Code of Regulations (CCR), Chapters 6.5, 6.67 & 6.95 of the Health and Safety Code, and/or the San Diego County Code (SDCC). Small Quantity Hazardous Waste Generator=(SQG); Large Hazardous Waste Quantity Generator=(LQG); Code 40 of Federal Regulations=(CFR). **All violations must be corrected. Submit documentation of return to compliance to your Specialist. You may use the Corrective Action Form (HM-926) to document your return to compliance. Your Specialist can provide this form. Please call (858) 505-6850 or your Specialist if you have any questions.**

HAZARDOUS MATERIALS REQUIREMENTS

Viol #	V		VIOLATION DESCRIPTION
	☐	1001	UPF permit not obtained for hazardous materials. SDCC 68.905
	☐	1002	Hazardous Materials Business Plan (HMBP) not established/ implemented. 25503.5(a)
	☐	1004	HMBP not submitted to the CUPA. 25505(a)
	☐	1005	Emergency contact not provided or current. 25509(a)(7)
	☐	1007	Highly toxic gas (TLV≤10 ppm) not disclosed. 68.1113(b)
	☐	1008	Did not submit annual carcinogen/reproductive toxin list. 68.1113(c)
	☐	1009	Site map is not sufficient or complete. 25509(a)(5) & 25505(a)(2)
	☐	1010	Did not report release or threatened release. 25507(a), 19 CCR 2703
	☐	1012	SPCC Plan not prepared. 25270.3 & 25270.4.5(a)
	☐	1013	Copy of HMBP not onsite for inspector's review. 25505(c)
	☐	1014	HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729 & 2729.1
	☐	1015	Did not have adequate employee training program. 2732 &/or 25504(c)
	☐	1016	Failed to have an adequate emergency response plan. 25504(b), 2731
1	☒	1017	Business Plan not certified annually. 25505(d) & (e)(2)
	☐	1018	Inventory not amended for 100% increase of hazardous material onsite or inventory is incomplete. 25509, 25510
	☐	1019	SPCC Plan amendment not prepared within 6 months of change. 25270.4.5(a) [ref. CFR 112.1(b) & CFR 112.5]
	☐	1020	Failed to submit Unified Program Consolidated Form(s) to the CUPA for regulated activity or change of information. 27 CCR 15400.1(b) &/or SDCC 68.906, 68.909, &/or 68.908.2

HAZWASTE REQUIREMENTS FOR LQGs & SQGs

RECORDKEEPING

	☐	0131	Unified Program Facility (UPF) permit not obtained. SDCC 68.905
	☐	0132	Failed to obtain & maintain a valid EPA ID Number. 66262.12(a)
	☐	0133	Failed to send manifest copy to DTSC. 66262.23(a)(4)
	☐	0134	Failed to file Exception Report with DTSC. 66262.42
	☐	0135	Failed to keep hazardous waste manifests/receipts for 3 years available for inspection. 66262.40(a) & 25160.2(b)(3), 25185(a)(4)
	☐	0136	Did not have records of battery disposal. 66266.81(a)(4)(B)
	☐	0137	Failed to complete manifest properly. 66262.23(a)
	☐	0138	Manifest signed by the TSDF not available for inspection. 66262.40(a)
	☐	0140	Failed to have LDR documentation onsite. 66268.7(a)(8)
	☐	0141	Failed to obtain approval for TSDF. 25201(a)
	☐	0142	Failed to notify CUPA for eligible onsite treatment. 25201(a)
	☐	0145	ERM reporting not submitted biennially &/or available. 25143.10
	☐	0146	Failed to have adequate records demonstrating claim of exemption for Excluded Recyclable Material (ERM). 25143.2(f) & 66261.2(g)
	☐	0147	Failed to keep records of offsite universal waste (UW) shipment(s) available for inspection for 3 years. 66273.39(c) & (d)(2), 25185(a)(4)
	☐	0148	Failed to keep copies of analytical results, waste analysis records, or waste determination results. (3 years) 66262.40(c)
	☐	0149	Failed to keep disposal receipts (3 years) for drained used oil filters &/or drained fuel filters. 25250.22 & 66266.130(c)(5)

DISPOSAL AND TRANSPORTATION

	☐	0301	Unauthorized disposal of hazardous waste. 25189.5(a) or 25189(c) or (d) or 25189.2(c)
	☐	0302	Unlawful transportation of hazardous waste (HW). 25163(a)
	☐	0303	Did not use HW manifest for disposal. 66262.20(a), 25160(b)(1) or (2), 25160.2(b)(9)
	☐	0304	Failed to make a proper waste determination. 66262.11 & 66260.200(c)
	☐	0305	Disposed of used oil illegally. 25250.5(a) & 25189.5(a) or 25189(c) or (d) or 25189.2(c)
	☐	0306	Disposed of latex paint illegally. 25217.1
	☐	0307	Disposed of UW to an unauthorized point. 25189.5(a) or 25189(c) or (d) or 25189.2(c), 66273.31(a)
	☐	0308	Impermissible dilution of hazardous waste. 66268.3(a)

HAZWASTE REQUIREMENTS FOR LQGs & SQGs

Viol #	V		VIOLATION DESCRIPTION

STORAGE AND HANDLING

	☐	0214	Used oil intentionally contaminated with HW. 25250.7(a)
	☐	0215	Used oil filters improperly managed. 66266.130
	☐	0216	Failed to label hazardous materials within 10 days or less. 25124(b)(3)(A) & 66262.34(f)
	☐	0217	Failed to repackage damaged/deteriorated hazardous material container within 96 hours. 25124(b)(3)(B) & 66262.34(f)
	☐	0218	Failed to label &/or close drained ☐ used oil filters &/or ☐ used fuel filters. 25250.22 & 66266.130(c)(3)
	☐	0219	Failed to properly segregate used oil &/or fuel drained from filters. 66266.130(c)(6) or 25250.22(b)(4)
	☐	0220	Spent lead acid batteries not properly managed. 66266.81
	☐	0221	Failed to comply with satellite regulations. 66262.34(c)
	☐	0222	Failed to properly label ERM. 25143.9(a)
	☐	0223	Failed to properly manage non-empty container or inner liner removed from a container. 66261.7(b), (d) &/or (f)
	☐	0224	Failed to mark date on empty container larger than 5 gallons &/or manage it within one year. 66261.7(c) & (f)
	☐	0237	Failed to properly dispose of UW within one year. 66273.35(a) &/or (c)
	☐	0238	Failed to manage UW in a manner to prevent release(s) to the environment. 66273.33 & 66273.33.5
	☐	0239	Failed to properly label or mark UW (non-CESQUWG). 66273.34

HAZWASTE REQUIREMENTS FOR SQGs ONLY

STORAGE AND HANDLING Pursuant to 66262.34(d)

	☐	0225	Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR 262.34(c) & (f), &/or 25201(a) [>90 days for an AHW waste]
	☐	0226	Did not accumulate waste in container or tank. 66262.34(d)(2)
	☐	0227	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
	☐	0228	Failed to keep container closed. CFR 265.173
	☐	0229	Failed to conduct weekly inspections. CFR 265.174
	☐	0230	Failed to maintain aisle space. CFR 265.35
	☐	0231	Failed to properly separate incompatible wastes. CFR 265.177
	☐	0232	Waste accumulated in a container in poor condition. CFR 265.171
	☐	0233	Failed to use a lined/compatible container. CFR 265.172
	☐	0234	Did not maintain &/or operate facility to prevent release or fire. CFR 265.31

TRAINING, CONTINGENCY PLAN & ER PROCEDURES Pursuant to 66262.34(d)(2)

	☐	0407	Employee training program not adequate. CFR 262.34(d)(5)(iii)
	☐	0408	Failed to post ER plan by phone. CFR 262.34(d)(5)(iii)
	☐	0409	Spill/fire control equip not available. CFR 265.32(c)
	☐	0410	Failed to equip facility with internal communication or alarm. CFR 265.32(a) & (b)
	☐	0411	Failed to carry out contingency plan during an emergency. CFR 262.34(d)(5)(iv)
	☐	0412	Failed to have an emergency coordinator on call or available during emergency. CFR 262.34(d)(5)(i)

HAZARDOUS WASTE TANK SYSTEMS Pursuant to 66262.34(d)(2)

	☐	1612	Hazardous waste improperly stored in a tank system causing ☐ leaks, ☐ corrosion, or ☐ failure. CFR 265.201(b)(2)
	☐	1613	Failed to comply with tank standards which include: two (2) feet of freeboard (where applicable), shut off for waste feed line, and daily and weekly inspections. CFR 265.201(b) & (c)
	☐	1614	Failed to properly complete &/or document closure for a hazardous waste tank. CFR 265.201(d) & 67383.3
	☐	1615	Failed to safely accumulate ignitable or reactive waste in a tank. CFR 265.201(e)
	☐	1616	Failed to safely manage incompatible waste in a tank. CFR 265.201(f)

Karen Sautkulis — 01.08.14 — Assistant Safety Manager / Criminalist

SIGNATURE OF FACILITY REPRESENTATIVE — DATE SIGNED — TITLE OF FACILITY REPRESENTATIVE

RECORD #: DEH2002-HMMP-114261
Facility Name: _____
☐ CERS Accepted Submittal: __/__/__
☒ Inspection conducted on: 1/6/14
Chris Kasprovich

County of San Dieg

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6880 1-800-253-9933 FAX (858) 505-6848; http://www.sdcdeh.org

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Authority Cited: Chapter 6.7, Health and Safety Code; Chapter 16, Division 3, Title 23, California Code of Regulations

This form must be used to document installation, testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

Plan Check Number: **Permit Number:**

A. General Information

Facility Name: County of San Diego Crime Lab Bldg. No.:

Site Address: 5255 Mt. Etha St. City: San Diego Zip:

Facility Contact Person: Mike Johnson Contact Phone No.: (858) 694-3615 x

Make/Model of Monitoring System: TLS-300C Date of Testing/Servicing: 6-Jan-14

B. Inventory of Equipment Tested/Certified: Check the appropriate boxes to indicate specific equipment installed/ inspected serviced:

Tank ID: Diesel 4,000 ☒ In-Tank Gauging Probe Model: 847390-107 ☒ Annular Space or Vault Sensor Model: 794390-420 ☒ Piping Sump / Trench Sensor(s) Model: 794380-208 ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☒ Tank Overfill / High-Level Sensor Model: 847390-107 ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID:** ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Tank ID: ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).	**Tank ID:** ☐ In-Tank Gauging Probe Model: ☐ Annular Space or Vault Sensor Model: ☐ Piping Sump / Trench Sensor(s) Model: ☐ Fill Sump Sensor(s) Model: ☐ Mechanical Line Leak Detector Model: ☐ Electronic Line Leak Detector Model: ☐ Tank Overfill / High-Level Sensor Model: ☐ Other (specify equipment type and model in Section E on Page 2).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).
Dispenser ID: ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).	**Dispenser ID:** ☐ Dispenser Containment Sensor(s). Model: ☐ Shear Valve(s). ☐ Dispenser Containment Float(s) and Chain(s).

*If the facility contains more tanks or dispensers, copy this form. Include information for every tank and dispenser at the facility.

C. Certification - I certify that the equipment identified in this document was installed/inspected/serviced in accordance with the manufacturers' guidelines. Attached to this Certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report *(check all that apply)*: ☒ Copy of the report ☒ System set-up ☒ Alarm history report

Technician Name (print): Andrew Jauregui

Signature: _____

Certification No.: B38272 License No.: 708231

Testing Company Name: Jauregui and Culver Inc Phone No.: (760) 743-0518 x

Testing Company Address: 959 west mission ave. Escondido, CA 92025 Date of Testing/Servicing: 6-Jan-14

D. Results of Testing/Servicing

Permit Number:

Software Version Installed: 15.01

Complete the following checklist:

☒ Yes	☐ No*	Is the audible alarm operational?
☒ Yes	☐ No*	Is the visual alarm operational?
☒ Yes	☐ No*	Were all sensors visually inspected, functionally tested, and confirmed operational?
☒ Yes	☐ No*	Were all sensors installed at lowest point of secondary containment and positioned so that other equipment will not interfere with their proper operation?
☐ Yes	☐ No* ☒ N/A	If alarms are relayed to a remote monitoring station, is all communications equipment (e.g. modem) operational?
☐ Yes	☐ No* ☒ N/A	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected? If yes: which sensors initiate positive shutdown? *(Check all that apply)* ☐ Sump/Trench Sensors; ☐ Dispenser Containment Sensors. Did you confirm positive shutdown due to leaks and sensor failure/disconnection? ☐ Yes; ☐ No.
☒ Yes	☐ No* ☐ N/A	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly? If so, at what percent of tank capacity does the alarm trigger? 90%
☐ Yes*	☒ No	Was any monitoring equipment replaced? If yes, identify specific sensors, probes, or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E, below.
☐ Yes*	☒ No	Was liquid found inside any secondary containment systems designed as dry systems? *(Check all that apply)* ☐ Product; ☐ Water. If yes, describe causes in Section E, below.
☒ Yes	☐ No*	Was monitoring system set-up reviewed to ensure proper settings? Attach set up reports, if applicable
☒ Yes	☐ No*	Is all monitoring equipment operational per manufacturer's specifications?

*** In Section E below, describe how and when these deficiencies were or will be corrected.**

E. Comments (500 characters max. add additional sheets if needed): **The Overfill alarm did not go off during testing. R1-Relay in Veeder Root was bad. I moved overfill to R2-relay and reprogramed, then tested while inspector was on site. All tested out good.**

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

F. In-Tank Gauging / SIR Equipment: **Permit Number:**

☐ Check this box if tank gauging is used only for inventory control

☐ Check this box if no tank gauging or SIR equipment is installed

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Complete the following checklist:

☒ Yes	☐ No*	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
☒ Yes	☐ No*	Were all tank gauging probes visually inspected for damage and residue buildup?
☒ Yes	☐ No*	Was accuracy of system product level readings tested?
☒ Yes	☐ No*	Was accuracy of system water level readings tested?
☒ Yes	☐ No*	Were all probes reinstalled properly?
☒ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

G. Line Leak Detectors (LLD): ☒ Check this box if LLDs are not installed.

Complete the following checklist:

☐ Yes	☐ No* ☐ N/A	For equipment start-up or annual equipment certification, was a leak simulated to verify LLD performance? *(Check all that apply)* Simulated leak rate: ☐ 3 g.p.h.; ☐ 0.1 g.p.h. ; ☐ 0.2 g.p.h.
☐ Yes	☐ No*	Were all LLDs confirmed operational and accurate within regulatory requirements?
☐ Yes	☐ No*	Was the testing apparatus properly calibrated?
☐ Yes	☐ No* ☐ N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
☐ Yes	☐ No* ☐ N/A	For electronic LLDs, have all accessible wiring connections been visually inspected?
☐ Yes	☐ No*	Were all items on the equipment manufacturer's maintenance checklist completed?

*** In Section H below, describe how and when these deficiencies were or will be corrected.**

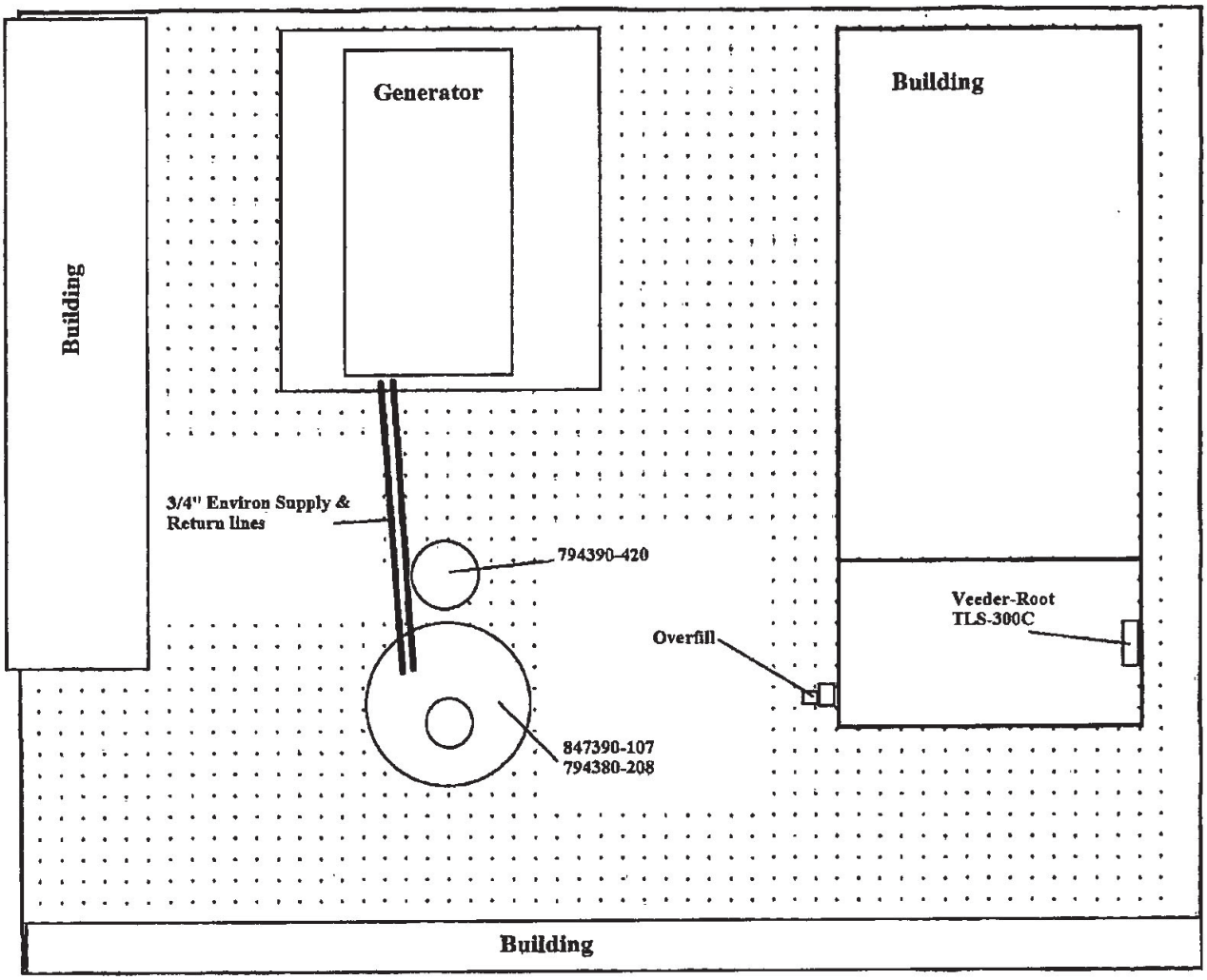
H. Comments **(500 characters max. add additional sheets if needed):**

UNDERGROUND STORAGE TANK MONITORING SYSTEM CERTIFICATION

Permit Number:

UST Monitoring Site Plan

Site Address: **5255 Mt. Etha Rd. San Diego, CA**



Date map was drawn: **01-06-2014**

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared.

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P. O. BOX 129261, SAN DIEGO, CA 92112-9261 (619) 338-2222 FAX (619) 338-2377; 1-800-253-9933
www.sdcounty.ca.gov/deh/hmd/forms_hmd.html

DEH

Spill Bucket Testing Report Form

This form is intended for use by contractors performing annual testing of UST spill containment structures. The completed form and printouts from tests (if applicable), should be provided to the facility owner/operator for submittal to the local regulatory agency.

1. FACILITY INFORMATION		
Facility Name: County of San Diego Crime Lab		UPF Permit #
Facility Address: 5255 Mt. Etha Dr. San Diego, CA		Testing Date: 01 / 06 / 2014
Facility Contact: Mike Johnson	Phone: (858) 694-3615	
Date Local Agency Was Notified of Testing : ___ / ___ / ___		
Name of Local Agency Inspector *(if present during testing):*		

2. TESTING CONTRACTOR INFORMATION
Company Name: Jauregui and Culver Inc
Technician Conducting Test: Andrew Jauregui
Credentials[1]: ☑ CSLB Contractor ☑ ICC Service Tech. ☐ SWRCB Tank Tester ☐ Other *(Specify)*
License Number(s): 708231, 8156284

3. SPILL BUCKET TESTING INFORMATION		
Test Method Used:	☑ Hydrostatic ☐ Vacuum ☐ Other	
Test Equipment Used: Measuring Tape and Water		Equipment Resolution: 0 loss

SPILL BUCKET ID	1	2	3	4
Tank #:	Diesel			
Product contained:				
Bucket Installation Type:	☐ Direct Bury ☑ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump
Bucket Diameter:	12"			
Bucket Depth:	15"			
Wait time between applying vacuum/water and start of test:	10 min			
Test Start Time (T_I):	8:10am			
Initial Reading (R_I):	7"			
Test End Time (T_F):	9:10am			
Final Reading (R_F):	7"			
Test Duration ($T_F - T_I$):	1 hour			
Change in Reading ($R_F - R_I$):	0			
Pass/Fail Threshold or Criteria:	0 loss			
Test Result:	☑ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*
Water was deemed non-hazardous and was hauled off site to be re used for future testing.

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technician's Signature: _____ **Date:** 01 / 06 / 2014

[1] State laws and regulations do not currently require testing to be performed by a qualified contractor. However, local requirements may be more stringent.

SYSTEM SETUP

JAN 6, 2014 11:18 AM

SYSTEM UNITS
U.S.
SYSTEM LANGUAGE
ENGLISH
SYSTEM DATE/TIME FORMAT
MON DD YYYY HH:MM:SS xM

COUNTY OF SAN DIEGO
CRIME LAB
5255 MT.ETNA DR.

SHIFT TIME 1 : DISABLED
SHIFT TIME 2 : DISABLED
SHIFT TIME 3 : DISABLED
SHIFT TIME 4 : DISABLED

TANK PERIODIC WARNINGS
DISABLED
TANK ANNUAL WARNINGS
DISABLED
LINE PERIODIC WARNINGS
DISABLED
LINE ANNUAL WARNINGS
DISABLED

PRINT TC VOLUMES
ENABLED

TEMP COMPENSATION
VALUE (DEG F): 60.0
STICK HEIGHT OFFSET
DISABLED

H-PROTOCOL DATA FORMAT
HEIGHT
DAYLIGHT SAVING TIME
ENABLED
START DATE
APR WEEK 1 SUN
START TIME
2:00 AM
END DATE
OCT WEEK 6 SUN
END TIME
2:00 AM

RE-DIRECT LOCAL PRINTOUT
DISABLED

SYSTEM SECURITY
CODE : 000000

COMMUNICATIONS SETUP

PORT SETTINGS:

COMM BOARD : 2 (RS-232)
BAUD RATE : 1200
PARITY : ODD
STOP BIT : 1 STOP
DATA LENGTH: 7 DATA

AUTO TRANSMIT SETTINGS:

AUTO LEAK ALARM LIMIT
DISABLED
AUTO HIGH WATER LIMIT
DISABLED
AUTO OVERFILL LIMIT
DISABLED
AUTO LOW PRODUCT
DISABLED
AUTO THEFT LIMIT
DISABLED
AUTO DELIVERY START
DISABLED
AUTO DELIVERY END
DISABLED
AUTO EXTERNAL INPUT ON
DISABLED
AUTO EXTERNAL INPUT OFF
DISABLED
AUTO SENSOR FUEL ALARM
DISABLED
AUTO SENSOR WATER ALARM
DISABLED
AUTO SENSOR OUT ALARM
DISABLED

RS-232 SECURITY
CODE : 000000

RS-232 END OF MESSAGE
DISABLED

IN-TANK SETUP

T 1:DIESEL
PRODUCT CODE : 1
THERMAL COEFF : .000450
TANK DIAMETER : 95.00
TANK PROFILE : 1 PT
FULL VOL : 4000

FLOAT SIZE: 4.0 IN. 8496

WATER WARNING : 2.5
HIGH WATER LIMIT: 3.0

MAX OR LABEL VOL: 4000
OVERFILL LIMIT : 90%
: 3600
HIGH PRODUCT : 95%
: 3800
DELIVERY LIMIT : 5%
: 200

LOW PRODUCT : 200
LEAK ALARM LIMIT: 99
SUDDEN LOSS LIMIT: 99
TANK TILT : 0.00

MANIFOLDED TANKS
T#: NONE

LEAK MIN PERIODIC: 25%
: 1000

LEAK MIN ANNUAL : 25%
: 1000

PERIODIC TEST TYPE
STANDARD

ANNUAL TEST FAIL
ALARM DISABLED

PERIODIC TEST FAIL
ALARM DISABLED

GROSS TEST FAIL
ALARM DISABLED

ANN TEST AVERAGING: OFF
PER TEST AVERAGING: OFF

TANK TEST NOTIFY: OFF

TNK TST SIPHON BREAK:OFF

DELIVERY DELAY : 1 MIN

LEAK TEST METHOD

TEST MONTHLY : ALL TANK
WEEK 1 MON
START TIME : 12:00 AM
TEST RATE :0.20 GAL/HR
DURATION : 2 HOURS

LEAK TEST REPORT FORMAT
NORMAL

LIQUID SENSOR SETUP
- - - - - - - - - - - - - -

L 1:DSL-ANN.
TRI-STATE (SINGLE FLOAT)
CATEGORY : ANNULAR SPACE

L 2:DSL-FILL PIPE
TRI-STATE (SINGLE FLOAT)
CATEGORY : PIPING SUMP

EXTERNAL INPUT SETUP
- - - - - - - - - - - - - -

NONE

OUTPUT RELAY SETUP
- - - - - - - - - - - - - -

R 2:OVERFILL ALARM
TYPE:
STANDARD
NORMALLY OPEN

IN-TANK ALARMS
ALL:OVERFILL ALARM
ALL:HIGH PRODUCT ALARM
ALL:MAX PRODUCT ALARM

ALARM HISTORY REPORT

----- SYSTEM ALARM -----
PAPER OUT
SEP 19, 2013 11:29 AM
PRINTER ERROR
SEP 19, 2013 11:29 AM
BATTERY IS OFF
JAN 1, 1996 8:00 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

---- IN-TANK ALARM -----

T 1:DIESEL

SETUP DATA WARNING
JAN 1, 1996 8:32 AM

OVERFILL ALARM
JAN 6, 2014 11:00 AM
JAN 6, 2014 10:17 AM
JAN 6, 2014 10:08 AM

HIGH PRODUCT ALARM
JAN 6, 2014 10:17 AM

INVALID FUEL LEVEL
JAN 23, 2009 10:16 AM
JAN 24, 2008 10:14 AM
JAN 25, 2007 9:16 AM

PROBE OUT
JAN 6, 2014 11:00 AM
JAN 6, 2014 10:20 AM
JAN 6, 2014 10:16 AM

HIGH WATER WARNING
JAN 21, 2010 11:45 AM
JAN 23, 2009 10:22 AM

LOW TEMP WARNING
JAN 6, 2014 11:01 AM
JAN 21, 2010 11:19 AM
JAN 21, 2010 11:09 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

----- SENSOR ALARM -----
L 1:DSL-ANN.
ANNULAR SPACE
FUEL ALARM
JAN 6, 2014 10:04 AM

FUEL ALARM
JAN 7, 2013 9:20 AM

FUEL ALARM
JAN 7, 2013 9:20 AM

* * * * * END * * * * *

ALARM HISTORY REPORT

----- SENSOR ALARM -----
L 2:DSL-FILL PIPE
PIPING SUMP
FUEL ALARM
JAN 6, 2014 10:04 AM

FUEL ALARM
JAN 7, 2013 9:21 AM

FUEL ALARM
JAN 18, 2012 8:55 AM

* * * * * END * * * * *

SOFTWARE REVISION LEVEL
VERSION 15.01
SOFTWARE# 346015-100-B
CREATED - 97.10.23.08.56

S-MODULE# 330161-001-A
SYSTEM FEATURES:
PERIODIC IN-TANK TESTS
ANNUAL IN-TANK TESTS
0.20 GAL/HR PLLD
PRECISION TEST SPECIAL

COUNTY OF SAN DIEGO
CRIME LAB
5255 MT.ETNA DR.

JAN 6, 2014 11:19 AM

SYSTEM STATUS REPORT
- - - - - - - - - - - - - -

ALL FUNCTIONS NORMAL

AMANN

RECEIVED NOV 10 2014 ENVIRONMENTAL HEALTH

County of San Diego

DEH 2002-HUFP-11426
Kasprovich
11/19/2014

DEPARTMENT OF ENVIRONMENTAL HEALTH-HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6880 FAX (858) 505-6848

UNDERGROUND STORAGE TANK SECONDARY CONTAINMENT & SPILL CONTAINMENT TESTING REPORT FORM

This form is intended for use by contractors performing initial & periodic testing of UST secondary containment systems. Use the appropriate pages of this form to report results for all components tested. The completed form, written test procedures, and printouts from tests (if applicable), must be provided to the facility owner/operator for submittal to the County of San Diego Department of Environmental Health Hazardous Materials Division UST Group.

Permit Number: **Plan Check Number:**

1. FACILITY INFORMATION

Facility Name: County Crime Lab	Date of Testing: 10/24/2014
Facility Address: 5255 Mt Etna Drive 92117	**Test Type:**
Facility Contact: Mike Johnson Phone: (858) 694-3615	☐ Initial ☐ Repair Test
Date Local Agency Was Notified of Testing: 10/6/2014	☐ 6 month ☐ Other:
Name of Local Agency Inspector *(if present during testing)*: None	☒ 36 month

2. TESTING CONTRACTOR INFORMATION

Company Name: Jenal Engineering Corporation	
Technician Conducting Test: Keegan Slatten	
Credentials: ☒ CSLB Licensed Contractor	☐ SWRCB Licensed Tank Tester
License Type: A	License Number: 602806

Manufacturer Training

Manufacturer	Component(s)	Date Training Expires
Franklin Fueling	Incon STS 1000	8/14/2015

3. SUMMARY OF TEST RESULTS

Component	Pass	Fail	Not Tested	Repairs Made	Component	Pass	Fail	Not Tested	Repairs Made
Diesel Piping Sump	☒	☐	☐	☐		☐	☐	☐	☐
Diesel Fill Bucket	☒	☐	☐	☐		☐	☐	☐	☐
Annular Space	☒	☐	☐	☐		☐	☐	☐	☐
Product Supply Line	☒	☐	☐	☐		☐	☐	☐	☐
Product Return Line	☒	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐
	☐	☐	☐	☐		☐	☐	☐	☐

If hydrostatic testing was performed, describe what was done with the water after completion of tests:

Rinse aid left on site. Will be secured when all five (5) sites are completed.

For any equipment capable of generating a print out of test results, you must attach a copy of the test report to this certification ☒ **System printout attached.**

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

To the best of my knowledge, the facts stated in this document are accurate and in full compliance with legal requirements

Technician's Signature: _____ Date: 10/24/2014

HM-9169 (02/11)

4. TANK ANNULAR TESTING

Test Method Developed By:	☒ Tank Manufacturer ☒ Industry Standard ☐ Professional Engineer ☐ Other *(Specify)*			
Test Method Used:	☐ Pressure ☒ Vacuum ☐ Hydrostatic ☐ Other *(Specify)*			
Test Equipment Used: Marsh Process Gauges P-105			Equipment Resolution: +/- .5% FS	
	Tank # 1 Diesel	**Tank #**	**Tank #**	**Tank #**
Is Tank Exempt From Testing?[1]	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Tank Capacity:	4,000			
Tank Material:	FG/Steel			
Tank Manufacturer:	Joor			
Product Stored:	Diesel			
Wait time between applying pressure/vacuum/water and starting test:	½ Hour			
Test Start Time:	8:30			
Initial Reading (R_I):	-15"hg			
Test End Time:	9:30			
Final Reading (R_F):	-15"hg			
Test Duration:	1 Hour			
Change in Reading (R_F-R_I):	0			
Pass/Fail Threshold or Criteria:	+/- 0			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Was sensor removed for testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, & recommended follow-up for failed tests)*

[1] Secondary containment systems where the continuous monitoring automatically monitors both the primary and secondary containment, such as systems that are hydrostatically monitored or under constant vacuum, are exempt from periodic containment testing. {California Code of Regulations, Title 23, Section 2637(a)(6)}

5. SECONDARY PIPE TESTING

Test Method Developed By:	☒ Piping Manufacturer	☒ Industry Standard	☐ Professional Engineer	
	☐ Other *(Specify)*			
Test Method Used:	☒ Pressure	☐ Vacuum	☐ Hydrostatic	
	☐ Other *(Specify)*			
Test Equipment Used: Marsh Process Gauges P-140			Equipment Resolution: +/- .5% FS	

	Piping Run # 1 FOS	**Piping Run # 2 FOR**	**Piping Run #**	**Piping Run #**
Piping Material:	Poly	Poly		
Piping Manufacturer:	Environ	Environ		
Piping Diameter:	¾"	¾"		
Length of Piping Run:	23'	23'		
Product Stored:	Diesel	Diesel		
Method and location of piping-run isolation:	Fernco termination @ sump & generator	Fernco termination @ sump & generator		
Wait time between applying pressure/vacuum/water and starting test:	½ Hour	½ Hour		
Test Start Time:	8:30	8:30		
Initial Reading (R_I):	5psi	5psi		
Test End Time:	9:30	9:30		
Final Reading (R_F):	5psi	5psi		
Test Duration:	1 Hour	1 Hour		
Change in Reading (R_F-R_I):	0.0	0.0		
Pass/Fail Threshold or Criteria:	+/- 0.0	+/- 0.0		
Test Result:	☒ **Pass** ☐ **Fail**	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

6. PIPING SUMP TESTING

Test Method Developed By:	☒ Sump Manufacturer	☒ Industry Standard	☐ Professional Engineer	☐ Other *(Specify)*
Test Method Used:	☐ Pressure	☐ Vacuum	☒ Hydrostatic	☐ Other *(Specify)*
Test Equipment Used: Incon STS 1000			Equipment Resolution: +/- .0001	

	Sump # 1	Sump #	Sump #	Sump #
Sump Diameter:	35"			
Sump Depth:	24"			
Sump Material:	FG			
Height from Tank Top to Top of Highest Piping Penetration:	11"			
Height from Tank Top to Lowest Electrical Penetration:	8"			
Condition of sump prior to testing:	Good			
Portion of Sump Tested[2]	Approx 50%			
Does turbine shut down when sump sensor detects liquid (both product and water)?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Turbine shutdown response time	N/A			
Is system programmed for fail-safe shutdown?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was fail-safe verified to be operational?*	☐ Yes ☐ No ☒ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Wait time between applying pressure/vacuum/water and starting test:	½ Hour			
Test Start Time:	8:20 8:35			
Initial Reading (R_I):	5.1377 5.1368			
Test End Time:	8:35 8:50			
Final Reading (R_F):	5.1369 5.1366			
Test Duration:	15 Min x 2			
Change in Reading (R_F-R_I):	-.0008 -.0002			
Pass/Fail Threshold or Criteria:	+/- .0020			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Was sensor removed for testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☒ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

[2] If the entire depth of the sump is not tested, specify how much was tested. If the answer to any of the questions indicated with an asterisk (*) is "NO" or "NA", the entire sump must be tested. (See SWRCB LG-160)

7. UNDER-DISPENSER CONTAINMENT (UDC) TESTING

Test Method Developed By:	☐ UDC Manufacturer	☐ Industry Standard	☐ Professional Engineer	
	☐ Other *(Specify)*			
Test Method Used:	☐ Pressure	☐ Vacuum	☐ Hydrostatic	
	☐ Other *(Specify)*			
Test Equipment Used:			Equipment Resolution:	

	UDC #	UDC #	UDC #	UDC #
UDC Manufacturer:				
UDC Material:				
UDC Depth:				
Height from UDC Bottom to Top of Highest Piping Penetration:				
Height from UDC Bottom to Lowest Electrical Penetration:				
Condition of UDC prior to testing:				
Portion of UDC Tested[3]				
Does turbine shut down when UDC sensor detects liquid (both product and water)?*	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Turbine shutdown response time				
Is system programmed for fail-safe shutdown?*	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was fail-safe verified to be operational?*	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Wait time between applying pressure/vacuum/water and starting test				
Test Start Time:				
Initial Reading (R_I):				
Test End Time:				
Final Reading (R_F):				
Test Duration:				
Change in Reading (R_F-R_I):				
Pass/Fail Threshold or Criteria:				
Test Result:	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Was sensor removed for testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

[3] If the entire depth of the UDC is not tested, specify how much was tested. If the answer to any of the questions indicated with an asterisk (*) is "NO" or "NA", the entire UDC must be tested. (See SWRCB LG-160)

8. FILL RISER CONTAINMENT SUMP TESTING

Facility is Not Equipped With Fill Riser Containment Sumps ☐				
Fill Riser Containment Sumps are Present, but were Not Tested ☐				
Test Method Developed By:	☐ Sump Manufacturer	☐ Industry Standard	☐ Professional Engineer	☐ Other *(Specify)*
Test Method Used:	☐ Pressure	☐ Vacuum	☐ Hydrostatic	☐ Other *(Specify)*
Test Equipment Used:			Equipment Resolution:	

	Fill Sump #	**Fill Sump #**	**Fill Sump #**	**Fill Sump #**
Sump Diameter:				
Sump Depth:				
Height from Tank Top to Top of Highest Piping Penetration:				
Height from Tank Top to Lowest Electrical Penetration:				
Condition of sump prior to testing:				
Portion of Sump Tested				
Sump Material:				
Wait time between applying pressure/vacuum/water and starting test:				
Test Start Time:				
Initial Reading (R_I):				
Test End Time:				
Final Reading (R_F):				
Test Duration:				
Change in Reading (R_F-R_I):				
Pass/Fail Threshold or Criteria:				
Test Result:	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**
Is there a sensor in the sump?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Does the sensor alarm when either product or water is detected?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor removed for testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA
Was sensor properly replaced and verified functional after testing?	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA	☐ Yes ☐ No ☐ NA

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

9. SPILL/OVERFILL CONTAINMENT BOXES

Facility is Not Equipped With Spill/Overfill Containment Boxes ☐			
Spill/Overfill Containment Boxes are Present, but were Not Tested ☐			
Test Method Developed By:	☒ Spill Bucket Manufacturer	☒ Industry Standard	☐ Professional Engineer
	☐ Other *(Specify)*		
Test Method Used:	☐ Pressure	☐ Vacuum	☒ Hydrostatic
	☐ Other *(Specify)*		
Test Equipment Used: Incon STS 1000		Equipment Resolution: +/- .0001	

	Spill Box # 1 Diesel	**Spill Box #**	**Spill Box #**	**Spill Box #**
Bucket Diameter:	**12"**			
Bucket Depth:	**15"**			
Wait time between applying pressure/vacuum/water and starting test:	**½ Hour**			
Test Start Time:	8:20 8:35			
Initial Reading (R_I):	2.7267 2.7254			
Test End Time:	8:35 8:50			
Final Reading (R_F):	2.7257 2.7249			
Test Duration:	**15 Min x 2**			
Change in Reading (R_F-R_I):	-.0010 -.0005			
Pass/Fail Threshold or Criteria:	**+/- .0020**			
Test Result:	☒ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**	☐ **Pass** ☐ **Fail**

Comments – *(include information on repairs made prior to testing, and recommended follow-up for failed tests)*

Send Completed Form to:
County of San Diego,
Department of Environmental Health,
Hazardous Materials Division
UST Group
P.O. Box 129261
San Diego CA 92112-9261

COUNTY CRIME LAB

10/24/2014 8:35 AM

SUMP LEAK TEST REPORT

DIE PS

TEST STARTED	8:20 AM
TEST STARTED	10/24/2014
BEGIN LEVEL	5.1377 IN
END TIME	8:35 AM
END DATE	10/24/2014
END LEVEL	5.1369 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

DIE FB

TEST STARTED	8:20 AM
TEST STARTED	10/24/2014
BEGIN LEVEL	2.7267 IN
END TIME	8:35 AM
END DATE	10/24/2014
END LEVEL	2.7257 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

COUNTY CRIME LAB

10/24/2014 8:51 AM

SUMP LEAK TEST REPORT

DIE PS

TEST STARTED	8:35 AM
TEST STARTED	10/24/2014
BEGIN LEVEL	5.1368 IN
END TIME	8:50 AM
END DATE	10/24/2014
END LEVEL	5.1366 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

DIE FB

TEST STARTED	8:35 AM
TEST STARTED	10/24/2014
BEGIN LEVEL	2.7254 IN
END TIME	8:50 AM
END DATE	10/24/2014
END LEVEL	2.7249 IN
LEAK THRESHOLD	0.002 IN
TEST RESULT	PASSED

State of California
State Water Resources Control Board
Division of Financial Assistance
P.O. Box 944212
Sacramento, CA 94244-2121
(Instructions on reverse side)

For State Use Only

CERTIFICATION OF FINANCIAL RESPONSIBILITY

FOR UNDERGROUND STORAGE TANKS CONTAINING PETROLEUM

A. I am required to demonstrate Financial Responsibility in the required amounts as specified in California Code of Regulations (CCR), Title 23, Division 3, Chapter 18, Section 2807,

[X] 500,000 dollars per occurrence or [ ] 1 million dollars per occurrence AND [X] 1 million dollars annual aggregate or [ ] 2 million dollars annual aggregate

B. County of San Diego *hereby certifies that it is in compliance with the requirements of Section 2807,*
(Name of Tank Owner or Operator)
California Code of Regulations, Title 23, Division 3, Chapter 18, Article 3, Section 2807.
The mechanisms used to demonstrate financial responsibility as required by Section 2807 are as follows:

C. Mechanism Type	Name and Address of Issuer	Mechanism Number	Coverage Amount	Coverage Period	Corrective Action	Third Party Comp
Government guarantee	1600 Pacific Hwy San Diego, CA 92101	N/A for this Mechanism	$500K per occurance $1Mil annual aggregate	Annual	Yes	Yes
Chief Financial Officer Letter	1600 Pacific Hwy San Diego, CA 92101	N/A for this mechanism	$500K per occurance $1Mil annual aggregate	Annual	Yes	Yes

Note:

Note: If you are using the State Fund as any part of your demonstration of financial responsibility, your execution and submission of this certification also certifies that you are in compliance and shall maintain compliance with all conditions for participation in the Fund. See instructions.

D. Facility Name	Facility Address
See attachments	See attachments
Facility Name	Facility Address
Facility Name	Facility Address

E. Signature of Tank Owner or Operator	Date	Name and Title of Tank Owner or Operator
[signature]	11/12/09	April Heinze Director DepT of Gen. Serv.
Signture of Witness or Notary	Date	Name of Witness or Notary
[signature]	11/12/09	Vicki Rajsky

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377; 1-800-253-9933
www.sdcounty.ca.gov/deh/hmd

GARY W. ERBECK
DIRECTOR

JACK MILLER
ASSISTANT DIRECTOR

Medical Waste Management Plan

The San Diego County Department of Environmental Health, Hazardous Materials Division is the local agency designated by the California Department of Public Health to implement the Medical Waste Management Act. This law governs the generation, handling, storage, transportation, treatment and disposal of medical waste to protect the public and the environment from potential infectious exposure to disease causing agents.

The Medical Waste Management Plan is a document that describes the types and amount of medical waste generated at a specific location, and indicates how wastes are managed to ensure proper treatment and disposal. All Large Quantity Generators (LQGs generate **≥200 lbs.** of medical waste per month) and those Small Quantity Generators (SQGs generate **<200 lbs.** of medical waste per month) that treat their medical waste onsite are required to complete a Medical Waste Management Plan on the forms prepared by the enforcement agency. [Authority cited California Health and Safety Code §117600 et seq.]

Small Quantity Generators of medical waste that do not treat their medical waste onsite are not required to complete and submit this form to the local enforcement agency. They are, however, responsible for maintaining on file at their office a document stating how they contain, store, treat, and dispose of any medical waste generated. Completing a Medical Waste Management Plan and keeping at their office can satisfy this requirement.

Attached is a "blank" Medical Waste Management Plan form for your use. Please complete and sign the form and mail the original to the address listed above. Retain a copy for your records. If there are changes in any of the information on your Medical Waste Management Plan, submit a revised form to the address listed above within 30 days of changes. Annual submittal of the Medical Waste Management Plan is not required.

If you have any questions, please contact your area inspector or the Hazardous Materials Division Duty Desk at (619) 338-2231.

Attachment

MEDICAL WASTE – DEFINITION OF TERMS

MEDICAL WASTE means biohazardous waste or sharps waste that has been generated during the diagnosis, treatment or immunization of human beings or animals, in research pertaining thereto, in the production or testing of biologicals, or which may contain infectious agents, those organisms classified as Biosafety Level II, III, or IV by the federal Centers for Disease Control and Prevention and may pose a substantial threat to health. Medical waste includes trauma scene waste. Medical waste does not include hazardous waste, radioactive waste, medical solid waste or household waste.

BIOHAZARDOUS WASTE means any of the following:

(a) Laboratory waste, including, but not limited to, all of the following:

(1) Human or animal specimen cultures from medical and pathology laboratories.

(2) Cultures and stocks of infectious agents from research and industrial laboratories.

(3) Wastes from the production of bacteria, viruses, spores, discarded live and attenuated vaccines used in human health care or research, discarded animal vaccines, including Brucellosis and Contagious Ecthyma, as identified by the department, and culture dishes and de-vices used to transfer, inoculate, and mix cultures.

(b) Human surgery specimens or tissues removed at surgery or autopsy, which are suspected by the attending physician and surgeon or dentist of being contaminated with infectious agents known to be contagious to humans.

(c) Animal parts, tissues, fluids, or carcasses suspected by the attending veterinarian of being contaminated with infectious agents known to be contagious to humans.

(d) Waste, which at the point of transport from the generator's site, at the point of disposal, or thereafter, contains recognizable fluid blood, fluid blood products, containers or equipment containing blood that is fluid, or blood from animals known to be infected with diseases which are highly communicable to humans.

(e) Waste containing discarded materials contaminated with excretion, exudate, or secretions from humans or animals that are required to be isolated by the infection control staff, the attending physician and surgeon, the attending veterinarian, or the local health officer, to protect others from highly communicable diseases or diseases of animals that are highly communicable to humans.

(f) (1) Waste which is hazardous only because it is comprised of human surgery specimens or tissues which have been fixed in formaldehyde or other fixatives, or only because the waste is contaminated through contact with, or having previously contained, chemotherapeutic agents, including, but not limited to, gloves, disposable gowns, towels, and intravenous solution bags and attached tubing which are empty. A biohazardous waste which meets the conditions of this paragraph is not subject to Chapter 6.5 (commencing with Section 25100) of Division 20.

(2) For purposes of this subdivision, "chemotherapeutic agent" means an agent that kills or prevents the reproduction of malignant cells.

(3) For purposes of this subdivision, a container, or inner liner removed from a container, which previously contained a chemotherapeutic agent, is empty if the container or inner liner removed from the container has been emptied by the generator as much as possible, using methods commonly employed to remove waste or material from containers or liners, so that the following conditions are met:

(A) If the material which the container or inner liner held is pourable, no material can be poured or drained from the container or inner liner when held in any orientation, including, but not limited to, when tilted or inverted.

(B) If the material which the container or inner liner held is not pourable, no material or waste remains in the container or inner liner that can feasibly be removed by scraping.

(g) Waste that is hazardous only because it is comprised of pharmaceuticals, as defined in Section 117747. Notwithstanding subdivision (a) of Section 117690, medical waste includes biohazardous waste that meets the conditions of this subdivision. Biohazardous waste that meets the conditions of this subdivision is not subject to Chapter 6.5 (commencing with Section 25100) of Division 20.

SHARPS CONTAINERS are leakproof, rigid, puncture-resistant containers which when sealed cannot be reopened without great difficulty. These containers must be labeled with the words "Sharps Waste" or with the international Biohazard symbol and the word "BIOHAZARD." These containers must be labeled with the Generator's name, address, and phone number in a conspicuous location on the container when first used. Needles and syringes shall not be clipped prior to disposal. All sharps containers must be managed as MEDICAL WASTE.

"BIOHAZARD BAG" means a disposable red bag which is impervious to moisture and has strength sufficient to preclude ripping, tearing, or bursting under normal conditions of usage and handling of a waste-filled bag. A Biohazard bag shall be constructed of material of sufficient single thickness strength to pass the 165-gram dropped dart impact resistance test as prescribed by Standard D 1709-91 of the American Society for Testing and Materials and certified by the bag manufacturer. The bags shall be securely tied so as to prevent leakage or expulsion of solid or liquid wastes during future storage, handling, or transport. The bags shall be **RED** in color and conspicuously labeled with the international biohazard symbol and the "Biohazard." The bags shall be labeled with the Generator's name, address, and phone number in a conspicuous location on the bag when first used. If the waste is to be autoclaved, the outer bag may be colorless as long as the inner bag is red and both bags meet the stated strength criteria. All waste in red biohazard bags must be managed as MEDICAL WASTE.

STORAGE AREA WARNING SIGN is: A sign posted at a designated accumulation area used to store medical waste which must read in English, "CAUTION—BIOHAZARDOUS WASTE STORAGE AREA—UNAUTHORIZED PERSONS KEEP OUT" and in Spanish, "CUIDADO-ZONA DE RESIDUOS—BIOLOGICOS PELIGROSOS—PROHIBIDA LA ENTRADA A PERSONAS NO AUTORIZADAS" or in another language determined to be appropriate.

Intermediate storage areas shall be marked with the international biohazardous symbol or the signage noted above. These warning signs shall be readily legible from a distance of five feet.

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
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www.sdcounty.ca.gov/deh/hmd

Medical Waste Management Plan

Facility Information

Business Name: SAN DIEGO SHERIFF'S CRIME LAB

Unified Program Facility Permit #: 114261

Type of Business: FORENSIC LAB

Date: 02/23/09

Address: 5255 MOUNTETNA DRIVE (Street No. / Street Name) SAN DIEGO (City) CA (State) 92117-6912 (Zip Code)

Person Responsible for implementing the Medical Waste Management Plan

Name: DON TAPPER

Title: ASST. DIRECTOR OF FORENSIC SERVICES **Phone:** (858) 467-4607 X ____

Types of wastes generated

☒ **Sharps** – needles, broken glass, blades.
Estimated monthly amount 50 **lbs**

☒ **Blood or body fluids** - liquid blood elements or other regulated body fluids, or articles contaminated with blood or body fluids.
Estimated monthly amount 250 **lbs**

☐ **Laboratory wastes** - specimens or microbiological cultures, stocks of infectious agents, live and attenuated vaccines, and culture media.
Estimated monthly amount ____ **lbs**

☐ **Isolation waste** – waste contaminated with excretion, exudates, or secretions from humans or animals who are isolated due to highly communicable diseases.
Estimated monthly amount ____ **lbs**

☐ **Waste contaminated with fixatives or chemotherapeutic agents.**
Estimated monthly amount ____ **lbs**

☐ **Surgical specimens** – human or animal parts or tissues removed surgically or by autopsy.
Estimated monthly amount ____ **lbs**

☐ **Pathology waste** – recognizable human anatomical parts.
Estimated monthly amount ____ **lbs**

☐ **Contaminated animals** – animal carcasses, body parts, bedding materials.
Estimated monthly amount ____ **lbs**

☐ **Other (please specify):** ____
Estimated monthly amount ____ **lbs**

☐ **Home Generated Sharps**
Estimated monthly amount ____ **lbs**

Estimate of TOTAL monthly medical waste generated: 300 **lbs**

Method of treatment performed onsite (if applicable):

☐ **Steam Autoclaving** ☐ **Other state approved alternative technology** (please specify below):

Medical Waste Management Plan

Registered Medical Waste Hauler used to remove untreated medical waste (if applicable):

Name: WASTE MANAGEMENT HEALTHCARE SOLUTIONS, INC.

Address: 1996 Don Lee Place, Suite C

City: Escondido **State** CA **ZIP Code** 92029

Phone #: (760) 489-5009 X ____

Contact Person: Bliss

Offsite treatment facility to which medical waste is transported (if applicable):

Facility Name: _____

Address: _____

City: _____ **State** _____ **ZIP Code** _____

Phone #: (____) _____ X ____

Contact Person: _____ **Phone #:** (____) _____ X ____

I hereby certify to the best of my knowledge and believe the statements made herein are correct and accurate.

Name: DON TAPPER
Type or Print

Title: ASST. DIRECTOR OF FORENSIC SERVICES

Signature: Donald M. Tapper **Date:** 02/23/09

Emergency Action Plan:
Note: This requirement only applies to Large Quantity Generators of Medical Waste (≥200 lbs/month)

Plan to be followed to ensure the proper disposal of medical waste in the event of a natural disaster, treatment system breaks down, power failure, spill, etc. (use additional sheets if necessary):

IF SAFE TO DO SO, TRAINED LAB PERSONNEL WILL CONTAIN/LOCALIZE SPILL(S) USING PROPER ON-SITE SAFETY EQUIPMENT. HAZMAT WILL BE CONTACTED TO REMOVE SPILL(S) AS NECESSARY. CLEAN-UP CONTRACTOR WILL BE CONTACTED TO REMOVE WASTE A NECESSARY.

SAN DIEGO COUNTY HOURS & LOCATIONS

KEARNY MESA 536/106
5575 Ruffin Road, Suite 100
San Diego, CA 92123
(858) 277-2744 - Clinic
(858) 277-2744 ext 36 - Therapy
Clinic Fax: (858) 277-3085
Therapy Fax: (858) 277-2097
Clinic Hours: 24 HOURS/7 Days a Week
Therapy Hours: Mon -Fri 7am - 6pm
Saturday - By Appointment
Center Manager: Frank Long
Medical Director: Russell Simbari
Lead Physical Therapist: Amy Papa

VISTA 545/104
2023 West Vista Way, Suite C
Vista, CA 92083
(760) 941-2000 - Clinic
(760) 941-2000 - Therapy
Clinic Fax: (760) 941-4900
Therapy Fax: (760) 941-4611
Clinic Hours: Mon -Fri 8am - 5pm
Therapy Hours: Mon & Wed 7am - 6pm,
Tue, Thur 7 am. - 2 pm. Fri 7am - 12 noon
Center Manager: Cathi Wasson

Medical Director: Bruno Seemann
Lead Physical Therapist: Kenneth Dewart

HILLCREST 535/097
3930 Fourth Avenue, Suite 200
San Diego, CA 92103
(619) 297-9610 - Clinic
(619) 297-9610 ext. 20 - Therapy
Clinic Fax: (619) 297-2244
Therapy Fax: (619) 297-2244
Clinic Hours: Mon -Fri 7am - 7pm
Therapy Hours: Mon -Fri 8am - 5:30pm
Center Manager: Denise Fasce

Medical Director: William Paul
Lead Physical Therapist: Deborah Redden

NATIONAL CITY 541/100
102 Mile of Cars Way
National City, CA 91950
(619) 474-9211 - Clinic
(619) 474-9211 - Therapy
Clinic Fax: (619) 474-2000
Therapy Fax: (619) 474-0718
Clinic Hours: Mon -Fri 7am - 7pm
Therapy Hours: Mon -Fri 7am - 5:30pm
Center Manager: Aldo Mendoza
Medical Director: Rodolfo Ruiz-Velasco
Lead Physical Therapist: Datha Rothstein

SORRENTO MESA 543/103
5897 Oberlin Drive, Suite 100
San Diego, CA 92121
(858) 455-0200 - Clinic
(858) 455-0200 - Therapy
Clinic Fax: (858) 455-0018
Therapy Fax: (858) 455-0044
Clinic Hours: Mon -Fri 8am - 5pm
Therapy Hours: Mon -Fri 8am - 5pm
Center Manager: Elizabeth Ramirez
Medical Director: Henry Poon
Lead Physical Therapist: Myla DeLaCruz

ESCONDIDO 534/096
362 West Mission Avenue, Suite 104
Escondido, CA 92025
(760) 747-2330 - Clinic
(760) 747-2031 - Therapy
Clinic Fax: (760) 747-3136
Therapy Fax: (760) 747-2875
Clinic Hours: Mon -Fri 8am - 5pm
Therapy Hours: Mon -Fri 9am - 6pm
Center Manager: Romelle Butts

Medical Director: Jason Kouri
Lead Physical Therapist: David Liu

LA MESA 537/105
8090 Parkway Drive
La Mesa, CA 91942
(619) 697-3093 - Clinic
(619) 697-0018 - Therapy
Clinic Fax: (619) 697-3135
Therapy Fax: (619) 697-0051
Clinic Hours: Mon -Fri 8am - 7pm
Therapy Hours: Mon, Wed, Fri 7:30am-4pm,
Tue 7:30am-130pm, Thu 8am-2pm
Center Manager: Ray Acevedo

Medical Director: Charles Grody
Lead Physical Therapist: Deborah Newton

CHULA VISTA 533/095
1111 Broadway, Suite 305
Chula Vista, CA 91911
(619) 425-8212 - Clinic
(619) 425-8172 - Therapy
Clinic Fax: (619) 425-1604
Therapy Fax: (619) 425-8337
Clinic Hours: Mon -Fri 8am - 6pm, Sat 10am - 3pm
Therapy Hours: Mon -Fri 8am - 5pm
Center Manager: Florence McMoore
Medical Director: Robert Cabico
Lead Physical Therapist: Patricia Campa

MIRAMAR 538/098
7590 Miramar Road, Suite C
San Diego, CA 92126
(858) 549-4255 - Clinic
(858) 549-4498 - Therapy
Clinic Fax: (858) 549-4552
Therapy Fax: (858) 536-9461
Clinic Hours: Mon -Fri 8am - 5pm
TherapyHours: Mon -Fri 8am - 5pm
Center Manager: Migdalia Rubio
Medical Director: Stephen Leibham
Lead Physical Therapist: Sholeh Dadkah

CARLSBAD 532/101
5814 Van Allen Way, Suite 210
Carlsbad, CA 92008
(760) 438-4466 - Clinic
(760) 438-4466 - Therapy
Clinic Fax: (760) 431-7218
Therapy Fax: (760) 431-7218
Clinic Hours: Mon -Fri 8am - 6pm
Therapy Hours: Mon -Fri 7am - 5:30pm
Center Manager: Dina Baez-Heggie

Medical Director: Robert Charlap
Lead Physical Therapist: Lynn Ciallela

SANTEE 542/102
9745 Prospect Avenue, Suite 100
Santee, CA 92071
(619) 448-4841 - Clinic
(619) 449-8946 - Therapy
ClinicFax: (619) 448-8700
Therapy Fax: (619) 449-5127
Clinic Hours: Mon -Fri 7am - 6pm
Therapy Hours: Mon-Thu 8am - 7pm
Fri 8 am - 6:pm
Center Manager: Alice Wilson

Medical Director: Bruce Hoang
Lead Physical Therapist: Elaheh Mozaffarian

CENTER FOR SPECIALTY CARE (by app't only)
MISSION VALLEY 539/099
9040 Friars Road, Suite 400
San Diego, CA 92108
(619) 297-7745 - Clinic
(619) 283-9610 - Therapy
Clinic Fax: (619) 283-9664
Therapy Fax: (619) 283-9692
Clinic Hours: Mon -Fri 8am - 5pm
Therapy Hours: Mon -Fri 7:30am - 6pm
Center Manager: Laura Miller
(619) 283-9606 - Direct Line
Medical Director: Leonard Okun
Lead Physical Therapist: Laura Miller

REGIONAL MANAGEMENT

Regional Therapy Director: Laura Miller
Phone: (619) 283-9606
Fax: (619) 283-9692

Vice President-Operations: Kathleen Marchetti
Phone: (858) 492-5443
Fax: (858) 277-1924

Medical Director: Leonard Okun, M.D.
Phone: (858) 565-1300
Fax: (858) 565-6932

U.S. HEALTHWORKS/CoSD DEPARTMENT OF HUMAN RESOURCES RISK MANAGEMENT DIVISION CONTACTS

Nurse Case Manager: Heather Inch
Phone: (619) 260-1370
Fax: (619) 297-2244
Email: heather.inch@ushworks.com

On Site Liaison: Christina Atwell
Phone: (619) 578-5739 (Workers' Compensation)
(619) 232-1901 (Medical Standards)
Fax: (619)232-1952 (Medical Standards)
Email: christina.atwell@ushworks.com

Billing/Business Office Representative: Doris Jones
Phone: (858) 492-5422
Fax: (858) 277-0543
E-mail: doris.jones@ushworks.com

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

PAGE 1 OF 2	DATE 1/6/2015
RECORD ID #	DEH2002-HUPFP-114261
TIME START 0800	END 1500
SPECIALIST	Kasprovich
INSPECTION CONTACT	Lauren Sautkulis
TITLE	Criminalist
PHONE	(858) 467-4605

FACILITY NAME SD County Sheriff Crime Lab

ADDRESS 5255 Mt. Etna Drive

CITY/ZIP San Diego, CA / 92117

On the above date, the County inspected your facility under the authority of the California Health and Safety Code (H&SC), to determine compliance with applicable provisions of the H&SC, the California Code of Regulations (CCR), and the San Diego County Code of Regulatory Ordinances (SDCC). **This report serves as a Notice to Comply (H&SC 25187.8 & 25404.1.2) for any minor violations as defined in H&SC 25404 and 25117.6.** This report may contain both minor and more significant (Class II) violations. Minor violations do not include repeat violations or violations remaining uncorrected for more than 30 days (or as specified below). Minor violations do not include knowing, willful, intentional, or chronic violations; nor do they include violations showing a pattern of neglect or disregard. The remarks below are intended to provide guidance to correct any violations indicated on the attached violation report. You must submit a written response to this report within 30 days (or as specified below) demonstrating that all violations have been corrected or include a written notice of disagreement that clearly states the reason for any disputed violations. Prompt correction can protect you from penalties for a "minor violation". Penalties can be imposed for each day in violation for all other violations even if they are corrected promptly. However, correction within 30 days (or as specified below) will make a penalty less likely.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Y*	N/A*		Y*	N/A*	
☒	☐	Unified Program Facility Permit current	☐	☐	Permit Expires on: 3/31/2015
☒	☐	Hazardous Materials Business Plan available	☒	☐	Contingency Plan available ☐LQG ☒SQG
☒	☐	Employee Training is adequate	☒	☐	Employee Training records available
☒	☐	Waste disposal records available for review	☐	☒	Universal waste managed properly
☒	☐	Emergency contacts current ☐Updated today	☒	☐	Waste containers ☒ closed ☒ labeled
☒	☐	Chemical inventory/map current ☐ Updated today	☒	☐	Waste containers in good condition

Consent to inspect granted by: ☒ **Inspection Contact** ☐ **Other:** ____

ROUTINE INSPECTION

The annual monitoring system certification for the 4,000 gallon diesel underground storage tank (UST) was conducted today with Melvin Zamora, DUSTO, and ICC Certified Service Technician John Culver, from Jauregui and Culver Testing. The Sheriff Crime Lab was also inspected today with Lauren Sautkulis, Criminalist II. Consent for both inspections was granted.

REMARKS:

THE FOLLOWING AREAS WERE INCLUDED IN TODAY'S INSPECTION: 4,000 GALLON DIESEL UST, MAINTENANCE SHOP, FORENSIC LABS, CHEMICAL WASTE STORAGE ROOM, FIREARMS ANALYSIS UNIT, CRIME SCENE INVESTIGATIONS, AND CHEMICAL STORAGE ROOM.

A) All components of the UST system were tested and passed. The monitoring plan, response plan, plot plan, CFO/CFR letter, facility page, tank page, monthly DUSTO reports, DUSTO employee training, and DUSTO letter of designation were reviewed.

B) SB 989 testing was conducted on 10/24/2014 and is due by 10/24/2017.

The Hazardous Materials Business Plan (inventory & site map, emergency contacts, emergency response plan, and employee training plan) is required by law to be certified online through the California Environmental Reporting System (CERS). For additional information about hazardous materials business plans and CERS, go to: http://www.sdcounty.ca.gov/deh/hazmat/hmd-cers-info.html

PRINTED NAME OF FACILITY REPRESENTATIVE: LAUREN SAUTKULIS

DATE SIGNED: 01 / 06 / 2015

SIGNATURE OF FACILITY REPRESENTATIVE: x Lauren Sautkulis

TITLE OF FACILITY REPRESENTATIVE: Assitent Safety Manager

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

PERMIT # DEH2002-HUPFP-114261
DATE 1/6/2015

FACILITY ADDRESS: 5255 Mt. Etna Drive ZIP CODE: 92117

C) This site is a large quantity generator of medical waste.

D) Three (3) years worth of hazardous waste shipping documents were reviewed during the inspection. Three (3) years worth of medical waste shipping documents were reviewed during the inspection.

E) Remember to re certify your Hazardous Material Business Plan (HMBP) annually even if there have been no changes.

SIGNATURE OF FACILITY REPRESENTATIVE	DATE SIGNED	TITLE OF FACILITY REPRESENTATIVE
Karen Sautka	01 / 06 / 2015	Assistant Safety Manager

Permit #: 114261 **Date: 2/23/2009**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: San Diego Sheriff's Crime Laboratory

Business Address: 5255 Mount Etna Drive, San Diego, CA 92117-6912

Business Owner or Operator: San Diego Sheriff's Department

Please complete the following by entering the chemical name in the chemical name column and then place a check ✓ in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check ✓ in the <1-gallon column.
(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Acetaldehyde	☒	☐	☐	☐	☐	☐	☐
Alprazolam	☐	☒	☐	☐	☐	☐	☐
Anabolic steroids	☐	☒	☐	☐	☐	☐	☐
Aniline	☒	☐	☐	☐	☐	☐	☐
Barbiturates	☐	☒	☐	☐	☐	☐	☐
Benzene	☒	☐	☐	☐	☐	☐	☐
Benzidine-based dyes	☐	☒	☐	☐	☐	☐	☐
Benzodiazepines	☐	☒	☐	☐	☐	☐	☐
Benphetamine	☐	☒	☐	☐	☐	☐	☐
Bromoform	☒	☐	☐	☐	☐	☐	☐
Carbamazepine	☐	☒	☐	☐	☐	☐	☐
Carbon disulphide	☐	☐	☒	☐	☐	☐	☐
Carbon tetrachloride	☒	☐	☐	☐	☐	☐	☐
Chlordiazepoxide HCl	☐	☒	☐	☐	☐	☐	☐
Chloroform	☐	☐	☒	☐	☐	☐	☐
Cocaine	☐	☒	☐	☐	☐	☐	☐
Cyclohexane	☒	☐	☐	☐	☐	☐	☐
Diazepam	☐	☒	☐	☐	☐	☐	☐
1,2-Dichloroethane	☐	☐	☐	☒	☐	☐	☐
Dichloromethane	☐	☐	☒	☐	☐	☐	☐
3,3'-Dimethoxybenzidine	☐	☒	☐	☐	☐	☐	☐

Permit #: 114261 **Date: 2/23/2009**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
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Please complete the following by entering the chemical name in the chemical name column and then place a check ✓ in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check ✓ in the <1-gallon column.
(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Diphenylhydantoin	☐	☒	☐	☐	☐	☐	☐
Formaldehyde	☐	☐	☒	☐	☐	☐	☐
Halazepam	☐	☒	☐	☐	☐	☐	☐
Lead	☐	☐	☐	☒	☐	☐	☐
Lead compounds	☐	☒	☐	☐	☐	☐	☐
Lorazepam	☐	☒	☐	☐	☐	☐	☐
Mercury and mercury compounds	☐	☐	☐	☒	☐	☐	☐
Methyltestosterone	☐	☒	☐	☐	☐	☐	☐
Nicotine	☐	☒	☐	☐	☐	☐	☐
Oxazepam	☐	☒	☐	☐	☐	☐	☐
Oxymetholone	☐	☒	☐	☐	☐	☐	☐
Pentobarbital sodium	☐	☒	☐	☐	☐	☐	☐
Phenacetin	☐	☒	☐	☐	☐	☐	☐
Phenobarbital	☐	☒	☐	☐	☐	☐	☐
Phenolphthalein	☒	☐	☐	☐	☐	☐	☐
Phenolphthalein	☐	☒	☐	☐	☐	☐	☐
Primidone	☐	☒	☐	☐	☐	☐	☐
Pyridine	☒	☐	☐	☐	☐	☐	☐
Secobarbital	☐	☒	☐	☐	☐	☐	☐
Stanozolol	☐	☒	☐	☐	☐	☐	☐
Temazepam	☐	☒	☐	☐	☐	☐	☐

Permit #: 114261 **Date: 2/23/2009**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: San Diego Sheriff's Crime Laboratory

Business Address: 5255 Mount Etna Drive, San Diego, CA 92117-6912

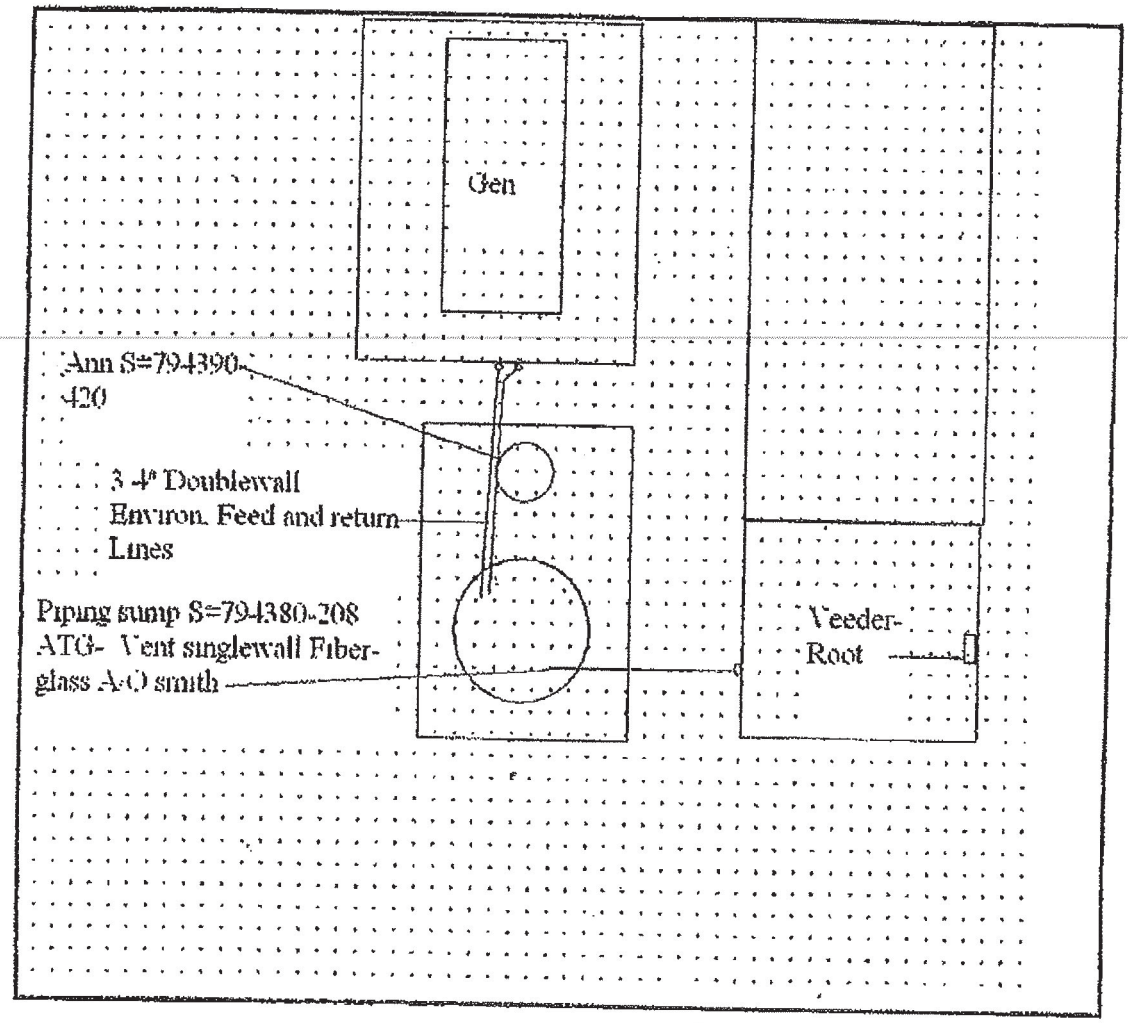
Business Owner or Operator: San Diego Sheriff's Department

Please complete the following by entering the chemical name in the chemical name column and then place a check ✓ in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check ✓ in the <1-gallon column.
(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Testosterone and its esters	☐	☒	☐	☐	☐	☐	☐
Testosterone enanthate	☐	☒	☐	☐	☐	☐	☐
Toluene	☐	☐	☒	☐	☐	☐	☐
Trichloroethylene	☒	☐	☐	☐	☐	☐	☐
==========	☐	☐	☐	☐	☐	☐	☐
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	☐	☐	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐	☐	☐

UST Monitoring Site Plan

Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/14/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared

State of California
State Water Resources Control Board
Division of Financial Assistance
P.O. Box 944212
Sacramento, CA 94244-2121
(Instructions on reverse side)

For State Use Only

CERTIFICATION OF FINANCIAL RESPONSIBILITY

FOR UNDERGROUND STORAGE TANKS CONTAINING PETROLEUM

A. I am required to demonstrate Financial Responsibility in the required amounts as specified in California Code of Regulations (CCR), Title 23, Division 3, Chapter 18, Section 2807,

[X] 500,000 dollars per occurrence or [ ] 1 million dollars per occurrence AND [X] 1 million dollars annual aggregate or [ ] 2 million dollars annual aggregate

B. County of San Diego *hereby certifies that it is in compliance with the requirements of Section 2807,*
(Name of Tank Owner or Operator)
California Code of Regulations, Title 23, Division 3, Chapter 18, Article 3, Section 2807.
The mechanisms used to demonstrate financial responsibility as required by Section 2807 are as follows:

C. Mechanism Type	Name and Address of Issuer	Mechanism Number	Coverage Amount	Coverage Period	Corrective Action	Third Party Comp
Government guarantee	1600 Pacific Hwy San Diego, CA 92101	N/A for this Mechanism	$500K per occurance $1Mil annual aggregate	Annual	Yes	Yes
Chief Financial Officer Letter	1600 Pacific Hwy San Diego, CA 92101	N/A for this mechanism	$500K per occurance $1Mil annual aggregate	Annual	Yes	Yes

Note:

Note: If you are using the State Fund as any part of your demonstration of financial responsibility, your execution and submission of this certification also certifies that you are in compliance and shall maintain compliance with all conditions for participation in the Fund. See instructions.

D. Facility Name	Facility Address
See attachments	See attachments
Facility Name	Facility Address
Facility Name	Facility Address

E. Signature of Tank Owner or Operator	Date	Name and Title of Tank Owner or Operator
[signature]	11/12/09	April Heinze Director DepT of Gen. Serv.
Signture of Witness or Notary	Date	Name of Witness or Notary
[signature]	11/12/09	Vicki Rajsky

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 1

(One form per facility)

TYPE OF ACTION ☒ 1. NEW PLAN ☐ 2. CHANGE OF INFORMATION R01

I. FACILITY INFORMATION

FACILITY ID # *(Agency Use Only)* 3 7 — 0 0 0 — 1 1 4 2 6 1 1

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) R02

County of San Diego Sheriff Crime Lab

BUSINESS SITE ADDRESS R03	CITY R04		ZIP CODE R05
5255 Mt. Etna Drive	San Diego	CA	92117-

II. SPILL CONTROL AND CLEANUP METHODS

This plan addresses unauthorized releases from UST systems and supplements the emergency response plans and procedures in the facility's Hazardous Materials Business Plan.

- If safe to do so, facility personnel will take immediate measures to control or stop any release (e.g., activate pump shut-off, etc.) and, if necessary, safely remove remaining hazardous material from the UST system.
- Any release to secondary containment will be pumped or otherwise removed within 24 hours of discovery. Recovered hazardous materials, unless suitable for their intended use, will be managed as hazardous waste.
- Absorbent material will be used to contain and clean up manageable spills of hazardous materials. Absorbent material which has become too saturated to be effective or which is no longer intended for use will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. Used absorbent material, reusable or waste, will be stored in a properly labeled and sealed container. Waste material shall be disposed appropriately.
- Facility personnel will determine whether any water removed from secondary containment systems, or from clean-up activity, has been in contact with any hazardous material. If the water is contaminated, it will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. If the water has a petroleum sheen (i.e., rainbow colors), it is contaminated. A thick floating petroleum layer may not necessarily display rainbow colors. Water (hazardous or non-hazardous) from sumps, spill containers, etc. will not be disposed to storm water systems.
- We will review secondary containment systems for possible deterioration if any of the following conditions occur:
  1. Hazardous material in contact with secondary containment is not compatible with the material used for secondary containment;
  2. Secondary containment is prone to damage from any equipment used to remove or clean up hazardous material collected in secondary containment;
  3. Hazardous material, other than the product/waste stored in the primary containment system, is placed inside secondary containment to treat or neutralize released product/waste, and the added material or resulting material from such a combination is not compatible with secondary containment.

III. SPILL CONTROL AND CLEAN-UP EQUIPMENT

PERIODIC MAINTENANCE: Spill control and clean-up equipment kept permanently on-site is listed in the facility's Hazardous Materials Business Plan. This equipment is inspected at least monthly, and after each use, supplies are replenished as needed. Defective equipment is repaired or replaced as necessary.

EQUIPMENT NOT PERMANENTLY ON-SITE, BUT AVAILABLE FOR USE IF NEEDED: (Complete only if applicable)

EQUIPMENT	LOCATION	AVAILABILITY
R10	R20	R30
R11	R21	R31
R12	R22	R32
R13	R23	R33
R14	R24	R34
R15	R25	R35

IV. RESPONSIBLE PERSONS

THE FOLLOWING PERSON(S) IS/ARE RESPONSIBLE FOR AUTHORIZING ANY WORK NECESSARY UNDER THIS RESPONSE PLAN:

NAME	TITLE
R40 James Parks	R50 Building Maintenance Supervisor
R41	R51
R42 Michael Johnson	R52 Senior Plumber/ DSO
R43	R53

V. MONITORING INDICATORS

IF MONITORING INDICATES A POSSIBLE UNAUTHORIZED RELEASE, STEPS TO VERIFY THE RELEASE WILL BE MADE AS FOLLOWS: R60

☒ Additional system testing or data collection ☒ Inspection by qualified persons ☐ Recalibration of equipment ☐ Other (specify):

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 2

(One form per facility)

VI. REPORTING AND RECORD KEEPING

We will report/record any overfill, spill, or unauthorized release from a UST system as indicated in this plan.

Recordable Releases: Any unauthorized release from primary containment which the UST operator is able to clean up within eight (8) hours after the release was detected or should reasonably have been detected, and which does not escape from secondary containment, does not increase the hazard of fire or explosion, and does not cause any deterioration of secondary containment, must be recorded in the facility's monitoring records. Monitoring records must include:

- The UST operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous substances released;
- A description of the actions taken to control and clean up the release;
- The method and location of disposal of the released hazardous substances, and whether a hazardous waste manifest was or will be used;
- A description of actions taken to repair the UST and to prevent future releases;
- A description of the method used to reactivate interstitial monitoring after replacement or repair of primary containment.

Reportable Releases: Any overfill, spill, or unauthorized release which escapes from secondary containment (or primary containment if no secondary containment exists), increases the hazard of fire or explosion, or causes any deterioration of secondary containment, is a reportable release. Reportable releases are also recordable.

Within 24 hours after a reportable release has been detected, or should have been detected, we will notify the local agency administering the UST program of the release, investigate the release, and take immediate measures to stop the release. If necessary, or if required by the local agency, remaining stored product/waste will be removed from the UST to prevent further releases or facilitate corrective action. If an emergency exists, we will notify the State Office of Emergency Services.

Within five (5) working days of a reportable release, we will submit to the local agency a full written report containing all of the following information to the extent that the information is known at the time of filing the report:

- The UST owner's or operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous materials released;
- The approximate date of the release;
- The date on which the release was discovered;
- The date on which the release was stopped;
- A description of actions taken to control and/or stop the release;
- A description of corrective and remedial actions, including investigations which were undertaken and will be conducted to determine the nature and extent of soil, ground water or surface water contamination due to the release;
- The method(s) of cleanup implemented to date, proposed cleanup actions, and a schedule for implementing the proposed actions;
- The method(s) and location(s) of disposal of released hazardous materials and any contaminated soils, groundwater, or surface water.
- Copies of any hazardous waste manifests used for off-site transport of hazardous wastes associated with clean-up activity;
- A description of proposed methods for any repair or replacement of UST system primary/secondary containment systems;
- A description of additional actions taken to prevent future releases.

We will follow the reporting procedures described above if any of the following conditions occur:

- A recordable unauthorized release can not be cleaned up or is still under investigation within eight (8) hours of detection;
- Released hazardous substances are discovered at the UST site or in the surrounding area;
- Unusual operating conditions are observed, including erratic behavior of product dispensing equipment, sudden loss of product, or the unexplained presence of water in the tank, unless system equipment is found to be defective and is immediately repaired or replaced, and no leak has occurred;
- Monitoring results from UST system monitoring equipment/methods indicate that a release may have occurred, unless the monitoring equipment is found to be defective and is immediately repaired, recalibrated, or replaced, and additional monitoring does not confirm the initial results.

Record Retention: Monitoring records and written reports of unauthorized releases must be maintained on-site for at least 3 years. Hazardous waste shipping/disposal records (e.g., manifests) must be maintained for at least 3 years from the date of shipment.

VII. OWNER/OPERATOR SIGNATURE

CERTIFICATION: I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR SIGNATURE	DATE R70
K.M. Johnson	6-19-12
OWNER/OPERATOR NAME (print) R71	OWNER/OPERATOR TITLE R72
K.M. Johnson	Senior Plumber / DSO

(Agency Use Only) This plan has been reviewed and is: ☐ Approved ☐ Approved With Conditions* ☐ Disapproved

Local Agency Signature: Date:

**Conditions of approval (if any):*

County of San Diego

TRACY M. SANDOVAL
DEPUTY CHIEF ADMINISTRATIVE OFFICER/
AUDITOR AND CONTROLLER
(619) 531-5413
FAX: (619) 531-5219

FINANCE & GENERAL GOVERNMENT GROUP
1600 PACIFIC HIGHWAY, SUITE 166, SAN DIEGO, CA 92101-2422

December 2, 2015

TO: Amy Harbert, Assistant Director
Department of Environmental Health

FROM: Tracy L. Drager, Assistant Auditor and Controller
Auditor and Controller

CHIEF FINANCIAL OFFICER LETTER REGARDING FINANCIAL RESPONSIBILITY FOR UNDERGROUND STORAGE TANKS (UST) BASED ON THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2015

The attached annual Chief Financial Officer letter demonstrating the County's financial responsibility for maintaining Underground Storage Tanks (UST) is submitted to the Department of Environmental Health pursuant to Title 40, Code of Federal Regulations (CFR), Part 280, Subpart H, Section 280.93.

The aforementioned federal regulations requires all owners and operators to show, through an approved method, their ability to pay for potential cleanup and third party damages resulting from accidental releases for their USTs. To demonstrate financial responsibility, the County of San Diego uses the approved local government financial test, pursuant to Title 40, CFR Section 280.105. In this regard, this report is submitted to your office in your capacity as the regulator in this area for the County of San Diego.

As shown in the attached report, the County currently owns and operates 44 underground tanks that are used to store gasoline and diesel fuel at various County facilities. Financial responsibility means that money will be available to meet potential cleanup costs or third party lawsuits resulting from leaking USTs.

The County successfully passed the test with a score of 2.776 (it must be greater than zero). Assumptions in the calculations, for which we received authorization from the Environmental Protection Agency, may include netting advance refunding of County debt and excluding certain Federal and State revenues with no matching local fund requirements.

As evidence that this procedure has been satisfactorily completed, copies of this letter are provided to the Department of General Services, Fleet Management, to post at all of the UST sites.

If you have any questions, please contact Blanca Miller, Manager, Auditor & Controller at (858) 694-2323.

TRACY L. DRAGER
Assistant Auditor and Controller

PRGA:BM:koa

Attachments

County of San Diego

TRACY M. SANDOVAL
DEPUTY CHIEF ADMINISTRATIVE OFFICER/
AUDITOR AND CONTROLLER
(619) 531-5413
FAX: (619) 531-5219

FINANCE & GENERAL GOVERNMENT GROUP
1600 PACIFIC HIGHWAY, SUITE 166, SAN DIEGO, CA 92101-2422

December 2, 2015

TO: Amy Harbert, Assistant Director
Department of Environmental Health

FROM: Tracy L. Drager, Assistant Auditor and Controller
Auditor and Controller

MUNICPAL FINANCIAL TEST DEMONSTRATING FINANCIAL RESPONSIBILITY FOR UNDERGROUND STORAGE TANKS BASED ON THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2015

Pursuant to Federal Regulation 40 CFR 280.105 (c), this letter is in support of the use of the local governmental financial test to demonstrate financial responsibility for taking corrective action and/or compensating third parties for bodily injury and property damage caused by sudden accidental releases and/or non-sudden accidental releases in the amount of at least $500,000 per occurrence and $1 million annual aggregate arising from operating underground storage tanks (See Worksheet for Municipal Financial Test, Attachment A).

A listing of underground storage tank facilities that are assumed by this financial test is included on Attachment B.

The County of San Diego has not received an adverse opinion, or a disclaimer of opinion, from an independent auditor on its financial statements for the latest completed fiscal year.

If you have any questions, please contact Blanca Miller, Manager, Auditor & Controller at (858) 694-2323.

TRACY L. DRAGER
Assistant Auditor and Controller

PRGA:BM:koa

Attachments

c: Robert V. Rapista, Supervising Environmental Health Specialist, Environmental Health
Sharyl Blackington, Manager, Fleet Maintenance Support

ATTACHMENT A

COUNTY OF SAN DIEGO
WORKSHEET FOR MUNICIPAL FINANCIAL TEST
Year Ended June 30, 2015
(in Thousands *)

Part I: Basic Information		
1. Total Revenues		
a. Revenues	4,643,186	*
b. Subtract interfund transfers	434,900	*
c. Total Revenues	4,208,286	*
2. Total Expenditures		
a. Expenditures	4,545,631	*
b. Subtract Interfund Transfers	442,709	*
c. Total Expenditures	4,102,922	*
3. Local Revenues		
a. Total Revenues (from 1c)	4,208,286	*
b. Subtract intergovernmental transfers	2,515,897	*
c. Local Revenues	1,692,389	*
4. Debt Service		
a. Interest and fiscal charges	82,497	*
b. Add debt retirement	213,697	*
c. Total Debt Service	296,194	*
5. Total Funds	2,983,885	*
6. Population	3,227	*
Part II: Application of Test		
7. Total Revenues to Population		
a. Total Revenues (from 1c)	4,208,286	*
b. Population (from 6)	3,227	*
c. Divide 7a by 7b	1,304.086	
d. Subtract 417	887.086	
e. Divide by 5,212	0.170	
f. Multiply by 4.095	0.697	
8. Total Expenses to Population		
a. Total Expenses (from 2c)	4,102,922	*
b. Population (from 6)	3,227	*
c. Divide 8a by 8b	1,271.435	
d. Subtract 524	747.435	
e. Divide by 5,401	0.138	
f. Multiply by 4.095	0.567	
9. Local Revenues to Total Revenues		
a. Local Revenues (from 3c)	1,692,389	*
b. Total Revenues (from 1c)	4,208,286	*
c. Divide 9a by 9b	0.402	
d. Subtract .695	(0.293)	
e. Divide by .205	(1.429)	
f. Multiply by 2.840	(4.057)	
10. Debt Service to Population		
a. Debt Service (from 4c)	296,194	*
b. Population (from 6)	3,227	*
c. Divide 10a by 10b	91.786	
d. Subtract 51	40.786	
e. Divide by 1,038	0.039	
f. Multiply by -1.866	(0.073)	

11. Debt Service to Total Revenues		
a. Debt Service (from 4c)	296,194	*
b. Total Revenues (from1c)	4,208,286	*
c. Divide 11a by 11b	0.070	
d. Subtract .068	0.002	
e. Divide by .259	0.009	
f. Multiply by -3.533	(0.033)	
12. Total Revenues to Total Expenses		
a. Total Revenues (from 1c)	4,208,286	*
b. Total Expenses (from 2c)	4,102,922	*
c. Divide 12a by 12b	1.026	
d. Subtract .910	0.116	
e. Divide by .899	0.129	
f. Multiply by 3.458	0.445	
13. Funds Balance to Total Revenues		
a. Total Funds (from 5)	2,983,885	*
b. Total Revenues (from 1c)	4,208,286	*
c. Divide 13a by 13b	0.709	
d. Subtract .891	(0.182)	
e. Divide by 9.156	(0.020)	
f. Multiply by 3.270	(0.065)	
14. Funds Balance to Total Expenses		
a. Total Funds (from 5)	2,983,885	*
b. Total Expenses (from 2c)	4,102,922	*
c. Divide 14a by 14b	0.727	
d. Subtract .866	(0.139)	
e. Divide by 6.409	(0.022)	
f. Multiply by 3.270	(0.071)	
15. Total Funds to Population		
a. Total Funds (from 5)	2,983,885	*
b. Population (from 6)	3,227	*
c. Divide 15a by 15b	924.662	
d. Subtract 270	654.662	
e. Divide by 4,548	0.144	
f. Multiply by 1.866	0.269	
16. Add 7f + 8f + 9f + 10f + 11f + 12f + 13f + 14f + 15f + 4.937	2.616	

I hereby certify that the financial index shown on line 16 of the worksheet is greater than zero and that the wording of this letter is identical to the wording specified in 40 CFR Part 280.105(c) as such regulations were constituted on the date shown immediately below.

Tracy Drager
Assistant Auditor and Controller

Date

ATTACHMENT B

SAN DIEGO COUNTY
FUEL TANK LOCATIONS

	LOCATION	ADDRESS	TYPE OF FUEL	# HOSES	TANKS/SIZE	MAKE MODEL TLS	NO. OF TANKS
1	ALPINE (17)	2910 Tavern Road, Alpine 91901	Diesel	4	12,000	Veeder Root,350	1
			Gasoline	4	12,000	Veeder Root,350	1
2	BONSALL (58)	2370 Pala Road, Bonsall 92003	Diesel	4	12,000	Veeder Root,350	1
			Gasoline	4	12,000	Veeder Root,350	1
3	BORREGO (37)	4550 Rango Way, Borrego 92004	Diesel	4	12,000	Veeder Root,350	1
			Gasoline	4	12,000	Veeder Root,350	1
4	CAMPO (23)	970 Forest Gate Road, Campo 91906	Diesel	4	12,000	Veeder Root,350	1
			Gasoline	4	12,000	Veeder Root,350	1
5	COC (86)	5590 Overland Ave. ,San Diego 92123	Diesel	4	15,000	Veeder Root,350	1
			Gasoline	4	15,000	Veeder Root,350	1
			Gasoline	2	15,000	Veeder Root,350	1
6	DESCANSO (32)	24592 Viejas Grade Road, Descanso 91916	Gasoline	4	8,000	Veeder Root,350	1
7	EAST MESA (35)	446 Alta Road, San Diego 92173	Diesel	1	12,000	Veeder Root,350	1
	1 TANK 2 COMPARTMENTS		Gasoline	2	8,000	Veeder Root,350	1
8	ENCINITAS (95)	179 N. El Camino Real, Encinitas 92024	Gasoline	4	12,000	Veeder Root,350	1
9	JULIAN (38)	1524 Highway 78 ,Julian 92036	Diesel	4	12,000	Veeder Root,350	1
			Gasoline	4	12,000	Veeder Root,350	1
10	LAKESIDE (33)	13115 Willow Road, Lakeside 92040	Diesel	4	12,000	Veeder Root,350	1
			Gasoline	4	12,000	Veeder Root,350	1
11	MT LAGUNA (35)	33947 Mt. Laguna Drive, Mt Laguna 91948	Diesel	1	2,000	Veeder Root , Gaurdian 250	
	1 TANK 2 COMPARTMENTS		Gasoline	1	1,000	Veeder Root , Gaurdian 250	
12	MT PALOMAR (56)	20745 State Park Road, Mt. Palomar 92060	Diesel	1	2,000	Veeder Root , Gaurdian 300	
	1 TANK 2 COMPARTMENTS		Gasoline	1	1,000	Veeder Root , Gaurdian 300	
13	PINE VALLEY	28696 OLD HWY 80, PINE VALLEY 91962	Gasoline	1	1,000	Veeder Root , Gaurdian 300	
	1 TANK 1 COMPARTMENT						
14	RAMONA (48)	116 th Street, Ramona 92065	Diesel	8	12,000	Veeder Root , 350	1
			Gasoline	4	12,000	Veeder Root , 350	1
15	SAN FELIPE (41)	20704 San Felipe Road,San Felipe 92088	Diesel	1	1,000	Veeder Root , Gaurdian 250	
	1 TANK 2 COMPARTMENTS		Gasoline	1	2,000	Veeder Root , Gaurdian 250	

ATTACHMENT B

SAN DIEGO COUNTY
FUEL TANK LOCATIONS

	LOCATION	ADDRESS	TYPE OF FUEL	# HOSES	TANKS/SIZE	MAKE MODEL TLS	NO. OF TANKS
16	SAN MARCOS (68)	1579 Osage Road, San Marcos 92069	Diesel	4	12,000	Veeder Root , 350	1
			Gasoline	4	12,000	Veeder Root , 350	1
17	SANTEE (39)	1875 Weld Blvd, El Cajon 92020	Gasoline	4	12,000	Veeder Root , 350	1
18	SOUTH BAY (76)	500 Third Ave. , Chula Vista 91910	Gasoline	4	12,000	Veeder Root , 350	1
19	SPRING VALLEY (28)	11970 Singer Lane, Spring Valley 91977	Diesel	2	12,000	Veeder Root , 350	1
			Gasoline	2	12,000	Veeder Root , 350	1
20	UNION & A (33)	1251 Union Street, San Diego 92101	Gasoline	4	12,000	Veeder Root , 350	1
21	VALLEY CENTER (64)	28565 Cole Grade Rd. Valley Center 92082	Diesel	4	12,000	Veeder Root , 350	1
			Gasoline	4	12,000	Veeder Root , 350	1
22	VISTA (90)	325 S. Melrose Street ,Vista 92083	Gasoline	8	15,000	Veeder Root , 350	1
23	SOUTH BAY REGIONAL CENTER	500 3rd Ave. Chula Vista 91910	Diesel	0	5,000	Veeder Root, TLS350	1
24	LAS COLINAS DETENTION	451 Riverview Parkway Santee 92041	Diesel	0	45,000	Veeder Root, TLS350	1
25	COC CENTRAL PLANT	5555 Overland Ave. San Diego 92123	Diesel	0	20,000	Veeder Root, TLS350	2
26	COC PARKING STRUCTURE	5555 Overland Ave. San Diego 92123	Diesel	0	15,000	Veeder Root, TLS350	1
27	NCRC REGIONAL	325 S. Melrose Vista 92081	Diesel	0	10,000	Veeder Root, TLS350	1
28	SAN DIEGO CENTRAL JAIL	1173 Front St. San Diego 92101	Diesel	0	6,500	Simples SST	1
29	EAST MESA JUVENILE DETENTION	4460 Alta Road San Diego 92154	Diesel	0	6,000	INCON TS2001	1
30	CAC	1600 Pacific Highway San Diego 92101	Diesel	0	2,000	Veeder Root, TLS350	1
31	SAN DIEGO PHSYCHIATRIC HOSPITAL	3853 Rosecrans Ave. San Diego 92110	Diesel	0	2,000	Veeder Root, TLS350	1
32	SHERIFF CRIME LAB	5255 Mount Etna San Diego 92117	Diesel	0	4,000	Veeder Root, TLS350	1
33	GILLESPIE FIELD ASTREA	1745 N. Marshall Ave. El Cajon 92020	Jet A	1	12,000	Veeder Root, TLS350	1
			Jet A	3	20,000	Veeder Root, TLS350	1

44 UST

4 AST, 3 AST's are 1 tank 2 compartments, 1 AST is 1 tank 1 compartment

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2139 1-800-253-9933
http://www.sdcounty.ca.gov/deh/hmd/index.html

Designation of Underground Storage Tank (UST) Operator

UST Owner Statement of Understanding and Compliance with UST Requirements

Facility Name: Sheriff Regional Crime Lab	Facility Permit #: 1 1 4 2 6 1
Facility Address: 5255 Mount Etna	Phone:
City: San Diego	Zip Code: 92117-

Reason for Submitting this Form *(Check One)* ☐ **Initial Certification** ☐ **Change of Designated Operator** ☒ **Certificate Renewal**

Designated UST Operator(s) for this Facility

PRIMARY DESIGNATED UST OPERATOR

Designated Operator's Name: Kenneth M. Johnson
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (858)694-3615
International Code Council Certification #: 8171000

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2016-08-11

ALTERNATE 1 ***(Optional)***

Designated Operator's Name: Melvin Zamora
Business Name *(If different from above)*: County of San Diego
Designated Operator's Phone #: (619) 572-5860 x
International Code Council Certification #: 8084365

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☒ Employee
☐ Service Technician ☐ Third-Party
Expiration Date: 2017-03-03

ALTERNATE 2 ***(Optional)***

Designated Operator's Name:
Business Name *(If different from above)*:
Designated Operator's Phone #: (
International Code Council Certification #:

Relation to UST Facility (Check One)
☐ Owner ☐ Operator ☐ Employee
☐ Service Technician ☐ Third-Party
Expiration Date:

NOTIFY THE LOCAL REGULATORY AGENCY WITHIN 30 DAYS OF ANY CHANGES TO THIS INFORMATION

I certify that, for the facility indicated at the top of this page, the individual(s) listed above will serve as Designated UST Operator(s). The individual(s) will conduct and document monthly facility inspections and annual facility employee training, in accordance with California Code of Regulations, Title 23, Sections 2715(c) - (f).
Furthermore, I understand and am in compliance with the requirements (statutes, regulations, and local ordinances) applicable to underground storage tanks.

K. M. Johnson **DATE:** 4, 9, 15

NAME OF TANK OWNER OR OWNER'S AGENT (Please Print)

K M Johnson **OWNER'S PHONE #:** (858) 694-2111 x

SIGNATURE OF TANK OWNER OR OWNER'S AGENT

Return this completed form to: **HMD-Designated UST Operator**
P.O. Box 129261, San Diego, CA 92112-9261

Permit #: 114261 **Date: 2/23/2009**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
Annual Carcinogen and Reproductive Toxin Reporting List

Business Name: San Diego Sheriff's Crime Laboratory

Business Address: 5255 Mount Etna Drive, San Diego, CA 92117-6912

Business Owner or Operator: San Diego Sheriff's Department

Please complete the following by entering the chemical name in the chemical name column and then place a check ✓ in the quantity column that most closely estimates the amount on hand. If measured by volume, check the appropriate gallon column(s). If measured by weight, check the appropriate pound column(s). If the chemical is a trade secret, you should check the trade secret box. For example, if you have one pint of benzene you would write benzene in the chemical name column and place a check ✓ in the <1-gallon column.
(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Acetaldehyde	☒	☐	☐	☐	☐	☐	☐
Alprazolam	☐	☒	☐	☐	☐	☐	☐
Anabolic steroids	☐	☒	☐	☐	☐	☐	☐
Aniline	☒	☐	☐	☐	☐	☐	☐
Barbiturates	☐	☒	☐	☐	☐	☐	☐
Benzene	☒	☐	☐	☐	☐	☐	☐
Benzidine-based dyes	☐	☒	☐	☐	☐	☐	☐
Benzodiazepines	☐	☒	☐	☐	☐	☐	☐
Benphetamine	☐	☒	☐	☐	☐	☐	☐
Bromoform	☒	☐	☐	☐	☐	☐	☐
Carbamazepine	☐	☒	☐	☐	☐	☐	☐
Carbon disulphide	☐	☐	☒	☐	☐	☐	☐
Carbon tetrachloride	☒	☐	☐	☐	☐	☐	☐
Chlordiazepoxide HCl	☐	☒	☐	☐	☐	☐	☐
Chloroform	☐	☐	☒	☐	☐	☐	☐
Cocaine	☐	☒	☐	☐	☐	☐	☐
Cyclohexane	☒	☐	☐	☐	☐	☐	☐
Diazepam	☐	☒	☐	☐	☐	☐	☐
1,2-Dichloroethane	☐	☐	☐	☒	☐	☐	☐
Dichloromethane	☐	☐	☒	☐	☐	☐	☐
3,3'-Dimethoxybenzidine	☐	☒	☐	☐	☐	☐	☐

Permit #: 114261 **Date: 2/23/2009**

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(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Diphenylhydantoin	☐	☒	☐	☐	☐	☐	☐
Formaldehyde	☐	☐	☒	☐	☐	☐	☐
Halazepam	☐	☒	☐	☐	☐	☐	☐
Lead	☐	☐	☐	☒	☐	☐	☐
Lead compounds	☐	☒	☐	☐	☐	☐	☐
Lorazepam	☐	☒	☐	☐	☐	☐	☐
Mercury and mercury compounds	☐	☐	☐	☒	☐	☐	☐
Methyltestosterone	☐	☒	☐	☐	☐	☐	☐
Nicotine	☐	☒	☐	☐	☐	☐	☐
Oxazepam	☐	☒	☐	☐	☐	☐	☐
Oxymetholone	☐	☒	☐	☐	☐	☐	☐
Pentobarbital sodium	☐	☒	☐	☐	☐	☐	☐
Phenacetin	☐	☒	☐	☐	☐	☐	☐
Phenobarbital	☐	☒	☐	☐	☐	☐	☐
Phenolphthalein	☒	☐	☐	☐	☐	☐	☐
Phenolphthalein	☐	☒	☐	☐	☐	☐	☐
Primidone	☐	☒	☐	☐	☐	☐	☐
Pyridine	☒	☐	☐	☐	☐	☐	☐
Secobarbital	☐	☒	☐	☐	☐	☐	☐
Stanozolol	☐	☒	☐	☐	☐	☐	☐
Temazepam	☐	☒	☐	☐	☐	☐	☐

Permit #: 114261 **Date: 2/23/2009**

SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
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(**PLEASE NOTE:** the symbol < means **less than**).

Chemical Name	<1 gal.	<1 lb.	<10 gal.	<10 lbs.	<55 gal.	<500 lbs.	Trade Secret
Testosterone and its esters	☐	☒	☐	☐	☐	☐	☐
Testosterone enanthate	☐	☒	☐	☐	☐	☐	☐
Toluene	☐	☐	☒	☐	☐	☐	☐
Trichloroethylene	☒	☐	☐	☐	☐	☐	☐
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County of San Diego

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GARY W. ERBECK
DIRECTOR

JACK MILLER
ASSISTANT DIRECTOR

Medical Waste Management Plan

The San Diego County Department of Environmental Health, Hazardous Materials Division is the local agency designated by the California Department of Public Health to implement the Medical Waste Management Act. This law governs the generation, handling, storage, transportation, treatment and disposal of medical waste to protect the public and the environment from potential infectious exposure to disease causing agents.

The Medical Waste Management Plan is a document that describes the types and amount of medical waste generated at a specific location, and indicates how wastes are managed to ensure proper treatment and disposal. All Large Quantity Generators (LQGs generate **≥200 lbs.** of medical waste per month) and those Small Quantity Generators (SQGs generate **<200 lbs.** of medical waste per month) that treat their medical waste onsite are required to complete a Medical Waste Management Plan on the forms prepared by the enforcement agency. [Authority cited California Health and Safety Code §117600 et seq.]

Small Quantity Generators of medical waste that do not treat their medical waste onsite are not required to complete and submit this form to the local enforcement agency. They are, however, responsible for maintaining on file at their office a document stating how they contain, store, treat, and dispose of any medical waste generated. Completing a Medical Waste Management Plan and keeping at their office can satisfy this requirement.

Attached is a "blank" Medical Waste Management Plan form for your use. Please complete and sign the form and mail the original to the address listed above. Retain a copy for your records. If there are changes in any of the information on your Medical Waste Management Plan, submit a revised form to the address listed above within 30 days of changes. Annual submittal of the Medical Waste Management Plan is not required.

If you have any questions, please contact your area inspector or the Hazardous Materials Division Duty Desk at (619) 338-2231.

Attachment

MEDICAL WASTE – DEFINITION OF TERMS

MEDICAL WASTE means biohazardous waste or sharps waste that has been generated during the diagnosis, treatment or immunization of human beings or animals, in research pertaining thereto, in the production or testing of biologicals, or which may contain infectious agents, those organisms classified as Biosafety Level II, III, or IV by the federal Centers for Disease Control and Prevention and may pose a substantial threat to health. Medical waste includes trauma scene waste. Medical waste does not include hazardous waste, radioactive waste, medical solid waste or household waste.

BIOHAZARDOUS WASTE means any of the following:

(a) Laboratory waste, including, but not limited to, all of the following:

(1) Human or animal specimen cultures from medical and pathology laboratories.

(2) Cultures and stocks of infectious agents from research and industrial laboratories.

(3) Wastes from the production of bacteria, viruses, spores, discarded live and attenuated vaccines used in human health care or research, discarded animal vaccines, including Brucellosis and Contagious Ecthyma, as identified by the department, and culture dishes and de-vices used to transfer, inoculate, and mix cultures.

(b) Human surgery specimens or tissues removed at surgery or autopsy, which are suspected by the attending physician and surgeon or dentist of being contaminated with infectious agents known to be contagious to humans.

(c) Animal parts, tissues, fluids, or carcasses suspected by the attending veterinarian of being contaminated with infectious agents known to be contagious to humans.

(d) Waste, which at the point of transport from the generator's site, at the point of disposal, or thereafter, contains recognizable fluid blood, fluid blood products, containers or equipment containing blood that is fluid, or blood from animals known to be infected with diseases which are highly communicable to humans.

(e) Waste containing discarded materials contaminated with excretion, exudate, or secretions from humans or animals that are required to be isolated by the infection control staff, the attending physician and surgeon, the attending veterinarian, or the local health officer, to protect others from highly communicable diseases or diseases of animals that are highly communicable to humans.

(f) (1) Waste which is hazardous only because it is comprised of human surgery specimens or tissues which have been fixed in formaldehyde or other fixatives, or only because the waste is contaminated through contact with, or having previously contained, chemotherapeutic agents, including, but not limited to, gloves, disposable gowns, towels, and intravenous solution bags and attached tubing which are empty. A biohazardous waste which meets the conditions of this paragraph is not subject to Chapter 6.5 (commencing with Section 25100) of Division 20.

(2) For purposes of this subdivision, "chemotherapeutic agent" means an agent that kills or prevents the reproduction of malignant cells.

(3) For purposes of this subdivision, a container, or inner liner removed from a container, which previously contained a chemotherapeutic agent, is empty if the container or inner liner removed from the container has been emptied by the generator as much as possible, using methods commonly employed to remove waste or material from containers or liners, so that the following conditions are met:

(A) If the material which the container or inner liner held is pourable, no material can be poured or drained from the container or inner liner when held in any orientation, including, but not limited to, when tilted or inverted.

(B) If the material which the container or inner liner held is not pourable, no material or waste remains in the container or inner liner that can feasibly be removed by scraping.

(g) Waste that is hazardous only because it is comprised of pharmaceuticals, as defined in Section 117747. Notwithstanding subdivision (a) of Section 117690, medical waste includes biohazardous waste that meets the conditions of this subdivision. Biohazardous waste that meets the conditions of this subdivision is not subject to Chapter 6.5 (commencing with Section 25100) of Division 20.

SHARPS CONTAINERS are leakproof, rigid, puncture-resistant containers which when sealed cannot be reopened without great difficulty. These containers must be labeled with the words "Sharps Waste" or with the international Biohazard symbol and the word "BIOHAZARD." These containers must be labeled with the Generator's name, address, and phone number in a conspicuous location on the container when first used. Needles and syringes shall not be clipped prior to disposal. All sharps containers must be managed as MEDICAL WASTE.

"BIOHAZARD BAG" means a disposable red bag which is impervious to moisture and has strength sufficient to preclude ripping, tearing, or bursting under normal conditions of usage and handling of a waste-filled bag. A Biohazard bag shall be constructed of material of sufficient single thickness strength to pass the 165-gram dropped dart impact resistance test as prescribed by Standard D 1709-91 of the American Society for Testing and Materials and certified by the bag manufacturer. The bags shall be securely tied so as to prevent leakage or expulsion of solid or liquid wastes during future storage, handling, or transport. The bags shall be **RED** in color and conspicuously labeled with the international biohazard symbol and the "Biohazard." The bags shall be labeled with the Generator's name, address, and phone number in a conspicuous location on the bag when first used. If the waste is to be autoclaved, the outer bag may be colorless as long as the inner bag is red and both bags meet the stated strength criteria. All waste in red biohazard bags must be managed as MEDICAL WASTE.

STORAGE AREA WARNING SIGN is: A sign posted at a designated accumulation area used to store medical waste which must read in English, "CAUTION—BIOHAZARDOUS WASTE STORAGE AREA—UNAUTHORIZED PERSONS KEEP OUT" and in Spanish, "CUIDADO-ZONA DE RESIDUOS—BIOLOGICOS PELIGROSOS—PROHIBIDA LA ENTRADA A PERSONAS NO AUTORIZADAS" or in another language determined to be appropriate.

Intermediate storage areas shall be marked with the international biohazardous symbol or the signage noted above. These warning signs shall be readily legible from a distance of five feet.

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Medical Waste Management Plan

Facility Information

Business Name: SAN DIEGO SHERIFF'S CRIME LAB

Unified Program Facility Permit #: 114261

Type of Business: FORENSIC LAB

Date: 02/23/09

Address: 5255 MOUNTETNA DRIVE (Street No. / Street Name) SAN DIEGO (City) CA (State) 92117-6912 (Zip Code)

Person Responsible for implementing the Medical Waste Management Plan

Name: DON TAPPER

Title: ASST. DIRECTOR OF FORENSIC SERVICES **Phone:** (858) 467-4607 X ____

Types of wastes generated

☒ **Sharps** – needles, broken glass, blades.
Estimated monthly amount 50 **lbs**

☒ **Blood or body fluids** - liquid blood elements or other regulated body fluids, or articles contaminated with blood or body fluids.
Estimated monthly amount 250 **lbs**

☐ **Laboratory wastes** - specimens or microbiological cultures, stocks of infectious agents, live and attenuated vaccines, and culture media.
Estimated monthly amount ____ **lbs**

☐ **Isolation waste** – waste contaminated with excretion, exudates, or secretions from humans or animals who are isolated due to highly communicable diseases.
Estimated monthly amount ____ **lbs**

☐ **Waste contaminated with fixatives or chemotherapeutic agents.**
Estimated monthly amount ____ **lbs**

☐ **Surgical specimens** – human or animal parts or tissues removed surgically or by autopsy.
Estimated monthly amount ____ **lbs**

☐ **Pathology waste** – recognizable human anatomical parts.
Estimated monthly amount ____ **lbs**

☐ **Contaminated animals** – animal carcasses, body parts, bedding materials.
Estimated monthly amount ____ **lbs**

☐ **Other (please specify):** ____
Estimated monthly amount ____ **lbs**

☐ **Home Generated Sharps**
Estimated monthly amount ____ **lbs**

Estimate of TOTAL monthly medical waste generated: 300 **lbs**

Method of treatment performed onsite (if applicable):

☐ **Steam Autoclaving** ☐ **Other state approved alternative technology** (please specify below):

Medical Waste Management Plan

Registered Medical Waste Hauler used to remove untreated medical waste (if applicable):

Name: WASTE MANAGEMENT HEALTHCARE SOLUTIONS, INC.

Address: 1996 Don Lee Place, Suite C

City: Escondido **State** CA **ZIP Code** 92029

Phone #: (760) 489-5009 X ____

Contact Person: Bliss

Offsite treatment facility to which medical waste is transported (if applicable):

Facility Name: _____

Address: _____

City: _____ **State** _____ **ZIP Code** _____

Phone #: (____) _____ X ____

Contact Person: _____ **Phone #:** (____) _____ X ____

I hereby certify to the best of my knowledge and believe the statements made herein are correct and accurate.

Name: DON TAPPER
Type or Print

Title: ASST. DIRECTOR OF FORENSIC SERVICES

Signature: Donald M. Tapper **Date:** 02/23/09

Emergency Action Plan:
Note: This requirement only applies to Large Quantity Generators of Medical Waste (≥200 lbs/month)

Plan to be followed to ensure the proper disposal of medical waste in the event of a natural disaster, treatment system breaks down, power failure, spill, etc. (use additional sheets if necessary):

IF SAFE TO DO SO, TRAINED LAB PERSONNEL WILL CONTAIN/LOCALIZE SPILL(S) USING PROPER ON-SITE SAFETY EQUIPMENT. HAZMAT WILL BE CONTACTED TO REMOVE SPILL(S) AS NECESSARY. CLEAN-UP CONTRACTOR WILL BE CONTACTED TO REMOVE WASTE A NECESSARY.

SAN DIEGO COUNTY HOURS & LOCATIONS

KEARNY MESA 536/106
5575 Ruffin Road, Suite 100
San Diego, CA 92123
(858) 277-2744 - Clinic
(858) 277-2744 ext 36 - Therapy
Clinic Fax: (858) 277-3085
Therapy Fax: (858) 277-2097
Clinic Hours: 24 HOURS/7 Days a Week
Therapy Hours: Mon -Fri 7am - 6pm
Saturday - By Appointment
Center Manager: Frank Long
Medical Director: Russell Simbari
Lead Physical Therapist: Amy Papa

VISTA 545/104
2023 West Vista Way, Suite C
Vista, CA 92083
(760) 941-2000 - Clinic
(760) 941-2000 - Therapy
Clinic Fax: (760) 941-4900
Therapy Fax: (760) 941-4611
Clinic Hours: Mon -Fri 8am - 5pm
Therapy Hours: Mon & Wed 7am - 6pm,
Tue, Thur 7 am. - 2 pm. Fri 7am - 12 noon
Center Manager: Cathi Wasson

Medical Director: Bruno Seemann
Lead Physical Therapist: Kenneth Dewart

HILLCREST 535/097
3930 Fourth Avenue, Suite 200
San Diego, CA 92103
(619) 297-9610 - Clinic
(619) 297-9610 ext. 20 - Therapy
Clinic Fax: (619) 297-2244
Therapy Fax: (619) 297-2244
Clinic Hours: Mon -Fri 7am - 7pm
Therapy Hours: Mon -Fri 8am - 5:30pm
Center Manager: Denise Fasce

Medical Director: William Paul
Lead Physical Therapist: Deborah Redden

NATIONAL CITY 541/100
102 Mile of Cars Way
National City, CA 91950
(619) 474-9211 - Clinic
(619) 474-9211 - Therapy
Clinic Fax: (619) 474-2000
Therapy Fax: (619) 474-0718
Clinic Hours: Mon -Fri 7am - 7pm
Therapy Hours: Mon -Fri 7am - 5:30pm
Center Manager: Aldo Mendoza
Medical Director: Rodolfo Ruiz-Velasco
Lead Physical Therapist: Datha Rothstein

SORRENTO MESA 543/103
5897 Oberlin Drive, Suite 100
San Diego, CA 92121
(858) 455-0200 - Clinic
(858) 455-0200 - Therapy
Clinic Fax: (858) 455-0018
Therapy Fax: (858) 455-0044
Clinic Hours: Mon -Fri 8am - 5pm
Therapy Hours: Mon -Fri 8am - 5pm
Center Manager: Elizabeth Ramirez
Medical Director: Henry Poon
Lead Physical Therapist: Myla DeLaCruz

ESCONDIDO 534/096
362 West Mission Avenue, Suite 104
Escondido, CA 92025
(760) 747-2330 - Clinic
(760) 747-2031 - Therapy
Clinic Fax: (760) 747-3136
Therapy Fax: (760) 747-2875
Clinic Hours: Mon -Fri 8am - 5pm
Therapy Hours: Mon -Fri 9am - 6pm
Center Manager: Romelle Butts

Medical Director: Jason Kouri
Lead Physical Therapist: David Liu

LA MESA 537/105
8090 Parkway Drive
La Mesa, CA 91942
(619) 697-3093 - Clinic
(619) 697-0018 - Therapy
Clinic Fax: (619) 697-3135
Therapy Fax: (619) 697-0051
Clinic Hours: Mon -Fri 8am - 7pm
Therapy Hours: Mon, Wed, Fri 7:30am-4pm,
Tue 7:30am-130pm, Thu 8am-2pm
Center Manager: Ray Acevedo

Medical Director: Charles Grody
Lead Physical Therapist: Deborah Newton

CHULA VISTA 533/095
1111 Broadway, Suite 305
Chula Vista, CA 91911
(619) 425-8212 - Clinic
(619) 425-8172 - Therapy
Clinic Fax: (619) 425-1604
Therapy Fax: (619) 425-8337
Clinic Hours: Mon -Fri 8am - 6pm, Sat 10am - 3pm
Therapy Hours: Mon -Fri 8am - 5pm
Center Manager: Florence McMoore
Medical Director: Robert Cabico
Lead Physical Therapist: Patricia Campa

MIRAMAR 538/098
7590 Miramar Road, Suite C
San Diego, CA 92126
(858) 549-4255 - Clinic
(858) 549-4498 - Therapy
Clinic Fax: (858) 549-4552
Therapy Fax: (858) 536-9461
Clinic Hours: Mon -Fri 8am - 5pm
TherapyHours: Mon -Fri 8am - 5pm
Center Manager: Migdalia Rubio
Medical Director: Stephen Leibham
Lead Physical Therapist: Sholeh Dadkah

CARLSBAD 532/101
5814 Van Allen Way, Suite 210
Carlsbad, CA 92008
(760) 438-4466 - Clinic
(760) 438-4466 - Therapy
Clinic Fax: (760) 431-7218
Therapy Fax: (760) 431-7218
Clinic Hours: Mon -Fri 8am - 6pm
Therapy Hours: Mon -Fri 7am - 5:30pm
Center Manager: Dina Baez-Heggie

Medical Director: Robert Charlap
Lead Physical Therapist: Lynn Ciallela

SANTEE 542/102
9745 Prospect Avenue, Suite 100
Santee, CA 92071
(619) 448-4841 - Clinic
(619) 449-8946 - Therapy
ClinicFax: (619) 448-8700
Therapy Fax: (619) 449-5127
Clinic Hours: Mon -Fri 7am - 6pm
Therapy Hours: Mon-Thu 8am - 7pm
Fri 8 am - 6:pm
Center Manager: Alice Wilson

Medical Director: Bruce Hoang
Lead Physical Therapist: Elaheh Mozaffarian

CENTER FOR SPECIALTY CARE (by app't only)
MISSION VALLEY 539/099
9040 Friars Road, Suite 400
San Diego, CA 92108
(619) 297-7745 - Clinic
(619) 283-9610 - Therapy
Clinic Fax: (619) 283-9664
Therapy Fax: (619) 283-9692
Clinic Hours: Mon -Fri 8am - 5pm
Therapy Hours: Mon -Fri 7:30am - 6pm
Center Manager: Laura Miller
(619) 283-9606 - Direct Line
Medical Director: Leonard Okun
Lead Physical Therapist: Laura Miller

REGIONAL MANAGEMENT

Regional Therapy Director: Laura Miller
Phone: (619) 283-9606
Fax: (619) 283-9692

Vice President-Operations: Kathleen Marchetti
Phone: (858) 492-5443
Fax: (858) 277-1924

Medical Director: Leonard Okun, M.D.
Phone: (858) 565-1300
Fax: (858) 565-6932

U.S. HEALTHWORKS/CoSD DEPARTMENT OF HUMAN RESOURCES RISK MANAGEMENT DIVISION CONTACTS

Nurse Case Manager: Heather Inch
Phone: (619) 260-1370
Fax: (619) 297-2244
Email: heather.inch@ushworks.com

On Site Liaison: Christina Atwell
Phone: (619) 578-5739 (Workers' Compensation)
(619) 232-1901 (Medical Standards)
Fax: (619)232-1952 (Medical Standards)
Email: christina.atwell@ushworks.com

Billing/Business Office Representative: Doris Jones
Phone: (858) 492-5422
Fax: (858) 277-0543
E-mail: doris.jones@ushworks.com

COUNTY OF SAN DIEGO

COMPLIANCE INSPECTION REPORT

FACILITY NAME: **SD CNTY SHERIFF CRIME LAB**
ADDRESS: **5255 MOUNT ETNA DR**
CITY/ZIP: **SAN DIEGO** /**92117**

INSPECTION DATE: **01/06/2016** PAGE **1** OF **2**
RECORD ID #: **DEH2002-HUPFP-114261**
TIME START: **8:00 AM** END: **10:00 AM**
SPECIALIST: **Grissel Garcia**
INSPECTION CONTACT: **Lauren Sautkulis**
TITLE: **Assistant Safety Manager**
PHONE: **(858) 467-4600**
E-MAIL: **laurensautkulis@sdsherrif.org**

On the above date, the County inspected your facility under the authority of the California Health and Safety Code (H&SC), to determine compliance with applicable provisions of the H&SC, the California Code of Regulations (CCR), and the San Diego County Code of Regulatory Ordinances (SDCC). **This report serves as a Notice to Comply (H&SC 25187.8 & 25404.1.2) for any minor violations as defined in H&SC 25404 and 25117.6.** This report may contain both minor and more significant (Class II) violations. Minor violations do not include repeat violations or violations remaining uncorrected for more than 30 days (or as specified below). Minor violations do not include knowing, willful, intentional, or chronic violations; nor do they include violations showing a pattern of neglect or disregard. The remarks below are intended to provide guidance to correct any violations indicated on the attached violation report. You must submit a written response to this report within 30 days (or as specified below) demonstrating that all violations have been corrected or include a written notice of disagreement that clearly states the reason for any disputed violations. Prompt correction can protect you from penalties for a "minor violation". Penalties can be imposed for each day in violation for all other violations even if they are corrected promptly. However, correction within 30 days (or as specified below) will make a penalty less likely.

NOTE: Reinspection fees will be charged if additional inspections are required to determine compliance.

Yes	N/A		Yes	N/A	
☒	☐	Unified Program Facility Permit Current	☒	☐	Contingency Plan Available ☐ LQG ☒ SQG
☒	☐	Hazardous Materials Business Plan Available	☒	☐	Employee Training Records Available
☒	☐	Employee Training is Adequate	☒	☐	Universal Waste Managed Properly
☒	☐	Waste Disposal Records Available for Review	☒	☐	Waste Containers ☒ Closed ☒ Labeled
☒	☐	Emergency Contacts Current ☐ Updated today	☒	☐	Waste Containers in Good Condition
☐	☐	Chemical Inventory/Map Current ☐ Updated today			Permit Expires On 03/31/2016

CONSENT TO CONDUCT INSPECTION GRANTED BY: Lauren Sautkulis TITLE: Assistant Safety Manager

INTRODUCTION:
Annual UST monitoring certification and routine hazardous materials/hazardous waste/medical waste inspection conducted today to verify compliance with unified program facility permit regulations. Derek Perkins, technician for J&C Inc (ICC & VR certifications current) performed the UST tests and Mike Johnson, Senior Plumber/DSO was also present for the monitoring certification. Lauren Sautkulis assisted with the lab walk-through.

At the time of inspection, this facility is a large quantity generator of medical waste, stores hazardous materials above HMBP thresholds, and is also a small quantity generator of hazardous waste.

INSPECTION REMARKS:
Action Items to be completed online in the California Environmental Reporting System (CERS):

- Submittal dated 9/24/15 was not accepted because it was missing the most recent copy of the CFO letter was not included in the submittal. A copy was found on site in the UST compliance binder, and per Mike Johnson (Designated Operator) it was uploaded to CERS but he does not have the permission rights to actually submit it. Please have Connie Milton or another lead user for this site submit and ensure the most recent copy of the CFO letter (Dated 12/2/15) is included in the next submittal.
- The Hazardous Materials Inventory submittal dated 9/24/15 was also not accepted due to the reporting units used for liquid nitrogen. Please update the units to match the units in which it is stored (gallons) and resubmit by 2/6/15 (within 30 days).

UST Inspection Summary:

· Facility has one suction system Diesel UST for the emergency generator.
· All liquid sensors tested and passed.
· overfill tested and passed
· no line leak detectors required for the suction system.
· no UDC monitoring required for the suction system.
· Spill bucket tested with water for one hour and passed.
· Online records reviewed: CERS submittal last received on 9/24/15 including tank information, monitoring plan, plot plan, owner/operator compliance documentation, CFR/CFO letter (see above remark), and response plans.
· On-site UST records reviewed and in order including past monitoring certification and test records, maintenance records, alarm history/system set up, monthly DUSTO inspections, SB989 (10/24/14) and DUSTO training records (12/16/15)

COUNTY OF SAN DIEGO

SUPPLEMENTAL COMPLIANCE INSPECTION REPORT

Hazardous Materials/Hazardous Waste/Medical Waste Inspection Summary:

· All waste containers observed today were properly labeled and stored.
· waste receipts reviewed.
· Waste storage room is well-kept and observed to be in compliance.
· Medical Waste Management Plan (MWMP) is up-to-date and last submitted in CERS on 9/24/15.
· Hazardous Materials Business Plan (HMBP) just needs a minor edit (see remarks above).

Helpful Websites:
• For guidance documents on hazardous materials-related topics,
go to: http://www.sandiegocounty.gov/content/sdc/deh/hazmat/hmd_publications.html
• For information on the California Environmental Reporting System (CERS),
go to: http://www.sandiegocounty.gov/content/sdc/deh/hazmat/hmd_cers.html
• If you have questions on: permit fees, business plan requirements, or hazardous waste regulations,
go to: http://www.sandiegocounty.gov/content/sdc/deh/hazmat.html
• To find out the latest San Diego County News and receive updates, subscribe to our govdelivery emails:
https://public.govdelivery.com/accounts/CASAND/subscriber/new

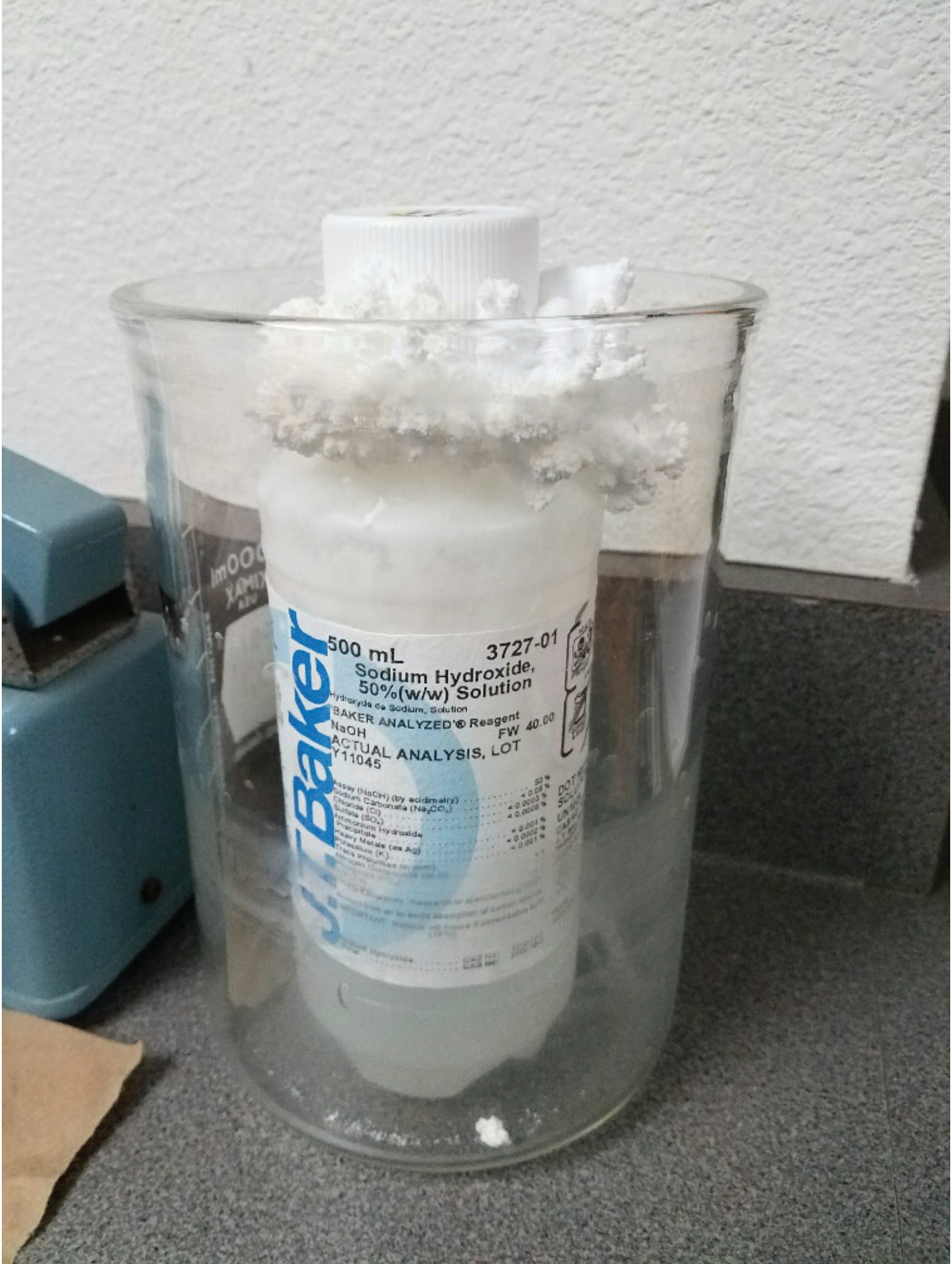
If you have any questions regarding this inspection, please contact Grissel Garcia ,(619) 454-9676,
Grissel.Garcia@sdcounty.ca.gov

INSPECTION PHOTOS
None

All regulated businesses are required by law to submit their Unified Program-related information and business updates online through the California Environmental Reporting System (CERS). For additional information about CERS, go to: http://www.sandiegocounty.gov/deh/hazmat/hmd_cers.html

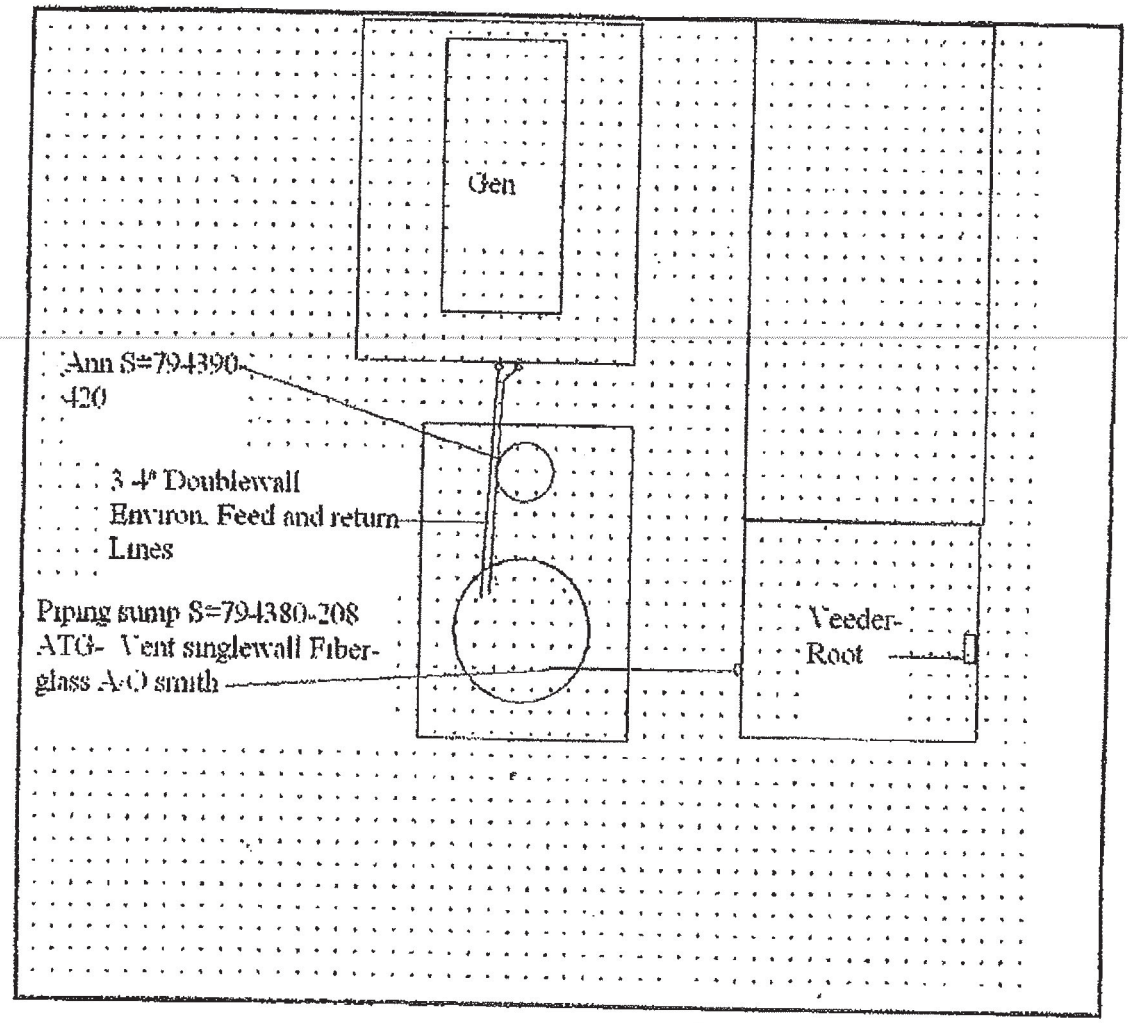
PRINTED NAME OF FACILITY REPRESENTATIVE **Lauren Sautkulis**	SIGNATURE		DATE SIGNED **01/06/2016**
TITLE OF FACILITY REPRESENTATIVE **Assistant Safety Manager**			

Department of Environmental Health, Hazardous Materials Division, P.O. Box 129261, San Diego, CA 92112-9261
Phone: (858) 505-6880 http://www.sdcdeh.org


J.T.Baker
500 mL
3727-01
Sodium Hydroxide,
50%(w/w) Solution
Hydroxyde de Sodium, Solution
BAKER ANALYZED® Reagent
NaOH
FW 40.00
ACTUAL ANALYSIS, LOT
Y11045

UST Monitoring Site Plan

Site Address: 5255 Mt Etna San Diego Ca.



Date map was drawn: 11/14/08

Instructions

If you already have a diagram that shows all required information, you may include it, rather than this page, with your Monitoring System Certification. On your site plan, show the general layout of tanks and piping. Clearly identify locations of the following equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas; mechanical or electronic line leak detectors; and in-tank liquid level probes (if used for leak detection). In the space provided, note the date this Site Plan was prepared

State of California
State Water Resources Control Board
Division of Financial Assistance
P.O. Box 944212
Sacramento, CA 94244-2121
(Instructions on reverse side)

For State Use Only

CERTIFICATION OF FINANCIAL RESPONSIBILITY

FOR UNDERGROUND STORAGE TANKS CONTAINING PETROLEUM

A. I am required to demonstrate Financial Responsibility in the required amounts as specified in California Code of Regulations (CCR), Title 23, Division 3, Chapter 18, Section 2807,

[X] 500,000 dollars per occurrence or [ ] 1 million dollars per occurrence AND [X] 1 million dollars annual aggregate or [ ] 2 million dollars annual aggregate

B. County of San Diego *hereby certifies that it is in compliance with the requirements of Section 2807,*
(Name of Tank Owner or Operator)
California Code of Regulations, Title 23, Division 3, Chapter 18, Article 3, Section 2807.
The mechanisms used to demonstrate financial responsibility as required by Section 2807 are as follows:

C. Mechanism Type	Name and Address of Issuer	Mechanism Number	Coverage Amount	Coverage Period	Corrective Action	Third Party Comp
Government guarantee	1600 Pacific Hwy San Diego, CA 92101	N/A for this Mechanism	$500K per occurance $1Mil annual aggregate	Annual	Yes	Yes
Chief Financial Officer Letter	1600 Pacific Hwy San Diego, CA 92101	N/A for this mechanism	$500K per occurance $1Mil annual aggregate	Annual	Yes	Yes

Note:

Note: If you are using the State Fund as any part of your demonstration of financial responsibility, your execution and submission of this certification also certifies that you are in compliance and shall maintain compliance with all conditions for participation in the Fund. See instructions.

D. Facility Name	Facility Address
See attachments	See attachments
Facility Name	Facility Address
Facility Name	Facility Address

E. Signature of Tank Owner or Operator	Date	Name and Title of Tank Owner or Operator
[signature]	11/12/09	April Heinze Director DepT of Gen. Serv.
Signture of Witness or Notary	Date	Name of Witness or Notary
[signature]	11/12/09	Vicki Rajsky

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 1

(One form per facility)

TYPE OF ACTION ☒ 1. NEW PLAN ☐ 2. CHANGE OF INFORMATION R01

I. FACILITY INFORMATION

FACILITY ID # *(Agency Use Only)* 3 7 — 0 0 0 — 1 1 4 2 6 1 1

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) R02

County of San Diego Sheriff Crime Lab

BUSINESS SITE ADDRESS R03	CITY R04		ZIP CODE R05
5255 Mt. Etna Drive	San Diego	CA	92117-

II. SPILL CONTROL AND CLEANUP METHODS

This plan addresses unauthorized releases from UST systems and supplements the emergency response plans and procedures in the facility's Hazardous Materials Business Plan.

- If safe to do so, facility personnel will take immediate measures to control or stop any release (e.g., activate pump shut-off, etc.) and, if necessary, safely remove remaining hazardous material from the UST system.
- Any release to secondary containment will be pumped or otherwise removed within 24 hours of discovery. Recovered hazardous materials, unless suitable for their intended use, will be managed as hazardous waste.
- Absorbent material will be used to contain and clean up manageable spills of hazardous materials. Absorbent material which has become too saturated to be effective or which is no longer intended for use will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. Used absorbent material, reusable or waste, will be stored in a properly labeled and sealed container. Waste material shall be disposed appropriately.
- Facility personnel will determine whether any water removed from secondary containment systems, or from clean-up activity, has been in contact with any hazardous material. If the water is contaminated, it will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. If the water has a petroleum sheen (i.e., rainbow colors), it is contaminated. A thick floating petroleum layer may not necessarily display rainbow colors. Water (hazardous or non-hazardous) from sumps, spill containers, etc. will not be disposed to storm water systems.
- We will review secondary containment systems for possible deterioration if any of the following conditions occur:
  1. Hazardous material in contact with secondary containment is not compatible with the material used for secondary containment;
  2. Secondary containment is prone to damage from any equipment used to remove or clean up hazardous material collected in secondary containment;
  3. Hazardous material, other than the product/waste stored in the primary containment system, is placed inside secondary containment to treat or neutralize released product/waste, and the added material or resulting material from such a combination is not compatible with secondary containment.

III. SPILL CONTROL AND CLEAN-UP EQUIPMENT

PERIODIC MAINTENANCE: Spill control and clean-up equipment kept permanently on-site is listed in the facility's Hazardous Materials Business Plan. This equipment is inspected at least monthly, and after each use, supplies are replenished as needed. Defective equipment is repaired or replaced as necessary.

EQUIPMENT NOT PERMANENTLY ON-SITE, BUT AVAILABLE FOR USE IF NEEDED: (Complete only if applicable)

EQUIPMENT	LOCATION	AVAILABILITY
R10	R20	R30
R11	R21	R31
R12	R22	R32
R13	R23	R33
R14	R24	R34
R15	R25	R35

IV. RESPONSIBLE PERSONS

THE FOLLOWING PERSON(S) IS/ARE RESPONSIBLE FOR AUTHORIZING ANY WORK NECESSARY UNDER THIS RESPONSE PLAN:

NAME	TITLE
R40 James Parks	R50 Building Maintenance Supervisor
R41	R51
R42 Michael Johnson	R52 Senior Plumber/ DSO
R43	R53

V. MONITORING INDICATORS

IF MONITORING INDICATES A POSSIBLE UNAUTHORIZED RELEASE, STEPS TO VERIFY THE RELEASE WILL BE MADE AS FOLLOWS: R60

☒ Additional system testing or data collection ☒ Inspection by qualified persons ☐ Recalibration of equipment ☐ Other (specify):

COUNTY OF SAN DIEGO CUPA
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 2

(One form per facility)

VI. REPORTING AND RECORD KEEPING

We will report/record any overfill, spill, or unauthorized release from a UST system as indicated in this plan.

Recordable Releases: Any unauthorized release from primary containment which the UST operator is able to clean up within eight (8) hours after the release was detected or should reasonably have been detected, and which does not escape from secondary containment, does not increase the hazard of fire or explosion, and does not cause any deterioration of secondary containment, must be recorded in the facility's monitoring records. Monitoring records must include:

- The UST operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous substances released;
- A description of the actions taken to control and clean up the release;
- The method and location of disposal of the released hazardous substances, and whether a hazardous waste manifest was or will be used;
- A description of actions taken to repair the UST and to prevent future releases;
- A description of the method used to reactivate interstitial monitoring after replacement or repair of primary containment.

Reportable Releases: Any overfill, spill, or unauthorized release which escapes from secondary containment (or primary containment if no secondary containment exists), increases the hazard of fire or explosion, or causes any deterioration of secondary containment, is a reportable release. Reportable releases are also recordable.

Within 24 hours after a reportable release has been detected, or should have been detected, we will notify the local agency administering the UST program of the release, investigate the release, and take immediate measures to stop the release. If necessary, or if required by the local agency, remaining stored product/waste will be removed from the UST to prevent further releases or facilitate corrective action. If an emergency exists, we will notify the State Office of Emergency Services.

Within five (5) working days of a reportable release, we will submit to the local agency a full written report containing all of the following information to the extent that the information is known at the time of filing the report:

- The UST owner's or operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous materials released;
- The approximate date of the release;
- The date on which the release was discovered;
- The date on which the release was stopped;
- A description of actions taken to control and/or stop the release;
- A description of corrective and remedial actions, including investigations which were undertaken and will be conducted to determine the nature and extent of soil, ground water or surface water contamination due to the release;
- The method(s) of cleanup implemented to date, proposed cleanup actions, and a schedule for implementing the proposed actions;
- The method(s) and location(s) of disposal of released hazardous materials and any contaminated soils, groundwater, or surface water.
- Copies of any hazardous waste manifests used for off-site transport of hazardous wastes associated with clean-up activity;
- A description of proposed methods for any repair or replacement of UST system primary/secondary containment systems;
- A description of additional actions taken to prevent future releases.

We will follow the reporting procedures described above if any of the following conditions occur:

- A recordable unauthorized release can not be cleaned up or is still under investigation within eight (8) hours of detection;
- Released hazardous substances are discovered at the UST site or in the surrounding area;
- Unusual operating conditions are observed, including erratic behavior of product dispensing equipment, sudden loss of product, or the unexplained presence of water in the tank, unless system equipment is found to be defective and is immediately repaired or replaced, and no leak has occurred;
- Monitoring results from UST system monitoring equipment/methods indicate that a release may have occurred, unless the monitoring equipment is found to be defective and is immediately repaired, recalibrated, or replaced, and additional monitoring does not confirm the initial results.

Record Retention: Monitoring records and written reports of unauthorized releases must be maintained on-site for at least 3 years. Hazardous waste shipping/disposal records (e.g., manifests) must be maintained for at least 3 years from the date of shipment.

VII. OWNER/OPERATOR SIGNATURE

CERTIFICATION: I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR SIGNATURE	DATE R70
K.M. Johnson	6-19-12
OWNER/OPERATOR NAME (print) R71	OWNER/OPERATOR TITLE R72
K.M. Johnson	Senior Plumber / DSO

(Agency Use Only) This plan has been reviewed and is: ☐ Approved ☐ Approved With Conditions* ☐ Disapproved

Local Agency Signature: Date:

**Conditions of approval (if any):*

APCD1976-SITE-00258

Site History

Detailed Description:

Record Status: Active

Contacts

APCD Invoice Mailing	County of San Diego	5560 Overland Ave., Ste 410	San Diego, CA	92123	8588943421
APCD Equipment Location	SD CO OF SHERIFFS CRIME LAB PR0395	5255 MT ETNA DR	SAN DIEGO, CA	921170000	8586944497
Applicant			,		
APCD PTO Mailing	County of San Diego, M/S 0-366	5560 Overland Av #410	San Diego, CA	92123	858-894-3421

Military Base	-	Type Ownership:		
Military Activity	-	Name of Legal Owner:		
PERP	-	TPY:	-	
Title V	-	Inspection Sectors:	04	**Parcel #:** -
SIC:	0	VAX Site ID:	430 A	
Inspection Month:	2	Source Test Alias:		
Renewal Month:	5	Expiration Month:	5	
Frequency:	-	Delinquent Month::		
Site Status:	A			

Open Applications:	0	Active Permits:	1	Breakdowns:	1	Notices of Violation:	0
Approved Applications:	1	Approved Permits:	0	Corrective Actions:	0	Notices to Comply:	1
Cancelled Applications:	1	Retired Permits:	0	Complaints:	0	Notices to Repair:	0
Denied Applications:	0			Hearing Board Items:	0	Title V:	0
				Jobs:	0	Vapor Recovery Test:	0

Parent: APCD1991-APP-910834 **Equipment Type:** [34C] Emergency Standby Engine **Units:** 1 **Status:** Active

BEC: APCD2014-CON-000943 **LEGACY BEC:** 12826 **Opened:**07/31/2009

Permit Description: ONE (1) EMERGENCY ENGINE GENERATOR SET : DETROIT DIESEL ENGINE, MODEL: 91237306, 1375 BHP, QUAD TURBO; WITH A KOHLER GENERATOR, MODEL 900 ROZD-71 S/N: 12E0009927, 900 KW. APPL# 910834 EFH 10/07/93 910834 17CCR93115 SJE10/05

Notes:

Inspection Frequency: - **Expiration:** 5/31/2019 **Expiration Status:**About To Expire

Source Test: - **Source Test Frequency:**

Conditions

#	Name	Description
1	C40239	The engine shall be operated exclusively during emergencies as defined in Rule 69.4.1 or Rule 12 or 17CCR93115 as applicable, or for maintenance and testing.
2	C40907	This engine shall not be used as a part of a non-emergency Demand Response Program (DRP). This condition shall not apply to engines operating pursuant to the rolling blackout reduction program as defined in 17 CCR 93115 and operating in accordance with 17 CCR 93115.6(c). (17 CCR 93115)
3	C28691	Engine operation for maintenance and testing purposes shall not exceed 20 hours per calendar year. (17 CCR 93115, Rule 1200, NSR)
4	C28412	This engine shall only use CARB diesel fuel. (Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII)
5	C28413	Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
6	C28414	The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)
7	C43430	This engine is located at an area source that is a Commercial, Institutional, or Residential facility as defined in 40 CFR 63.6675. If this location no longer qualifies as a Commercial, Institutional, or Residential facility, then an application for permit modification to include applicable NESHAP requirements shall be submitted to the Air Pollution Control District. (40 CFR 63 Subpart ZZZZ)
8	C28415	This engine shall not operate for non-emergency use during the following periods, as applicable: (a) whenever there is any school sponsored activity, if engine is located on school grounds or (b) between 7:30am and 3:30pm on days when school is in session, if the engine is located within 500 feet of, but not on, school grounds. This condition shall not apply to an engine located at or near any school grounds that also serve as the students' place of residence. (17 CCR 93115)
9	C28560	Engine operation in response to notification of an impending rotating outage shall be subject to all the following restrictions: (a) the utility distribution company has ordered rotating outages in the control area where the engine is located, (b) the engine is operated no more than 30 minutes prior to the time when the utility distribution company officially forecasts a rotating outage in the cited control area, and (c) the engine operation is terminated immediately after the utility distribution company advises that a rotating outage is no longer in effect. This condition shall not apply to engines operating pursuant to the rolling blackout reduction program as defined in 17 CCR 93115 and operating in accordance with 17 CCR 93115.6(c). (17 CCR 93115)

10	C28419	A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information: (a) old meter's hour reading, (b) replacement meter's manufacturer name, model and serial number if available and current hour reading on replacement meter, and (c) copy of receipt of new meter or of installation work order. A copy of the meter replacement notification shall be maintained onsite and made available to the Air Pollution Control District upon request. (Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ)
11	C28417	The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. The periodic maintenance shall be conducted at least once each calendar year. (Rule 12, Rule 69.4.1)
12	C43078	The owner or operator of the engine shall maintain the following records on site for at least the same period of time as the engine to which the records apply is located at the site: (a) documentation shall be maintained identifying the fuel as CARB diesel, and (b) manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company. (Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 63 Subpart ZZZZ)
13	C43431	The owner or operator of this engine shall maintain a monthly operating log containing, at a minimum, the following: (a) dates and times of engine operation; whether the operation was for maintenance and testing purposes or emergency use; and the nature of the emergency, if known; (b) records of periodic engine maintenance shall include the date and a description of the maintenance that was performed; and (c) hours of operation for all uses other than those specified above and identification of the nature of that use. (Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ)
14	C43432	All records required by this permit shall be maintained on site and readily available for District inspection for a minimum of 36 months from their date of creation unless otherwise indicated by the conditions of this permit. (Rule 12, Rule 69.4.1, 40 CFR 60 Subpart IIII)

Inspection	Date	Inspector	Status
Routine	2/12/2018	Keenan Murray	Completed
Routine	2/9/2018	Keenan Murray	Completed
PTO Joint Inspection	1/18/2017	Keenan Murray	Completed
Routine	1/18/2017	William Munger	Completed
PTO Joint Inspection	1/13/2017	Nick Critti	Completed
Routine	1/13/2017	Keenan Murray	Completed
PTO Joint Inspection	1/13/2017	Nick Critti	Completed
Routine	1/13/2017	William Munger	Completed
PTO Joint Inspection	1/13/2017	Keenan Murray	Completed
Routine	1/13/2017	Nick Critti	Completed
Routine	9/30/2014	Daniella Gutierrez	Completed

Version History

Version Number	Revision Date	Application	Site	Reason
1	11/9/2010	APCD1991-APP-910834	APCD1976-SITE-00258	
2	7/13/2011		APCD1976-SITE-00258	
3	5/23/2012			Renewal
4	8/24/2015	APCD Condition Update	APCD1976-SITE-00258	Condition Change

Parent: APCD1976-SITE-00258

Status: Approved

Record Type: LUEG-APCD/Permit App/Internal Combustion Engines/NA

VAX ID: -

Source Category: 34C

Additional Information : -

Assigned to: Evariste Haury (858) 586-2745

Time & Material: No

Addresss: 5255 MT ETNA DR, SAN DIEGO 921170000
Application Date Sumbited: 4/23/1991
Reason for Submitted: N
Expedited Application: -

Inspection	Date	Inspector	Status

Workflow

Task	Status	Date	Action By:
Application Acceptance		12/7/1994	
Completeness Determination		12/7/1994	
Approve Authority to Construct		12/7/1994	
Issue Authority to Construct		12/7/1994	
Issue Startup Authorization		12/7/1994	
Issue Permit to Operate		12/7/1994	

Parent: APCD1976-SITE-00258

Status: Cancelled

Record Type: LUEG-APCD/Permit App/Internal Combustion Engines/NA

VAX ID: -

Source Category: 34B

Additional Information : -

Assigned to: -

Time & Material: No

Addresss: 5255 MT ETNA DR, SAN DIEGO 921170000
Application Date Sumbited: 7/9/1990
Reason for Submitted: P
Expedited Application: -

Inspection	Date	Inspector	Status

Workflow

Task	Status	Date	Action By:
Application Acceptance		3/16/1992	
Completeness Determination		3/16/1992	
Approve Authority to Construct		3/16/1992	
Issue Authority to Construct		3/16/1992	
Issue Startup Authorization		3/16/1992	
Issue Permit to Operate		3/16/1992	

Parent: APCD1976-SITE-00258
Status: Closed

NTC Issued: 2/4/1997
Served to: I. BOVINO

Title:

Assigned to: -
NTC Start: -

Compliance Date: 2/18/1997
NTC Ends: -

Disposition: -
Compliance Achieved: -

Description: SUBMIT AN APPLICATION FOR A PERMIT FOR 2 RITE BOILERS; ORPERMANENTLY ELIMINATE THE USE OF THE LIQUID FUEL FOR THE BOILERS; ORDISCONTINUE USE OF BOTH BOILERS. [CLOSED - FULE LINE DISCONNECTED]

Condition #	Condition Rule	Condition Description
	D 10(a)	
	D 10(b)	

Count	Law Type	Category	Section	Rule	Description	Permit Cond#

Inspection	Date	Inspector	Status

Parent: APCD2005-PTO-910834 **Opened Date:** 2/9/2018 **Date Discovered:** - **Received Date:** -

Status: Closed **Date Notified:** - **Time Discovered:** 07:04 **Received Time:**

Cause: Believes it to be a bad ATS.

Detailed Description: Bay City is coming out to take a look at the engine.

Equipment: Standby Generator **Assigned to:** Keenan Murray 858-586-2646 858-586-2646

Detailed descritption: -

Final Disposition: -

Legacy Reference ID: - **Variance Requested:** -

Contacts

64026606	Inspection Contact		,		,	858-467-4600
64026607	APCD PTO Mailing	5555 Overland Ave Bldg 2 MS 0366	San Diego, CA	92123	Environmental, Manager	
64026608	APCD Equipment Location	5255 Mt Etna Drive	San Diego, CA	92117	Facility, Director	8586944497
64026609	APCD Invoice Mailing	5560 Overland Ave., Ste 410	San Diego, CA	92123	Ronald, Rudd	8588943421
64026612	APCD Breakdown Contact	5255 Mt Etna Drive	San Diego, CA	92117	,	619-517-6251

Inspection	Date	Inspector	Status
Breakdown Inspection	2/9/2018	Keenan Murray	Completed
Breakdown Inspection	2/20/2018	Keenan Murray	Completed

Adrian Olivares

From: Munoz, Cleo@Waterboards <Cleo.Munoz@Waterboards.ca.gov>
Sent: Thursday, March 21, 2019 3:30 PM
To: Adrian Olivares
Subject: RE: Mt Enta PR Request

Good Afternoon Adrian,

We could not find any records for the addresses requested.

Sincerely,

Cleo Munoz

San Diego Regional Water Quality Control Board

2375 Northside Drive, Suite 100

San Diego, CA 92108

(619) 516-1990

From: Adrian Olivares <aolivares@ninyoandmoore.com>
Sent: Thursday, March 21, 2019 2:26 PM
To: RB9_Records, WB@Waterboards <rb9_records@waterboards.ca.gov>
Subject: Mt Enta PR Request

See attached request.

Thanks,

Adrian Olivares
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road | San Diego, CA 92123
(858) 576-1000 (**x11257**) | (858) 254-5611 (Cell)
www.ninyoandmoore.com

30 Years of Quality Service

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

California Regional Water Quality Control Board
San Diego Region

PUBLIC RECORDS ACCESS REQUEST FORM

1. Requestor Information

Requester Name: ADRIAN OLIVARES			
Organization: NINYO & MOORE			
Address: 5710 RUFFIN ROAD			
City: SAN DIEGO	**State:** CA	**Zipcode:** 92123	**E-Mail Address** aolivares@ninyoandmoore.com
Daytime Phone: (858) 576- 1000 ext. 11257	**Cell Phone:**		**Fax** (858) 576- 9600

2. Request For Appointment to Inspect Regional Board Records

Date of Request *(The date you submitted this form to the Regional Board)* **March 8, 2019**	**Day and Appointment Time for Record Review (optional -** *You may specify the day of the week and appointment time that works best for you)*	**Any day** Preferred d*ay of the week*	**Any time** *Preferred Tine*

For Regional Board Office Use Only

Request Form Received by: **Phone** ☐ **Mail** ☐ **E-mail** ☐ **Fax** ☐ **Walk-In** ☐

Date Form Received _____ *RWQCB Staff Initials:* _____	**Date Requester Contacted:** _____ *RWQCB Staff Initials:* _____	**Date / Time of Appointment:** _____ *RWQCB Staff Initials:* _____
Date Copies Requested _____ *RWQCB Staff Initials:* _____	**Copy Fee :** _____ **Check #:** *RWQCB Staff Initials:* _____	**Date Copies Mailed:** _____ *RWQCB Staff Initials:* _____

3. Description of Public Records Requested

Record 1

Agency/ Owner Name (if known):		**Facility Name (if Known)**
Facility Address (if known): 5255 MT. ETNA DRIVE		
City (if known): SAN DIEGO	**State:** CA	**Zipcode (if known):** 92117
Public Record Subject (if known): Select a subject from list here		
Time Period (if known): *Please specify either "Most current volume of record" or what portion of record in terms of approximate start date (month/ year) and approximate end date (month /year) you are interested in.* Most current volume of record: ☒ or Start Date (mm/yyyy): _____ and End Date (mm/yyyy): _____		
Additional Information: *If a particular document is required, it should be identified precisely, preferably by date and title. If you cannot identify a specific record clearly explain your needs:* _____		
For Regional Board Office Use Only	**Records Located:** ☐	**File Records Not Located:** ☐ **Records Exempt From Public Review:** ☐

Adrian Olivares

From: Champassak, Sourinh <SChampassak@SANDIEGO.GOV>
Sent: Monday, March 11, 2019 7:12 AM
To: Adrian Olivares
Subject: RE: Info Request - Mt Etna

Hello,

This address was not found in our system and no records exist.

regards,

Sourinh Champassak
Industrial Wastewater Pretreatment Inspector
City of San Diego
Public Utilities Department

T (858) 654-4119
sandiego.gov

~ A world-class city for all ~

CONFIDENTIAL COMMUNICATION
This electronic mail message and any attachments are intended only for the use of the addressee(s) named above and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If you are not an intended recipient, or the employee or agent responsible for delivering this e-mail to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you received this e-mail message in error, please immediately notify the sender by replying to this message or by telephone. Thank you.

From: Adrian Olivares <aolivares@ninyoandmoore.com>
Sent: Friday, March 08, 2019 10:57 AM
To: Champassak, Sourinh <SCHAMPASSAK@SANDIEGO.GOV>
Subject: Info Request - Mt Etna

Hi Sourinh,

Please see attached request.

Thanks,

Adrian Olivares
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road | San Diego, CA 92123
(858) 576-1000 (**x11257**) | (858) 254-5611 (Cell)



INDUSTRIAL WASTEWATER CONTROL PROGRAM INFORMATION REQUEST

Complete top portion and return to:

Industrial Wastewater Control Program
9192 Topaz Wy, MS 901D
San Diego, CA 92123-1119

Phone: (858) 654-4100
Fax: (858) 654-4110

Requester Information:

Name Adrian Olivares aolivares@ninyoandmoore.com

Company Ninyo & Moore

Address 5710 Ruffin Road

San Diego, California 92123

Phone (858) 576-1000 x 11257 Fax (858) 576-9600

Site Information:

Address 5255 Mt. Etna Drive, San Diego, CA 92117

For IWCP Use Only

A search of our records was conducted and the following information about the above site was found:

Permit # _____ Issued _____/_____/_____

Permittee Name _____

Category _____ Permitted flow _____

Description of permitted wastestream: _____

Violations: _____

Other Information: _____

_____ The above permit was inactivated on _____/_____/_____ due to ownership change, facility closure, or other significant changes in operations.

_____ No permit on file.

Inspector _____ Date _____

The above information is meant only to provide an overview of permitted industrial discharges to the sewer system. For additional information about environmental permits held by this facility, you may wish to contact the Hazardous Materials Management Division at (619) 338-2284 or the Air Pollution Control District at (858) 586-2650.

The City of SAN DIEGO

Fire-Rescue Department
Community Risk Reduction Division

April 4, 2019

Adrian Olivares
Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123

Dear Ms. Olivares:

I am responding to your records research request.

YES Fire inspection reports and related documents were found on the addresses below:

- **5255 MT ETNA DRIVE SAN DIEGO CA 92117**

For information regarding current chemical inventories, please contact:

County of San Diego
Department of Environmental Health
5500 Overland Avenue, San Diego, CA 92123
858-505-6700 or 800-253-993

If you have any questions, please contact me at (619) 533-4867.

Debbie Ahern
Clerical Assistant II

Enclosures

THE CITY OF SAN DIEGO

REQUEST FOR TECHNICAL SERVICES PERMIT INFORMATION

Permit information requests cost **$5.00 per address**. Checks must be made payable to the "**CITY TREASURER**."

BUSINESS NAME: Ninyo & Moore

YOUR NAME: Adrian Olivares

STREET: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP CODE: 92123

TELEPHONE: 858-576-1000 x 11257 FAX: 858-576-9600

E-MAIL: aolivares@ninyoandmoore.com

Site Address: 5255 Mt. Etna Drive, San Diego, CA 92117

Site Address: _____

Site Address: _____

Site Address: _____

Site Address: _____

Report(s) to be: *Mailed: _____ Picked-up: _____ E-Mailed: X

Please return this form along with your payment to:

SAN DIEGO FIRE RESCUE/CRRD
ATTENTION: RECORDS CLERK
1970 B STREET BLDG 30 MS 603
SAN DIEGO CA 92102

*** Documents can be mailed if a stamped self-addressed envelope is mailed to us.**

FIRE DEPARTMENT USE

Amount Received: 5.00

Receipt #: 07176488

Check #: 194581

Initials: DM

Date: 4/3/19

Print Form

SCAN ✓

CITY OF SAN DIEGO

FIRE & LIFE SAFETY SERVICES

1010 SECOND AVENUE, SUITE #300
SAN DIEGO, CA 92101
PHONE: 533-4177 / 533-4449

FIMS FILE #: 9100121I-15
PERMIT/APPL. NO. TAO4072
RECEIPT # 1308426 / 20
DATE RECEIVED 5/6/04

Hazardous Material Permit Application (Fire Dept.)

1308552 / 178

SITE ADDRESS

NAME (OR NAME OF BUSINESS): County of San Diego Crime Lab
ADDRESS (NUMBER) (STREET): 5255 Mount Etna Drive
CITY: San Diego | ZIP: 92111 | TELEPHONE NO.: 619-694-4497

CONTRACTOR

NAME (IF NOT OWNER): Jenal Engineering Corporation
MAILING ADDRESS (NUMBER) (STREET): P. O. Box 459
CITY: Lemon Grove | ZIP: 91949 | TELEPHONE NO.: 619-697-2200
PROVIDE CONTRACTOR LICENSE: A-602806

OWNER

NAME (IF NOT OWNER): County of San Diego Gen'l Services
MAILING ADDRESS (NUMBER) (STREET): 5255 Mount Etna Drive
CITY: San Diego | ZIP: 92111 | TELEPHONE NO.: 858-565-5255
SIGNATURE (OWNER OR AGENT) REQUIRED: [signature] | DATE SIGNED: 5-3-04
CELLULAR PHONE NUMBER: 619-954-0228 | FAX NUMBER: 619-697-2400

COMPENSATION/LIABILITY INSURANCE:
(OF CONTRACTOR OR OWNER) PROOF REQUIRED FOR EACH APPLICATION

NO. OF TANKS	WORK PERFORMED: NEW, REMOVED, ETC.	TANK CAPACITY GALLONS (Pressurized Gas Cylinders in cu. ft.)	TYPE OF HAZARDOUS MATERIAL STORED OR USED	TYPE OF STORAGE: ABOVE GROUND, BELOW GROUND	TYPE OF SUPPLY: PUMP, PRESSURE, INTERNAL PRESSURE, OR GRAVITY	DISTANCE INSTALLED FROM BUILDING	DISTANCE INSTALLED FROM PROPERTY LINE
1	SB989	1000-gallon	Diesel	Below	Suction	Approx. 20'	Approx. 20'

OTHER HAZARDOUS MATERIALS:
SOIL REMEDIATION:

REPIPE: SB989 Upgrades - Replace FOS line, FOR line, and containment line. Remove old pipe. Install 12" containment basin per City of San Diego Fire Department instructions.

MEDICAL GAS / COMPRESSED GAS SYSTEM:

COMMENTS:

FIRE DEPARTMENT USE ONLY

DATE	INSPECTOR'S NAME	COMMENTS
4/9/04	E. SADDEN	FINAL PASS

1. White Copy – Permit
2. Canary Copy – Office File (HMM)
3. Pink Copy – Records
4. Goldenrod Copy – Permittee's Receipt

APPLICATION APPROVED:
DEPUTY FIRE MARSHAL
DATE

FPB-365 (Rev. 11-00) *This information is available in alternative formats upon request.*

A 1144

CITY OF SAN DIEGO
FIRE DEPARTMENT
525 B STREET, SAN DIEGO, CA 92101
Phone 533-4477

APPLICATION FOR PERMIT TO INSTALL, REMOVE OR ABANDON HAZARDOUS MATERIAL STORAGE TANKS

OWNER
NAME (OR NAME OF BUSINESS): COUNTY OF SAN DIEGO
MAILING ADDRESS (NUMBER) (STREET): Bld 2 Room 220 5555 OVERLAND AVE
CITY: SAN DIEGO ZIP: 92123 TELEPHONE NO.:

CONTRACTOR
NAME (IF NOT OWNER): William Reynolds Const Co Inc
MAILING ADDRESS (NUMBER) (STREET): 7959 LEMON GROVE WAY
CITY: LEMON GROVE ZIP: 91945 TELEPHONE NO.: 589-8500

SITE ADDRESS
NAME (IF NOT OWNER): CLAIRMONT HOSPITAL
MAILING ADDRESS (NUMBER) (STREET): 5255 MT ETNA
CITY: SAN DIEGO ZIP: 92117 TELEPHONE NO.:

SIGNATURE (OWNER OR AGENT): Wm. Reynolds
DATE SIGNED: 8-12-91
PRINT NAME: William Reynolds
DATE RCVD. (FIRE DEPT.):

NO. OF TANKS	WORK PERFORMED: NEW, REMOVED, ETC.	TANK CAPACITY GALLONS	TYPE OF HAZARDOUS MATERIAL STORED	TYPE OF STORAGE: ABOVE GROUND BELOW GROUND	TYPE OF SUPPLY: PUMP OR PRESSURE	DISTANCE INSTALLED FROM BUILDING	DISTANCE INSTALLED FROM PROPERTY LINE
1	Remove	1000 GAL	Diesel	Below	Suction	10'	10'

FIRE DEPARTMENT USE ONLY

DATE	INSPECTOR	COMMENTS:
9/3	Bono	LEL 0% TANK REMOVED NO PERMIT
		ISSUED UNTIL FEE PAID
3/6/92	SHOA	NOTIFIED MONIES DUE OLD FEE.

APPLICATION APPROVED:

DEPUTY FIRE MARSHAL

DATE

FPB-365 (1-89)

CITY OF SAN DIEGO
FIRE DEPARTMENT
525 B STREET, SAN DIEGO, CA 92101
Phone 533-4477

PERMIT/APPL. NO.: _____

APPLICATION FOR PERMIT TO INSTALL, REMOVE OR ABANDON HAZARDOUS MATERIAL STORAGE TANKS

OWNER

NAME (OR NAME OF BUSINESS): County of San Diego
MAILING ADDRESS (NUMBER) (STREET): 5555 Overland Ave
CITY: San Diego | ZIP: 92123 | TELEPHONE NO.: 694-2046

CONTRACTOR

NAME (IF NOT OWNER): William Reynolds Const Co Inc.
MAILING ADDRESS (NUMBER) (STREET): 7959 Lemon Grove Way
CITY: Lemon Grove | ZIP: 91945 | TELEPHONE NO.: 589-8500

SITE ADDRESS

NAME (IF NOT OWNER): Clairmont Hospital
MAILING ADDRESS (NUMBER) (STREET): 5255 Mt Etna Dr
CITY: San Diego | ZIP: 92117 | TELEPHONE NO.: No Phone

SIGNATURE (OWNER OR AGENT): Will Reynolds | DATE SIGNED: 5-14-92
PRINT NAME: William Reynolds | DATE RCVD. (FIRE DEPT.):

NO. OF TANKS	WORK PERFORMED: NEW, REMOVED, ETC.	TANK CAPACITY GALLONS	TYPE OF HAZARDOUS MATERIAL STORED	TYPE OF STORAGE: ABOVE GROUND BELOW GROUND	TYPE OF SUPPLY: PUMP OR PRESSURE	DISTANCE INSTALLED FROM BUILDING	DISTANCE INSTALLED FROM PROPERTY LINE
1	Remove	500 Gal	Diesel	Below	Suction	10'	80'

FIRE DEPARTMENT USE ONLY

DATE	INSPECTOR	COMMENTS:

APPLICATION APPROVED:

_____
DEPUTY FIRE MARSHAL

County of San Diego

ELISE ROTHSCHILD
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 565-5173 Fax: (858) 694-3670
www.sdcdeh.org

AMY HARBERT
ASSISTANT DIRECTOR

August 15, 2018

Ms. Andrea Wing
Equilon Enterprises LLC
20945 S. Wilmington Ave
Carson, CA 90810

Mr. Carlos Tavares
Carlos Tavares JR Trust
P.O. Box 26
Coalville, UT 84017

Dear Responsible Parties:

UNAUTHORIZED RELEASE H03207-002
FORMER GENESEE SHELL STATION
4303 GENESEE AVENUE, SAN DIEGO, CA 92117

This letter confirms the completion of a site investigation and corrective action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks is greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tanks site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code, and that no further action related to the petroleum release at the site is required.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact Ewan Moffat, at (858) 505-6856, if you have questions regarding this matter.

Sincerely,

Elise Rothschild

ELISE ROTHSCHILD, REHS
Director, Department of Environmental Health

Enclosure: Case Closure Summary

cc: Mr. Sam Haber and Ms. Jennifer Nobui, AECOM

UST Case Closure Summary Form

Agency Information **Date: August 10, 2018**

Agency Name: County of San Diego, Department of Environmental Health	Address: 5500 Overland Avenue, Suite 110
City/State/Zip: San Diego, CA 92123	Phone: (858) 505-6856
Staff Person: Ewan Moffat	Title: Hydrogeologist

Case Information:

Facility Name: Former Genesee Shell		
Facility Address: 4303 Genesee Ave., San Diego, CA 92117		
RB LUSTIS Case No: 9UT3868	Local Case No.: H03207-001	LOP Case No.: N/A
URF Filing Date: 7/19/99	Sweeps No.: N/A	
Responsible Party(s):	Address:	Phone:
Ms. Andrea Wing c/o Equilon Enterprises LLC	20945 S. Wilmington Ave., Carson, CA 90810	(323) 291-9595
Carlos Tavares J JR TR	P.O. Box 26, Coalville, UT 84017	

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
T001	500	Used Oil	Removed	3/19/99
T002	12,000	Gasoline (Unleaded)	Removed	10/14/99
T003	12,000	Gasoline (Unleaded)	Removed	10/14/99
T004	12,000	Gasoline (Unleaded)	Removed	10/14/99

Conceptual Site Model: The GeoTracker CSM Report is attached.

Closure Criteria Met: The GeoTracker Low-Threat Case Closure Policy [LTCP] Checklist is attached.

Optional Site maps: Six figures are attached.

Additional Information:

Comments:

This site is currently a vacant building and fenced off lot. This case was opened in March 1999 due to elevated soil samples noted during the removal of a 500 gallon used oil Underground Storage Tank (UST). On October 1999, the remaining USTs (Three 12,000-gallon gasoline USTs), dispensers and piping were all removed and the facility ceased operations as a service station. Approximately 500 tons of soil and 18,000 gallons of impacted water were removed during both UST removals.

From December 1999 to November 2013, 20 groundwater monitoring wells were installed, at which time the groundwater plume was delineated. Approximately 308 gallons of impacted groundwater and Separate Phase Hydrocarbons (SPH) have been removed by bailing during this time. The majority of the groundwater impacts were limited to the site and the offsite area about 200 feet northeast, which is solely a large parking area for the adjacent shopping complex. The attached Figures 8 and 9 from the May 2018 Corrective Action Plan Addendum and Request for Case Closure (CAPA) provide the most recent distribution of dissolved contamination levels at the site.

UST Case Closure Summary Form

Additional Information: Date: August 10, 2018 H03207-001

Comments (Continued):

In December 1999, a Soil Vapor Extraction (SVE) pilot test was performed. No significant vacuums were noted in observation wells located 20 feet away from the extraction wells.

A soil vapor assessment in January 2003 revealed no excess cancer risks for occupants of the onsite building. Benzene was calculated to have an excess carcinogenic risk of 9.14×10^{-7}, which is less than the acceptable 1.0×10^{-6} excess carcinogenic risk.

A June 2015 Corrective Action Plan (CAP) was submitted for monitored natural attenuation (MNA) followed by case closure when adequate plume stability had been determined via MNA. The CAP was approved by DEH and the 60-day notification period ended with one comment received from Mr. Max Younan, who identified himself as a nearby property owner on whose property at least one monitoring well was located. He asked if the CAP would affect him. AECOM informed Mr. Younan that the CAP described how groundwater monitoring for the case would continue as it had in the recent past. Mr. Younan was satisfied with the answer. Following two years of monitoring, the May 2018 CAPA was submitted. The CAPA proposed natural attenuation because:

- The plume is stable and decreasing.
- No SPH remains on the groundwater.
- There are no supply wells within a ½ mile of the site.
- Groundwater is designated as having no beneficial uses.
- All utilities are above the groundwater table, which is at an average of 50 feet bgs
- There are no health risks based the November 2003 soil vapor sampling report.
- Based on degradation analyses, it is estimated that benzene in groundwater will degrade to the Water Quality Objective (WQO) of 46 ug/l by 2069. Based on mass balance, the mass would reach zero kilograms of benzene by 2090.
- MtBE is currently below the primary WQO of 1,800 ug/l.

The following tables provide the maximum and residual concentrations of the contaminants of concern (COCs) historically reported at the site

Maximum Concentrations	SPH (Feet)	TPH-g	Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE	DIPE	TBA
Groundwater (ug/l)	0.06'	780,000	180,000	170,000	11,000	95,000	1,900	2,100	10,000
Soil (mg/kg)		16,000	170	640	190	1,100	12*	<0.01	2.8

Residual Concentrations	SPH (Feet)	TPH-g	Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE	DIPE	TBA
Groundwater (ug/l)	0.0'	110,000	19,000	18,000	2,700	14,000	1,700	1,300	6,300
Soil (mg/kg)		16,000	170	640	190	1,100	12*	<0.01	2.8

*EPA Method 8021

Approximately 11,778 cubic yards of soil remain on site with concentrations over 100 mg/kg TPH. This soil is located in the southern (lower) and northern (former UST) portion of the property from 10 – 50 feet bgs, per the attached Figures 12 – 15 of the May 7, 2018 TPHg in Soil document. DEH concurs with the consultant's conclusions and approves case closure.

ANY CONTAMINATED SOIL EXCAVATED AS PART OF SUBSURFACE CONSTRUCTION WORK MUST BE MANAGED IN ACCORDANCE WITH THE LEGAL REQUIREMENTS AT THAT TIME.

Permit #DEH2018-LMWP-003546 was issued by DEH for destruction of the 22 wells (including 3 SVE wells) associated with the site.

Local Agency Representative

Name: Ewan Moffat, PG 7207, CHg 972	Title: Hydrogeologist
Signature: Ewan M	Date: 8/15/18



GENESEE SHELL (T0607302627) - MAP THIS SITE

PUBLIC PAGE

4303 GENESEE AV
SAN DIEGO , CA 921174902
SAN DIEGO COUNTY
LUST CLEANUP SITE (INFO)
STATUS: OPEN - SITE ASSESSMENT

PERTINENT INFORMATION:
CUF Claim #: 16195 CUF Priority Assigned: D CUF Amount Paid: $0

CLEANUP OVERSIGHT AGENCIES
SAN DIEGO COUNTY LOP (LEAD) - CASE #: H03207-001 - EWAN MOFFAT
SAN DIEGO RWQCB (REGION 9) - CASE #: 9UT3868

Activities Report | Documents | Data | Environmental Conditions | Admin | Funding | Case Reviews

THIS PROJECT WAS LAST MODIFIED BY EWAN MOFFAT ON 8/15/2018 4:14:28 PM - HISTORY

CSM REPORT - VIEW PUBLIC NOTICING VERSION OF THIS REPORT

UST CLEANUP FUND CLAIM INFORMATION (DATA PULLED FROM SCUFIIS)

CLAIM NO	PRIORITY	CLAIMANT	SITE ADDRESS	AMT REIMB TO DATE	AGE OF LOC	IMPACTED WELLS?	FIVE YEAR REVIEW INFORMATION				
							REVIEW NUM	REVIEWER	FUND RECOMMENDATION	TO OVERSIGHT DATE	TO CLAIMANT DATE
16195	D	EQUILON ENTERPRISES LLC 20945 SOUTH WILMINGTON AVENUE, CARSON CA 90810	4303 GENESEE AVENUE SAN DIEGO, CA 92109				1	Ramesh Sundareswaran			

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - MAP THIS SITE

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
GENESEE SHELL (Global ID: T0607302627) 4303 GENESEE AV SAN DIEGO, CA 921174902	Open - Site Assessment	7/7/2009	3/19/1999	19	SAN DIEGO COUNTY LOP (LEAD) - CASE #: H03207-001 CASEWORKER: EWAN MOFFAT SUPERVISOR: COLLEEN HINES SAN DIEGO RWQCB (REGION 9) - CASE #: 9UT3868

STAFF NOTES (INTERNAL)
- Complaint Date: 19-MAR-99

SITE HISTORY

This site is currently a vacant building and fenced off lot. This case was opened in March 1999 due to elevated soil samples noted during the removal of a 500 gallon used oil Underground Storage Tank (UST). On October 1999, the remaining USTs (Three 12,000-gallon gasoline USTs), dispensers and piping were all removed and the facility ceased operations as a service station. Approximately 500 tons of soil and 18,000 gallons of impacted water were removed during both UST removals.

From December 1999 to November 2013, 20 groundwater monitoring wells were installed, at which time the groundwater plume was delineated. The majority of the groundwater impacts were limited to the site and the offsite area about 200 feet northeast, which is solely a large parking area for the adjacent shopping complex. Figures 8 and 9 from the May 2018 Corrective Action Plan Addendum and Request for Case Closure (CAPA) provide the most recent distribution of dissolved contamination levels at the site.

In December 1999, a Soil Vapor Extraction (SVE) pilot test was performed. No significant vacuums were noted in observation wells located 20 feet away from the extraction wells.

A soil vapor assessment in January 2003 revealed no excess cancer risks for occupants of the onsite building. Benzene was calculated to have an excess carcinogenic risk of 9.14 x 10-7, which is less than the acceptable 1.0 x 10-6 excess carcinogenic risk.

A June 2015 Corrective Action Plan (CAP) was submitted for monitored natural attenuation (MNA) followed by case closure when adequate plume stability had been determined via MNA. The CAP was approved by DEH and the 60-day notification period ended with one comment received from Mr. Max Younan, who identified himself as a nearby property owner on whose property at least one monitoring well was located. He asked if the CAP would affect him. AECOM informed Mr. Younan that the CAP described how groundwater monitoring for the case would continue as it had in the recent past. Mr. Younan was satisfied with the answer. Following two years of monitoring, the May 2018 CAPA was submitted. The CAPA proposed natural attenuation because:

- The plume is stable and decreasing.
- No Separate Phase Hydrocarbons remain on the groundwater.
- There are no supply wells within a ½ mile of the site.
- Groundwater is designated as having no beneficial uses.
- All utilities are above the groundwater table, which is at an average of 50 feet bgs
- There are no health risks based the November 2003 soil vapor sampling report.
- Based on degradation analyses, it is estimated that benzene in groundwater will degrade to the Water Quality Objective (WQO) of 46 ug/l by 2069. Based on mass balance, the mass would reach zero kilograms of benzene by 2090.
- MtBE is currently below the primary WQO of 1,800 ug/l.

Approximately 11,778 cubic yards of soil remain on site with concentrations over 100 mg/kg TPH. This soil is located in the southern (lower) and northern (former UST) portion of the property from 10 – 50 feet bgs, per Figures 12 – 15 of the May 7, 2018 TPHg in Soil document.

ANY CONTAMINATED SOIL EXCAVATED AS PART OF SUBSURFACE CONSTRUCTION WORK MUST BE MANAGED IN ACCORDANCE WITH THE LEGAL REQUIREMENTS AT THAT TIME.

DEH concurs with the consultant's conclusions and approves case closure.

Permit #DEH2018-LMWP-003546 was issued by DEH for destruction of the 22 wells (including 3 SVE wells) associated with the site.

RESPONSIBLE PARTIES

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
ANDREA WING	Shell Oil Products US	20945 S. WILMINGTON AVE	CARSON	andrea.wing@shell.com

CLEANUP ACTION INFO

ACTION TYPE	BEGIN DATE	END DATE	PHASE	CONTAMINANT MASS REMOVED	DESCRIPTION
FREE PRODUCT REMOVAL	12/15/1999	11/15/2013	Water	308 Gallons	Hand bailing of wells.
EXCAVATION	10/14/1999	10/14/1999	Soil, Water	450 Tons / 18,000 Gallons	
EXCAVATION	3/19/1999	3/19/1999	Soil	50 Tons	

RISK INFORMATION — VIEW LTCP CHECKLIST — VIEW PATH TO CLOSURE PLAN — VIEW CASE REVIEWS

CONTAMINANTS OF CONCERN	CURRENT LAND USE	BENEFICIAL USE	DISCHARGE SOURCE	DATE REPORTED	STOP METHOD	NEARBY / IMPACTED WELLS
Waste Oil / Motor / Hydraulic / Lubricating	Commercial	GW - No Beneficial Use, SW - Non-Contact Water Recreation, SW - Warm Freshwater Habitat, SW - Water Contact Recreation, SW - Wildlife Habitat	Dispenser, Piping, Tank	3/19/1999	Close and Remove Tank	0

FREE PRODUCT	OTHER CONSTITUENTS	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE	MOST RECENT CLOSURE REQUEST
NO	NO	City of San Diego	4/17/2018	5/7/2018	2/2/2018		4/6/2018

CDPH WELLS WITHIN 1500 FEET OF THIS SITE
NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

APN	GW BASIN NAME	WATERSHED NAME
No APN Found		Penasquitos - Tecolote (906.50)

COUNTY: San Diego

PUBLIC WATER SYSTEM(S)
- METROPOLITAN WATER DIST. OF SO. CAL. - P.O. BOX 54153, LOS ANGELES, CA 90054

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER - HIDE — VIEW ESI SUBMITTALS

FIELD PT NAME	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
MW-10	11/2/2017	OTHER	220 UG/L	ND	3.6 UG/L	ND	ND	600 UG/L
MW-11	11/2/2017	OTHER	1.4 UG/L	ND	ND	ND	ND	890 UG/L
MW-11 (POS	1/20/2004	1500 UG/L	6 UG/L	7.4 UG/L	<1 UG/L	OTHER	<3 UG/L	180 UG/L
MW-11 (PRE	1/20/2004	1600 UG/L	6.4 UG/L	8.5 UG/L	<1 UG/L	OTHER	<3 UG/L	70 UG/L
MW-12	11/2/2017	OTHER	900 UG/L	7.6 UG/L	71 UG/L	190 UG/L	ND	ND
MW-12 (POS	1/20/2004	8400 UG/L	1600 UG/L	1900 UG/L	140 UG/L	OTHER	<25 UG/L	<250 UG/L
MW-12 (PRE	1/20/2004	820 UG/L	320 UG/L	2.4 UG/L	<2 UG/L	OTHER	<2 UG/L	<20 UG/L
MW-13	11/2/2017	OTHER	410 UG/L	ND	6.8 UG/L	ND	ND	830 UG/L
MW-13 (POS	1/20/2004	16000 UG/L	3100 UG/L	1700 UG/L	290 UG/L	OTHER	<50 UG/L	<500 UG/L
MW-13 (PRE	1/20/2004	13000 UG/L	2400 UG/L	2800 UG/L	400 UG/L	OTHER	<50 UG/L	<500 UG/L
MW-14	11/2/2017	OTHER	ND	ND	ND	ND	ND	ND
MW-14 (POS	1/20/2004	230 UG/L	3.1 UG/L	1.4 UG/L	<1 UG/L	OTHER	<1 UG/L	<10 UG/L
MW-14 (PRE	1/20/2004	81 UG/L	2.7 UG/L	<1 UG/L	<1 UG/L	OTHER	<1 UG/L	11 UG/L
MW-15	11/2/2017	OTHER	ND	ND	ND	ND	ND	ND
MW-15 (POS	1/20/2004	<50 UG/L	<0.5 UG/L	<1 UG/L	<1 UG/L	OTHER	<1 UG/L	<10 UG/L
MW-15 (PRE	1/20/2004	<50 UG/L	<0.5 UG/L	<1 UG/L	<1 UG/L	OTHER	<1 UG/L	<10 UG/L
MW-16	11/1/2017	OTHER	ND	ND	ND	ND	ND	ND
MW-17	11/1/2017	OTHER	1600 UG/L	ND	ND	250 UG/L	ND	ND
MW-18	11/1/2017	OTHER	1300 UG/L	ND	ND	ND	ND	ND
MW-19	11/1/2017	OTHER	37 UG/L	ND	33 UG/L	ND	ND	380 UG/L
MW-2	11/2/2017	OTHER	3200 UG/L	1500 UG/L	ND	1.5 UG/L	ND	43 UG/L
MW-2 (POST	1/20/2004	18000 UG/L	2400 UG/L	3700 UG/L	550 UG/L	2600 UG/L	ND	ND
MW-2 (PRE	1/20/2004	21000 UG/L	2500 UG/L	2000 UG/L	300 UG/L	OTHER	<25 UG/L	<250 UG/L
MW-20	11/2/2017	OTHER	ND	ND	320 UG/L	OTHER	<25 UG/L	<250 UG/L
MW-21	11/1/2017	OTHER	ND	ND	ND	ND	ND	ND
MW-3	11/2/2017	OTHER	ND	ND	ND	ND	ND	ND
MW-3 (POST	1/20/2004	100000 UG/L	19000 UG/L	18000 UG/L	900 UG/L	8900 UG/L	ND	4200 UG/L
MW-3 (PRE	1/20/2004	82000 UG/L	21000 UG/L	20000 UG/L	1100 UG/L	OTHER	<200 UG/L	2900 UG/L
MW-4	11/2/2017	OTHER	410 UG/L	ND	1100 UG/L	OTHER	<200 UG/L	3700 UG/L
MW-4 (POST	1/20/2004	1900 UG/L	500 UG/L	100 UG/L	ND	41 UG/L	55 UG/L	500 UG/L
MW-4 (PRE	1/20/2004	2200 UG/L	900 UG/L	<10 UG/L	15 UG/L	OTHER	220 UG/L	160 UG/L
MW-5	11/2/2017	OTHER	21 UG/L	ND	<10 UG/L	OTHER	250 UG/L	170 UG/L
MW-5 (POST	1/20/2004	1400 UG/L	180 UG/L	110 UG/L	1.3 UG/L	ND	35 UG/L	180 UG/L
MW-5 (PRE	1/20/2004	2300 UG/L	24 UG/L	<2 UG/L	7.2 UG/L	OTHER	<2 UG/L	86 UG/L
MW-6	11/2/2017	OTHER	11000 UG/L	1100 UG/L	<2 UG/L	OTHER	<2 UG/L	65 UG/L
MW-6 (POST	1/20/2004	59000 UG/L	9500 UG/L	13000 UG/L	1200 UG/L	6300 UG/L	ND	ND
MW-6 (PRE	1/20/2004	46000 UG/L	8300 UG/L	11000 UG/L	1100 UG/L	OTHER	<200 UG/L	<2000 UG/L
MW-7	11/2/2017	OTHER	4100 UG/L	260 UG/L	1600 UG/L	OTHER	<200 UG/L	<2000 UG/L
MW-7 (POST	1/20/2004	16000 UG/L	2500 UG/L	3800 UG/L	470 UG/L	3200 UG/L	ND	ND
MW-7 (PRE	1/20/2004	15000 UG/L	3200 UG/L	4800 UG/L	290 UG/L	OTHER	<50 UG/L	<500 UG/L
MW-8	11/2/2017	OTHER	ND	ND	370 UG/L	OTHER	<50 UG/L	<500 UG/L
MW-8 (POST	1/20/2004	290 UG/L	<0.5 UG/L	<1 UG/L	ND	ND	ND	12 UG/L
MW-8 (PRE	1/20/2004	560 UG/L	0.56 UG/L	<1 UG/L	<1 UG/L	OTHER	<1 UG/L	30 UG/L
MW-9	11/2/2017	OTHER	16000 UG/L	6600 UG/L	<1 UG/L	OTHER	<1 UG/L	39 UG/L
MW-9 (POST	1/20/2004	140000 UG/L	20000 UG/L	23000 UG/L	2700 UG/L	14000 UG/L	1700 UG/L	6300 UG/L
MW-9 (PRE	1/20/2004	91000 UG/L	23000 UG/L	26000 UG/L	2600 UG/L	OTHER	<250 UG/L	<2500 UG/L
					2900 UG/L	OTHER	<250 UG/L	<2500 UG/L

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL - HIDE

NO SOIL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

VIEW ESI SUBMITTALS

MOST RECENT GEO_WELL DATA - HIDE

VIEW ESI SUBMITTALS

FIELD PT NAME	DATE	DEPTH TO WATER (FT)	SHEEN	DEPTH TO FREE PRODUCT (FT)
MW-10	11/2/2017	52.2	N	
MW-11	11/2/2017	50.34	N	
MW-12	11/2/2017	58.01	N	
MW-13	11/2/2017	45.03	N	
MW-14	11/2/2017	44.4	N	
MW-15	11/2/2017	46.61	N	
MW-16	11/1/2017	61.1	N	
MW-17	11/1/2017	61.24	N	
MW-18	11/1/2017	58.16	N	
MW-19	11/1/2017	60.58	N	
MW-2	11/2/2017	44.53	N	
MW-20	11/2/2017	56.1	N	
MW-21	11/1/2017	60.32	N	
MW-3	11/2/2017	49.2	N	
MW-4	11/2/2017	43.72	N	
MW-5	11/2/2017	44.71	N	
MW-6	11/2/2017	45.34	N	
MW-7	11/2/2017	57.16	N	
MW-8	11/2/2017	42.91	N	
MW-9	11/2/2017	45.53	N	

GENESEE SHELL (T0607302627) - MAP THIS SITE

PUBLIC FACE

4303 GENESEE Av
SAN DIEGO , CA 921174902
SAN DIEGO COUNTY
LUST CLEANUP SITE (INFO)
STATUS: OPEN - SITE ASSESSMENT

PERTINENT INFORMATION:
CUF Claim #: 18195 CUF Priority Assigned: D CUF Amount Paid: $0

CLEANUP OVERSIGHT AGENCIES
SAN DIEGO COUNTY LOP (LEAD) - CASE #: H03207-001 - EWAN MOFFAT
SAN DIEGO RWQCB (REGION 9) - CASE #: 9UT3868

Activities Report | Documents / Data | Environmental Conditions | Admin | Funding | Case Reviews

THIS PROJECT WAS LAST MODIFIED BY EWAN MOFFAT ON 8/10/2018 12:42:03 PM - HISTORY

CLOSURE POLICY

THIS VERSION IS FINAL AS OF 8/10/2018

CHECKLIST INITIATED ON 3/2/2018

CLOSURE POLICY HISTORY

General Criteria - *The site satisfies the policy general criteria* - CLEAR SECTION ANSWERS — YES

a. Is the unauthorized release located within the service area of a public water system? — YES / NO
Name of Water System: City of San Diego

b. The unauthorized release consists only of petroleum (info). — YES / NO

c. The unauthorized ("primary") release from the UST system has been stopped. — YES / NO

d. Free product has been removed to the maximum extent practicable (info). — FP Not Encountered — YES / NO

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed (info). — YES / NO

f. Secondary source has been removed to the extent practicable (info). — YES / NO

g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15. — Not Required — YES / NO

h. Does a nuisance exist, as defined by Water Code section 13050. — YES / NO

1. Media-Specific Criteria: Groundwater - *The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below.* - CLEAR SECTION ANSWERS — YES

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - Info) — YES / NO

Does the site meet any of the Groundwater specific criteria scenarios? — YES / NO

1.5 - The regulatory agency determines, based on an analysis of site specific conditions, that the site under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame. — YES / NO

2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - *The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c* - CLEAR SECTION ANSWERS — YES

EXEMPTION - Active Commercial Petroleum Fueling Facility — YES / NO

Does the site meet any of the Petroleum Vapor Intrusion to Indoor Air specific criteria scenarios? — YES / NO

2b - Petroleum Vapor Intrusion to Indoor Air - A site-specific risk assessment for the vapor intrusion pathway has been prepared that demonstrates human health is protected to the satisfaction of the regulatory agency. — YES / NO

3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - *The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below.* - CLEAR SECTION ANSWERS — YES

EXEMPTION - The upper 10 feet of soil is free of petroleum contamination — YES / NO

Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios? — YES / NO

3(a) - Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in the following table (LINK) for the specified depth below ground surface. — YES / NO

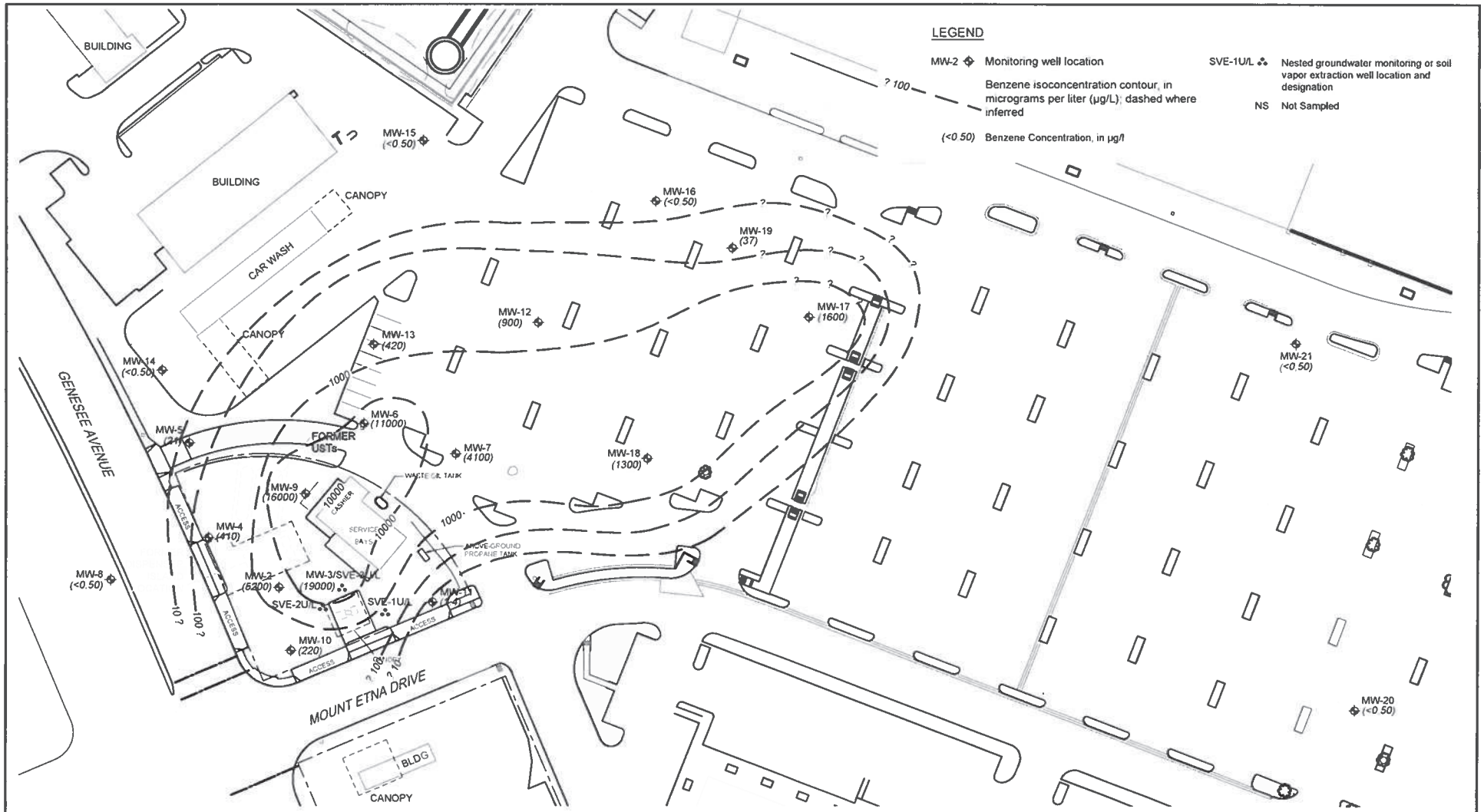
Additional Information

This case should be kept OPEN in spite of meeting policy criteria. — YES / NO

Has this LTCP Checklist been updated for FY 18/19? — YES / NO

SPELL CHECK

Save Form as Partially Completed | Save Form as Complete



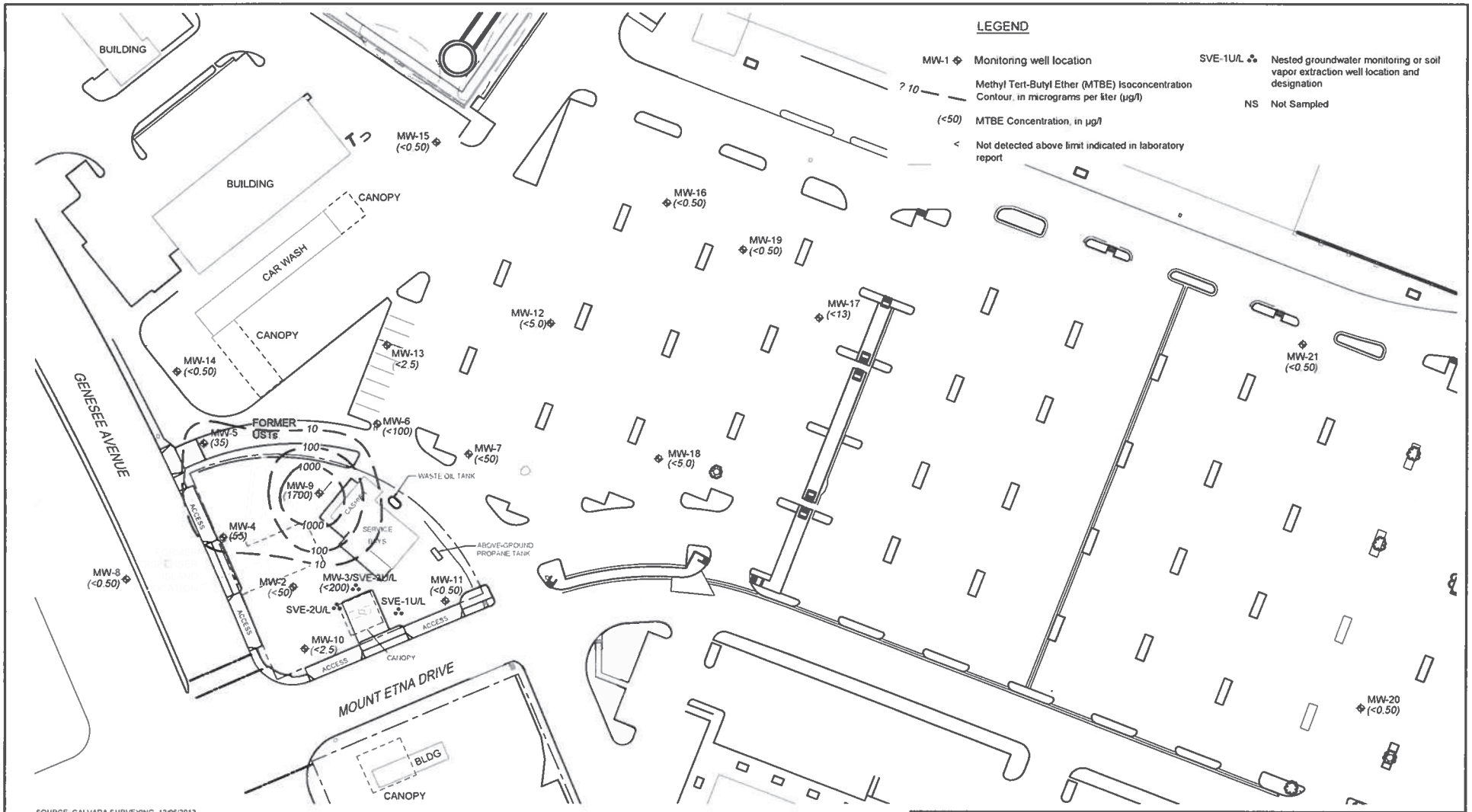
BENZENE ISOCONCENTRATION MAP - NOVEMBER 1-2, 2017
FORMER SHELL SERVICE STATION PLANET ID# 10052425
4303 GENESEE AVENUE, SAN DIEGO, CALIFORNIA

AECOM

30 0 30 60 feet
APPROXIMATE SCALE 1"=60'

CHECKED BY: MB | DATE: 01-03-18 | FIG. NO: 4
PM: SH | PROJ. NO: 60482252

J:\Projects\Shell Oil Products US\60444982_4303 Genes\900-Work\910-CAD\20-Sheets\4Q17\Site Plan_Shell 060639_4Q17-Benzene.dwg Jan 02, 2018 - 2:40pm



SOURCE: CALVADA SURVEYING, 12/06/2013

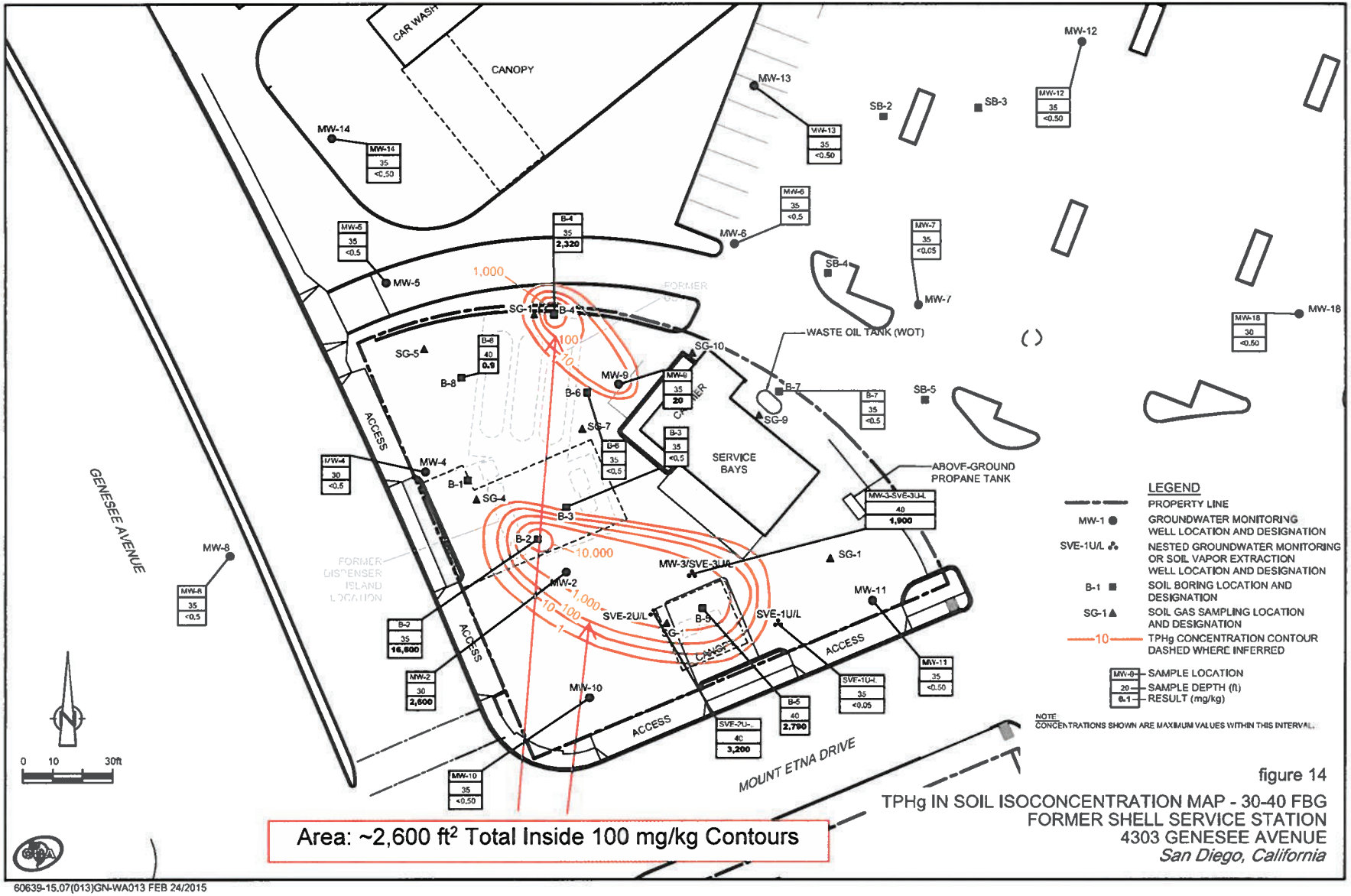
MTBE ISOCONCENTRATION MAP - NOVEMBER 1-2, 2017
FORMER SHELL SERVICE STATION PLANET ID# 10052425
4303 GENESEE AVENUE, SAN DIEGO, CALIFORNIA

AECOM

30 0 30 60 feet
APPROXIMATE SCALE 1"=60'

CHECKED BY: MB	DATE: 01-02-18	FIG. NO: 5
PM: SH	PROJ. NO: 60482252	

J:\Projects\Shell Oil Products US\60444982_4303 Genes\900-Work\910-CAD\20-Sheets\4Q17\Site Plan_Shell 060639_4Q17-MTBE.dwg Jan 02, 2018 - 2:52pm



Area: ~2,600 ft² Total Inside 100 mg/kg Contours

figure 14

TPHg IN SOIL ISOCONCENTRATION MAP - 30-40 FBG
FORMER SHELL SERVICE STATION
4303 GENESEE AVENUE
San Diego, California

60639-15.07(013)GN-WA013 FEB 24/2015

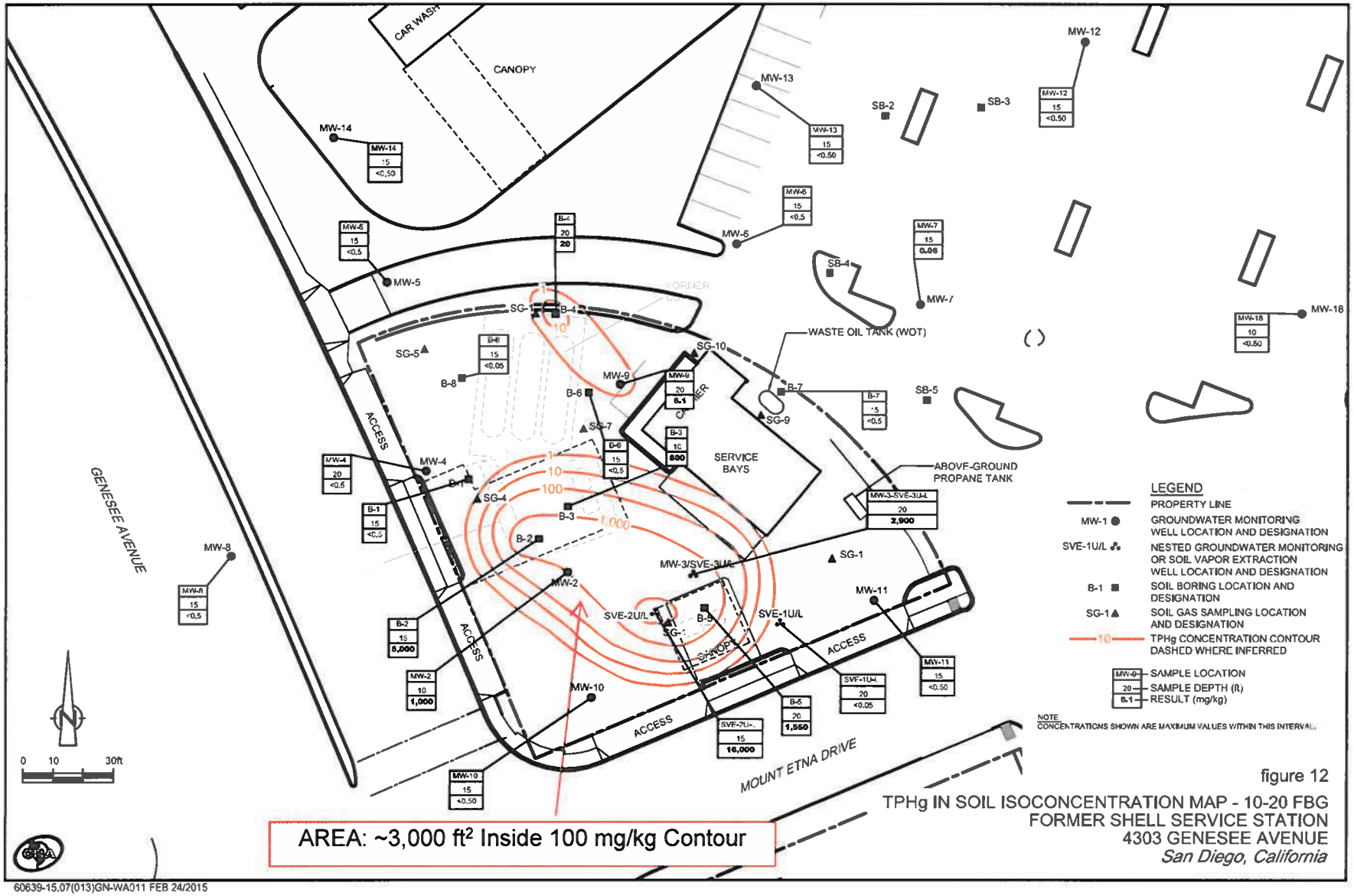


figure 12

TPHg IN SOIL ISOCONCENTRATION MAP - 10-20 FBG
FORMER SHELL SERVICE STATION
4303 GENESEE AVENUE
San Diego, California

60639-15.07(013)GN-WA011 FEB 24/2015

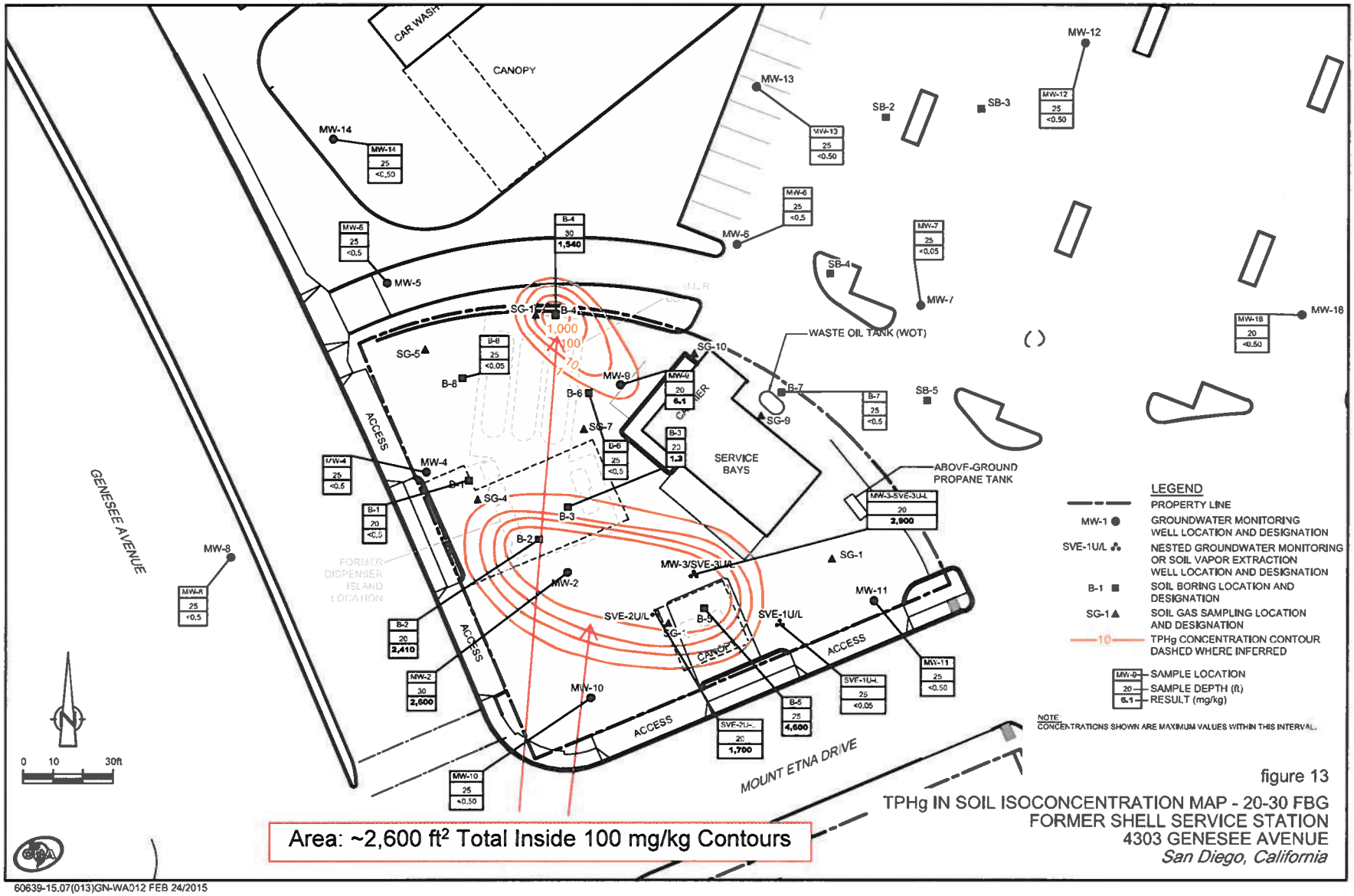
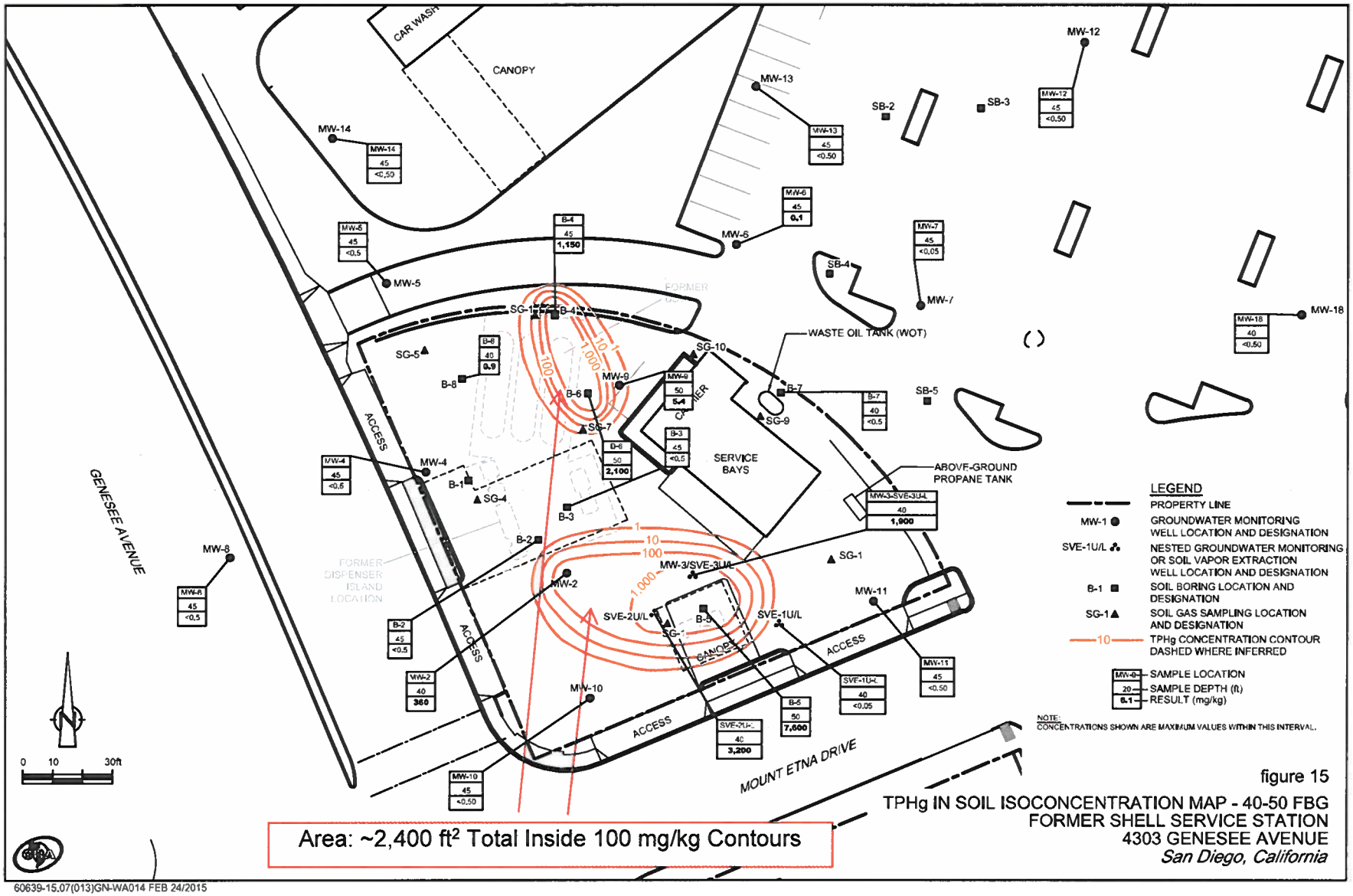


figure 13

TPHg IN SOIL ISOCONCENTRATION MAP - 20-30 FBG
FORMER SHELL SERVICE STATION
4303 GENESEE AVENUE
San Diego, California

60639-15.07(013)GN-WA012 FEB 24/2015



Area: ~2,400 ft² Total Inside 100 mg/kg Contours

figure 15

TPHg IN SOIL ISOCONCENTRATION MAP - 40-50 FBG
FORMER SHELL SERVICE STATION
4303 GENESEE AVENUE
San Diego, California

60639-15.07(013)GN-WA014 FEB 24/2015

JACK MILLER
Director

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 505-6700/1 (800) 253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
Assistant Director

December 6, 2013

Ms. Sharon Evans
Phillips 66
1380 Pablo Avenue
Rodeo, CA 94572

Ms. Trisha Yahner
Circle K Stores Inc.
255 E. Rincon, Suite 100
Corona, CA 92879

Mr. Gerald Lee Bollinger
Genesee Properties LLC
1815 South Myers Street
Oceanside, CA 92054

Dear Responsible Parties:

UNDERGROUND STORAGE TANK (UST) CASE #H29223-001
CIRCLE K STORE NO. 5095
4360 GENESEE AVENUE, SAN DIEGO, CALIFORNIA

This letter confirms the completion of a site investigation and corrective action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks is greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tanks site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code, and that no further action related to the petroleum release at the site is required.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact James Clay, at (858) 505-6969, if you have questions regarding this matter.

Sincerely,

JACK MILLER, Director
Department of Environmental Health
Site Assessment and Mitigation Program

Enclosure

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

DATE: December 6, 2013

Agency Name: County of San Diego, Environmental Health, SAM	Address: P.O. Box 129261
City/State/Zip: San Diego, CA 92112-9261	Phone: (858) 505-6969
Responsible Staff Person: James Clay	Title: Environmental Health Specialist III

II. CASE INFORMATION

Site Facility Name: Circle K Store No. 5095

Site Facility Address: 4360 Genesee Avenue, San Diego, CA

RB LUSTIS Case No: N/A	Local Case No: H29223-001	LOP Case No: N/A
URF Filing Dates: 6/2/2004	SWEEPS No: N/A	

Responsible Parties	Address
Sharon Evans Phillips 66	1380 Pablo Avenue Rodeo, CA 94572
Trisha Yahner Circle K Stores, Inc.	255 E. Rincon, Suite 100 Corona, CA 91709
Gerald Lee Bollinger Genesee Properties LLC	12471 Vista Panorama Santa Ana, CA 92879

Tank No.	Size in Gal.	Contents	Status	Date
T001	10,000	Regular Unleaded	Current	Installed 4/1990
T002	10,000	Premium Unleaded	Current	Installed 4/1990
T003	10,000	Midgrade Unleaded	Current	Installed 4/1990

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause of Release: Release detected during due diligence assessment for a property transfer	Substance Released: Petroleum hydrocarbons	
Site Characterization complete? Yes	Date Approved By Oversight Agency: 10/9/2013	
Monitoring Wells Installed? Yes	Number: 12	Proper Screened Interval? Yes
Highest GW Depth B.G. Surface: 46.45 feet	Lowest Depth: 59.35 feet	Flow Direction: Southeast

Most Sensitive Current Use:

Existing Beneficial Groundwater Use: None - Excepted from Municipal Use

Existing Beneficial Surface Water Use: Water Contact Recreation, Non-Contact Water Recreation, Warm Freshwater Habitat, Wildlife Habitat

Are Drinking Water Wells Affected? No	Aquifer Name: 906.50 – Tecolote Hydrologic Subarea
Is Surface Water Affected? No	Nearest SW name: Tecolote Creek – 1,050 feet north, northwest and west

Off-Site Beneficial Use Impacts (addresses/locations): None

Report(s) on file? Yes	Where is Report(s) Filed? County of San Diego, Environmental Health

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) H29223-001

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal)	Date
Purge Water	Unknown	Crosby & Overton, Inc.	6/2006 – 8/2013

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS

	MAXIMUM	REMAINING
SOIL (mg/kg)		
TPPH	0.59	0.59
Benzene	<0.0050	<0.0050
Toluene	0.1	0.1
Ethylbenzene	0.096	0.096
Total Xylenes	0.47	0.47
MTBE	2.0	2.0
ETBE	<0.0050	<0.0050
DIPE	<0.0050	<0.0050
TAME	0.025	0.025
TBA	3.6	3.6
WATER (µg/l)		
TPHg	13,000	9,500
Benzene	280	<0.50
Toluene	86	<0.50
Ethylbenzene	49	<0.50
Total Xylenes	93	<0.50
MTBE	20,000	8,500
ETBE	1.3	<0.50
DIPE	<0.50	<0.50
TAME	680	110
TBA	39,000	16,000
Ethanol	<250	<250
LIQUID PHASE HYDROCARBONS (feet)	0	0

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) H29223-001

Comments:

The Site is an operating Circle K gasoline service station and minimart. The facility is bounded on the north and east by Genesee Avenue and by a parking lot and strip mall to the south and west. The above-ground structures at the Site consist of a single story building and two fuel dispensers under a single canopy. Below-ground structures consist of three underground storage tanks (USTs) and associated product piping. The Site is surrounded by commercial properties.

In April and May 2004, six soil borings were advanced at the Site as part of a due diligence assessment during property transfer. The four direct-push borings hit refusal before reaching their target depths. Based on the results of the assessment, the Department of Environmental Health (DEH) opened Unauthorized Release Case H29223-001.

Cumulative soil sample analytical data indicate residual hydrocarbon-impacted soil was present primarily beneath the former dispenser islands and from beneath the gasoline USTs. There is no residual soil contamination with concentrations greater than 100 milligrams per kilogram.

Nine groundwater monitoring wells and three remedial wells have been installed at the Site. Groundwater was monitored between June 2006 and August 2013. Liquid-phase hydrocarbons (LPH) have never been present at the Site. Hydrocarbon impacted groundwater at the Site appears to be consistent with a release from the USTs, which have subsequently been upgraded. On-site dissolved-phase petroleum hydrocarbon concentrations generally appear to be stable to declining over time.

The results from the recent installation of two groundwater monitoring wells (MW-8 and MW-9) suggest that the dissolved-phase MTBE plume has migrated offsite to the southeast; however since this area has no beneficial groundwater uses and the depth to groundwater is greater than 40 feet below grade, there is no risk to receptors downgradient. Dissolved-phase petroleum hydrocarbon concentrations in off-site well MW-9 suggest the MTBE and TBA concentrations migrating off-site attenuate with increased distance from the source area.

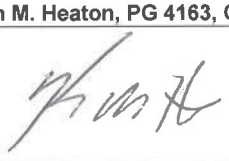
A Corrective Action Plan (CAP) was submitted on January 26, 2010 requesting case closure. The CAP concluded that no active remediation is required to mitigate remaining hydrocarbon impacts beneath the Site. It was proposed that groundwater data be collected during the subsequent four semi-annual monitoring and sampling events to determine groundwater contaminant trends and distribution. The public participation process for the above-referenced CAP was completed. DEH received no public comments and concurred with the CAP.

According to the environmental consultant's registered professional, the Site presents no significant risk to human health and the environment. DEH concurs with this conclusion.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes – No beneficial uses		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes – No beneficial uses		
Does corrective action protect public health for current land use? Yes Case oversight completed based upon the following site use: Gasoline station		
Site Management Requirements: Any contaminated soil excavated as part of subsurface construction work must be managed in accordance with the legal requirements at that time.		
Should corrective action be reviewed if land use changes? Yes		
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 12
List Actions Taken: Notice Of Reimbursement/Local		
List Enforcement Actions Rescinded: None		

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Kevin M. Heaton, PG 4163, CHg 163	Title: Senior Hydrogeologist
Signature: 	Date: 12/6/2013

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

VI. RWQCB NOTIFICATION H29223-001

Date Submitted to RB: N/A – Non-beneficial use	RB Response: N/A	
RWQCB Staff Name: N/A	Title: N/A	Date: N/A

VII. ADDITIONAL COMMENTS, DATA, ETC.

Permit DEH2013-LMWP-000767 has been issued for the destruction of the existing monitoring wells.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

JACK MILLER
Director

County of San Diego

ELIZABETH POZZEBON
Assistant Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 505-6700/1 (800) 253-9933
www.sdcdeh.org

May 7, 2012

Mr. Eric Roehl
Chevron Environmental Management Company
P.O. Box 2292
Brea, CA 92822-2292

Balboa Realty LLC
c/o Balboa Retail Partners
11111 Santa Monica Boulevard
Los Angeles, CA 90025

Dear Responsible Parties:

UNDERGROUND STORAGE TANK (UST) CASE #H12456-003
FORMER CHEVRON STATION NO. 9-0896 5401 BALBOA AVENUE, SAN DIEGO, CA

This letter confirms the completion of a site investigation and corrective action for the underground storage tanks formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks is greatly appreciated.

Based on information in the above referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation carried out at your underground storage tanks site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code, and that no further action related to the petroleum release at the site is required.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact Ellen Beacon at (858) 505-6983, if you have questions regarding this matter.

Sincerely,

JACK MILLER, Director
Department of Environmental Health
Site Assessment and Mitigation Program

Enclosure

JM:eb

Cc: Brian Waite, Stantec Consulting Services H12456-003CLO3-12

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

DATE: May 7, 2012

Agency Name: County of San Diego, Environmental Health, SAM	Address: P.O. Box 129261
City/State/Zip: San Diego, CA 92112-9261	Phone: (858) 505-6700 FAX: (858) 505-6891
Responsible Staff Person: Ellen Beacon	Title: Environmental Health Specialist II

II. CASE INFORMATION

Site Facility Name: Former Chevron Service Station No. 9-0896

Site Facility Address: 5401 Balboa Avenue, San Diego, CA 92112

RB LUSTIS Case No: NA	Local Case No: H12456-003	LOP Case No: N/A
URF Filing Date: 10/5/1993	SWEEPS No: N/A	

Responsible Parties	Address	Phone Number
Chevron Environmental Management Company Attn: Eric Roehl	P.O. Box 2292 Brea, CA 92822-2292	(714) 671-3347
Balboa Realty LLC, C/O Balboa Retail Parters	11111 Santa Monica Boulevard, Suite 340 Los Angeles, CA 90025	(310) 496-4141

Tank No.	Size in Gal.	Contents	Status	Date
T004	1,000	Waste oil	Removed	8/3/1988
T001 - T002	10,000	Gasoline	Removed	9/28/1993
T003	5,000	Gasoline	Removed	9/28/1993
T005 - T007	12,000	Gasoline	Removed	6/3/2004
T008	1,000	Waste oil	Removed	6/3/2004

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause of Release: Leak from underground storage tanks	Substance Released: Gasoline	
Site Characterization complete? Yes	Date Approved By Oversight Agency:	
Monitoring Wells Installed? Yes	Number: 17 Monitoring Wells 15 Vapor Probes	Proper Screened Interval? Yes
Highest GW Depth B.G. Surface: 4.95 feet	Lowest Depth: 17.75 feet	Flow Direction: West

Most Sensitive Current Use: Existing Beneficial Groundwater Use: None
Existing Beneficial Surface Water Use: REC2 and Potential REC1

Are Drinking Water Wells Affected? No	Aquifer Name: Tecolote Hydrologic Area (906.50)
Is Surface Water Affected? No	Nearest SW name: Mount Albertine Creek (0.5 miles to the southeast)

Off-Site Beneficial Use Impacts (addresses/locations): None

Report(s) on file? Yes	Where is Report(s) Filed? County of San Diego, Department of Environmental Health

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) H12456-003

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal)	Date
Tank	1 - UST	Recycled / Unknown Location	8/3/1988
Tanks	4 - USTs	Recycled / AMR, Ontario CA	9/28/1993
Tanks	4 - USTs	Recycled / Ecology Control Industries, Fontana CA	6/3/2004
Soil	1,353 tons (1,000 yd^3 estimated)	Treated / TPS Technologies, Adelanto, CA	10/4/1993 to 10/26/1993
Soil	80 yd^3	Disposed / IT Imperial Facility, Westmoreland, CA	9/21/1988 to 9/22/1988
Soil	2,550 tons (1,887 yd^3 estimated)*	Recycled / Soil Safe of California - TPST, Adelanto, CA	8/18/2011 to 8/26/2011
Soil	1,307 tons (980 yd^3 estimated)*	Disposed / Otay Landfill, CA	9/23/2011 to 9/26/2011
Purge Water	Unknown	Managed in accordance with CFR 40 and Title 22	5/13/1997 to 1/6/2011
LPH/Water	200 gallons	Disposed / Gibson Environmental, Bakersfield, CA	9/28/1993
LPH	1.82 gallons	Disposed / Unknown Location	4/20/1999 to 1/13/2003
LPH/Water	800 gallons	Disposed / Onyx Environmental Services, Azusa, CA	6/3/2004
LPH/Water	200 gallons	Disposed / Siemens Water Technologies, Vernon, CA	1/11/2010
Groundwater	16,572 gallons	Disposed / Safety Kleen, Button Willow, CA	4/26/2001 to 1/28/2002
Groundwater	Unknown	Disposed / Unknown	2/21/2002 to 6/12/2002
Groundwater	80 gallons	Disposed / Unknown Location	8/8/2008
Groundwater	18,437 gallons*	Treated / K-Pure Waterworks, Rancho Cucamonga, CA	8/22/2011 to 9/7/2011
Groundwater	500 gallons*	Treated / Crosby & Overton, Long Beach, CA	9/14/2011
Vapor	181.8 lbs	Treated on-site with thermal oxidizer	4/26/2001 to 4/18/2002
Vapor	7 lbs	Treated on-site with thermal oxidizer	1/7/2010

*Amount treated or disposed under VAP CASE H12456-004

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS

	MAXIMUM	REMAINING
SOIL		
Gasoline	= 7,800 mg/kg	= 2,800 mg/kg***
Diesel	= 320 mg/kg	NA***
Total Recoverable Petroleum Hydrocarbons	= 23 mg/kg	NA***
Benzene	= 120 mg/kg	= 29 mg/kg***
Ethylbenzene	= 350 mg/kg**	= 110 mg/kg***
Toluene	= 890 mg/kg	= 320 mg/kg***
Xylenes	= 1,300 mg/kg	= 430 mg/kg***
Methyl Tertiary Butyl Ether (MTBE)	= 31 mg/kg	= 0.26 mg/kg***
Tert Butyl Alcohol	= 10 mg/kg**	= 6.3 mg/kg***
Tert Amyl Methyl Ether (TAME)	= 0.005 mg/kg	< 2 mg/kg***
VAPOR		
Benzene	= 5,200 ug/l	= 1.0 ug/l***
Ethylbenzene	= 710 ug/l	< 0.50 ug/l***
Toluene	= 10,000 ug/l	< 1.0 ug/l***
Xylenes	= 3,160 ug/l	= 2.55 ug/l***
Methyl Tertiary Butyl Ether (MTBE)	< 200 ug/l	< 0.50 ug/l***
Tert Butyl Alcohol	< 1,000 ug/l	< 5.0 ug/l***
Tert Amyl Methyl Ether (TAME)	= 150 ug/l	< 1.0 ug/l***
WATER		
Gasoline	= 230,000 ug/l	= 210,000 ug/l
Benzene	= 25,000 ug/l	= 23,000 ug/l
Toluene	= 75,000 ug/l	= 59,000 ug/l
Ethylbenzene	= 6,800 ug/l	= 4,800 ug/l
Xylenes	= 47,000 ug/l	= 33,000 ug/l
Methyl Tertiary Butyl Ether (MTBE)	= 4,400 ug/l	= 4,000 ug/l
Tert Butyl Alcohol	= 27,000 ug/l	= 6,600 ug/l
Tert Amyl Methyl Ether (TAME)	= 5 ug/l	< 25 ug/l
Acetone	= 18,000 ug/l	= 1,500 ug/l
Methyl Ethyl Ketone	= 3,200 ug/l	= 800 ug/l
1,2 Dichloroethane	= 4,200 ug/l	= 3,000 ug/l
LIQUID PHASE HYDROCARBONS	0.99 feet	ND

ND – not detected ** = Pre-remediation testing completed under VAP CASE H12456-004
*** = Levels remaining on-site following remediation completed under VAP CASE H12456-004

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) H12456-003

Comments:

This case was opened following the discovery of contaminated soil during the removal of a waste oil underground storage tank (UST) in August 1993 (Former case H12456-001) and the current case was opened following the discovery of contaminated soil during the removal of three gasoline USTs in September 1993. These two cases were combined into H12456-003 on March 19, 2009.

Soil sample data indicated that gasoline contaminated soil was present in the vicinity of the former northern dispenser islands, in the vicinity of the southwestern dispenser island and the product piping lines that connected the two islands. Soil at the northern dispenser islands was impacted from near the surface to a depth of 25 feet and at the southwestern islands from the near surface to a depth of 10 feet. The consultant estimated the total volume of contaminated soil at the site at 748 cubic yards.

Monitoring wells were installed at the site in 1997 and free product was detected in three wells (B2, B4 and EW1) at that time. A total of seventeen monitoring wells were associated with this site. Groundwater monitoring began in May 1997 and continued until April 2011. Two wells (B7 and B10) were destroyed and replaced with new wells in 2004. Free product was last observed in well EW1 in January 2010.

According to the consultant utilities in the vicinity of the site include sewer and storm drain pipes, cable, gas and electrical, phone and water lines. In general, these lines are buried between one and one-half (1.5) and eight (8) feet below grade. Since the depth to groundwater at the site has been as shallow as five feet, the subsurface utilities could be a potential means of migration of contaminants in groundwater. According to the consultant, there has not been any evidence of migration along utility lines.

Limited free-product recovery efforts were made between April 1999 and January 2003 resulting in a total of 1.82 gallons product recovered. In April 2001 a high-vacuum dual-phase extraction (HVDPE) pilot test was completed which removed an estimated 400 gallons of impacted groundwater and 7.8 pound of hydrocarbon vapors. Between April 2001 and April 2002 a total of seven 24-hour and one 72-hour two-phase extraction events (TPE) were completed. The consultant estimated the total mass of hydrocarbons removed through vapor extraction during these TPE events was 167 pounds. The consultant also reported that a total of 16,172 gallons of water were removed during the first five TPE events. An unknown quantity of groundwater was removed during the remaining events. In August 2008 both a step drawdown and constant discharge test was completed on well EW1 with a total of 80 gallons of water being removed. A feasibility test for multiphase extraction was conducted in January 2010 on EW1. An estimated seven pounds of hydrocarbon vapor and 30 gallons of water/free product were removed during this test. Free product was not observed in EW1 following the feasibility test.

A human health risk assessment (HHRA) was conducted in 2006 and benzene concentrations in soil vapor exceeded the DEH excess cancer risk threshold of one-in-one million (1×10^{-6}) at five feet at three vapor probe locations (SV8, SV10, and SV15). This indicated that there was a potential health risk for future on-site development which would require additional mitigation and/or implementation of engineering controls. According to the consultant, there were no other sensitive receptors or surface water bodies with complete exposure pathways that could be impacted by the site.

To mitigate the potential health risk the property owner/developer (owner) decided to proceed with active remediation as previously proposed in a Corrective Action Plan (CAP) dated March 1, 2010 that was rescinded by Chevron on March 17, 2010. This remedial activity was completed under VAP case H12456-004.

Remedial soil excavation at the site was completed under VAP case H12456-004. A total of 3,857 tons of contaminated soil were excavated. A total of 2,550 tons were treated and recycled by Soil Safe of California - TPST in Adelanto and 1,307 tons were disposed at the Otay landfill in Chula Vista. In addition, 18,437 gallons of groundwater were removed during dewatering activities and transported to K-Pure Waterworks facility in Rancho Cucamonga. Following excavation, a soil vapor survey and human health risk assessment was conducted at the site. The estimated excess cancer risks of 2×10^{-8} and hazard values 4.89×10^{-5} were below the DEH threshold values. The consultant concluded that the remediation at the site was successful in eliminating the risks to human health from vapor intrusion.

Prior to the excavation, the groundwater plume was delineated and the maximum concentrations were found at the locations where free product had previously been detected at the former product lines and dispenser areas. Outside of these areas, contaminant concentrations in groundwater were either low or not detected. According to the consultant the plume had high concentrations of contaminants in the impacted area, however the contaminant concentrations appeared to be stable and/or contracting. Groundwater beneath the site is classified as having no beneficial uses. There has not been free product detected at the site since January 2010. The contaminated soil has mostly been removed by excavation. The sources of free product have been removed from the site. The risks to human health from vapor intrusion have been eliminated by the remediation conducted under the VAP case.

According to the consultant, the time for benzene to degrade to the maximum contaminant level (MCL) of 1 ug/l by natural attenuation could take up to 1,400 years, MTBE could take 130 years, and TBA could take 210 years, respectively, to reach the State notification level of 12 ug/l. Ethylbenzene is currently below the State MCL of 300 ug/l.

A Revised CAP Addendum dated April 18, 2011 was submitted by Chevron which recommended remediation through natural attenuation and the use of engineering controls. DEH concurred with the Revised CAP Addendum on October 5, 2011 with conditions that soil remediation proposed by the owner was completed to mitigate the potential health risks to on-site development. As stated above, this work was accomplished under the VAP case H12456-004. The consultant stated that free product has not reoccurred at the site, that the site does not pose a risk to the environment or human health if engineering controls are used, and that the plume was stabile and contracting. The consultant requested no further action on the case and DEH concurred with this recommendation with conditions. Remediation of the site has occurred under VAP case H12456-004 and DEH concurs with the recommendation to close this case.

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes – Please see VAP case H12456-004.		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes – Please see VAP case H12456-004.		
Does corrective action protect public health for current land use? Yes Case oversight completed based upon the following site use: Commercial		
Site Management Requirements: Any Contaminated Soil Excavated As Part Of Subsurface Construction Work Must Be Managed In Accordance With The Legal Requirements At That Time.		
Should corrective action be reviewed if land use changes? Yes		
Monitoring Wells Decommissioned: Yes	Number Decommissioned: 17 Monitoring Wells 15 Vapor Probes	Number Retained: 0
List Actions Taken: Notice Of Reimbursement/Local		
List Enforcement Actions Rescinded: NONE		

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Kevin M. Heaton, PG 4163, CHg 163	Title: Senior Hydrogeologist
Signature: KMH	Date: 5/7/2012

VI. RWQCB NOTIFICATION

Date Submitted to RB: NA- NON-BENEFICIAL GROUNDWATER	RB Response: NA	
RWQCB Staff Name: --	Title: Senior Engineering Geologist	Date: --

VII. ADDITIONAL COMMENTS, DATA, ETC.

None

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

APPENDIX E

Historical Research Documentation

5225 Mt. Etna Dr.
5225 Mt. Etna Dr.
San Diego, CA 92117

Inquiry Number: 5578947.5
March 04, 2019

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

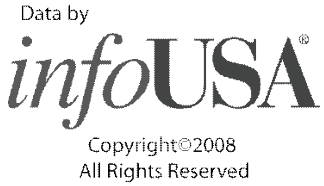
Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1903 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
2010	EDR Digital Archive	-	X	X	-
2006	Haines Company, Inc.	-	X	X	X
2000	Haines Company, Inc.	-	X	X	-
1995	PACIFIC BELL WHITE PAGES	-	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	X	X	-
1991	PACIFIC BELL WHITE PAGES	-	X	X	-
1989	Pacific Bell	-	X	X	-
1985	PACIFIC BELL WHITE PAGES	-	X	X	-
1984	R. L. Polk & Co.	-	X	X	X
1980	R. L. Polk & Co.	-	X	X	X
1976	Luskey Brothers & Co., Inc.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1975	R. L. Polk & Co.	-	X	X	X
1971	Community Directory Co.	-	-	-	-
1970	John M. Ducy	-	X	X	-
1966	R. L. Polk & Co.	-	X	X	X
1965	Luskey Brothers Co., Inc.	-	-	-	-
1962	Community Directory Co.	-	-	-	-
1961	R. L. Polk & Co.	-	X	X	X
1960	The Pacific Telephone Telegraph Co.	-	X	X	-
1956	R. L. Polk & Co.	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1952	R. L. Polk & Co. of California	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	-	-	-
1948	San Diego Directory Co.	-	-	-	-
1945	San Diego Directory Co.	-	-	-	-
1943	San Diego Directory Co.	-	-	-	-
1940	San Diego Directory Co.	-	-	-	-
1938	San Diego Directory Co.	-	-	-	-
1933	San Diego Directory Co.	-	-	-	-
1927	San Diego Directory Co.	-	-	-	-
1921	San Diego Directory Co. Inc.	-	-	-	-
1907	San Diego Directory Co.	-	-	-	-
1903	San Diego Directory Co.	-	-	-	-

RECORD SOURCES

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EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
4282 Genesse Ave	Client Entered	
4310 Genesse Ave	Client Entered	
4320 Genesse Ave	Client Entered	
4227 Genesse Ave	Client Entered	
5210 Balboa Ave	Client Entered	X
5230 Balboa Ave	Client Entered	X
5252 Balboa Ave	Client Entered	X
5270 Balboa Ave	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

5225 Mt. Etna Dr.
San Diego, CA 92117

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Balboa Ave

5210 Balboa Ave

Year	Uses	Source	
2006	ADECCO EMPLOYMENT SERVICES	Haines Company, Inc.	Image pg. A1
	CLAIRES HAIR STYLIST	Haines Company, Inc.	Image pg. A1
	CROWN HOUSE BARBERS	Haines Company, Inc.	Image pg. A1
	KASIRI REZA	Haines Company, Inc.	Image pg. A1
	NAILS BY ANN	Haines Company, Inc.	Image pg. A1
	REMYS HAIR DESIGN	Haines Company, Inc.	Image pg. A1
	TOOTIE HAIR SOLUTIONS	Haines Company, Inc.	Image pg. A1
	TRACY DIANE K INSURANCE	Haines Company, Inc.	Image pg. A1
	VIRGIES HAIR STYLING	Haines Company, Inc.	Image pg. A1
2000	ADECCO EMPLOYMENT SERVICES	Haines Company, Inc.	
	CLAIRES HAIR STYLIST	Haines Company, Inc.	
	CROWN HOUSE	Haines Company, Inc.	
	NAILS BY ANN	Haines Company, Inc.	
	REMYS HAIR DESIGN	Haines Company, Inc.	
	VIRGIES HAIR STYLING	Haines Company, Inc.	

5230 Balboa Ave

Year	Uses	Source	
2006	TACO BELL	Haines Company, Inc.	Image pg. A1

5252 Balboa Ave

Year	Uses	Source	
2006	SUN N DALE APTS	Haines Company, Inc.	Image pg. A1
	5252 BALBOA ARMS	Haines Company, Inc.	Image pg. A1
	5252 BALBOA LLC	Haines Company, Inc.	Image pg. A1
	ABDELGALIL Adil	Haines Company, Inc.	Image pg. A1
	AKITA Katsuhiro	Haines Company, Inc.	Image pg. A1
	ALBRIGHT M	Haines Company, Inc.	Image pg. A1
	ALI Ashraf	Haines Company, Inc.	Image pg. A1
	ARREDONDO Pedro	Haines Company, Inc.	Image pg. A1
	AVALOS Ana M	Haines Company, Inc.	Image pg. A1

FINDINGS

Year	Uses	Source	
2006	BALTAZAR Claudia E	Haines Company, Inc.	Image pg. A1
	BOTVINNIK Andrei	Haines Company, Inc.	Image pg. A1
	CHENG John	Haines Company, Inc.	Image pg. A1
	CHINEN Sadako	Haines Company, Inc.	Image pg. A1
	COSIO Carlos	Haines Company, Inc.	Image pg. A1
	DEFUENTES Beatrice	Haines Company, Inc.	Image pg. A1
	DELACRUZ Femando	Haines Company, Inc.	Image pg. A1
	DREWETT Brett	Haines Company, Inc.	Image pg. A1
	ESQUER Tania	Haines Company, Inc.	Image pg. A1
	FELICIANO Jose	Haines Company, Inc.	Image pg. A1
	FISHER George	Haines Company, Inc.	Image pg. A1
	FULLER R Olga	Haines Company, Inc.	Image pg. A1
	FUNATO Kazuhiro	Haines Company, Inc.	Image pg. A1
	GALIANA Felix	Haines Company, Inc.	Image pg. A1
	GARCIA Patricia	Haines Company, Inc.	Image pg. A1
	GERMAIN Brian J	Haines Company, Inc.	Image pg. A1
	GLORIA Flores	Haines Company, Inc.	Image pg. A1
	GROSS Matthias	Haines Company, Inc.	Image pg. A1
	HAGIWARA K	Haines Company, Inc.	Image pg. A1
	HUSSAIN Kazi S	Haines Company, Inc.	Image pg. A1
	IBRAHIM Ahmad	Haines Company, Inc.	Image pg. A1
	INTHAVONG Khamsouk	Haines Company, Inc.	Image pg. A1
	IRIZARRY Michael	Haines Company, Inc.	Image pg. A1
	KAWAGUCHI Munehito	Haines Company, Inc.	Image pg. A1
	LAFRANCE Annie	Haines Company, Inc.	Image pg. A1
	LOPEZ Martha	Haines Company, Inc.	Image pg. A1
	LUONG Thien	Haines Company, Inc.	Image pg. A1
	MALIK Abdul J	Haines Company, Inc.	Image pg. A1
	MAYDANYUK Yekaterina	Haines Company, Inc.	Image pg. A1
	MEDINA Alisa	Haines Company, Inc.	Image pg. A1
	MEZA Elena Maria	Haines Company, Inc.	Image pg. A1
	MOODY Rosemary	Haines Company, Inc.	Image pg. A1
	MUNOZ Hilda	Haines Company, Inc.	Image pg. A1
	NAILI Ilham	Haines Company, Inc.	Image pg. A1
	NIE Aihua	Haines Company, Inc.	Image pg. A1
	ORTIZ Lidia	Haines Company, Inc.	Image pg. A1
	OVERMEYER Demitria	Haines Company, Inc.	Image pg. A1
	PALMON Rosalie	Haines Company, Inc.	Image pg. A1

FINDINGS

Year	Uses	Source	
2006	PALOMINO Isaias	Haines Company, Inc.	Image pg. A1
	PARK Jin Hyuk	Haines Company, Inc.	Image pg. A1
	PENG Shihyao	Haines Company, Inc.	Image pg. A1
	POSADAS Samuel	Haines Company, Inc.	Image pg. A1
	REED Randy	Haines Company, Inc.	Image pg. A1
	ROSSON L	Haines Company, Inc.	Image pg. A1
	SAMANIEGO Alex	Haines Company, Inc.	Image pg. A1
	SANCHEZ Moises	Haines Company, Inc.	Image pg. A1
	SIMPSON J	Haines Company, Inc.	Image pg. A1
	SOSKIN Liz	Haines Company, Inc.	Image pg. A1
	STEWART Carrie	Haines Company, Inc.	Image pg. A1
	TANG Wenbo	Haines Company, Inc.	Image pg. A1
	TOVAR Angel	Haines Company, Inc.	Image pg. A1
	ZARATE D	Haines Company, Inc.	Image pg. A1
	ZEITNER Rebecca	Haines Company, Inc.	Image pg. A1
	ZHANG Youwel	Haines Company, Inc.	Image pg. A1
	BUILDING	Haines Company, Inc.	Image pg. A1
	A A A TENANTS LEGAL CENTER	Haines Company, Inc.	Image pg. A1
	A ASSOCIATED DESIGN GRP DIEGO	Haines Company, Inc.	Image pg. A1
	ADVANTAGE COUNSELING	Haines Company, Inc.	Image pg. A1
	AFFORDABLE MASSAGE	Haines Company, Inc.	Image pg. A1
	AMERICA ONE FINANCE	Haines Company, Inc.	Image pg. A1
	ATTORNEY ALISE M KELLMAN	Haines Company, Inc.	Image pg. A1
	ATTORNEY JEFFERY S STYERS	Haines Company, Inc.	Image pg. A1
	ATTORNEY RUSS RASMUSSEN	Haines Company, Inc.	Image pg. A1
	CALPACIFIC MORTGAGE	Haines Company, Inc.	Image pg. A1
	CINGULAR WIRELESS PCS STORE	Haines Company, Inc.	Image pg. A1
	COSTIGAN LYNNE ATTY	Haines Company, Inc.	Image pg. A1
	COUNTRY WAFFLES	Haines Company, Inc.	Image pg. A1
	CURRY CHRISTIAN ATTY AT LAW	Haines Company, Inc.	Image pg. A1
	DLISH XPRESS	Haines Company, Inc.	Image pg. A1
	DR KRISTINE WAGNER	Haines Company, Inc.	Image pg. A1
	ECHO LOGIC MEDICAL IMAGING INC	Haines Company, Inc.	Image pg. A1
	EVATT TIMOTHY G ATTY AT LAW	Haines Company, Inc.	Image pg. A1
	FINANCL ADVISORS ASSOCIATES	Haines Company, Inc.	Image pg. A1
	GOVENAR DANNY	Haines Company, Inc.	Image pg. A1
	GREEN DONNA M DC	Haines Company, Inc.	Image pg. A1
	H & R BLOCK	Haines Company, Inc.	Image pg. A1

FINDINGS

Year	Uses	Source	
2006	HAYS JEFF DC	Haines Company, Inc.	Image pg. A1
	HILL REALTY GROUP	Haines Company, Inc.	Image pg. A1
	HIRAGI KATSUMI ATTY	Haines Company, Inc.	Image pg. A1
	JACKSON BETTY J MS	Haines Company, Inc.	Image pg. A1
	JEFFERIES JAMES R	Haines Company, Inc.	Image pg. A1
	KELLMAN ALISE M ATTORNEY	Haines Company, Inc.	Image pg. A1
	KELLMAN STEVEN R ATTORNEY	Haines Company, Inc.	Image pg. A1
	KNEPP DAVID	Haines Company, Inc.	Image pg. A1
	LAW OFFICE OF CRYSTELLE HONG	Haines Company, Inc.	Image pg. A1
	LEWIS JEFF	Haines Company, Inc.	Image pg. A1
	LOREN SMITH PRODUCTIONS	Haines Company, Inc.	Image pg. A1
	LOREN SMITH PRODUCTIONS	Haines Company, Inc.	Image pg. A1
	LOTUFO PATRICIA DC	Haines Company, Inc.	Image pg. A1
	MADOFF JERRY PHD	Haines Company, Inc.	Image pg. A1
	MARSHALL THOMAS	Haines Company, Inc.	Image pg. A1
	MEYER C WEINER CO	Haines Company, Inc.	Image pg. A1
	NATIONWDE FLOOR & WNDW CVRNGS	Haines Company, Inc.	Image pg. A1
	OLENSKI PAUL E MD	Haines Company, Inc.	Image pg. A1
	PAUL LIEBMANN	Haines Company, Inc.	Image pg. A1
	PHYLLIS SENSENIG	Haines Company, Inc.	Image pg. A1
	PORT80 SOFTWARE INC	Haines Company, Inc.	Image pg. A1
	POWER DATA SYSTEMS	Haines Company, Inc.	Image pg. A1
	RASMUSSEN & STYERS ATTYS	Haines Company, Inc.	Image pg. A1
	REAL ESTATE APPRAISALS SD	Haines Company, Inc.	Image pg. A1
	RENEE CURTIS DC	Haines Company, Inc.	Image pg. A1
	RENTERS RIGHTS CNTR SAN DIEGO	Haines Company, Inc.	Image pg. A1
	SAN DIEGO CHIROPRACTIC	Haines Company, Inc.	Image pg. A1
	SEA VIEW CHIROPRACTIC CENTER	Haines Company, Inc.	Image pg. A1
	SEABOARD INVSTGN	Haines Company, Inc.	Image pg. A1
	SEABOARD PLYGRPH & INVSTGN INC	Haines Company, Inc.	Image pg. A1
	SENSENIG S KIMBER LAW OFFICES	Haines Company, Inc.	Image pg. A1
	SIERRA WINDOW CONCEPTS	Haines Company, Inc.	Image pg. A1
	SIXTEN & ASSOCIATES	Haines Company, Inc.	Image pg. A1
	SMITH MARY LOU ATTY	Haines Company, Inc.	Image pg. A1
	SOBEL RICHARD A PHD	Haines Company, Inc.	Image pg. A1
	SOUTHER STAR MORTGAGE CO	Haines Company, Inc.	Image pg. A1
	SOUTHRN STAR MTG CORP	Haines Company, Inc.	Image pg. A1
	STUDIO C ARCHITECTS	Haines Company, Inc.	Image pg. A1

FINDINGS

Year	Uses	Source	
2006	STYERS JEFFERY SCOTT	Haines Company, Inc.	Image pg. A1
	SWANSON CHARLES A	Haines Company, Inc.	Image pg. A1
	TAD TECHNICAL	Haines Company, Inc.	Image pg. A1
	TENANTS LEGAL CENTER	Haines Company, Inc.	Image pg. A1
	THOMAS MARSHELL ATTORNEY AT LW	Haines Company, Inc.	Image pg. A1
	TLN FINANCIAL SERVICES	Haines Company, Inc.	Image pg. A1
	TOUCH OF BALANCE	Haines Company, Inc.	Image pg. A1
	TRUONG T LAWRENCE	Haines Company, Inc.	Image pg. A1
	UNIWEST MORTGAGE CORPORATION	Haines Company, Inc.	Image pg. A1
	WHITE JEANNINE L PHD	Haines Company, Inc.	Image pg. A1
2000	BUILDING	Haines Company, Inc.	
	A A A TENANTS LEGAL CENTER	Haines Company, Inc.	
	A PLUS PERSONNEL	Haines Company, Inc.	
	A PLUS SECRETARIAL SERVICE	Haines Company, Inc.	
	A 1 BUILDERS	Haines Company, Inc.	
	ACTION SECURITY & INVESTIGATIONS	Haines Company, Inc.	
	AMER SOCIETY OF INTR DESIGNERS	Haines Company, Inc.	
	ANCHONDO FERNIE	Haines Company, Inc.	
	ASSOCTD DOCUMENT EXAMINERS	Haines Company, Inc.	
	ATTORNEY ALISE M KELLMAN	Haines Company, Inc.	
	ATTORNEY JEFFERY S STYERS	Haines Company, Inc.	
	BLOCK H & R	Haines Company, Inc.	
	BLOCK H & R	Haines Company, Inc.	
	CARING CREMATION SV SAN DIEGO	Haines Company, Inc.	
	COSTIGAN LYNNE ATTY	Haines Company, Inc.	
	CREMATION CARING	Haines Company, Inc.	
	CREMATION CARING SV	Haines Company, Inc.	
	CURRY CHRISTIAN ATTORNEY LAW	Haines Company, Inc.	
	DOVE VISION VIDEO PRODUCTION	Haines Company, Inc.	
	EVATT TIMOTHY ATTY	Haines Company, Inc.	
	FANG SHAO INTL INC	Haines Company, Inc.	
	FOUNDATION CHLDRN CALIFORNIAS	Haines Company, Inc.	
	HIRAGI KATSUMI ATTY	Haines Company, Inc.	
	JACKSON BETTY J MS	Haines Company, Inc.	
	JEFFERIS JAMES R ATTY AT LAW	Haines Company, Inc.	
	KELLMAN ALISE ATTY	Haines Company, Inc.	
	KELLMAN STEVEN ATTY	Haines Company, Inc.	
	KEMPTON MELISSA K	Haines Company, Inc.	

FINDINGS

Year	Uses	Source
2000	LEMON LAW CENTER	Haines Company, Inc.
	LIGHTNING EXPRESS	Haines Company, Inc.
	LINDSEY MICHAEL E ATTY	Haines Company, Inc.
	MARSHALL THOS ATTY	Haines Company, Inc.
	MEYER C WEINER CO	Haines Company, Inc.
	MOBILEMEDIA COMMUNICATIONS	Haines Company, Inc.
	O CS CUSTOM PAINTING	Haines Company, Inc.
	PIRANIO FRANK DC	Haines Company, Inc.
	POWER DATA SYSTEMS	Haines Company, Inc.
	RASMUSSEN RUSS ATTY	Haines Company, Inc.
	RASMUSSEN & STYERS	Haines Company, Inc.
	REAL ESTATE APPRAISALS SD	Haines Company, Inc.
	RENTERS RIGHTS CENTER SAN DGO	Haines Company, Inc.
	ROSEN ARLINE S PHD	Haines Company, Inc.
	SANTUCCI R ATTY	Haines Company, Inc.
	SEA VIEW MEDICAL CENTER	Haines Company, Inc.
	SEABOARD INVSTGN	Haines Company, Inc.
	SEABOARD POLYGRAPH	Haines Company, Inc.
	SIERRA WINDOW CONCEPTS	Haines Company, Inc.
	SIXTEN & ASSOCIATES	Haines Company, Inc.
	SMITH MARY LOU ATTY	Haines Company, Inc.
	SOBEL RICHARD A PHD	Haines Company, Inc.
	STATE FARM INS AGENT	Haines Company, Inc.
	STUDIO C ARCHITECTS	Haines Company, Inc.
	STYERS JEFFERY S	Haines Company, Inc.
	SUNDY HILTON DR	Haines Company, Inc.
	SWANSON CHARLES A	Haines Company, Inc.
	T L N FINANCIAL SERVICES	Haines Company, Inc.
	TAD TECHNICAL	Haines Company, Inc.
	TENANTS LEGAL CENTER	Haines Company, Inc.
	TENANTS LEGAL CENTER SAN DIEGO	Haines Company, Inc.
	TLN FINANCIAL SERVICES	Haines Company, Inc.
	TLN FINANCIAL SERVICES	Haines Company, Inc.
	TOUCH OF BALANCE	Haines Company, Inc.
	TRACY DIANE K INSURANCE	Haines Company, Inc.
	UNIWEST MORTGAGE	Haines Company, Inc.
	SUN N DALE APTS	Haines Company, Inc.
	AHMAD Jawad	Haines Company, Inc.

FINDINGS

Year	*Uses*	*Source*
2000	AKBAR Syed	Haines Company, Inc.
	ALLAHYARI Nazira	Haines Company, Inc.
	ARAUZ Hellos	Haines Company, Inc.
	BARAKAT Lena	Haines Company, Inc.
	BARAKAT Walid	Haines Company, Inc.
	BOARDMAN Andrea M	Haines Company, Inc.
	BOLTON Douglas M	Haines Company, Inc.
	BRIGHT Nancy	Haines Company, Inc.
	BROADNIANSKY P	Haines Company, Inc.
	CHURCH Benjamin F	Haines Company, Inc.
	DEOLIVEIRA Andrea	Haines Company, Inc.
	ENCELL Steve	Haines Company, Inc.
	ESCOBAR Elizabeth	Haines Company, Inc.
	FLORES Agustin	Haines Company, Inc.
	FLORES Maria	Haines Company, Inc.
	FREISTROFFER Sandra	Haines Company, Inc.
	FREY Rory	Haines Company, Inc.
	GARBER Jos A	Haines Company, Inc.
	GARCIA Margarita H	Haines Company, Inc.
	GARCIA Rocia	Haines Company, Inc.
	GONZALES Frances H	Haines Company, Inc.
	GONZALEZ Martha	Haines Company, Inc.
	HAGENWALD Herb	Haines Company, Inc.
	HAGEWOOD Josh	Haines Company, Inc.
	HAGEWOOD Josh	Haines Company, Inc.
	HAKE Mathias	Haines Company, Inc.
	HEUSER Steffen	Haines Company, Inc.
	HOSTEN Pat	Haines Company, Inc.
	IONOV Yuri	Haines Company, Inc.
	KAN Donghui	Haines Company, Inc.
	KELLY Brian	Haines Company, Inc.
	KLIMEK David	Haines Company, Inc.
	KUCHLER William	Haines Company, Inc.
	LAMBIE Kyle	Haines Company, Inc.
	LEELAWONGS Nirappisai	Haines Company, Inc.
	LEVIN L	Haines Company, Inc.
	LICHMAN Irena	Haines Company, Inc.
	LUNA Jacobo	Haines Company, Inc.

FINDINGS

Year	*Uses*	*Source*
2000	MAIRANI Aaron J	Haines Company, Inc.
	MAMON Octavio L	Haines Company, Inc.
	MATTHEWS Chauncene	Haines Company, Inc.
	MATTHEWS Todd	Haines Company, Inc.
	MATTHEWS Yumi	Haines Company, Inc.
	MCCOY S	Haines Company, Inc.
	MENDEZ Ricardo	Haines Company, Inc.
	NASS C	Haines Company, Inc.
	NEWBY Ben T	Haines Company, Inc.
	NGUYEN Huy	Haines Company, Inc.
	NICHOLS Christopher	Haines Company, Inc.
	OUYANG Jian F	Haines Company, Inc.
	PACHECO Ramon	Haines Company, Inc.
	PENTSAKOVA Leonid	Haines Company, Inc.
	PHAM Phuoc	Haines Company, Inc.
	PHAN Tuong	Haines Company, Inc.
	PIERCE Matthew R	Haines Company, Inc.
	PISARCHICK Ed F	Haines Company, Inc.
	PLUNKETT Dennis	Haines Company, Inc.
	QIAO Steve M	Haines Company, Inc.
	RAUH Jeff	Haines Company, Inc.
	ROJAS Genaro	Haines Company, Inc.
	SANTOS Isabell A	Haines Company, Inc.
	SCHAFFER Eric E	Haines Company, Inc.
	SUNN DALE	Haines Company, Inc.
	SUN Fangxian	Haines Company, Inc.
	TURONDKARAVE Sontanee	Haines Company, Inc.
	ULATSKAYA Etia	Haines Company, Inc.
	VERA Silvana P	Haines Company, Inc.
	VOROTCHAEV Leonid	Haines Company, Inc.
	WANG Jiancheng	Haines Company, Inc.
	WANG Songbai	Haines Company, Inc.
	WATLING Rita M	Haines Company, Inc.
	WINEGAR Marie	Haines Company, Inc.
	YGNACIO Neslyn Solis	Haines Company, Inc.
1995	DEALMEIDA DOUG	PACIFIC BELL WHITE PAGES
1992	AAS K San Diego	PACIFIC BELL WHITE PAGES
	Balboa Sandwich	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1992	Ofc	PACIFIC BELL WHITE PAGES
	Bush B	PACIFIC BELL WHITE PAGES
	Carlson lois LCS W	PACIFIC BELL WHITE PAGES
	Carlson Lynette	PACIFIC BELL WHITE PAGES
	Carlson M	PACIFIC BELL WHITE PAGES
	Carlson M	PACIFIC BELL WHITE PAGES
	Carlson M	PACIFIC BELL WHITE PAGES
	Carlson M A	PACIFIC BELL WHITE PAGES
	Carlson M A	PACIFIC BELL WHITE PAGES
	Clairemont Temporaries	PACIFIC BELL WHITE PAGES
	Clairemont Temporary Services	PACIFIC BELL WHITE PAGES
	Clairemont Towers	PACIFIC BELL WHITE PAGES
	Clairemont Town Council POBox 17....	PACIFIC BELL WHITE PAGES
	Costigan Lynne Du Berchin Marjorie S	PACIFIC BELL WHITE PAGES
	Di Francesca Sal Ph D	PACIFIC BELL WHITE PAGES
	Du Berchin Marjorie S	PACIFIC BELL WHITE PAGES
	First Class Legal Technicians	PACIFIC BELL WHITE PAGES
	Firsti Class Office Services	PACIFIC BELL WHITE PAGES
	Ofc	PACIFIC BELL WHITE PAGES
	HE N RICH W ILUAM Matty	PACIFIC BELL WHITE PAGES
	Henrichon M J	PACIFIC BELL WHITE PAGES
	Hiragi Katsumi atty	PACIFIC BELL WHITE PAGES
	Hirahara S.....	PACIFIC BELL WHITE PAGES
	Kellman Alise M atty	PACIFIC BELL WHITE PAGES
	Kellman Steven R atty	PACIFIC BELL WHITE PAGES
	Learning Process Center The	PACIFIC BELL WHITE PAGES
	Learning Styles	PACIFIC BELL WHITE PAGES
	Learning Tools	PACIFIC BELL WHITE PAGES
	RAS MUS S E N RUS S Rasnmussen & Styers attys	PACIFIC BELL WHITE PAGES
	RAS MUS S E N &S TYE RS attys	PACIFIC BELL WHITE PAGES
	Rasmussen Tami	PACIFIC BELL WHITE PAGES
	Rasmussen Thomas	PACIFIC BELL WHITE PAGES
	Rosen Arline S Ph D	PACIFIC BELL WHITE PAGES
	Rosen Audrey	PACIFIC BELL WHITE PAGES
	Rosen B	PACIFIC BELL WHITE PAGES
	Seaboard Investigation	PACIFIC BELL WHITE PAGES
	Seaboard Polygraph Inc	PACIFIC BELL WHITE PAGES
	Seaboch Todd	PACIFIC BELL WHITE PAGES

FINDINGS

Year	*Uses*	*Source*
1992	Sigmatron Company	PACIFIC BELL WHITE PAGES
	Smith Mary Lou Du Berchin Marjorie S	PACIFIC BELL WHITE PAGES
	Sobel Richard Alan Ph D psycigst	PACIFIC BELL WHITE PAGES
	Staninger Thomas	PACIFIC BELL WHITE PAGES
	Styers Jeffery Scott	PACIFIC BELL WHITE PAGES
	Or.....	PACIFIC BELL WHITE PAGES
	i Swanson Charles AL	PACIFIC BELL WHITE PAGES
	Tad Technical	PACIFIC BELL WHITE PAGES
	US A Tours & Travel	PACIFIC BELL WHITE PAGES
	Artiaga Raymond	PACIFIC BELL WHITE PAGES
	Bach John T	PACIFIC BELL WHITE PAGES
	Balotsky Vladimir	PACIFIC BELL WHITE PAGES
	Bortz Rob	PACIFIC BELL WHITE PAGES
	Bratton Stephen & Joymarie	PACIFIC BELL WHITE PAGES
	Bronshtein Boris	PACIFIC BELL WHITE PAGES
	Campbell In Ja Kim	PACIFIC BELL WHITE PAGES
	Cannon Leo M	PACIFIC BELL WHITE PAGES
	Celata Lisa	PACIFIC BELL WHITE PAGES
	Celata M	PACIFIC BELL WHITE PAGES
	Daimacio R & C	PACIFIC BELL WHITE PAGES
	Freese George	PACIFIC BELL WHITE PAGES
	Gaddy Michael S	PACIFIC BELL WHITE PAGES
	Garber Jos A	PACIFIC BELL WHITE PAGES
	Garber Ken & Tracy	PACIFIC BELL WHITE PAGES
	Gemrheuser George	PACIFIC BELL WHITE PAGES
	Giusti Maria	PACIFIC BELL WHITE PAGES
	Glustino N B & A	PACIFIC BELL WHITE PAGES
	Giusto Dana	PACIFIC BELL WHITE PAGES
	Glustra Elizabeth	PACIFIC BELL WHITE PAGES
	Gluttari Giovanni	PACIFIC BELL WHITE PAGES
	Hewey Shirley	PACIFIC BELL WHITE PAGES
	Johnson Charles M	PACIFIC BELL WHITE PAGES
	Johnson Clark & Jackie	PACIFIC BELL WHITE PAGES
	Kanner Halina	PACIFIC BELL WHITE PAGES
	Kazachiner Leo	PACIFIC BELL WHITE PAGES
	Lindernmaier Alexandra	PACIFIC BELL WHITE PAGES
	Lindert Walter	PACIFIC BELL WHITE PAGES
	Loza Pablo	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1992	Loza Silvia	PACIFIC BELL WHITE PAGES
	Nasiri Rokiye	PACIFIC BELL WHITE PAGES
	Nasiri Sam.....	PACIFIC BELL WHITE PAGES
	Paghmani Habib	PACIFIC BELL WHITE PAGES
	Paginas Amarillas de Pacific Bell	PACIFIC BELL WHITE PAGES
	Randall B	PACIFIC BELL WHITE PAGES
	Randal B A	PACIFIC BELL WHITE PAGES
	Randle J	PACIFIC BELL WHITE PAGES
	I Rohr D J	PACIFIC BELL WHITE PAGES
	Rowe Jack E	PACIFIC BELL WHITE PAGES
	Salter Paul W	PACIFIC BELL WHITE PAGES
	Sanchez Virginle	PACIFIC BELL WHITE PAGES
	Shah Sachit	PACIFIC BELL WHITE PAGES
	Shchukin Vadim	PACIFIC BELL WHITE PAGES
	Sosa Cortes Roman	PACIFIC BELL WHITE PAGES
	Sun n Dale	PACIFIC BELL WHITE PAGES
	Tantlsiriphiboon Magi	PACIFIC BELL WHITE PAGES
	Tsung Fu Sheng	PACIFIC BELL WHITE PAGES
	Tsunoda Becci	PACIFIC BELL WHITE PAGES
	Tsunoda Matthew	PACIFIC BELL WHITE PAGES
	Turner E	PACIFIC BELL WHITE PAGES
	Turner E B.....	PACIFIC BELL WHITE PAGES
	Turner Richard	PACIFIC BELL WHITE PAGES
	Twining K	PACIFIC BELL WHITE PAGES
	Windsor Richard & Anna	PACIFIC BELL WHITE PAGES
	Woblick Fred	PACIFIC BELL WHITE PAGES
	Wochaski Jerry.....	PACIFIC BELL WHITE PAGES
	Western Properties Management	PACIFIC BELL WHITE PAGES
1991	Merit Polygraph Of San Diego	PACIFIC BELL WHITE PAGES
	Merit Pool Care	PACIFIC BELL WHITE PAGES
	United Western Funding	PACIFIC BELL WHITE PAGES
1989	A Better Life Center	Pacific Bell
	Accents On Health	Pacific Bell
	American Medical Imaging Corp	Pacific Bell
	Associated Documents Examiners	Pacific Bell
	Associated Documents Examiners	Pacific Bell
	Athena Video Productions	Pacific Bell
	Balboa Sandwich	Pacific Bell

FINDINGS

Year	Uses	Source
1989	Beatrice James Ph D	Pacific Bell
	Beltone Hearing Aid Service	Pacific Bell
	Campbell Patrick D Evatt Smith & Campbell attys	Pacific Bell
	Carlson Lois LCSW	Pacific Bell
	Clairemont Temporaries	Pacific Bell
	Clairemont Temporary Services	Pacific Bell
	Clinical & Family Counseling Associates	Pacific Bell
	Counseling Center	Pacific Bell
	De Forest Gary DC	Pacific Bell
	Di Francesca Sal Ph D	Pacific Bell
	EAGLE LION VIDEO PRODUCTIONS	Pacific Bell
	EVATT SMITH & CAMPBELL attys	Pacific Bell
	Evatt Timothy G Evatt Smith & Campbell attys	Pacific Bell
	Eviction Defenders	Pacific Bell
	Executive Tax Service	Pacific Bell
	Gonzales Manny Associated Documents Examiners	Pacific Bell
	Gonzales Manny Associated Documents Examiners	Pacific Bell
	Grinberg Michael M MD	Pacific Bell
	Hardy Donald R	Pacific Bell
	Henrich William M atty	Pacific Bell
	Hiragi Katsumi atty	Pacific Bell
	Hospital Healthstaff Inc	Pacific Bell
	Huntington Counseling Center	Pacific Bell
	Informative Data Enterprises	Pacific Bell
	Informative Data Enterprises	Pacific Bell
	Kellman Steven R atty	Pacific Bell
	King Accelerated Ground Schools	Pacific Bell
	LSL Inc	Pacific Bell
	Learning Process Center The	Pacific Bell
	Macro International Co	Pacific Bell
	Mayotte Joan Ph D Clinical & Family Counseling Associates	Pacific Bell
	Merit Polygraph Of San Diego	Pacific Bell
	Morales Bert Investigative Services	Pacific Bell
	Norbeck Elsa L atty	Pacific Bell
	Omidi Payman DC	Pacific Bell

FINDINGS

Year	Uses	Source
1989	Omni Equities Inc	Pacific Bell
	Pacific Pathology Laboratory Inc	Pacific Bell
	Postulka Daniel C DC	Pacific Bell
	RASMUSSEN RUSS Rasmussen & Styers attys	Pacific Bell
	RASMUSSEN & STYERS attys	Pacific Bell
	Rosen Arline S Ph D	Pacific Bell
	Schwarz Michael J An Accountancy Corp	Pacific Bell
	Seaboard Investigation	Pacific Bell
	Seaboard Polygraph Inc	Pacific Bell
	Selvig Lee W atty	Pacific Bell
	Singer Esthr M Ph D	Pacific Bell
	Smith Mary Lou Evatt Smith & Campbell attys	Pacific Bell
	SMITH & SELVIG ATTORNEYS AT LAW	Pacific Bell
	Smith Timothy N atty	Pacific Bell
	Staninger Thomas	Pacific Bell
	Styers Jeffery Scott atty	Pacific Bell
	TAD TECHNICAL	Pacific Bell
	UNITED WESTERN FUNDING	Pacific Bell
	University Professional Placement Agency	Pacific Bell
	Western Properties	Pacific Bell
	Anderson Gustav	Pacific Bell
	Bennett Lee	Pacific Bell
	Bogh Roger	Pacific Bell
	Boring Christopher	Pacific Bell
	Bronson P	Pacific Bell
	Capets Chris	Pacific Bell
	Christman Brian L	Pacific Bell
	Crawford John David	Pacific Bell
	Esmailian E	Pacific Bell
	Esmailian Edik M	Pacific Bell
	Fakih Mohamad	Pacific Bell
	Gaddy Michael S	Pacific Bell
	Garber Jos A	Pacific Bell
	Garland Robert	Pacific Bell
	Gilbreath Raul	Pacific Bell
	Goecke Mark	Pacific Bell
	Grabot Edward H	Pacific Bell

FINDINGS

Year	Uses	Source
1989	Hedemark Stephanie	Pacific Bell
	Helbig John	Pacific Bell
	Holmes Craig	Pacific Bell
	Hust R	Pacific Bell
	Jones Sherry A	Pacific Bell
	Koozin John	Pacific Bell
	Lo Wing Yip	Pacific Bell
	Loza Pablo	Pacific Bell
	Luckett Preston W	Pacific Bell
	Mc Bride Daniel F	Pacific Bell
	Mengel Chris	Pacific Bell
	Miller Gregory W	Pacific Bell
	Miller Morgyn	Pacific Bell
	Nash Troy D	Pacific Bell
	Noble George	Pacific Bell
	Orma Steve	Pacific Bell
	Overson Jerry	Pacific Bell
	Paiva Alberto Bento Jr	Pacific Bell
	Perry Robert D	Pacific Bell
	Peterson Robt G	Pacific Bell
	Phillips Kevin J & Lilia	Pacific Bell
	Phillips Steve	Pacific Bell
	Pribe Andrew	Pacific Bell
	Reynante Mike	Pacific Bell
	Roboff Steve	Pacific Bell
	Rowe Jack E	Pacific Bell
	Schmidt C & P	Pacific Bell
	Schreiber James	Pacific Bell
	Schultz Ted	Pacific Bell
	Shahbandarian Norik	Pacific Bell
	Shepherd Lemuel C	Pacific Bell
	Simmons William D	Pacific Bell
	Stevens Cali	Pacific Bell
	Sunn Dale	Pacific Bell
	Takahashi Yoshisa	Pacific Bell
	Takatoshi Irie	Pacific Bell
	Tam Samuel W	Pacific Bell
	Tosten Lester & Ericka	Pacific Bell

FINDINGS

Year	Uses	Source	
1989	Um Kee R	Pacific Bell	
	Van Kirk Gayle	Pacific Bell	
	Wartell Julie	Pacific Bell	
	Waud Earl N	Pacific Bell	
	Welch Russell & Angela	Pacific Bell	
	Whitney Edw	Pacific Bell	
	Windsor Richard & Anna	Pacific Bell	
	Woblick Fred	Pacific Bell	
	Woodford Brandt & Lisa	Pacific Bell	
	Worley Ted & Francisca	Pacific Bell	
1985	PLAN FOR HEALTH INC DENTAL PLAN	PACIFIC BELL WHITE PAGES	
	XL INC	PACIFIC BELL WHITE PAGES	
1984	Balboa Tower ofc bldg	R. L. Polk & Co.	Image pg. A5
	Sundy Hilton E chiropractor	R. L. Polk & Co.	Image pg. A5
	International Business Associates Inc process computer softwares^102^	R. L. Polk & Co.	Image pg. A5
	Evatt Smith Campbell lwyrs	R. L. Polk & Co.	Image pg. A5
	Vacant	R. L. Polk & Co.	Image pg. A5
	dfl P R C Gurainick sub ofc	R. L. Polk & Co.	Image pg. A5
	S & A Management Services accounting & tax serv	R. L. Polk & Co.	Image pg. A5
	Conrico Designs & Crafts graphic design	R. L. Polk & Co.	Image pg. A5
	Clark Richd D archt	R. L. Polk & Co.	Image pg. A5
	P R C Gurainick Inc	R. L. Polk & Co.	Image pg. A5
	P R C Technical Applications Inc Logistics Dept	R. L. Polk & Co.	Image pg. A5
	P R C Tech Applications Inc Tech research Br	R. L. Polk & Co.	Image pg. A5
	P R C Gurainick Quality Assurance	R. L. Polk & Co.	Image pg. A5
	Merit Protective Service Of Ca polygraph testing	R. L. Polk & Co.	Image pg. A5
	Clairemont Temporary Services	R. L. Polk & Co.	Image pg. A5
	Stilwell Benj W pathologist	R. L. Polk & Co.	Image pg. A5
	Vacant	R. L. Polk & Co.	Image pg. A5
	th Fl P R C Gurainick Sub Ofc	R. L. Polk & Co.	Image pg. A5
	th Fl P R C Marine Corp systems eng dept	R. L. Polk & Co.	Image pg. A5
	Smith Timothy N lwyr	R. L. Polk & Co.	Image pg. A5
	Selvig Lee W lwyr	R. L. Polk & Co.	Image pg. A5
	Vacant	R. L. Polk & Co.	Image pg. A5
	Vacant	R. L. Polk & Co.	Image pg. A5

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Year	Uses	Source	
1984	Halsey & Rasmussen lwyrs	R. L. Polk & Co.	Image pg. A5
	Bass Investigation Co	R. L. Polk & Co.	Image pg. A5
	Plan For Health health ins	R. L. Polk & Co.	Image pg. A5
	Ubiquitous Logistics computer programming	R. L. Polk & Co.	Image pg. A5
	X Logistics computer programmer	R. L. Polk & Co.	Image pg. A5
	Clairmont Graphics typesetting	R. L. Polk & Co.	Image pg. A5
	Federhart & Associates traffic consultant	R. L. Polk & Co.	Image pg. A5
	Franklin Insurance Service Corp ins brokers	R. L. Polk & Co.	Image pg. A5
	P R C Voorhees consulting	R. L. Polk & Co.	Image pg. A5
	P R C Technical Applications Inc sub ofc	R. L. Polk & Co.	Image pg. A5
	Vacant	R. L. Polk & Co.	Image pg. A5
	Learning Process Center The psychologist	R. L. Polk & Co.	Image pg. A5
	Vacant	R. L. Polk & Co.	Image pg. A5
	Vacant	R. L. Polk & Co.	Image pg. A5
	th Fl P R C Technical Applications Inc sub ofc	R. L. Polk & Co.	Image pg. A5
	th Fl Planning Research Corp marine eng	R. L. Polk & Co.	Image pg. A5
	L Southern California Golfer tablod newspaper	R. L. Polk & Co.	Image pg. A5
	Sunn Dale Apartments	R. L. Polk & Co.	Image pg. A6
	Mc Curley P	R. L. Polk & Co.	Image pg. A6
	Barr Greg	R. L. Polk & Co.	Image pg. A6
	Bradshaw J T	R. L. Polk & Co.	Image pg. A6
	Jenkins T L	R. L. Polk & Co.	Image pg. A6
	Stout Ronald	R. L. Polk & Co.	Image pg. A6
	Winter C	R. L. Polk & Co.	Image pg. A6
	Zaidi Ramona	R. L. Polk & Co.	Image pg. A6
	Rinehart Richd P	R. L. Polk & Co.	Image pg. A6
	Smith Jane Mrs	R. L. Polk & Co.	Image pg. A6
	Hyatt Robt F	R. L. Polk & Co.	Image pg. A6
	No Return	R. L. Polk & Co.	Image pg. A6
	Day Deborah	R. L. Polk & Co.	Image pg. A6
	Williams Lloyd R	R. L. Polk & Co.	Image pg. A6
	Wilmarth Doug	R. L. Polk & Co.	Image pg. A6
	Sampley Chas	R. L. Polk & Co.	Image pg. A6
	Register Zelma C	R. L. Polk & Co.	Image pg. A6
	Gholson Mildred Mrs	R. L. Polk & Co.	Image pg. A6
	Roddy Jean M	R. L. Polk & Co.	Image pg. A6

FINDINGS

Year	Uses	Source	
1984	No Return	R. L. Polk & Co.	Image pg. A6
	Grissom O L	R. L. Polk & Co.	Image pg. A6
	Shelvik Norman	R. L. Polk & Co.	Image pg. A6
	Westray M	R. L. Polk & Co.	Image pg. A6
	Mayer H	R. L. Polk & Co.	Image pg. A6
	Flint E	R. L. Polk & Co.	Image pg. A6
	Gaynor Michl G	R. L. Polk & Co.	Image pg. A6
	Nejat Mehran	R. L. Polk & Co.	Image pg. A6
	Campa Jose	R. L. Polk & Co.	Image pg. A6
	Livingston M	R. L. Polk & Co.	Image pg. A6
	Markworth Robt	R. L. Polk & Co.	Image pg. A6
	Dwyer C	R. L. Polk & Co.	Image pg. A6
	Garcia Miguel	R. L. Polk & Co.	Image pg. A6
	Quintanar Javier	R. L. Polk & Co.	Image pg. A6
	Weber Glen R	R. L. Polk & Co.	Image pg. A6
	Koval Ladislad	R. L. Polk & Co.	Image pg. A6
	Olsen Greg	R. L. Polk & Co.	Image pg. A6
	Avenetti David	R. L. Polk & Co.	Image pg. A6
	Rodrigues R	R. L. Polk & Co.	Image pg. A6
	Vacant	R. L. Polk & Co.	Image pg. A6
	Hedblad Margo	R. L. Polk & Co.	Image pg. A6
	Dyke John	R. L. Polk & Co.	Image pg. A6
	Buehler Chas A	R. L. Polk & Co.	Image pg. A6
	Williams Lloyd R	R. L. Polk & Co.	Image pg. A6
	Lockard K	R. L. Polk & Co.	Image pg. A6
	Larson Sandra K	R. L. Polk & Co.	Image pg. A6
	Risk Management Advisers Inc	R. L. Polk & Co.	Image pg. A6
	Whitney Edw A	R. L. Polk & Co.	Image pg. A6
	Vacant	R. L. Polk & Co.	Image pg. A6
	Majchrowicz David J	R. L. Polk & Co.	Image pg. A6
	Jackson T	R. L. Polk & Co.	Image pg. A6
	Hading Steven	R. L. Polk & Co.	Image pg. A6
	Keogh G	R. L. Polk & Co.	Image pg. A6
	Dunmire Jeffrey	R. L. Polk & Co.	Image pg. A6
	Groover Joel A	R. L. Polk & Co.	Image pg. A6
	Vacant	R. L. Polk & Co.	Image pg. A6
	Emmons B	R. L. Polk & Co.	Image pg. A6
	Karas Lynn	R. L. Polk & Co.	Image pg. A6

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Year	Uses	Source	
1984	Keeth John	R. L. Polk & Co.	Image pg. A6
	Giacalone Chas	R. L. Polk & Co.	Image pg. A6
	Miller Gail	R. L. Polk & Co.	Image pg. A6
	Petrovich David J	R. L. Polk & Co.	Image pg. A6
	Van Sky John	R. L. Polk & Co.	Image pg. A6
	Boyd John C	R. L. Polk & Co.	Image pg. A6
	Keffl Donna R	R. L. Polk & Co.	Image pg. A6
	Wiederholt Joseph V	R. L. Polk & Co.	Image pg. A6
	Pearson Mark	R. L. Polk & Co.	Image pg. A6
	Wise R	R. L. Polk & Co.	Image pg. A6
	Breddell P	R. L. Polk & Co.	Image pg. A6
	Thomas Tom	R. L. Polk & Co.	Image pg. A6
	Davis W	R. L. Polk & Co.	Image pg. A6
	Robbins Kenneth D	R. L. Polk & Co.	Image pg. A6
	Camito B	R. L. Polk & Co.	Image pg. A6
	Batten Fred	R. L. Polk & Co.	Image pg. A6
	Clingman John	R. L. Polk & Co.	Image pg. A6
	Bazel Vahid	R. L. Polk & Co.	Image pg. A6
	Cook Robt B	R. L. Polk & Co.	Image pg. A6
	Eichman D	R. L. Polk & Co.	Image pg. A6
	Thornhill B	R. L. Polk & Co.	Image pg. A6
	Ferry Lesta M	R. L. Polk & Co.	Image pg. A6
	Ramiriz M	R. L. Polk & Co.	Image pg. A6
	Van Gundy Chas C	R. L. Polk & Co.	Image pg. A6
	Young Thos S	R. L. Polk & Co.	Image pg. A6
	Smith Alan L	R. L. Polk & Co.	Image pg. A6
	Brughell James H	R. L. Polk & Co.	Image pg. A6
	Nelson Thos C	R. L. Polk & Co.	Image pg. A6
	Zinky Diane M	R. L. Polk & Co.	Image pg. A6
	Clark T J	R. L. Polk & Co.	Image pg. A6
	Phillippi J	R. L. Polk & Co.	Image pg. A6
	No Return	R. L. Polk & Co.	Image pg. A6
	Graham Jane A	R. L. Polk & Co.	Image pg. A6
	Randall V	R. L. Polk & Co.	Image pg. A6
	Buckwalter Norman R	R. L. Polk & Co.	Image pg. A6
	Aizeman Freida	R. L. Polk & Co.	Image pg. A6
	Jackson Matt	R. L. Polk & Co.	Image pg. A6
	ODonell Mary P	R. L. Polk & Co.	Image pg. A6

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Year	Uses	Source	
1984	Hays Larry	R. L. Polk & Co.	Image pg. A6
	Emmons Dana	R. L. Polk & Co.	Image pg. A6
	Daroogar Sohair	R. L. Polk & Co.	Image pg. A6
	Garcia Jose M	R. L. Polk & Co.	Image pg. A6
	Hall Michelle	R. L. Polk & Co.	Image pg. A6
	Vacant	R. L. Polk & Co.	Image pg. A6
	Garcia J	R. L. Polk & Co.	Image pg. A6
	Cramer K L	R. L. Polk & Co.	Image pg. A6
	Johnson Willy	R. L. Polk & Co.	Image pg. A6
	Vacant	R. L. Polk & Co.	Image pg. A6
	Ciccone P	R. L. Polk & Co.	Image pg. A6
	Vacant	R. L. Polk & Co.	Image pg. A6
	Thompson J	R. L. Polk & Co.	Image pg. A6
	Hammond Leslie	R. L. Polk & Co.	Image pg. A6
	Glapa Greg	R. L. Polk & Co.	Image pg. A6
	Cummings M	R. L. Polk & Co.	Image pg. A6
	Rozema James S	R. L. Polk & Co.	Image pg. A6
	Sheldon Robt	R. L. Polk & Co.	Image pg. A6
	Brown Chas B	R. L. Polk & Co.	Image pg. A6
	Murao Hitoshi	R. L. Polk & Co.	Image pg. A6
	Takazawa Kuniya	R. L. Polk & Co.	Image pg. A6
	Bellezar Felipi	R. L. Polk & Co.	Image pg. A6
	Clark Curtis L	R. L. Polk & Co.	Image pg. A6
	Elinoff S	R. L. Polk & Co.	Image pg. A6
	Cummings Paul R	R. L. Polk & Co.	Image pg. A6
	Clouse Dan	R. L. Polk & Co.	Image pg. A6
	Russell Kathy	R. L. Polk & Co.	Image pg. A6
	Vacant	R. L. Polk & Co.	Image pg. A6
	Watson Archie	R. L. Polk & Co.	Image pg. A6
	Gray N	R. L. Polk & Co.	Image pg. A6
	Lane R	R. L. Polk & Co.	Image pg. A6
	Morales Forhay	R. L. Polk & Co.	Image pg. A6
	Baldwin Hilda D	R. L. Polk & Co.	Image pg. A6
	Vacant	R. L. Polk & Co.	Image pg. A6
	Yamamoto T	R. L. Polk & Co.	Image pg. A6
	Johnson Michl	R. L. Polk & Co.	Image pg. A6
	Clements D	R. L. Polk & Co.	Image pg. A6
	Barrett Geo	R. L. Polk & Co.	Image pg. A6

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Year	Uses	Source	
1984	Vacant	R. L. Polk & Co.	Image pg. A6
	Disenjomo L	R. L. Polk & Co.	Image pg. A6
	Blankenship Greg	R. L. Polk & Co.	Image pg. A6
	Plumer Sara	R. L. Polk & Co.	Image pg. A6
	Davis O	R. L. Polk & Co.	Image pg. A6
	Stahl C	R. L. Polk & Co.	Image pg. A6
	King Danl	R. L. Polk & Co.	Image pg. A6
	Hagler Arnie J	R. L. Polk & Co.	Image pg. A6
	Gorman Robt J	R. L. Polk & Co.	Image pg. A6
	Parmenter Annie	R. L. Polk & Co.	Image pg. A6
	Baker J	R. L. Polk & Co.	Image pg. A6
	Wutherspoon John	R. L. Polk & Co.	Image pg. A6
	Wells Cathy	R. L. Polk & Co.	Image pg. A6
	Mendoza Rey	R. L. Polk & Co.	Image pg. A6
	Veihl Richd E	R. L. Polk & Co.	Image pg. A6
	Plummer Lynn M	R. L. Polk & Co.	Image pg. A6
	Kauvar David	R. L. Polk & Co.	Image pg. A6
	Prell L	R. L. Polk & Co.	Image pg. A6
	Shonkwiler Jerry	R. L. Polk & Co.	Image pg. A6
	Mc Lain M	R. L. Polk & Co.	Image pg. A6
	Higbee P	R. L. Polk & Co.	Image pg. A6
	Garber Joseph	R. L. Polk & Co.	Image pg. A6
	Izumi K	R. L. Polk & Co.	Image pg. A6
	Vernette M J	R. L. Polk & Co.	Image pg. A6
	Albers Wm H	R. L. Polk & Co.	Image pg. A6
	Vacant	R. L. Polk & Co.	Image pg. A6
	Entwisle James	R. L. Polk & Co.	Image pg. A6
	Canfield E V	R. L. Polk & Co.	Image pg. A6
	Aranda Carmen C	R. L. Polk & Co.	Image pg. A6
	Yasui Arth	R. L. Polk & Co.	Image pg. A6
	Greenburg P	R. L. Polk & Co.	Image pg. A6
	Stewart Cynthia	R. L. Polk & Co.	Image pg. A6
1980	Balboa Tower ofc bldg	R. L. Polk & Co.	Image pg. A11
	No Way Joses restr	R. L. Polk & Co.	Image pg. A11
	Acumen Associates resume serv	R. L. Polk & Co.	Image pg. A11
	Evatt Smith Campbell & Selvig	R. L. Polk & Co.	Image pg. A11
	Iwyrs	R. L. Polk & Co.	Image pg. A11
	Vacant	R. L. Polk & Co.	Image pg. A11

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Year	Uses	Source	
1980	dfl P R C Guralnick Sub Ofc	R. L. Polk & Co.	Image pg. A11
	S & A Management Services	R. L. Polk & Co.	Image pg. A11
	accounting & tax serv	R. L. Polk & Co.	Image pg. A11
	Conrico Designs & Crafts graphic	R. L. Polk & Co.	Image pg. A11
	design	R. L. Polk & Co.	Image pg. A11
	Clark Richd D archt	R. L. Polk & Co.	Image pg. A11
	P R C Guralnick Inc naval archt	R. L. Polk & Co.	Image pg. A11
	& eng	R. L. Polk & Co.	Image pg. A11
	P R C Technical Applications Inc	R. L. Polk & Co.	Image pg. A11
	Logistics Dept	R. L. Polk & Co.	Image pg. A11
	P R C Tech Applications Inc	R. L. Polk & Co.	Image pg. A11
	Tech research Br	R. L. Polk & Co.	Image pg. A11
	P R C Guralnick Sub Ofc	R. L. Polk & Co.	Image pg. A11
	J C A Company Japanese travel	R. L. Polk & Co.	Image pg. A11
	Stilwell Benj W phys	R. L. Polk & Co.	Image pg. A11
	Schwartz & Zeaman acct	R. L. Polk & Co.	Image pg. A11
	th Fl P R C Guralnick Sub Ofc	R. L. Polk & Co.	Image pg. A11
	th Fl P R C Technical Applications	R. L. Polk & Co.	Image pg. A11
	Inc systems eng dept	R. L. Polk & Co.	Image pg. A11
	Smith Timothy N lwyr	R. L. Polk & Co.	Image pg. A11
	Wittke Wm M lwyr	R. L. Polk & Co.	Image pg. A11
	Professional Management	R. L. Polk & Co.	Image pg. A11
	California Inc consul meddental acctg	R. L. Polk & Co.	Image pg. A11
	Quality Building Maintenance Co	R. L. Polk & Co.	Image pg. A11
	jan serv	R. L. Polk & Co.	Image pg. A11
	Halsey & Rasmussen lwyrs	R. L. Polk & Co.	Image pg. A11
	Davis & Baker Advertising	R. L. Polk & Co.	Image pg. A11
	Advanced Dental Care dental	R. L. Polk & Co.	Image pg. A11
	mgmnt	R. L. Polk & Co.	Image pg. A11
	Ubiquitous Logistics	R. L. Polk & Co.	Image pg. A11
	Bush Don & Associates real est	R. L. Polk & Co.	Image pg. A11
	Federhart & Associates traffic	R. L. Polk & Co.	Image pg. A11
	consultant	R. L. Polk & Co.	Image pg. A11
	Franklin Insurance Service Corp	R. L. Polk & Co.	Image pg. A11
	ins brokers	R. L. Polk & Co.	Image pg. A11
	P R C Technical Applications Inc	R. L. Polk & Co.	Image pg. A11
	sub ofc	R. L. Polk & Co.	Image pg. A11
	California College For Respiratory	R. L. Polk & Co.	Image pg. A11

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Year	Uses	Source	
1980	Therapy	R. L. Polk & Co.	Image pg. A11
	Learning Process Center The priv	R. L. Polk & Co.	Image pg. A11
	educ tutoring	R. L. Polk & Co.	Image pg. A11
	P R C Tech Applications Sub	R. L. Polk & Co.	Image pg. A11
	Ofc accts	R. L. Polk & Co.	Image pg. A11
	P R C Tech Applications Sub	R. L. Polk & Co.	Image pg. A11
	th Fl P R C Technical Applications	R. L. Polk & Co.	Image pg. A11
	Inc sub ofc	R. L. Polk & Co.	Image pg. A11
	th Fl P R C Technical Applications	R. L. Polk & Co.	Image pg. A11
	Inc Restricted Area eng	R. L. Polk & Co.	Image pg. A11
	services	R. L. Polk & Co.	Image pg. A11
	L San Diego Golfer magazine publ	R. L. Polk & Co.	Image pg. A11
	Sunn Dale Apartments	R. L. Polk & Co.	Image pg. A12
	No Return	R. L. Polk & Co.	Image pg. A12
	Espinoza Frank	R. L. Polk & Co.	Image pg. A12
	N Petrofsky Michi	R. L. Polk & Co.	Image pg. A12
	N Larsen S	R. L. Polk & Co.	Image pg. A12
	Branstiter Raymond P	R. L. Polk & Co.	Image pg. A12
	Miller David	R. L. Polk & Co.	Image pg. A12
	N Mc Cue Y	R. L. Polk & Co.	Image pg. A12
	Hamlin Matthew R	R. L. Polk & Co.	Image pg. A12
	Smith Lloyd	R. L. Polk & Co.	Image pg. A12
	Dunigans Debbie	R. L. Polk & Co.	Image pg. A12
	lll N Kruggel Natalie L	R. L. Polk & Co.	Image pg. A12
	N Schmidt Edw G	R. L. Polk & Co.	Image pg. A12
	Wallace Thos	R. L. Polk & Co.	Image pg. A12
	Vacant	R. L. Polk & Co.	Image pg. A12
	Register Zelma C	R. L. Polk & Co.	Image pg. A12
	Vacant	R. L. Polk & Co.	Image pg. A12
	Wright Eliz A	R. L. Polk & Co.	Image pg. A12
	N Bergman Harry	R. L. Polk & Co.	Image pg. A12
	Sarvis	R. L. Polk & Co.	Image pg. A12
	Mann D F	R. L. Polk & Co.	Image pg. A12
	No Return	R. L. Polk & Co.	Image pg. A12
	Vacant	R. L. Polk & Co.	Image pg. A12
	N Whitman Kristopher J	R. L. Polk & Co.	Image pg. A12
	Mitchell Myolanda	R. L. Polk & Co.	Image pg. A12
	N Baysic M	R. L. Polk & Co.	Image pg. A12

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Year	Uses	Source	
1980	Vacant	R. L. Polk & Co.	Image pg. A12
	Bozym Cristopher R	R. L. Polk & Co.	Image pg. A12
	N Chaney T	R. L. Polk & Co.	Image pg. A12
	Dwyer	R. L. Polk & Co.	Image pg. A12
	Me Dade	R. L. Polk & Co.	Image pg. A12
	Verbanic Francis E	R. L. Polk & Co.	Image pg. A12
	No Return	R. L. Polk & Co.	Image pg. A12
	No Return	R. L. Polk & Co.	Image pg. A12
	Vacant	R. L. Polk & Co.	Image pg. A12
	Larson K	R. L. Polk & Co.	Image pg. A12
	Hamilton Michl J	R. L. Polk & Co.	Image pg. A12
	Vacant	R. L. Polk & Co.	Image pg. A12
	N White D B	R. L. Polk & Co.	Image pg. A12
	Vacant	R. L. Polk & Co.	Image pg. A12
	N Nelson James	R. L. Polk & Co.	Image pg. A12
	Williams Lloyd R	R. L. Polk & Co.	Image pg. A12
	Walton Val	R. L. Polk & Co.	Image pg. A12
	N Paymard Th	R. L. Polk & Co.	Image pg. A12
	Vacant	R. L. Polk & Co.	Image pg. A12
	Summers Kenneth G	R. L. Polk & Co.	Image pg. A12
	Marshall David L	R. L. Polk & Co.	Image pg. A12
	N Johnson Curtiss E	R. L. Polk & Co.	Image pg. A12
	Collins M E	R. L. Polk & Co.	Image pg. A12
	Marcus Martin S	R. L. Polk & Co.	Image pg. A12
	Vacant	R. L. Polk & Co.	Image pg. A12
	Hannasch Paul R	R. L. Polk & Co.	Image pg. A12
	N Dinincezo Allan	R. L. Polk & Co.	Image pg. A12
	Bias	R. L. Polk & Co.	Image pg. A12
	Emmons	R. L. Polk & Co.	Image pg. A12
	Hardin	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Jones M E	R. L. Polk & Co.	Image pg. A13
	N Young Kevin	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Brown Richd K	R. L. Polk & Co.	Image pg. A13
	N William	R. L. Polk & Co.	Image pg. A13
	Mobile Auto Repr	R. L. Polk & Co.	Image pg. A13

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Year	Uses	Source	
1980	No Return	R. L. Polk & Co.	Image pg. A13
	N Travali Frank D	R. L. Polk & Co.	Image pg. A13
	N Rockwell Richd	R. L. Polk & Co.	Image pg. A13
	Lyng	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Haerter D W	R. L. Polk & Co.	Image pg. A13
	N Nelson Rodney	R. L. Polk & Co.	Image pg. A13
	Lindsey David C	R. L. Polk & Co.	Image pg. A13
	N Jones Ernie	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Evans April	R. L. Polk & Co.	Image pg. A13
	N Hamme Greg	R. L. Polk & Co.	Image pg. A13
	Ferry Lesta M	R. L. Polk & Co.	Image pg. A13
	Dyer Keith E	R. L. Polk & Co.	Image pg. A13
	N Van Gungy Chas C	R. L. Polk & Co.	Image pg. A13
	N Rhamy Linda L	R. L. Polk & Co.	Image pg. A13
	Gallant Terry B	R. L. Polk & Co.	Image pg. A13
	N Loeffler Amy B	R. L. Polk & Co.	Image pg. A13
	N Burt Wayne F Jr	R. L. Polk & Co.	Image pg. A13
	Kelley Steph M	R. L. Polk & Co.	Image pg. A13
	N Watta A M	R. L. Polk & Co.	Image pg. A13
	N Green Darrell	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Graham Jane A	R. L. Polk & Co.	Image pg. A13
	Randall V	R. L. Polk & Co.	Image pg. A13
	N Buckwalter Norman R	R. L. Polk & Co.	Image pg. A13
	Aizeman Freida	R. L. Polk & Co.	Image pg. A13
	N r Martin M	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Vajgert Michi E	R. L. Polk & Co.	Image pg. A13
	Dresser Dennis D	R. L. Polk & Co.	Image pg. A13
	Me Elwee Richd	R. L. Polk & Co.	Image pg. A13
	N Ghodsi Mehran	R. L. Polk & Co.	Image pg. A13
	Garcia Jose M	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Schatz Martin	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13

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Year	Uses	Source	
1980	N Pabian Raiko	R. L. Polk & Co.	Image pg. A13
	N Miller Joey	R. L. Polk & Co.	Image pg. A13
	N Mediano Adolfo	R. L. Polk & Co.	Image pg. A13
	N Hampton Chris	R. L. Polk & Co.	Image pg. A13
	N Waddingham Thos	R. L. Polk & Co.	Image pg. A13
	N Singson Bien C	R. L. Polk & Co.	Image pg. A13
	Brewer Jas J	R. L. Polk & Co.	Image pg. A13
	N Kaylor S E	R. L. Polk & Co.	Image pg. A13
	Herring Terri	R. L. Polk & Co.	Image pg. A13
	N Gant Mike	R. L. Polk & Co.	Image pg. A13
	Mauss Robt A	R. L. Polk & Co.	Image pg. A13
	N ORourke Ron S	R. L. Polk & Co.	Image pg. A13
	N Robinson Karen	R. L. Polk & Co.	Image pg. A13
	N Colsten Lynn	R. L. Polk & Co.	Image pg. A13
	Young Delores B Mrs	R. L. Polk & Co.	Image pg. A13
	N Pedersen Barbara	R. L. Polk & Co.	Image pg. A13
	Plant L D	R. L. Polk & Co.	Image pg. A13
	N Telep Timothy	R. L. Polk & Co.	Image pg. A13
	Brown Lee	R. L. Polk & Co.	Image pg. A13
	Terry Harry L	R. L. Polk & Co.	Image pg. A13
	N Anthony John F	R. L. Polk & Co.	Image pg. A13
	N Sabatino M L	R. L. Polk & Co.	Image pg. A13
	Pipkins Jas F	R. L. Polk & Co.	Image pg. A13
	N Gonzalez J	R. L. Polk & Co.	Image pg. A13
	N Baldwin Hilda D	R. L. Polk & Co.	Image pg. A13
	N Nobahar Moahmood	R. L. Polk & Co.	Image pg. A13
	N Martin John	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Beard Paula J	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Koozin Linda	R. L. Polk & Co.	Image pg. A13
	N Sorcic Carl	R. L. Polk & Co.	Image pg. A13
	Wimbush Clarence	R. L. Polk & Co.	Image pg. A13
	N Plumer Sara	R. L. Polk & Co.	Image pg. A13
	N Darrow David R	R. L. Polk & Co.	Image pg. A13
	N Lorenz Staci	R. L. Polk & Co.	Image pg. A13
	King Danl	R. L. Polk & Co.	Image pg. A13
	N Thomas Thos N	R. L. Polk & Co.	Image pg. A13

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Year	Uses	Source	
1980	N Smiley K K	R. L. Polk & Co.	Image pg. A13
	N Parmenter Annie	R. L. Polk & Co.	Image pg. A13
	N Skinner Bill	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Me Carthy Mary E	R. L. Polk & Co.	Image pg. A13
	N Gates Roosevelt	R. L. Polk & Co.	Image pg. A13
	N Bullard Lawrence S Jr	R. L. Polk & Co.	Image pg. A13
	N Plummer Lynn M	R. L. Polk & Co.	Image pg. A13
	N Buchanan Tom J	R. L. Polk & Co.	Image pg. A13
	N Harter Mary	R. L. Polk & Co.	Image pg. A13
	N Shonkwiler Jerry	R. L. Polk & Co.	Image pg. A13
	N Cheng Dara	R. L. Polk & Co.	Image pg. A13
	N Paymard Tahereh	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Rerez Javier	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Albers Wm H	R. L. Polk & Co.	Image pg. A13
	N Behrman Eric	R. L. Polk & Co.	Image pg. A13
	N Entwisle James	R. L. Polk & Co.	Image pg. A13
	Garner Richd T	R. L. Polk & Co.	Image pg. A13
	N Joyner James R	R. L. Polk & Co.	Image pg. A13
	N Yasui Arth	R. L. Polk & Co.	Image pg. A13
	N Barnhouse Rick	R. L. Polk & Co.	Image pg. A13
	N Stewart Cynthia	R. L. Polk & Co.	Image pg. A13
	Apartments	R. L. Polk & Co.	Image pg. A13
	Bartron Donna	R. L. Polk & Co.	Image pg. A13
	N Simms John	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Lynch Wm	R. L. Polk & Co.	Image pg. A13
	Martin Norman R	R. L. Polk & Co.	Image pg. A13
	Bernstein Danielle M Mrs	R. L. Polk & Co.	Image pg. A13
	N Lee Steven	R. L. Polk & Co.	Image pg. A13
	Troy G L	R. L. Polk & Co.	Image pg. A13
	N Virabalin Chukiat	R. L. Polk & Co.	Image pg. A13
	Anderson Wm M	R. L. Polk & Co.	Image pg. A13
	Kooharian Donna	R. L. Polk & Co.	Image pg. A13
	N Bradford Ronald H	R. L. Polk & Co.	Image pg. A13

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Year	Uses	Source	
1980	Simental Ron	R. L. Polk & Co.	Image pg. A13
	N Rule Gerard	R. L. Polk & Co.	Image pg. A13
	No Return	R. L. Polk & Co.	Image pg. A13
	No Return	R. L. Polk & Co.	Image pg. A13
	Moran Michl	R. L. Polk & Co.	Image pg. A13
	Abrams	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Alba Roy	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Mechling Wayne M	R. L. Polk & Co.	Image pg. A13
	N Frazier Clyde Jr	R. L. Polk & Co.	Image pg. A13
	Erwin Linda K	R. L. Polk & Co.	Image pg. A13
	Myers Virginia	R. L. Polk & Co.	Image pg. A13
	Lord Charles W	R. L. Polk & Co.	Image pg. A13
	N Armenta D	R. L. Polk & Co.	Image pg. A13
	Willis R	R. L. Polk & Co.	Image pg. A13
	Dickerson F	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Vickers Ray L	R. L. Polk & Co.	Image pg. A13
	N Hirata Koichi	R. L. Polk & Co.	Image pg. A13
	Costelloe Kevin T	R. L. Polk & Co.	Image pg. A13
	N Joyner Alice P	R. L. Polk & Co.	Image pg. A13
	Bryan Woodrow Wm landscaper	R. L. Polk & Co.	Image pg. A13
	N Thomas Michi	R. L. Polk & Co.	Image pg. A13
	Woolridge Adrian	R. L. Polk & Co.	Image pg. A13
	Mumma Donald F	R. L. Polk & Co.	Image pg. A13
	Kondo Takako	R. L. Polk & Co.	Image pg. A13
	Kaplan	R. L. Polk & Co.	Image pg. A13
	N Amold Wm	R. L. Polk & Co.	Image pg. A13
	N Mallett Connie	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Suttles J L	R. L. Polk & Co.	Image pg. A13
	N Vachhani Jagdish	R. L. Polk & Co.	Image pg. A13
	Comstock Frank H	R. L. Polk & Co.	Image pg. A13
	Kinuaid	R. L. Polk & Co.	Image pg. A13
	Matina Wm S	R. L. Polk & Co.	Image pg. A13
	Cullinan	R. L. Polk & Co.	Image pg. A13
	Najimy Thos P	R. L. Polk & Co.	Image pg. A13

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Year	Uses	Source	
1980	Vacant	R. L. Polk & Co.	Image pg. A13
	N Thompson Ken	R. L. Polk & Co.	Image pg. A13
	Muenkel David	R. L. Polk & Co.	Image pg. A13
	Chester J	R. L. Polk & Co.	Image pg. A13
	Cacapit	R. L. Polk & Co.	Image pg. A13
	N Chang Choong Seock	R. L. Polk & Co.	Image pg. A13
	Faulk Fred A	R. L. Polk & Co.	Image pg. A13
	Thompson Philip L	R. L. Polk & Co.	Image pg. A13
	Leask Charles A	R. L. Polk & Co.	Image pg. A13
	N Milazzo D	R. L. Polk & Co.	Image pg. A13
	N Mc Night Collis	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Stewart Larry	R. L. Polk & Co.	Image pg. A13
	Adams E	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Disralli R C	R. L. Polk & Co.	Image pg. A13
	N Smith Dennis E	R. L. Polk & Co.	Image pg. A13
	Reposa	R. L. Polk & Co.	Image pg. A13
	Mahnke Danille	R. L. Polk & Co.	Image pg. A13
	N Gangloff Lee Jr	R. L. Polk & Co.	Image pg. A13
	N Robertaon Shirley	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Poole Jacob H III	R. L. Polk & Co.	Image pg. A13
	Bacon Donald F	R. L. Polk & Co.	Image pg. A13
	N Foster Paul	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	No Return	R. L. Polk & Co.	Image pg. A13
	N Kerry John	R. L. Polk & Co.	Image pg. A13
	No Return	R. L. Polk & Co.	Image pg. A13
	N Bolin Clara	R. L. Polk & Co.	Image pg. A13
	Tomlinson Patk K	R. L. Polk & Co.	Image pg. A13
	N Anvar S M	R. L. Polk & Co.	Image pg. A13
	Rollins David L	R. L. Polk & Co.	Image pg. A13
	Nesbit John B	R. L. Polk & Co.	Image pg. A13
	Hanna Albert N	R. L. Polk & Co.	Image pg. A13
	Apartments	R. L. Polk & Co.	Image pg. A13
	Veeder Peggy A Mrs	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13

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Year	Uses	Source	
1980	N Greene James R	R. L. Polk & Co.	Image pg. A13
	Badel Karen	R. L. Polk & Co.	Image pg. A13
	No Return	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Pappacosta John D	R. L. Polk & Co.	Image pg. A13
	N Conyer Jon	R. L. Polk & Co.	Image pg. A13
	N Issac Dennis	R. L. Polk & Co.	Image pg. A13
	N Jackson C	R. L. Polk & Co.	Image pg. A13
	N Busse Carol	R. L. Polk & Co.	Image pg. A13
	N Emerson S D	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Freeman Steve	R. L. Polk & Co.	Image pg. A13
	N Roach Lew	R. L. Polk & Co.	Image pg. A13
	Shaw Eliz M	R. L. Polk & Co.	Image pg. A13
	Bhatti	R. L. Polk & Co.	Image pg. A13
	Christensen	R. L. Polk & Co.	Image pg. A13
	No Return	R. L. Polk & Co.	Image pg. A13
	Nappi	R. L. Polk & Co.	Image pg. A13
	N Or Hayes Pam	R. L. Polk & Co.	Image pg. A13
	N Szalapski Robt	R. L. Polk & Co.	Image pg. A13
	N Dunning James F	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Smith Norman M	R. L. Polk & Co.	Image pg. A13
	Saint Clair Leslie B	R. L. Polk & Co.	Image pg. A13
	Golden Paul D	R. L. Polk & Co.	Image pg. A13
	N Dawson	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	Miller R	R. L. Polk & Co.	Image pg. A13
	Bruton Lois D	R. L. Polk & Co.	Image pg. A13
	N Nekoui Toad	R. L. Polk & Co.	Image pg. A13
	Choe Chungcha Mrs	R. L. Polk & Co.	Image pg. A13
	N Wakabayashi Akiko	R. L. Polk & Co.	Image pg. A13
	Porter J R	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Courtoise Denise	R. L. Polk & Co.	Image pg. A13
	N Thomas Hank	R. L. Polk & Co.	Image pg. A13
	Steber	R. L. Polk & Co.	Image pg. A13

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Year	Uses	Source	
1980	Vacant	R. L. Polk & Co.	Image pg. A13
	N Badrakhan Seifeddin T	R. L. Polk & Co.	Image pg. A13
	N White Jeff	R. L. Polk & Co.	Image pg. A13
	Treet	R. L. Polk & Co.	Image pg. A13
	N Cooper Donovan L	R. L. Polk & Co.	Image pg. A13
	N Storer Robt H	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Creehan Joe	R. L. Polk & Co.	Image pg. A13
	Rice Donald E	R. L. Polk & Co.	Image pg. A13
	Vacant	R. L. Polk & Co.	Image pg. A13
	N Hudson Chas A	R. L. Polk & Co.	Image pg. A13
	Rhoads Gregory A	R. L. Polk & Co.	Image pg. A13
	N Barbaro Geo J	R. L. Polk & Co.	Image pg. A13
1975	Balboa Tower ofc bldg	R. L. Polk & Co.	Image pg. A18
	Taurus Steak & Lobster House	R. L. Polk & Co.	Image pg. A18
	restr	R. L. Polk & Co.	Image pg. A18
	Balboa House Liquors	R. L. Polk & Co.	Image pg. A18
	Vacant	R. L. Polk & Co.	Image pg. A18
	S & A Management Services	R. L. Polk & Co.	Image pg. A18
	accounting & tax serv	R. L. Polk & Co.	Image pg. A18
	Vacant	R. L. Polk & Co.	Image pg. A18
	Doctors Credit Service	R. L. Polk & Co.	Image pg. A18
	Lindora Medical Clinic	R. L. Polk & Co.	Image pg. A18
	investment consultants	R. L. Polk & Co.	Image pg. A18
	Pacific Telephone & Telegraph Co	R. L. Polk & Co.	Image pg. A18
	Hemophilia Association Of San	R. L. Polk & Co.	Image pg. A18
	Diego County non profit orgn	R. L. Polk & Co.	Image pg. A18
	Alarms Unlimited burglar alarm	R. L. Polk & Co.	Image pg. A18
	Vacant	R. L. Polk & Co.	Image pg. A18
	Bean Martin & Associates adv agcy	R. L. Polk & Co.	Image pg. A18
	Stilwell Beni W phys	R. L. Polk & Co.	Image pg. A18
	Vacant	R. L. Polk & Co.	Image pg. A18
	Vacant	R. L. Polk & Co.	Image pg. A18
	Schwarz Michl J acct	R. L. Polk & Co.	Image pg. A18
	Vacant Suite	R. L. Polk & Co.	Image pg. A18
	Ducker Realty	R. L. Polk & Co.	Image pg. A18
	Lndley Edw business broker	R. L. Polk & Co.	Image pg. A18
	Gibbeon Co Inc ins	R. L. Polk & Co.	Image pg. A18

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1975	Tanower Inc chem marketing	R. L. Polk & Co.	Image pg. A18
	Clairemoint Hop Conference Rm	R. L. Polk & Co.	Image pg. A18
	Security Mutual Life Of	R. L. Polk & Co.	Image pg. A18
	Nebraska ins	R. L. Polk & Co.	Image pg. A18
	Quality Building Maintenance Co	R. L. Polk & Co.	Image pg. A18
	Campbell Patk D Iwyr	R. L. Polk & Co.	Image pg. A18
	Evatt Timothy G Iwyr	R. L. Polk & Co.	Image pg. A18
	Smith Mary L Iwyr	R. L. Polk & Co.	Image pg. A18
	Smith Timothy N Iwyr	R. L. Polk & Co.	Image pg. A18
	Sherrard Lee Realty	R. L. Polk & Co.	Image pg. A18
	Professional Management	R. L. Polk & Co.	Image pg. A18
	California Inc Consultants	R. L. Polk & Co.	Image pg. A18
	Davis & Baker Advertising	R. L. Polk & Co.	Image pg. A18
	Vacant	R. L. Polk & Co.	Image pg. A18
	Vacant	R. L. Polk & Co.	Image pg. A18
	Franklin Insurance Service Corp	R. L. Polk & Co.	Image pg. A18
	ins brokers	R. L. Polk & Co.	Image pg. A18
	Upton M G & Co Inc financial	R. L. Polk & Co.	Image pg. A18
	advisor	R. L. Polk & Co.	Image pg. A18
	Great West Auto Dealers Services	R. L. Polk & Co.	Image pg. A18
	Inc ins broker	R. L. Polk & Co.	Image pg. A18
	B H T Associates property	R. L. Polk & Co.	Image pg. A18
	management	R. L. Polk & Co.	Image pg. A18
	Balboa Tower Ofc	R. L. Polk & Co.	Image pg. A18
	Texas Instruments Inc electronics mfr	R. L. Polk & Co.	Image pg. A18
	th Fl P R C Technical Applications	R. L. Polk & Co.	Image pg. A18
	systems eng	R. L. Polk & Co.	Image pg. A18
	th Fl Mason Towne Engineering	R. L. Polk & Co.	Image pg. A18
	consulting engs	R. L. Polk & Co.	Image pg. A18
	th Fl Planning Research Corp	R. L. Polk & Co.	Image pg. A18
	consultants	R. L. Polk & Co.	Image pg. A18
	th Fl General Analysis Inc civ engs	R. L. Polk & Co.	Image pg. A18
	th Fl Voorhees Allan M Inc traffic	R. L. Polk & Co.	Image pg. A18
	consultants	R. L. Polk & Co.	Image pg. A18
	Sunn Dale Apartments	R. L. Polk & Co.	Image pg. A19
	Armstrong Douglas	R. L. Polk & Co.	Image pg. A19
	Coleman Anthony H	R. L. Polk & Co.	Image pg. A19
	Berkshire Raymond	R. L. Polk & Co.	Image pg. A19

FINDINGS

Year	Uses	Source	
1975	Ellia Patricia Mrs	R. L. Polk & Co.	Image pg. A19
	Harrison Wm G	R. L. Polk & Co.	Image pg. A19
	Peterson Janet	R. L. Polk & Co.	Image pg. A19
	Louaaia Bernardos P	R. L. Polk & Co.	Image pg. A19
	Ott John Jr	R. L. Polk & Co.	Image pg. A19
	Peterson John C	R. L. Polk & Co.	Image pg. A19
	Belchez Susan	R. L. Polk & Co.	Image pg. A19
	Odom Dennis R	R. L. Polk & Co.	Image pg. A19
	Quinn Deborah Mrs	R. L. Polk & Co.	Image pg. A19
	Ludwig Robt E	R. L. Polk & Co.	Image pg. A19
	Curry Gaylene Mrs	R. L. Polk & Co.	Image pg. A19
	Younger Cheryl A Mrs	R. L. Polk & Co.	Image pg. A19
	Hall Leonard K	R. L. Polk & Co.	Image pg. A19
	Cross Armand	R. L. Polk & Co.	Image pg. A19
	Desono Felix	R. L. Polk & Co.	Image pg. A19
	North Junior E	R. L. Polk & Co.	Image pg. A19
	Hartman Gene A	R. L. Polk & Co.	Image pg. A19
	Carter Robt C	R. L. Polk & Co.	Image pg. A19
	Rettig Lorraine Mrs	R. L. Polk & Co.	Image pg. A19
	Miles Janice Mrs	R. L. Polk & Co.	Image pg. A19
	Ray Joanne Mrs	R. L. Polk & Co.	Image pg. A19
	Wilson Julia A	R. L. Polk & Co.	Image pg. A19
	Barker Nancy A	R. L. Polk & Co.	Image pg. A19
	Sperber Diane G Mrs	R. L. Polk & Co.	Image pg. A19
	Smith Frances	R. L. Polk & Co.	Image pg. A19
	Buckley John M	R. L. Polk & Co.	Image pg. A19
	Rose Andrew D	R. L. Polk & Co.	Image pg. A19
	Schiefer Frank T	R. L. Polk & Co.	Image pg. A19
	Hared Roni	R. L. Polk & Co.	Image pg. A19
	Crawford Eula	R. L. Polk & Co.	Image pg. A19
	Honey Fredk J	R. L. Polk & Co.	Image pg. A19
	Dickens Lonnie C	R. L. Polk & Co.	Image pg. A19
	Vacant	R. L. Polk & Co.	Image pg. A19
	Tait John F	R. L. Polk & Co.	Image pg. A19
	Becksfort Scott W	R. L. Polk & Co.	Image pg. A19
	Fortina Sharon	R. L. Polk & Co.	Image pg. A19
	Clark Joe	R. L. Polk & Co.	Image pg. A19
	Waleh Jeralyn Mrs	R. L. Polk & Co.	Image pg. A19

FINDINGS

Year	Uses	Source	
1975	Ringo Alvin	R. L. Polk & Co.	Image pg. A19
	Ciaravino Gail	R. L. Polk & Co.	Image pg. A19
	Majerak Stephen F	R. L. Polk & Co.	Image pg. A19
	Hargreaves Nanette D Mrs	R. L. Polk & Co.	Image pg. A19
	Summers Kenneth G	R. L. Polk & Co.	Image pg. A19
	Kloceman Fredk	R. L. Polk & Co.	Image pg. A19
	Meaux Chris	R. L. Polk & Co.	Image pg. A19
	Hayward Donald	R. L. Polk & Co.	Image pg. A19
	Emery Sheila	R. L. Polk & Co.	Image pg. A19
	Stewart Larry	R. L. Polk & Co.	Image pg. A19
	Shein Sona	R. L. Polk & Co.	Image pg. A19
	Derson Mark	R. L. Polk & Co.	Image pg. A19
	Cyborowski Kirk R	R. L. Polk & Co.	Image pg. A19
	Vacant	R. L. Polk & Co.	Image pg. A19
	Kennedy Ruth H	R. L. Polk & Co.	Image pg. A19
	Thornton J W	R. L. Polk & Co.	Image pg. A19
	Bush Michl	R. L. Polk & Co.	Image pg. A19
	Key Kenneth	R. L. Polk & Co.	Image pg. A19
	Nelson Wm D	R. L. Polk & Co.	Image pg. A19
	Mize Lessa R	R. L. Polk & Co.	Image pg. A19
	Bennett Carolyn A	R. L. Polk & Co.	Image pg. A19
	Simmons Cedle J	R. L. Polk & Co.	Image pg. A19
	Register Zelma Mrs	R. L. Polk & Co.	Image pg. A19
	Henderson Jim	R. L. Polk & Co.	Image pg. A19
	Hechingson Richd	R. L. Polk & Co.	Image pg. A19
	Soper Dan B	R. L. Polk & Co.	Image pg. A19
	Burkett David W	R. L. Polk & Co.	Image pg. A19
	Escario Anastacio A	R. L. Polk & Co.	Image pg. A19
	Burkland Kris	R. L. Polk & Co.	Image pg. A19
	Stock Glen	R. L. Polk & Co.	Image pg. A19
	Arthur Marilyn A	R. L. Polk & Co.	Image pg. A19
	Gross Wm T	R. L. Polk & Co.	Image pg. A19
	Tozn Randal L	R. L. Polk & Co.	Image pg. A19
	Howlaon Mark R	R. L. Polk & Co.	Image pg. A19
	Ohno Mekio	R. L. Polk & Co.	Image pg. A19
	Sipherd Marc	R. L. Polk & Co.	Image pg. A19
	Johnson Evelyn	R. L. Polk & Co.	Image pg. A19
	Baker James	R. L. Polk & Co.	Image pg. A19

FINDINGS

Year	Uses	Source	
1975	Miller Pamela A	R. L. Polk & Co.	Image pg. A19
	Mc Laughlin Jay	R. L. Polk & Co.	Image pg. A19
	Ball Newton E	R. L. Polk & Co.	Image pg. A19
	Drew Inez M	R. L. Polk & Co.	Image pg. A19
	Vacant	R. L. Polk & Co.	Image pg. A19
	Underwood Ann	R. L. Polk & Co.	Image pg. A19
	Barbachano John	R. L. Polk & Co.	Image pg. A19
	Kaufman Jon K	R. L. Polk & Co.	Image pg. A19
	Armstrong Raymond M	R. L. Polk & Co.	Image pg. A19
	Elwell Jack B	R. L. Polk & Co.	Image pg. A19
	Johnson Cary L	R. L. Polk & Co.	Image pg. A19
	Nagle Todd	R. L. Polk & Co.	Image pg. A19
	Campbe U Leonard Jr	R. L. Polk & Co.	Image pg. A19
	Milea Thelma	R. L. Polk & Co.	Image pg. A19
	Isaac Richd	R. L. Polk & Co.	Image pg. A19
	Pecjak Dale J	R. L. Polk & Co.	Image pg. A19
	Distor Saturnino	R. L. Polk & Co.	Image pg. A19
	Bauer Edw	R. L. Polk & Co.	Image pg. A19
	Sholtz Ralph	R. L. Polk & Co.	Image pg. A19
	Shaw Deborah	R. L. Polk & Co.	Image pg. A19
	Mowry Robt W	R. L. Polk & Co.	Image pg. A19
	Patmon Lynda	R. L. Polk & Co.	Image pg. A19
	Daniels Terry Mrs	R. L. Polk & Co.	Image pg. A19
	Park Khee	R. L. Polk & Co.	Image pg. A19
	Diaz Edwardo	R. L. Polk & Co.	Image pg. A19
	Catmufl Donald R	R. L. Polk & Co.	Image pg. A19
	Piatkowski Kaz	R. L. Polk & Co.	Image pg. A19
	Leonard Edw A	R. L. Polk & Co.	Image pg. A19
	Lombrado Donna	R. L. Polk & Co.	Image pg. A19
	Gaebler Milton W	R. L. Polk & Co.	Image pg. A19
	Ravelomantsoa Jean L	R. L. Polk & Co.	Image pg. A19
	Matina Wm	R. L. Polk & Co.	Image pg. A19
	Elliot Robt N	R. L. Polk & Co.	Image pg. A19
	Beeley Ronald L	R. L. Polk & Co.	Image pg. A19
	Hall Daniels	R. L. Polk & Co.	Image pg. A19
	Marina Jose	R. L. Polk & Co.	Image pg. A19
	Reed Anthony	R. L. Polk & Co.	Image pg. A19
	Allard Richd	R. L. Polk & Co.	Image pg. A19

FINDINGS

Year	Uses	Source	
1975	Howard Alice Mrs	R. L. Polk & Co.	Image pg. A19
	Voss Adam J	R. L. Polk & Co.	Image pg. A19
	Steid Marie	R. L. Polk & Co.	Image pg. A19
	Clark Robt R	R. L. Polk & Co.	Image pg. A19
	Wickizer Margt M Mrs	R. L. Polk & Co.	Image pg. A19
	Vacant	R. L. Polk & Co.	Image pg. A19
	Rodgers Richd L	R. L. Polk & Co.	Image pg. A19
	Banks Audrey Mrs	R. L. Polk & Co.	Image pg. A19
	Tichenor Wm F	R. L. Polk & Co.	Image pg. A19
	Williama Hilda Mrs	R. L. Polk & Co.	Image pg. A19
	Bullock Marianne Mrs	R. L. Polk & Co.	Image pg. A19
	Singh Promilla G Mrs	R. L. Polk & Co.	Image pg. A19
	Kaneaster Juanita Mrs	R. L. Polk & Co.	Image pg. A19
	Kuck Dennis	R. L. Polk & Co.	Image pg. A20
	Kardela Henry S	R. L. Polk & Co.	Image pg. A20
	Koozin Frank	R. L. Polk & Co.	Image pg. A20
	Mitchell Diane	R. L. Polk & Co.	Image pg. A20
	Cunningham Susan D Mrs	R. L. Polk & Co.	Image pg. A20
	Vacant	R. L. Polk & Co.	Image pg. A20
	Pollak John	R. L. Polk & Co.	Image pg. A20
	Vacant	R. L. Polk & Co.	Image pg. A20
	Randant Martin F	R. L. Polk & Co.	Image pg. A20
	Cates Richd F	R. L. Polk & Co.	Image pg. A20
	Vacant	R. L. Polk & Co.	Image pg. A20
	Phillips Mary	R. L. Polk & Co.	Image pg. A20
	Soria Pamela J	R. L. Polk & Co.	Image pg. A20
	White Greg	R. L. Polk & Co.	Image pg. A20
	Masters Pat	R. L. Polk & Co.	Image pg. A20
	Folkerson David	R. L. Polk & Co.	Image pg. A20
	Miller Cris R	R. L. Polk & Co.	Image pg. A20
	Ballard Theresa	R. L. Polk & Co.	Image pg. A20
	Jerrigan David	R. L. Polk & Co.	Image pg. A20
	Angus Michi	R. L. Polk & Co.	Image pg. A20
	Vacant	R. L. Polk & Co.	Image pg. A20
	Epstein Anne Mrs	R. L. Polk & Co.	Image pg. A20
	Yingling K Alan	R. L. Polk & Co.	Image pg. A20
	Hidenshie Id Virginia	R. L. Polk & Co.	Image pg. A20
	French Richd	R. L. Polk & Co.	Image pg. A20

FINDINGS

Year	Uses	Source	
1975	Wilkins Joseph L	R. L. Polk & Co.	Image pg. A20
	Purtle Jack	R. L. Polk & Co.	Image pg. A20
	Saxnuelson Terry	R. L. Polk & Co.	Image pg. A20
	Byas Donald	R. L. Polk & Co.	Image pg. A20
	Garner Richd T	R. L. Polk & Co.	Image pg. A20
	Lydon Colleen	R. L. Polk & Co.	Image pg. A20
	Snyder Dan I Jr	R. L. Polk & Co.	Image pg. A20
	Pischinger Dave	R. L. Polk & Co.	Image pg. A20
	Kogut Sharon L	R. L. Polk & Co.	Image pg. A20

5270 Balboa Ave

Year	Uses	Source	
2006	RITE AID EXPRESS 1 HOUR PHOTO	Haines Company, Inc.	Image pg. A1
2000	NOBLE PACIFIC CONSTRUCTION CO	Haines Company, Inc.	

E GENESEE AVE

4282 E GENESEE AVE

Year	Uses	Source
1992	Ritchken Simon MMD	PACIFIC BELL WHITE PAGES
	Ritchlin S	PACIFIC BELL WHITE PAGES

Genesee Ave

4282 Genesee Ave

Year	Uses	Source
2014	LEVINSON AND LALIOTIS MDS	EDR Digital Archive
	KIDOKORO YASUKO MD	EDR Digital Archive
	SAN DIEGO HEARING CENTER	EDR Digital Archive
	GARY D LEVINSON MD	EDR Digital Archive
	MEDICAL LABORATORY SAN DIEGO	EDR Digital Archive
	BALBOA MEDICAL GROUP	EDR Digital Archive
	MICHAEL C WONG MD MC EMP W	EDR Digital Archive
	WONG MICHAEL C M D MEDICAL	EDR Digital Archive
	MED -LEGAL SERVICES INC	EDR Digital Archive
	RESEARCH CENTER	EDR Digital Archive
	LEVINSON AND LALIOTIS MDS	EDR Digital Archive
	SAN DIEGO HEARING CENTER	EDR Digital Archive
	GARY D LEVINSON MD	EDR Digital Archive
	WONG MICHAEL C M D MEDICAL	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	MICHAEL C WONG MD MC EMP W	EDR Digital Archive
	MEDICAL LABORATORY SAN DIEGO	EDR Digital Archive
	BALBOA MEDICAL GROUP	EDR Digital Archive
	KIDOKORO YASUKO MD	EDR Digital Archive
	RESEARCH CENTER	EDR Digital Archive
	MED -LEGAL SERVICES INC	EDR Digital Archive
2010	QIA JOHN MD	EDR Digital Archive
	POINT ROYAL ASSISTED LIVING	EDR Digital Archive
	RESEARCH CENTER	EDR Digital Archive
	LABORATORY CORPORATION AMERICA	EDR Digital Archive
	KIDOKORO YASUKO MD	EDR Digital Archive
	BALBOA MEDICAL GROUP	EDR Digital Archive
	LALIOTIS ARI T M D	EDR Digital Archive
	MICHAEL C WONG MD MC EMP W	EDR Digital Archive
	WONG MICHAEL MD	EDR Digital Archive
	SAN DIEGO UROLOGICAL MED GROUP	EDR Digital Archive
	MICHAEL C WONG M D MC E W B P	EDR Digital Archive
	CALIFORNIA WOMENS MED CLINIC	EDR Digital Archive
	SAN DIEGO WOMENS MED CLINIC	EDR Digital Archive
	WONG MICHAEL C M D	EDR Digital Archive
	ABRAMOWITZ BRYAN L M D	EDR Digital Archive
	GARY D LEVINSON MD	EDR Digital Archive
	SAN DIEGO HEARING CENTER	EDR Digital Archive
	QIAN XIAO-JIANG M D	EDR Digital Archive
	RAISZADEN MARY MD	EDR Digital Archive
	LEVINSON AND LALIOTIS MDS	EDR Digital Archive
	RESEARCH CENTER	EDR Digital Archive
	POINT ROYAL ASSISTED LIVING	EDR Digital Archive
	WONG MICHAEL MD	EDR Digital Archive
	SAN DIEGO WOMENS MED CLINIC	EDR Digital Archive
	WONG MICHAEL C M D	EDR Digital Archive
	SAN DIEGO UROLOGICAL MED GROUP	EDR Digital Archive
	CALIFORNIA WOMENS MED CLINIC	EDR Digital Archive
	MICHAEL C WONG MD MC EMP W	EDR Digital Archive
	MICHAEL C WONG M D MC E W B P	EDR Digital Archive
	BALBOA MEDICAL GROUP	EDR Digital Archive
	LALIOTIS ARI T M D	EDR Digital Archive
	GARY D LEVINSON MD	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	ABRAMOWITZ BRYAN L M D	EDR Digital Archive
	SAN DIEGO HEARING CENTER	EDR Digital Archive
	QIAN XIAO-JIANG M D	EDR Digital Archive
	KIDOKORO YASUKO MD	EDR Digital Archive
	LABORATORY CORPORATION AMERICA	EDR Digital Archive
	RAISZADEN MARY MD	EDR Digital Archive
	LEVINSON AND LALIOTIS MDS	EDR Digital Archive
	QIA JOHN MD	EDR Digital Archive

GENESEE AVE

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Year	Uses	Source	
2006	BUILDING	Haines Company, Inc.	Image pg. A2
	ABRAMOWITZ BRYAN L MD	Haines Company, Inc.	Image pg. A2
	ADVANCED PEDIATRIC MDCL GROUP	Haines Company, Inc.	Image pg. A2
	BALBOA MEDICAL GROUP	Haines Company, Inc.	Image pg. A2
	ELFENBAUM MARCIA MD	Haines Company, Inc.	Image pg. A2
	ERIK KOLBERG BCO	Haines Company, Inc.	Image pg. A2
	FIRST BRIAN P MD	Haines Company, Inc.	Image pg. A2
	KIDOKORO YASUKO MD	Haines Company, Inc.	Image pg. A2
	KIDOKORO YASUKO MD INC	Haines Company, Inc.	Image pg. A2
	KORSAND SID S MD	Haines Company, Inc.	Image pg. A2
	LALIOTIS ARISTOTELIS T MD	Haines Company, Inc.	Image pg. A2
	LEVINSON GARY D MD	Haines Company, Inc.	Image pg. A2
	MEDICAL LAB OF SAN DIEGO	Haines Company, Inc.	Image pg. A2
	MEDICAL LAB OF SAN DIEGO	Haines Company, Inc.	Image pg. A2
	PRIVER DAVID MD	Haines Company, Inc.	Image pg. A2
	QIAN JOHN MD	Haines Company, Inc.	Image pg. A2
	RITCHKEN SIMON MD	Haines Company, Inc.	Image pg. A2
	SADRIEH JAY MD	Haines Company, Inc.	Image pg. A2
	SD EYE PROSTHETICS	Haines Company, Inc.	Image pg. A2
	SD PHYSIATRY & PAIN MANAGEMENT	Haines Company, Inc.	Image pg. A2
	WONG MICHL C MD INC	Haines Company, Inc.	Image pg. A2
2000	ADVANCED PEDIATRIC MDCL GROUP	Haines Company, Inc.	
	ARNOLD KEITH E MD	Haines Company, Inc.	
	CA WOMENS MED CLNC	Haines Company, Inc.	
	DAVIDSON PAUL L MD	Haines Company, Inc.	

FINDINGS

Year	Uses	Source
2000	DEREEDER PIERRE MD	Haines Company, Inc.
	FIRST BRIAN P MD	Haines Company, Inc.
	KHORSAND SAM MD	Haines Company, Inc.
	L C A	Haines Company, Inc.
	LEVINSON GARY D MD	Haines Company, Inc.
	LICHTENSTEIN BERNARD J MD	Haines Company, Inc.
	MEDICAL CLNC OB GYN INFRTLTY	Haines Company, Inc.
	PANCOAST PENNY S MD	Haines Company, Inc.
	PANCOAST PENNY S MD	Haines Company, Inc.
	PHAM TAMMY V MD	Haines Company, Inc.
	RITCHKEN SIMON M MD	Haines Company, Inc.
	SADRICH J MD	Haines Company, Inc.
	SCLAR CRAIG MD	Haines Company, Inc.
	TECCA DONALD P MD	Haines Company, Inc.
	WONG MICHL C MD INC	Haines Company, Inc.
1992	California Womens Medical Clinic	PACIFIC BELL WHITE PAGES
	Center Stephen AMD	PACIFIC BELL WHITE PAGES
	Davidson Paul LMD	PACIFIC BELL WHITE PAGES
	First Brian P MD	PACIFIC BELL WHITE PAGES
	Foster Dean J MD orthopedics Pacific Coast Orthopaedic Medical Group	PACIFIC BELL WHITE PAGES
	Genesee Medical Group	PACIFIC BELL WHITE PAGES
	Han W S Sharon MD	PACIFIC BELL WHITE PAGES
	Han Weiming	PACIFIC BELL WHITE PAGES
	Kaye Robert A MD	PACIFIC BELL WHITE PAGES
	Kaye Robert A MD Pacific Coast Orthopaedic Medical Group	PACIFIC BELL WHITE PAGES
	Clairemont Ofc	PACIFIC BELL WHITE PAGES
	Mazin Jeffrey B MD FACS	PACIFIC BELL WHITE PAGES
	Mazln PSmyers	PACIFIC BELL WHITE PAGES
	Clalremont Ole	PACIFIC BELL WHITE PAGES
	Resnick Michael LMD APC	PACIFIC BELL WHITE PAGES
	Clairemont Ofce	PACIFIC BELL WHITE PAGES
	Sclar Craig MD	PACIFIC BELL WHITE PAGES
	Sclar Marta Luisa	PACIFIC BELL WHITE PAGES
	Tecca Donald P MD	PACIFIC BELL WHITE PAGES
	Tecce G.....	PACIFIC BELL WHITE PAGES
	Wang Michael C MD Inc	PACIFIC BELL WHITE PAGES
1989	Associates In Family Medicine	Pacific Bell

FINDINGS

Year	Uses	Source	
1989	Davidson Paul L MD	Pacific Bell	
	First Brian P MD	Pacific Bell	
	Foster Dean J MD Orthopedics Pacific Coast Orthopedic Medical Group	Pacific Bell	
	Genesee Medical Group	Pacific Bell	
	Han W S Sharon MD	Pacific Bell	
	Hassidim Kamran MD	Pacific Bell	
	Hoenecke Heinz Jr MD	Pacific Bell	
	Martin Katherine A DO	Pacific Bell	
	Medical Clinic For Infertility & Laser Surgery	Pacific Bell	
	Menstrual Center	Pacific Bell	
	Moseley William G MD urology Clairemont Ofc	Pacific Bell	
	NEWTON WAYNE I MD INC FACS	Pacific Bell	
	Pacific Coast Orthopedic Medical Group	Pacific Bell	
	Resnick Michael L MD APC	Pacific Bell	
	Ritchken Simon M MD	Pacific Bell	
	Senior Citizens Vascular Clinic	Pacific Bell	
	Sidrick Nadine MD	Pacific Bell	
	Tecca Donald P MD	Pacific Bell	
	La Jolla	Pacific Bell	
1984	Han Sharon phys	R. L. Polk & Co.	Image pg. A7
	Vacant	R. L. Polk & Co.	Image pg. A7
	San Diego Urological Med Group Inc	R. L. Polk & Co.	Image pg. A7
	Dykhuizen Robert F phys	R. L. Polk & Co.	Image pg. A7
	Keiller Danny L phys	R. L. Polk & Co.	Image pg. A7
	Moseley Wm G phys	R. L. Polk & Co.	Image pg. A7
	Davidson Paul L phys	R. L. Polk & Co.	Image pg. A7
	Hassidim Kamran phys	R. L. Polk & Co.	Image pg. A7
	Koenig Lawrence A phys	R. L. Polk & Co.	Image pg. A7
	Lipsitz Jack E phys	R. L. Polk & Co.	Image pg. A7
	Resnick Michl L phys	R. L. Polk & Co.	Image pg. A7
	Zeiderman Arnold M phys	R. L. Polk & Co.	Image pg. A7
	Clairemont Medical Surgical Center ofc bldg	R. L. Polk & Co.	Image pg. A7
	Newton Wayne I phys	R. L. Polk & Co.	Image pg. A7
	Laufenberg Henry J Jr phys	R. L. Polk & Co.	Image pg. A7
	First Brian P phys	R. L. Polk & Co.	Image pg. A7
	Ritchken Simon M phys	R. L. Polk & Co.	Image pg. A7

Year	Uses	Source	
1984	Brodish Jerome H phys	R. L. Polk & Co.	Image pg. A7
	Feldman Gary phys	R. L. Polk & Co.	Image pg. A7
	Foster Dean J phys	R. L. Polk & Co.	Image pg. A7
	De Anza Surgical Medical Group	R. L. Polk & Co.	Image pg. A7
	Bench Robert K phys	R. L. Polk & Co.	Image pg. A7
	Knotts F Barry phys	R. L. Polk & Co.	Image pg. A7
	Llorente Jorge phys	R. L. Polk & Co.	Image pg. A7
1980	Clairemont Medical Surgical Building	R. L. Polk & Co.	Image pg. A14
	ofc bldg	R. L. Polk & Co.	Image pg. A14
	Newton Wayne I phys	R. L. Polk & Co.	Image pg. A14

4290 GENESEE AVE

Year	Uses	Source
2000	XXXX	Haines Company, Inc.

4295 GENESEE AVE

Year	Uses	Source	
2006	HONEY BAKED HAM INC	Haines Company, Inc.	Image pg. A2
	HONEY BAKED HAM INC	Haines Company, Inc.	Image pg. A2
2000	HONEYBAKED HAM CO	Haines Company, Inc.	
1995	San Diego	PACIFIC BELL WHITE PAGES	
1992	San Oiego	PACIFIC BELL WHITE PAGES	
1991	Honeybaked Ham Co	PACIFIC BELL WHITE PAGES	
1984	Honey Baked Hams deli	R. L. Polk & Co.	Image pg. A7
1980	Honey Baked Hams deli	R. L. Polk & Co.	Image pg. A14

4299 GENESEE AVE

Year	Uses	Source	
2000	XXXX	Haines Company, Inc.	
1975	Vacant	R. L. Polk & Co.	Image pg. A21
1970	STATION	John M. Ducy	
	HUNTERS ENCO SERVICE GAS	John M. Ducy	

Genesee Ave

4302 Genesee Ave

Year	Uses	Source
2010	COCOS PAINTING & RENOVATIONS	EDR Digital Archive
	COCOS PAINTING & RENOVATIONS	EDR Digital Archive

FINDINGS

GENESEE AVE

4302 GENESEE AVE

Year	Uses	Source	
2000	XXXX	Haines Company, Inc.	
1984	Wallys Mobil Service gas sta	R. L. Polk & Co.	Image pg. A7
1980	Wallys Mobil Service gas sta	R. L. Polk & Co.	Image pg. A14
1975	Larrys Service Center gas sta	R. L. Polk & Co.	Image pg. A21
1970	BROADBENTS JIM SERVICE CENTER	John M. Ducy	
1966	BROADBENT JIM SERVICE CENTER	R. L. Polk & Co.	Image pg. A25
	GAS STA	R. L. Polk & Co.	Image pg. A25

4303 GENESEE AVE

Year	Uses	Source	
2006	SMOG CHECK STATIONS	Haines Company, Inc.	Image pg. A2
	SHELL SV STA DLRS	Haines Company, Inc.	Image pg. A2
	GENESEE AUTO CARE	Haines Company, Inc.	Image pg. A2
2000	TAVARES Carlos	Haines Company, Inc.	
	SHELL SV STA DLRS	Haines Company, Inc.	
	GENESEE SHELL	Haines Company, Inc.	
1992	GE N E S E E S HE LL	PACIFIC BELL WHITE PAGES	
1989	BRIGGS GENESEE SHELL	Pacific Bell	
1984	Theles Self Service Shell	R. L. Polk & Co.	Image pg. A7
1980	Cummings Bill Self Serv Shell	R. L. Polk & Co.	Image pg. A14
1975	Genesee Shell Service gas sta	R. L. Polk & Co.	Image pg. A21
1970	BALBOA SHELL SERVICE	John M. Ducy	
1966	BALBOA SHELL SERVICE	R. L. Polk & Co.	Image pg. A25

Genesee Ave

4310 Genesee Ave

Year	Uses	Source
2014	FRANKENBERGER NANCY	EDR Digital Archive
	HAIR MENAGERIE	EDR Digital Archive
	NAZCA GRILL	EDR Digital Archive
	SUPERCUTS INC	EDR Digital Archive
	TRIO FOODS INC	EDR Digital Archive
	CONROYS FLOWERS	EDR Digital Archive
	DENTAL OFFICE	EDR Digital Archive
	SUNNY MASSAGE & SPA INC	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	SUBWAY SANDWICHES	EDR Digital Archive
	THAI TIME THREE	EDR Digital Archive
	CHINA WOK	EDR Digital Archive
	SNEAG VISION CENTER	EDR Digital Archive
	TRIO FOODS INC	EDR Digital Archive
	CONROYS FLOWERS	EDR Digital Archive
	DENTAL OFFICE	EDR Digital Archive
	SUNNY MASSAGE & SPA INC	EDR Digital Archive
	SUBWAY SANDWICHES	EDR Digital Archive
	THAI TIME THREE	EDR Digital Archive
	CHINA WOK	EDR Digital Archive
	SNEAG VISION CENTER	EDR Digital Archive
	FRANKENBERGER NANCY	EDR Digital Archive
	HAIR MENAGERIE	EDR Digital Archive
	NAZCA GRILL	EDR Digital Archive
	SUPERCUTS INC	EDR Digital Archive
2010	SUPERCUTS INC	EDR Digital Archive
	UNITED STUDIOS SELF DEFENSE	EDR Digital Archive
	Z ULTIMATE	EDR Digital Archive
	HAIR MENAGERIE	EDR Digital Archive
	FRANKENBERGER NANCY	EDR Digital Archive
	SNEAG VISION CENTER	EDR Digital Archive
	SEE WORLD OPTICAL CO INC	EDR Digital Archive
	CHINA WOK	EDR Digital Archive
	THAI TIME THREE	EDR Digital Archive
	NAZCA GRILL	EDR Digital Archive
	NOTARY PUBLIC	EDR Digital Archive
	VISION CENTER	EDR Digital Archive
	PRECISION INTERNATIONAL LLC	EDR Digital Archive
	CONROYS FLOWERS	EDR Digital Archive
	TRIO FOODS INC	EDR Digital Archive
	SEE WORLD OPTICAL CO INC	EDR Digital Archive
	SNEAG VISION CENTER	EDR Digital Archive
	CHINA WOK	EDR Digital Archive
	THAI TIME THREE	EDR Digital Archive
	NOTARY PUBLIC	EDR Digital Archive
	NAZCA GRILL	EDR Digital Archive
	VISION CENTER	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	PRECISION INTERNATIONAL LLC	EDR Digital Archive
	CONROYS FLOWERS	EDR Digital Archive
	TRIO FOODS INC	EDR Digital Archive
	SUPERCUTS INC	EDR Digital Archive
	Z ULTIMATE	EDR Digital Archive
	UNITED STUDIOS SELF DEFENSE	EDR Digital Archive
	FRANKENBERGER NANCY	EDR Digital Archive
	HAIR MENAGERIE	EDR Digital Archive

GENESEE AVE

4310 GENESEE AVE

Year	Uses	Source	
2006	JEAN AND DEE DEE	Haines Company, Inc.	Image pg. A2
	LIBERTY PARK PLAZA SUPERCUTS	Haines Company, Inc.	Image pg. A2
	LIBERTY PK PLZ DR GARY SNG OD	Haines Company, Inc.	Image pg. A2
	LITTLE CAESARS PZZA	Haines Company, Inc.	Image pg. A2
	LOMBARD JACK FNAO	Haines Company, Inc.	Image pg. A2
	LOS PALMITOS MEXICAN GRILL	Haines Company, Inc.	Image pg. A2
	QUACH MAI	Haines Company, Inc.	Image pg. A2
	SEE WORLD OPTICAL	Haines Company, Inc.	Image pg. A2
	SNEAG GARY FCOVD OD	Haines Company, Inc.	Image pg. A2
	SUBWAY SANDWICHES & SALADS	Haines Company, Inc.	Image pg. A2
	SUPERCUTS CLAIRMONT MESA	Haines Company, Inc.	Image pg. A2
	THAI TIME 3	Haines Company, Inc.	Image pg. A2
	UNITD STUDIOS OF SELF DEFENSE	Haines Company, Inc.	Image pg. A2
	VISION CENTER	Haines Company, Inc.	Image pg. A2
	WEISS LISA M OD	Haines Company, Inc.	Image pg. A2
	BUILDING	Haines Company, Inc.	Image pg. A2
	CHINA WOK	Haines Company, Inc.	Image pg. A2
	CONROYS FLORIST	Haines Company, Inc.	Image pg. A2
	DENTAL OFFICE	Haines Company, Inc.	Image pg. A2
	DON MARIOS MEXICAN FOOD	Haines Company, Inc.	Image pg. A2
	GORDON SAML OD CORP	Haines Company, Inc.	Image pg. A2
	HAIR MENAGERIE	Haines Company, Inc.	Image pg. A2
	HAIR MENAGERIE	Haines Company, Inc.	Image pg. A2
	HALEY FAMILY CHIROPRACTIC	Haines Company, Inc.	Image pg. A2
	HALEY STEVEN	Haines Company, Inc.	Image pg. A2
2000	BUILDING	Haines Company, Inc.	

FINDINGS

Year	Uses	Source
2000	ANTHONY & SONS HOME MNTNC & REPAIR	Haines Company, Inc.
	ARJAY TELECOM	Haines Company, Inc.
	CHAI Benjamin	Haines Company, Inc.
	CONROYS FLOWERS	Haines Company, Inc.
	DON MARIOS MEXICAN FOOD	Haines Company, Inc.
	DON MARIOS MEXICAN FOOD	Haines Company, Inc.
	GORDON SAML OD CORP	Haines Company, Inc.
	LIBERTY NAILS	Haines Company, Inc.
	LIBERTY PARK PLAZA	Haines Company, Inc.
	LIBERTY PARK PLAZA	Haines Company, Inc.
	LIBERTY PARK PLAZA	Haines Company, Inc.
	LIBERTY PARK PLAZA	Haines Company, Inc.
	LITTLE CAESARS PZZA	Haines Company, Inc.
	LOMBARD JACK FNAO	Haines Company, Inc.
	RICE ZONE	Haines Company, Inc.
	SEE WORLD OPTICAL	Haines Company, Inc.
	SNEAG GARY OD VISION CENTER	Haines Company, Inc.
	SUBWAY SANDWICHES & SALADS	Haines Company, Inc.
	SUPERCUTS	Haines Company, Inc.
	THAI ORCHID CUISINE	Haines Company, Inc.
	UNITD STDO SLF DFNS	Haines Company, Inc.
	VISION CENTER	Haines Company, Inc.
1992	Clairemont	PACIFIC BELL WHITE PAGES
	Bamboo Garden	PACIFIC BELL WHITE PAGES
	Cipra Gordon optmtrst	PACIFIC BELL WHITE PAGES
	San Dieo	PACIFIC BELL WHITE PAGES
	Dairemont	PACIFIC BELL WHITE PAGES
	Clairemont	PACIFIC BELL WHITE PAGES
	Gordon Samuel S OD A Professional Corp	PACIFIC BELL WHITE PAGES
	Liberty Nails	PACIFIC BELL WHITE PAGES
	Arya Cleaners	PACIFIC BELL WHITE PAGES
	Conroys Flowers	PACIFIC BELL WHITE PAGES
	Dr Samuel S Gordon OD	PACIFIC BELL WHITE PAGES
	Liberty Nails	PACIFIC BELL WHITE PAGES
	Little Caesars Pizza	PACIFIC BELL WHITE PAGES
	Pacific Frozen Yogurt	PACIFIC BELL WHITE PAGES
	Subway Sandwiches No 3473	PACIFIC BELL WHITE PAGES
	Supercuts	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1992	Little Caesars Pizza Of San Diego	PACIFIC BELL WHITE PAGES
	Lolitas Taco Shop	PACIFIC BELL WHITE PAGES
	Clalremont	PACIFIC BELL WHITE PAGES
	Pacific Frozen Yogurt	PACIFIC BELL WHITE PAGES
	Clairemont	PACIFIC BELL WHITE PAGES
	Selection Solution	PACIFIC BELL WHITE PAGES
	Selections There Is A Charge To Dial This Number . 900	PACIFIC BELL WHITE PAGES
	Clairemont Mesa	PACIFIC BELL WHITE PAGES
	El Cajon Fletcher Pkwy & Marshall Av El Caj	PACIFIC BELL WHITE PAGES
	Vision Center	PACIFIC BELL WHITE PAGES
1989	Conroys Florists San Diego	Pacific Bell

4315 GENESEE AVE

Year	Uses	Source	
2006	KWIK NKLEEN CAR WASH & DETAIL	Haines Company, Inc.	Image pg. A2
	QUICKN CLEAN CAR WASH & DTL CT	Haines Company, Inc.	Image pg. A2
2000	KWIK NKLEAN CAR WSH & DTL CT	Haines Company, Inc.	
	QUICKN CLEAN CAR WASH & DTL CT	Haines Company, Inc.	
1992	Kwik N Klean Car Wash & Detail Center	PACIFIC BELL WHITE PAGES	
	Quick n Clean	PACIFIC BELL WHITE PAGES	

Genesee Ave

4320 Genesee Ave

Year	Uses	Source
2014	SINKS JAMES DDS	EDR Digital Archive
	JOSEPH TUCKER DDS INC	EDR Digital Archive
	PAUL C DAVIS DDS INC	EDR Digital Archive
	MISLEH ANTON F DDS	EDR Digital Archive
	MAXIM PLAZA LLC	EDR Digital Archive
	KHUONG NGUYEN DDS A PROF	EDR Digital Archive
	A TRUSTWRTHY ORTHDNTIC PRCTICE	EDR Digital Archive
	SHARP HEALTHCARE	EDR Digital Archive
	HALLIGAN WILLIAM DDS	EDR Digital Archive
	MC CALLEY RUSSELL DR	EDR Digital Archive
	PAUL W TAYLOR DMD INC	EDR Digital Archive
	SINKS JAMES DDS	EDR Digital Archive
	JOSEPH TUCKER DDS INC	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	PAUL C DAVIS DDS INC	EDR Digital Archive
	MISLEH ANTON F DDS	EDR Digital Archive
	KHUONG NGUYEN DDS A PROF	EDR Digital Archive
	A TRUSTWRTHY ORTHDNTIC PRCTICE	EDR Digital Archive
	MAXIM PLAZA LLC	EDR Digital Archive
	SHARP HEALTHCARE	EDR Digital Archive
	HALLIGAN WILLIAM DDS	EDR Digital Archive
	MC CALLEY RUSSELL DR	EDR Digital Archive
	PAUL W TAYLOR DMD INC	EDR Digital Archive
2010	PAUL W TAYLOR DMD INC	EDR Digital Archive
	MC CALLEY RUSSELL DR	EDR Digital Archive
	HALLIGAN WILLIAM DDS	EDR Digital Archive
	SHARP HEALTHCARE	EDR Digital Archive
	SD FAMILY DENTAL INC	EDR Digital Archive
	UNITED WESTLABS	EDR Digital Archive
	MAYORA-MEJIA GLORIA L DDS	EDR Digital Archive
	A TRUSTWRTHY ORTHDNTIC PRCTICE	EDR Digital Archive
	KHUONG NGUYEN DDS A PROF	EDR Digital Archive
	HOLMAN JOHN C III DDS INC	EDR Digital Archive
	MISLEH ANTON F DDS	EDR Digital Archive
	MISLEH JAMES F DDS	EDR Digital Archive
	STEPHEN A CENTER MD	EDR Digital Archive
	BODYLOGICMD INC	EDR Digital Archive
	PAUL C DAVIS DDS INC	EDR Digital Archive
	COMFORT DENTAL CLINIC	EDR Digital Archive
	SINKS JAMES DDS	EDR Digital Archive
	PAUL W TAYLOR DMD INC	EDR Digital Archive
	MC CALLEY RUSSELL DR	EDR Digital Archive
	HALLIGAN WILLIAM DDS	EDR Digital Archive
	SHARP HEALTHCARE	EDR Digital Archive
	A TRUSTWRTHY ORTHDNTIC PRCTICE	EDR Digital Archive
	MAYORA-MEJIA GLORIA L DDS	EDR Digital Archive
	KHUONG NGUYEN DDS A PROF	EDR Digital Archive
	UNITED WESTLABS	EDR Digital Archive
	SD FAMILY DENTAL INC	EDR Digital Archive
	HOLMAN JOHN C III DDS INC	EDR Digital Archive
	MISLEH ANTON F DDS	EDR Digital Archive
	MISLEH JAMES F DDS	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	STEPHEN A CENTER MD	EDR Digital Archive
	BODYLOGICMD INC	EDR Digital Archive
	PAUL C DAVIS DDS INC	EDR Digital Archive
	COMFORT DENTAL CLINIC	EDR Digital Archive
	SINKS JAMES DDS	EDR Digital Archive

GENESEE AVE

4320 GENESEE AVE

Year	Uses	Source	
2006	BUILDING	Haines Company, Inc.	Image pg. A2
	CENTER STEPHEN A MD	Haines Company, Inc.	Image pg. A2
	CENTER STEPHEN A MD	Haines Company, Inc.	Image pg. A2
	CLAIREMNT PEDIATRIC DENTAL	Haines Company, Inc.	Image pg. A2
	DAVIS PAUL C DDS	Haines Company, Inc.	Image pg. A2
	DENTISTRY BY PAUL C DAVIS DDS	Haines Company, Inc.	Image pg. A2
	FITZPATRICK BRYAN MD	Haines Company, Inc.	Image pg. A2
	HOLMAN JOHN 3D DDS	Haines Company, Inc.	Image pg. A2
	MCCALLEY RUSSELL W DDS	Haines Company, Inc.	Image pg. A2
	MISLA JAMES F DR	Haines Company, Inc.	Image pg. A2
	MISLEH ANTON F DS	Haines Company, Inc.	Image pg. A2
	PAC DENTAL GROUP OF SD	Haines Company, Inc.	Image pg. A2
	SD DENTAL IMPLANT GROUP	Haines Company, Inc.	Image pg. A2
	SHARP SENIOR HEALTH CENTER	Haines Company, Inc.	Image pg. A2
	SINKS JAMES H DDS	Haines Company, Inc.	Image pg. A2
2000	SHARP SENIOR HEALTH CENTER	Haines Company, Inc.	
	SINKS JAMES H DDS	Haines Company, Inc.	
	SELTZER J AMES M MD ALLERGY	Haines Company, Inc.	
	SD ORTHODONTIC SPECIALISTS	Haines Company, Inc.	
	SD DENTAL IMPLANT	Haines Company, Inc.	
	SACKNOFF VALERI DDS	Haines Company, Inc.	
	MISLEH JAMES F DDS	Haines Company, Inc.	
	MISLEH ANTON F DDS	Haines Company, Inc.	
	MARTIN KATHERINE do	Haines Company, Inc.	
	SOS JEANLOUIS DDS	Haines Company, Inc.	
	BUILDING	Haines Company, Inc.	
	A Z OFFICE SUPPLY	Haines Company, Inc.	
	A 2 Z OFFICE SUPPLY	Haines Company, Inc.	
	ABULAFIA LEWIS DDS	Haines Company, Inc.	

FINDINGS

Year	Uses	Source
2000	ANTON F MISLEH DDS	Haines Company, Inc.
	ASSOCTE IN FAMILY MEDICINE	Haines Company, Inc.
	DAVIS PAUL C DDS	Haines Company, Inc.
	DENTISTRY P C DAVIS	Haines Company, Inc.
	EHRLICH DENNIS W MD	Haines Company, Inc.
	GRAY JANETTE MD	Haines Company, Inc.
	HOLMAN JOHN 3D DDS	Haines Company, Inc.
	L C A	Haines Company, Inc.
1995	San Diego Dental Implant Group	PACIFIC BELL WHITE PAGES
	San Diego Office	PACIFIC BELL WHITE PAGES
1992	ABULAFIA LE W IS HDDS	PACIFIC BELL WHITE PAGES
	Anton F Misleh DDS	PACIFIC BELL WHITE PAGES
	AS S OCIATE S IN FAMILY ME DICIN E	PACIFIC BELL WHITE PAGES
	Brown Kevin F DO	PACIFIC BELL WHITE PAGES
	DAVIS PAUL CDDS IN C	PACIFIC BELL WHITE PAGES
	San Diego Office	PACIFIC BELL WHITE PAGES
	Martin Katherine A DO	PACIFIC BELL WHITE PAGES
	Martin Katie	PACIFIC BELL WHITE PAGES
	Martin Keith J.....	PACIFIC BELL WHITE PAGES
	Misleh James F DDS	PACIFIC BELL WHITE PAGES
	Misleh John	PACIFIC BELL WHITE PAGES
	Misleh Mark & Sue	PACIFIC BELL WHITE PAGES
	San Diego Office	PACIFIC BELL WHITE PAGES
1991	San Diego Office	PACIFIC BELL WHITE PAGES
	San Diego Dental Implant Group	PACIFIC BELL WHITE PAGES
	San Diego Office	PACIFIC BELL WHITE PAGES

Genesee Ave

4330 Genesee Ave

Year	Uses	Source
2014	WKS RESTAURANT CORPORATION	EDR Digital Archive
	WKS RESTAURANT CORPORATION	EDR Digital Archive
2010	W K S RESTAURANT CORP	EDR Digital Archive
	W K S RESTAURANT CORP	EDR Digital Archive

FINDINGS

GENESEE AVE

4330 GENESEE AVE

Year	Uses	Source	
2006	EL POLLO LOCO	Haines Company, Inc.	Image pg. A2
	LIBERTY PK PLZ EL POLLO LOCO	Haines Company, Inc.	Image pg. A2
2000	EL POLLO LOCO	Haines Company, Inc.	
	LIBERTY PARK PLAZA	Haines Company, Inc.	
	PACK Maurice	Haines Company, Inc.	
1992	Bala Broiler	PACIFIC BELL WHITE PAGES	

Genesee Ave

4340 Genesee Ave

Year	Uses	Source
2014	GOLDRING CHIROPRACTIC	EDR Digital Archive
	LADYBUG RESALE	EDR Digital Archive
	LPP ELV 40	EDR Digital Archive
	HEALTH ADVANTAGE LLC	EDR Digital Archive
	JOHN PATTON TAX SERVICE	EDR Digital Archive
	BALBOA DENTAL CARE	EDR Digital Archive
	EVANCO REALTY ADVISORS INC	EDR Digital Archive
	SKIDMARK ENTERPRISE INC	EDR Digital Archive
	GOLDRING CHIROPRACTIC	EDR Digital Archive
	LADYBUG RESALE	EDR Digital Archive
	HEALTH ADVANTAGE LLC	EDR Digital Archive
	LPP ELV 40	EDR Digital Archive
	C & O OSADOLOR ENTEPRISES	EDR Digital Archive
	ROYAL NAILS & SPA	EDR Digital Archive
	FH PASCHEN SN NIELSEN INC	EDR Digital Archive
	JOHN PATTON TAX SERVICE	EDR Digital Archive
	BALBOA DENTAL CARE	EDR Digital Archive
	EVANCO REALTY ADVISORS INC	EDR Digital Archive
	SKIDMARK ENTERPRISE INC	EDR Digital Archive
	ZAU RENEE	EDR Digital Archive
	C & O OSADOLOR ENTEPRISES	EDR Digital Archive
	ROYAL NAILS & SPA	EDR Digital Archive
	FH PASCHEN SN NIELSEN INC	EDR Digital Archive
	ZAU RENEE	EDR Digital Archive
2010	ZAU RENEE	EDR Digital Archive

FINDINGS

Year	Uses	Source
2010	FH PASCHEN SN NIELSEN INC	EDR Digital Archive
	SWEET LIL ENTERPRISES INC	EDR Digital Archive
	ROYAL NAILS & SPA	EDR Digital Archive
	DEWEY INSURANCE AGENCY	EDR Digital Archive
	C & O OSADOLOR ENTEPRISES	EDR Digital Archive
	HOLLYWOOD ENTERTAINMENT CORP	EDR Digital Archive
	GAME CRAZY	EDR Digital Archive
	ZAU RENEE	EDR Digital Archive
	SKIDMARK ENTERPRISE INC	EDR Digital Archive
	EXIT STEPPING STONE REALTY	EDR Digital Archive
	EVANCO REALTY ADVISORS INC	EDR Digital Archive
	SAY SAN DIEGO INC	EDR Digital Archive
	FH PASCHEN SN NIELSEN INC	EDR Digital Archive
	SWEET LIL ENTERPRISES INC	EDR Digital Archive
	ROYAL NAILS & SPA	EDR Digital Archive
	DEWEY INSURANCE AGENCY	EDR Digital Archive
	C & O OSADOLOR ENTEPRISES	EDR Digital Archive
	HOLLYWOOD ENTERTAINMENT CORP	EDR Digital Archive
	GAME CRAZY	EDR Digital Archive
	TROPICAL SPLASH	EDR Digital Archive
	COSTUME CONNECTION	EDR Digital Archive
	YOGURT FUSION INC	EDR Digital Archive
	SKIDMARK ENTERPRISE INC	EDR Digital Archive
	EVANCO REALTY ADVISORS INC	EDR Digital Archive
	EXIT STEPPING STONE REALTY	EDR Digital Archive
	SAY SAN DIEGO INC	EDR Digital Archive
	TROPICAL SPLASH	EDR Digital Archive
	COSTUME CONNECTION	EDR Digital Archive
	YOGURT FUSION INC	EDR Digital Archive

GENESEE AVE

4340 GENESEE AVE

Year	Uses	Source	
2006	BUILDING	Haines Company, Inc.	Image pg. A2
	CIO INSURANCE SERVICES	Haines Company, Inc.	Image pg. A2
	CURVES FOR WOMEN	Haines Company, Inc.	Image pg. A2
	EDIBLE ARRANGEMENTS	Haines Company, Inc.	Image pg. A2
	EVANCO REALTY ADVISORS INC	Haines Company, Inc.	Image pg. A2

FINDINGS

Year	Uses	Source	
2006	F H PASCHEN NIELSON WEST COAST	Haines Company, Inc.	Image pg. A2
	GAME CRAZY	Haines Company, Inc.	Image pg. A2
	GARDNER ENTERPRISES	Haines Company, Inc.	Image pg. A2
	HOLLYWOOD VIDEO	Haines Company, Inc.	Image pg. A2
	NIELSEN WEST COAST	Haines Company, Inc.	Image pg. A2
	ROYAL NAILS & SPA	Haines Company, Inc.	Image pg. A2
	SAY SD	Haines Company, Inc.	Image pg. A2
	SOUL CYCLES	Haines Company, Inc.	Image pg. A2
	SUN LOUNGE TANNING CENTER	Haines Company, Inc.	Image pg. A2
2000	F H PASCHEN NIELSON WEST COAST	Haines Company, Inc.	
	HOLLYWOOD VIDEO	Haines Company, Inc.	
	HOLLYWOOD VIDEO	Haines Company, Inc.	
	MARYLIN ALTERATIONS	Haines Company, Inc.	
	NIELSEN WEST COAST	Haines Company, Inc.	
	ONSITE	Haines Company, Inc.	
	SUN LOUNGE TANNING CENTER	Haines Company, Inc.	
	UNIGLOBE BALBOA TRAVEL AGENCY	Haines Company, Inc.	
	UNIGLOBE ULTIMATE TRAVEL	Haines Company, Inc.	
1995	Clairemont	PACIFIC BELL WHITE PAGES	
	Suite 103	PACIFIC BELL WHITE PAGES	
1992	Blockbuster Video	PACIFIC BELL WHITE PAGES	
	Liberty Park Plaza	PACIFIC BELL WHITE PAGES	
	Liberty Park Chiropractic	PACIFIC BELL WHITE PAGES	
	Northcutt Realty Inc	PACIFIC BELL WHITE PAGES	
	o Athlete Cyclery	PACIFIC BELL WHITE PAGES	
	Balboa Bicycle	PACIFIC BELL WHITE PAGES	
	Clairemont	PACIFIC BELL WHITE PAGES	
	Escrow Ofc	PACIFIC BELL WHITE PAGES	
	Escrow Ofc	PACIFIC BELL WHITE PAGES	
	Main Oc	PACIFIC BELL WHITE PAGES	
	Escrow Ofc	PACIFIC BELL WHITE PAGES	
	Clairemont One Hour Photo	PACIFIC BELL WHITE PAGES	
	Glade David DDr	PACIFIC BELL WHITE PAGES	
	Gladen John & Connie	PACIFIC BELL WHITE PAGES	
	Liberty Park Chiropractic	PACIFIC BELL WHITE PAGES	
	Dr David D Glade	PACIFIC BELL WHITE PAGES	
1991	Escrow Olc	PACIFIC BELL WHITE PAGES	
1989	Glade David D Dr	Pacific Bell	

Year	Uses	Source	
1989	Liberty Park Chiropractic	Pacific Bell	

4355 GENESEE AVE

Year	Uses	Source	
2006	SOUTHRN CA DISC TIRE CO INC	Haines Company, Inc.	Image pg. A2
	DISCOUNT TIRE CO OF SO CALIF	Haines Company, Inc.	Image pg. A2
2000	SOUTHRN CA DISC TIRE CO INC	Haines Company, Inc.	
	DISCOUNT TIRE CO	Haines Company, Inc.	
1992	San Diego	PACIFIC BELL WHITE PAGES	

Genesee Ave

4356 Genesee Ave

Year	Uses	Source
2014	CAL AUTO LICENSE	EDR Digital Archive
	CAL AUTO LICENSE	EDR Digital Archive

GENESEE AVE

4356 GENESEE AVE

Year	Uses	Source
1992	Liberty Park ATM	PACIFIC BELL WHITE PAGES

Genesee Ave

4360 Genesee Ave

Year	Uses	Source
2014	CIRCLE K STORES INC	EDR Digital Archive
	CIRCLE K STORES INC	EDR Digital Archive
2010	CIRCLE K STORES INC	EDR Digital Archive
	CIRCLE K STORES INC	EDR Digital Archive

GENESEE AVE

4360 GENESEE AVE

Year	Uses	Source	
2006	CIRCLE K FOOD STORES	Haines Company, Inc.	Image pg. A2
2000	CIRCLE K FOOD STORES	Haines Company, Inc.	

FINDINGS

4365 GENESEE AVE

Year	Uses	Source	
2006	EZ LUBE	Haines Company, Inc.	Image pg. A2
2000	OILMAX 10 MNTE OIL	Haines Company, Inc.	

Genesee Ave

4370 Genesee Ave

Year	Uses	Source
2014	EL PORTA EXPRESS	EDR Digital Archive
	COTIXAN TACO SHOP	EDR Digital Archive
	EL PORTA EXPRESS	EDR Digital Archive
	COTIXAN TACO SHOP	EDR Digital Archive
2010	COTIXAN TACO SHOP	EDR Digital Archive
	EL PORTA EXPRESS	EDR Digital Archive
	COTIXAN TACO SHOP	EDR Digital Archive
	EL PORTA EXPRESS	EDR Digital Archive

GENESEE AVE

4370 GENESEE AVE

Year	Uses	Source	
2006	COTIXAN MEXICAN & SEAFOOD	Haines Company, Inc.	Image pg. A2
2000	EL COTIXAN NO 7	Haines Company, Inc.	
1992	Robertos Taco Shop	PACIFIC BELL WHITE PAGES	

4375 GENESEE AVE

Year	Uses	Source	
2006	JACK IN THE BOX RESTAURANTS	Haines Company, Inc.	Image pg. A2
2000	JACK IN THE BOX	Haines Company, Inc.	

MOUNT CASTLE

4383 MOUNT CASTLE

Year	Uses	Source
1960	Reynolds Bill M	The Pacific Telephone Telegraph Co.

FINDINGS

MOUNT CASTLE AVE

4251 MOUNT CASTLE AVE

Year	Uses	Source	
2006	LOZANO Joseph	Haines Company, Inc.	Image pg. A3
2000	LOZANO Joseph	Haines Company, Inc.	
1984	Stambook Randy E	R. L. Polk & Co.	Image pg. A8
1980	N Stambook Randy E	R. L. Polk & Co.	Image pg. A15
1975	Fujisaki Tetsuo	R. L. Polk & Co.	Image pg. A22
1970	FUJISAKI TETSUO	John M. Ducy	
1966	FUJISAKI TETSUO	R. L. Polk & Co.	Image pg. A26

4256 MOUNT CASTLE AVE

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2000	TRAN Lac	Haines Company, Inc.	
1992	De Boer Alice	PACIFIC BELL WHITE PAGES	
	De Beef Robt E	PACIFIC BELL WHITE PAGES	
1989	De Boef Robt E	Pacific Bell	
1984	De Boef Robt E	R. L. Polk & Co.	Image pg. A8
1980	De Boef Robt E	R. L. Polk & Co.	Image pg. A15
1975	De Boef Robt E	R. L. Polk & Co.	Image pg. A22
1970	DE BOEF ROBT E	John M. Ducy	
1966	DE BOEF ROBT E	R. L. Polk & Co.	Image pg. A26

4263 MOUNT CASTLE AVE

Year	Uses	Source	
1984	Lauer Ralph	R. L. Polk & Co.	Image pg. A8
1980	N Lauer Ralph	R. L. Polk & Co.	Image pg. A15
1975	No Return	R. L. Polk & Co.	Image pg. A22
1970	BAUGHN ROBT C	John M. Ducy	
1966	WEST RICHD H	R. L. Polk & Co.	Image pg. A26

4303 MOUNT CASTLE AVE

Year	Uses	Source	
2006	SISSON Joseph	Haines Company, Inc.	Image pg. A3
2000	OBERDRIES Patricia	Haines Company, Inc.	
	OBERDRIES Patricia	Haines Company, Inc.	
1984	Brown Donald R	R. L. Polk & Co.	Image pg. A8
1980	Brown Donald R	R. L. Polk & Co.	Image pg. A15

FINDINGS

Year	Uses	Source	
1975	Denson Eug G	R. L. Polk & Co.	Image pg. A22
1970	BROWN JOANNE M MRS	John M. Ducy	
1966	VACANT	R. L. Polk & Co.	Image pg. A26

4304 MOUNT CASTLE AVE

Year	Uses	Source	
2006	HILL Dan	Haines Company, Inc.	Image pg. A3
2000	HILL Dan	Haines Company, Inc.	
1992	Jenson David A	PACIFIC BELL WHITE PAGES	
1989	Jenson David A	Pacific Bell	
1984	Jenson David A	R. L. Polk & Co.	Image pg. A8
1980	N Hill Dale	R. L. Polk & Co.	Image pg. A15
1975	Hill Dale W	R. L. Polk & Co.	Image pg. A22
1970	MORGAN GREGORY D	John M. Ducy	
1966	NO RETURN	R. L. Polk & Co.	Image pg. A26

4313 MOUNT CASTLE AVE

Year	Uses	Source	
2000	LEE Margaret	Haines Company, Inc.	
1984	Lee Roy G	R. L. Polk & Co.	Image pg. A8
1980	Lee Roy G	R. L. Polk & Co.	Image pg. A15
1975	Lee Roy G	R. L. Polk & Co.	Image pg. A22
1970	LEE ROY G	John M. Ducy	
1966	LEE ROY G	R. L. Polk & Co.	Image pg. A26

4314 MOUNT CASTLE AVE

Year	Uses	Source	
2006	OSWALD Sara L	Haines Company, Inc.	Image pg. A3
2000	OSWALD Sara L	Haines Company, Inc.	
1989	Watson Coy	Pacific Bell	
1984	Watson Coy	R. L. Polk & Co.	Image pg. A8
1980	N Watson Coy	R. L. Polk & Co.	Image pg. A15
1975	No Return	R. L. Polk & Co.	Image pg. A22
1970	BRADFORD JOE	John M. Ducy	
1966	NOREK JACK S	R. L. Polk & Co.	Image pg. A26

4319 MOUNT CASTLE AVE

Year	Uses	Source	
1966	VACANT	R. L. Polk & Co.	Image pg. A26

FINDINGS

4323 MOUNT CASTLE AVE

Year	Uses	Source	
2006	JOHNSON Allan	Haines Company, Inc.	Image pg. A3
	JOHNSON ALLAN J	Haines Company, Inc.	Image pg. A3
2000	XXXX	Haines Company, Inc.	
1984	Tooker Geo T	R. L. Polk & Co.	Image pg. A8
1980	Tooker Geo T	R. L. Polk & Co.	Image pg. A15
1975	Tooker Geo T	R. L. Polk & Co.	Image pg. A22
1970	TOOKER GEO T	John M. Ducy	
1966	TOOKER GEO T	R. L. Polk & Co.	Image pg. A26

4324 MOUNT CASTLE AVE

Year	Uses	Source	
2006	BODNAR Mike	Haines Company, Inc.	Image pg. A3
2000	BODNAR Marcia	Haines Company, Inc.	
	BODNAR Mike	Haines Company, Inc.	
1992	Bauer N	PACIFIC BELL WHITE PAGES	
	Bauer Nannette	PACIFIC BELL WHITE PAGES	
1984	Langworthy Charlie	R. L. Polk & Co.	Image pg. A8
1980	Langworthy Charlie	R. L. Polk & Co.	Image pg. A15
1975	Langworthy Charlie	R. L. Polk & Co.	Image pg. A22
1970	MC MICHALEIS GEO	John M. Ducy	
1966	VACANT	R. L. Polk & Co.	Image pg. A26

Mount Castle Ave

4333 Mount Castle Ave

Year	Uses	Source
2014	LITTLE EDWARD B CARRIE L	EDR Digital Archive
	LITTLE EDWARD B CARRIE L	EDR Digital Archive
2010	LITTLE EDWARD B CARRIE L	EDR Digital Archive
	LITTLE EDWARD B CARRIE L	EDR Digital Archive

MOUNT CASTLE AVE

4333 MOUNT CASTLE AVE

Year	Uses	Source	
2006	LITTLE Edward	Haines Company, Inc.	Image pg. A3
2000	TELFER C A	Haines Company, Inc.	
1992	Telfer CA	PACIFIC BELL WHITE PAGES	

FINDINGS

Year	Uses	Source	
1989	Telfer C A	Pacific Bell	
1984	Telfer Clifford A	R. L. Polk & Co.	Image pg. A8
1980	Telfer Clifford A	R. L. Polk & Co.	Image pg. A15
1975	Telfer Clifford A	R. L. Polk & Co.	Image pg. A22
1970	TELFER CLIFFORD A	John M. Ducy	

4334 MOUNT CASTLE AVE

Year	Uses	Source	
2006	SPIEKER Ferd B	Haines Company, Inc.	Image pg. A3
2000	XXXX	Haines Company, Inc.	
1992	Spieker Ferd B	PACIFIC BELL WHITE PAGES	
	Spleker H	PACIFIC BELL WHITE PAGES	
1989	Spieker Ferd B	Pacific Bell	
1984	Spieker Ferdinand B	R. L. Polk & Co.	Image pg. A8
1980	Spieker Ferdinand B	R. L. Polk & Co.	Image pg. A15
1975	Spieker Ferdinand B	R. L. Polk & Co.	Image pg. A22
1970	SPEIKER FERDINAND B	John M. Ducy	
1966	SPIEKER FERDINAND B S	R. L. Polk & Co.	Image pg. A26

4343 MOUNT CASTLE AVE

Year	Uses	Source	
2006	ZAVISLAK Jordan	Haines Company, Inc.	Image pg. A3
1992	i ORourke Chas L	PACIFIC BELL WHITE PAGES	
1989	ORourke Chas L	Pacific Bell	
1984	ORourke Charles L	R. L. Polk & Co.	Image pg. A8
1980	ORourke Charles L	R. L. Polk & Co.	Image pg. A15
1975	ORourke Charles L	R. L. Polk & Co.	Image pg. A22
1970	OROURKE CHARLES L	John M. Ducy	
1966	OROURKE CHARLES L S	R. L. Polk & Co.	Image pg. A26

4344 MOUNT CASTLE AVE

Year	Uses	Source	
2006	MOORE Jason	Haines Company, Inc.	Image pg. A3
2000	MOORE Jason	Haines Company, Inc.	
1992	Murray Bruce I& Eti abeth	PACIFIC BELL WHITE PAGES	
1989	Murray Bruce G & Elizabeth	Pacific Bell	
1984	Barber Carolyn	R. L. Polk & Co.	Image pg. A8
1980	N Barber Carolyn	R. L. Polk & Co.	Image pg. A15
1975	Lachmann Doris M	R. L. Polk & Co.	Image pg. A22

FINDINGS

Year	Uses	Source	
1970	BRYANT JOHN C	John M. Ducy	
1966	GAUTIERI JOHN R	R. L. Polk & Co.	Image pg. A26

4353 MOUNT CASTLE AVE

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2000	STELZNER Raymond	Haines Company, Inc.	
1984	Stelzner Raymond R	R. L. Polk & Co.	Image pg. A8
1980	Stelzner Raymond R	R. L. Polk & Co.	Image pg. A15
1975	Stelzner Raymond R	R. L. Polk & Co.	Image pg. A22
1970	STELZNER RAYMOND R	John M. Ducy	
1966	STELZNER RAYMOND R	R. L. Polk & Co.	Image pg. A26

4354 MOUNT CASTLE AVE

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2000	GARNER Hideko	Haines Company, Inc.	
1984	Garner Hideko	R. L. Polk & Co.	Image pg. A8
1980	Garner Hideko	R. L. Polk & Co.	Image pg. A15
1975	Garner Gordon L	R. L. Polk & Co.	Image pg. A22
1970	GARNER GORDON L S	John M. Ducy	
1966	BARBER ROXEY L	R. L. Polk & Co.	Image pg. A26

4363 MOUNT CASTLE AVE

Year	Uses	Source	
2006	CHERRY Stephen	Haines Company, Inc.	Image pg. A3
2000	CHERRY Stephen	Haines Company, Inc.	
1992	Cherry Stephen & Susan	PACIFIC BELL WHITE PAGES	
1989	Laskowski Kirk	Pacific Bell	
1984	Tukarva Mineo	R. L. Polk & Co.	Image pg. A8
1980	Cutting Marjorie	R. L. Polk & Co.	Image pg. A15
1975	Apostoli Jeanne Mrs	R. L. Polk & Co.	Image pg. A22
1970	STEINER HARRY	John M. Ducy	
1966	ALEXANDER LUTHER A	R. L. Polk & Co.	Image pg. A26

4364 MOUNT CASTLE AVE

Year	Uses	Source	
2006	GARVER Arthur S	Haines Company, Inc.	Image pg. A3
2000	GARVER Arthur S	Haines Company, Inc.	
1992	Garver Arthur s	PACIFIC BELL WHITE PAGES	

FINDINGS

Year	Uses	Source	
1989	Garver Arthur S	Pacific Bell	
1984	Garver Arth S	R. L. Polk & Co.	Image pg. A8
1980	Garver Arth S	R. L. Polk & Co.	Image pg. A15
1975	Garver Arth S	R. L. Polk & Co.	Image pg. A22
1970	MARSHALL GUTHRIE	John M. Ducy	
1966	STOCKHAM TERRY L	R. L. Polk & Co.	Image pg. A26

4373 MOUNT CASTLE AVE

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2000	DELVAULX Luc	Haines Company, Inc.	
	KILLIAN Cindy	Haines Company, Inc.	
	KILLIAN Richard	Haines Company, Inc.	
1989	Delvaulx Luc	Pacific Bell	
1984	Roguz Mary Mrs	R. L. Polk & Co.	Image pg. A8
1980	Roguz Mary Mrs	R. L. Polk & Co.	Image pg. A15
1975	Roguz Mary Mrs	R. L. Polk & Co.	Image pg. A22
1970	SARASON RAYMOND W	John M. Ducy	
	SARASON BARBARA A	John M. Ducy	
1966	SARASON RAY W SARASON BARBARA A	R. L. Polk & Co.	Image pg. A26

4374 MOUNT CASTLE AVE

Year	Uses	Source	
2006	SANDERS Larry	Haines Company, Inc.	Image pg. A3
	GASTELUM Chelsea	Haines Company, Inc.	Image pg. A3
2000	GARCIA Hans	Haines Company, Inc.	
1984	Ganoe James T	R. L. Polk & Co.	Image pg. A8
1980	Ganoe James T	R. L. Polk & Co.	Image pg. A15
1975	Ganoe James T	R. L. Polk & Co.	Image pg. A22
1970	GANDE JAMES T	John M. Ducy	
1966	MINTZ NANCY J MRS	R. L. Polk & Co.	Image pg. A26

4383 MOUNT CASTLE AVE

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2000	PRICE Eugene C	Haines Company, Inc.	
1992	Price Eugene C	PACIFIC BELL WHITE PAGES	
1989	Price Eugene C	Pacific Bell	
1984	Price Eug C	R. L. Polk & Co.	Image pg. A8

Year	Uses	Source	
1980	Price Eug C	R. L. Polk & Co.	Image pg. A15
1975	No Return	R. L. Polk & Co.	Image pg. A22
1970	FRAYNE WARREN H	John M. Ducy	
1966	PRICE EUG C JR	R. L. Polk & Co.	Image pg. A26

4384 MOUNT CASTLE AVE

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2000	FUJISAKI Judy	Haines Company, Inc.	
1984	Stevens Fredk C	R. L. Polk & Co.	Image pg. A8
1980	Stevens Fredk C	R. L. Polk & Co.	Image pg. A15
1975	Stevens Fredk C	R. L. Polk & Co.	Image pg. A22
1970	STEVENS FREOK C	John M. Ducy	
1966	STEVENS FREDK C	R. L. Polk & Co.	Image pg. A26

Mount Castle Ave

4401 Mount Castle Ave

Year	Uses	Source
2014	KNOWLES ALMA FMLY DAY CRE GOIN	EDR Digital Archive
	KNOWLES ALMA FMLY DAY CRE GOIN	EDR Digital Archive

MOUNT CASTLE AVE

4401 MOUNT CASTLE AVE

Year	Uses	Source	
2006	KNOWLES Alma	Haines Company, Inc.	Image pg. A3
2000	KNOWLES Alma	Haines Company, Inc.	
1984	Knowles Wayne	R. L. Polk & Co.	Image pg. A8
1980	Knowles Wayne	R. L. Polk & Co.	Image pg. A15
1975	Knowles Wayne	R. L. Polk & Co.	Image pg. A22
1970	LOGAN JAMES	John M. Ducy	
1966	LOGAN JAMES W	R. L. Polk & Co.	Image pg. A26

4402 MOUNT CASTLE AVE

Year	Uses	Source	
2006	KILLION Mark	Haines Company, Inc.	Image pg. A3
2000	FERREIRA Claudine	Haines Company, Inc.	
1984	Rieger Henry G	R. L. Polk & Co.	Image pg. A8
1980	Rieger Henry G	R. L. Polk & Co.	Image pg. A15

FINDINGS

Year	Uses	Source	
1975	Rieger Henry G	R. L. Polk & Co.	Image pg. A22
1970	RIEGER HENRY G	John M. Ducy	
1966	RIEGER HENRY G S	R. L. Polk & Co.	Image pg. A26

4407 MOUNT CASTLE AVE

Year	Uses	Source	
2006	CYR Henry C	Haines Company, Inc.	Image pg. A3
2000	CYR Henry C	Haines Company, Inc.	
1992	Cyr Henry C	PACIFIC BELL WHITE PAGES	
1989	Cyr Henry C	Pacific Bell	
1984	Cyr Marie M Mrs	R. L. Polk & Co.	Image pg. A8
1980	Cyr Marie M Mrs	R. L. Polk & Co.	Image pg. A15
1975	Cyr Marie M Mrs	R. L. Polk & Co.	Image pg. A22
1970	CYR MARIE M MRS	John M. Ducy	
1966	CYR HENRY C	R. L. Polk & Co.	Image pg. A26

Mount Castle Ave

4408 Mount Castle Ave

Year	Uses	Source
2014	BRISEBOIS DAVID A	EDR Digital Archive
	BRISEBOIS DAVID A	EDR Digital Archive
2010	BRISEBOIS DAVID A	EDR Digital Archive
	BRISEBOIS DAVID A	EDR Digital Archive

MOUNT CASTLE AVE

4408 MOUNT CASTLE AVE

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2000	XXXX	Haines Company, Inc.	
1984	Brisebois Joan B Mrs	R. L. Polk & Co.	Image pg. A8
1980	Brisebois Gernain A	R. L. Polk & Co.	Image pg. A15
1975	Brisebois Germain A	R. L. Polk & Co.	Image pg. A22
1970	LAURENCE RONAL L	John M. Ducy	
1966	LAWRENCE RONAL L	R. L. Polk & Co.	Image pg. A26

4413 MOUNT CASTLE AVE

Year	Uses	Source	
2006	CLARK Paul J	Haines Company, Inc.	Image pg. A3

FINDINGS

Year	Uses	Source	
2000	CLARK Paul J	Haines Company, Inc.	
1984	Aicher Lehman	R. L. Polk & Co.	Image pg. A8
1980	N Adams Clyde	R. L. Polk & Co.	Image pg. A15
1975	No Return	R. L. Polk & Co.	Image pg. A22
1970	GARCIA BILL	John M. Ducy	
1966	GARCIA BILL	R. L. Polk & Co.	Image pg. A26

4414 MOUNT CASTLE AVE

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2000	BOARD Louise	Haines Company, Inc.	
1984	Board Lloyd	R. L. Polk & Co.	Image pg. A8
1980	Board Lloyd	R. L. Polk & Co.	Image pg. A15
1975	Board Lloyd	R. L. Polk & Co.	Image pg. A22
1970	BOARD LLOYD	John M. Ducy	
1966	BOARD LLOYD	R. L. Polk & Co.	Image pg. A26

Mount Castle Ave

4419 Mount Castle Ave

Year	Uses	Source
2014	MEAD CONSULTING LLC	EDR Digital Archive
	MEAD CONSULTING LLC	EDR Digital Archive
2010	MEAD CONSULTING LLC	EDR Digital Archive
	MEAD CONSULTING LLC	EDR Digital Archive

MOUNT CASTLE AVE

4419 MOUNT CASTLE AVE

Year	Uses	Source	
2006	MEAD Jas G	Haines Company, Inc.	Image pg. A3
	MEAD Theresa A	Haines Company, Inc.	Image pg. A3
2000	MEAD Theresa A	Haines Company, Inc.	
	MEAD Jas G	Haines Company, Inc.	
1992	Mead Jas G	PACIFIC BELL WHITE PAGES	
	Mead Theresa A	PACIFIC BELL WHITE PAGES	
	Mead Wn	PACIFIC BELL WHITE PAGES	
1989	Mead Jas G	Pacific Bell	
	Mead Theresa A	Pacific Bell	
1984	Mead James G	R. L. Polk & Co.	Image pg. A8

FINDINGS

Year	Uses	Source	
1980	Mead James G	R. L. Polk & Co.	Image pg. A15
1975	Mead James G	R. L. Polk & Co.	Image pg. A22
1970	MEAD JAMES G	John M. Ducy	
1966	MEAD JAMES G	R. L. Polk & Co.	Image pg. A26

4420 MOUNT CASTLE AVE

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2000	XXXX	Haines Company, Inc.	
1984	Wadley Joseph D	R. L. Polk & Co.	Image pg. A8
1980	Wadley Joseph D	R. L. Polk & Co.	Image pg. A15
1975	Wadley Joseph D	R. L. Polk & Co.	Image pg. A22
1970	WADLEY JOSEPH D	John M. Ducy	
1966	WADLEY JOSEPH D	R. L. Polk & Co.	Image pg. A26

4425 MOUNT CASTLE AVE

Year	Uses	Source	
2006	WHITEFIELD Mark	Haines Company, Inc.	Image pg. A3
	MCKILLIP Kim I	Haines Company, Inc.	Image pg. A3
2000	RAMBERG Helen	Haines Company, Inc.	
1984	Ramberg Helen L	R. L. Polk & Co.	Image pg. A8
1980	Ramberg Helen L	R. L. Polk & Co.	Image pg. A15
1975	Ramberg Arnold T	R. L. Polk & Co.	Image pg. A22
1970	RAMBERG ARNOLD T	John M. Ducy	
1966	RAMBERG ARNOLD T	R. L. Polk & Co.	Image pg. A26

4426 MOUNT CASTLE AVE

Year	Uses	Source	
2006	EDWARDS David	Haines Company, Inc.	Image pg. A3
2000	EDWARDS David	Haines Company, Inc.	
1984	Edwards David W	R. L. Polk & Co.	Image pg. A8
1980	Edwards David W	R. L. Polk & Co.	Image pg. A15
1975	Edwards David W	R. L. Polk & Co.	Image pg. A22
1970	VENSAND RICHD H	John M. Ducy	
1966	VENSAND RICHD H	R. L. Polk & Co.	Image pg. A26

4431 MOUNT CASTLE AVE

Year	Uses	Source	
2006	ARCHER Jeffrey	Haines Company, Inc.	Image pg. A3
2000	ARCHER Jeffrey	Haines Company, Inc.	

FINDINGS

Year	Uses	Source	
1984	No Return	R. L. Polk & Co.	Image pg. A8
1980	No Return	R. L. Polk & Co.	Image pg. A15
1975	No Return	R. L. Polk & Co.	Image pg. A22
1970	PASSENHEIM BURR C	John M. Ducy	
1966	FAUST ROBT B	R. L. Polk & Co.	Image pg. A26

Mount Castle Ave

4432 Mount Castle Ave

Year	Uses	Source
2014	HALS PLUMBING	EDR Digital Archive
	HALS PLUMBING	EDR Digital Archive
2010	HALS PLUMBING	EDR Digital Archive
	HALS PLUMBING	EDR Digital Archive

MOUNT CASTLE AVE

4432 MOUNT CASTLE AVE

Year	Uses	Source	
2006	HALS PLUMBING	Haines Company, Inc.	Image pg. A3
	HAGOOD George	Haines Company, Inc.	Image pg. A3
2000	HAGOOD George	Haines Company, Inc.	
	HALS PLUMBING	Haines Company, Inc.	
1984	Haygood Geo T	R. L. Polk & Co.	Image pg. A8
	Halleluyah Choppers	R. L. Polk & Co.	Image pg. A8
1980	Halleluyah Choppers	R. L. Polk & Co.	Image pg. A15
	N Haygood Geo T	R. L. Polk & Co.	Image pg. A15
1975	Pickle Kenneth G	R. L. Polk & Co.	Image pg. A22
1970	SKWARTZ RONALD K S	John M. Ducy	
1966	ARNOLD DAVID C	R. L. Polk & Co.	Image pg. A26

Mount Castle Ave

4437 Mount Castle Ave

Year	Uses	Source
2010	IQ MEDICAL (USA) INC	EDR Digital Archive
	IQ MEDICAL (USA) INC	EDR Digital Archive

FINDINGS

MOUNT CASTLE AVE

4437 MOUNT CASTLE AVE

Year	Uses	Source	
2006	LIU Yanan	Haines Company, Inc.	Image pg. A3
2000	SNYDER Dorothy	Haines Company, Inc.	
1992	Snyder John W	PACIFIC BELL WHITE PAGES	
1989	Snyder John W	Pacific Bell	
1984	Snyder John W	R. L. Polk & Co.	Image pg. A8
1980	Snyder John W	R. L. Polk & Co.	Image pg. A15
1975	Snyder John W	R. L. Polk & Co.	Image pg. A22
1970	SNYDER JOHN	John M. Ducy	
1966	SNYDER JOHN W	R. L. Polk & Co.	Image pg. A26

Mount Castle Ave

4438 Mount Castle Ave

Year	Uses	Source
2010	J W B CABINETRY	EDR Digital Archive
	J W B CABINETRY	EDR Digital Archive

MOUNT CASTLE AVE

4438 MOUNT CASTLE AVE

Year	Uses	Source	
2006	BAKER James	Haines Company, Inc.	Image pg. A3
2000	BAKER Patti	Haines Company, Inc.	
1984	Baker James W	R. L. Polk & Co.	Image pg. A8
1980	N Baker James W	R. L. Polk & Co.	Image pg. A15
1975	De Bernardis A R	R. L. Polk & Co.	Image pg. A22
1970	JESSON DONALD	John M. Ducy	
1966	LEWIS RALPH E	R. L. Polk & Co.	Image pg. A26

4443 MOUNT CASTLE AVE

Year	Uses	Source	
2006	MILLER Patti	Haines Company, Inc.	Image pg. A3
2000	MILLER Patti	Haines Company, Inc.	
1984	Ankeney Clem W	R. L. Polk & Co.	Image pg. A8
1980	Ankeney Clem W	R. L. Polk & Co.	Image pg. A15
1975	Ankeney Clem W	R. L. Polk & Co.	Image pg. A22
1970	ANKENEY CLEM	John M. Ducy	

FINDINGS

Year	Uses	Source	
1966	ANKENEY CLEM W S	R. L. Polk & Co.	Image pg. A26

4444 MOUNT CASTLE AVE

Year	Uses	Source	
2006	JASZEWSKI Karen L	Haines Company, Inc.	Image pg. A3
2000	JASZEWSKI Donald	Haines Company, Inc.	
1989	Jaszewski Donald E & Virginia	Pacific Bell	
1984	Jaszewski Donald E	R. L. Polk & Co.	Image pg. A8
1980	Jaszewski Donald E	R. L. Polk & Co.	Image pg. A15
1975	Jackson Margt R Mrs	R. L. Polk & Co.	Image pg. A22
1970	MERRIKEN STUART A	John M. Ducy	
1966	VACANT	R. L. Polk & Co.	Image pg. A26

4449 MOUNT CASTLE AVE

Year	Uses	Source	
2006	JOHNSON Sheila	Haines Company, Inc.	Image pg. A3
2000	JOHNSON Alan	Haines Company, Inc.	
	HERMSENS B	Haines Company, Inc.	
1992	Hermsen S	PACIFIC BELL WHITE PAGES	
1989	Hermsen S L	Pacific Bell	
1984	Hermsen Wm H	R. L. Polk & Co.	Image pg. A8
1980	Hermsen Wm H	R. L. Polk & Co.	Image pg. A15
1975	Knight Wm H	R. L. Polk & Co.	Image pg. A22
1970	JOBE JAMES E	John M. Ducy	
1966	SEAMSTER JAMES	R. L. Polk & Co.	Image pg. A26

4450 MOUNT CASTLE AVE

Year	Uses	Source	
2006	COMMERSON Aaron	Haines Company, Inc.	Image pg. A3
2000	HERMSEN David	Haines Company, Inc.	
1984	Poff Emory G	R. L. Polk & Co.	Image pg. A8
1980	Poff Emory G	R. L. Polk & Co.	Image pg. A15
1975	Poff Emory G	R. L. Polk & Co.	Image pg. A22
1970	POFF EMORY G	John M. Ducy	
1966	TREXEL JOHN E	R. L. Polk & Co.	Image pg. A26

4455 MOUNT CASTLE AVE

Year	Uses	Source	
2006	ROBERTSON John	Haines Company, Inc.	Image pg. A3
2000	ROBERTSON John	Haines Company, Inc.	

FINDINGS

Year	Uses	Source	
1992	Robertson Tile	PACIFIC BELL WHITE PAGES	
1984	Robertson John M	R. L. Polk & Co.	Image pg. A8
1980	Robertson John M	R. L. Polk & Co.	Image pg. A15
1975	Robertson John M	R. L. Polk & Co.	Image pg. A22
1970	MC DONALD GEO S	John M. Ducy	
	MC DONALD G S PAINTING CONTR	John M. Ducy	
1966	MILLER RONALD C	R. L. Polk & Co.	Image pg. A26

4456 MOUNT CASTLE AVE

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A3
2000	GROOT Thos N	Haines Company, Inc.	
1992	Grootonk Rudy A	PACIFIC BELL WHITE PAGES	
	Groot Thos N	PACIFIC BELL WHITE PAGES	
	Groot Tom & Graciela	PACIFIC BELL WHITE PAGES	
	Grootendorst Linda	PACIFIC BELL WHITE PAGES	
	Grootonk Chuck	PACIFIC BELL WHITE PAGES	
	Grootonk Marie	PACIFIC BELL WHITE PAGES	
	Grootonk Regina M	PACIFIC BELL WHITE PAGES	
1989	Groot Thos N	Pacific Bell	
	Groot Tom II	Pacific Bell	
1984	Groot Thos N	R. L. Polk & Co.	Image pg. A8
1980	Groot Thos N	R. L. Polk & Co.	Image pg. A15
1975	Groot Thos N	R. L. Polk & Co.	Image pg. A22
1970	PETERS CARL F	John M. Ducy	
1966	PETERS CARL F	R. L. Polk & Co.	Image pg. A26

4461 MOUNT CASTLE AVE

Year	Uses	Source	
2006	JAMES Dale	Haines Company, Inc.	Image pg. A3
2000	JAMES Dale	Haines Company, Inc.	
1989	Goethals Mark J	Pacific Bell	
1984	Cedillo Santos	R. L. Polk & Co.	Image pg. A8
1980	Cedillo Santos	R. L. Polk & Co.	Image pg. A15
1975	Salarzon Anacleto C	R. L. Polk & Co.	Image pg. A22
1970	BEAUHULD ELBRIDGE	John M. Ducy	
1966	BEAUHULD ELBRIOGE	R. L. Polk & Co.	Image pg. A26

FINDINGS

Mount Castle Ave

4462 Mount Castle Ave

Year	Uses	Source
2014	BJ WITHALL PHD	EDR Digital Archive
	BJ WITHALL PHD	EDR Digital Archive
2010	BJ WITHALL PHD	EDR Digital Archive
	BJ WITHALL PHD	EDR Digital Archive

MOUNT CASTLE AVE

4462 MOUNT CASTLE AVE

Year	Uses	Source	
2006	WITHALL Barbara	Haines Company, Inc.	Image pg. A3
2000	RHOADES Matthew	Haines Company, Inc.	
1992	Stetka M	PACIFIC BELL WHITE PAGES	
	Stetkiewicz Pam & Ray	PACIFIC BELL WHITE PAGES	
1989	Stetka M	Pacific Bell	
1984	Clark Donald L	R. L. Polk & Co.	Image pg. A8
1980	Clark Donald L	R. L. Polk & Co.	Image pg. A15
1975	Clark Donald L	R. L. Polk & Co.	Image pg. A22
1970	CLARK DONALD L	John M. Ducy	
1966	CLARK DONALD L	R. L. Polk & Co.	Image pg. A26

4467 MOUNT CASTLE AVE

Year	Uses	Source	
2006	KAZYAKA John	Haines Company, Inc.	Image pg. A3
2000	KAZYAKA John	Haines Company, Inc.	
1992	Kazyaka Joseph T.....	PACIFIC BELL WHITE PAGES	
	Kazyaka John	PACIFIC BELL WHITE PAGES	
1989	Kazyaka John	Pacific Bell	
1984	Kazyaka John P	R. L. Polk & Co.	Image pg. A8
1980	Kazyaka John P	R. L. Polk & Co.	Image pg. A15
1975	Kazyaka John P	R. L. Polk & Co.	Image pg. A22
	tech illustration consultant	R. L. Polk & Co.	Image pg. A22
	Kazyaka John Illustrating Service	R. L. Polk & Co.	Image pg. A22
1970	ROSEN JOHN S	John M. Ducy	
1966	PRINCIPE LOUIS G	R. L. Polk & Co.	Image pg. A26

FINDINGS

4470 MOUNT CASTLE AVE

Year	Uses	Source	
2006	MCKILLIP B	Haines Company, Inc.	Image pg. A3
2000	MCKILLIP Keith W	Haines Company, Inc.	
1992	Mc Klllip Keith W	PACIFIC BELL WHITE PAGES	
1989	Mc Killip Keith W	Pacific Bell	
1984	Mc Killip Keith W	R. L. Polk & Co.	Image pg. A8
1980	Me Killip Keith W	R. L. Polk & Co.	Image pg. A15
1975	Mc Killip Keith W	R. L. Polk & Co.	Image pg. A22
1970	NO RETURN	John M. Ducy	
1966	BROWNSBERGER DONALD	R. L. Polk & Co.	Image pg. A26

4473 MOUNT CASTLE AVE

Year	Uses	Source	
2006	WOODS Nancy	Haines Company, Inc.	Image pg. A3
2000	WOODS Nancy	Haines Company, Inc.	
1984	Woolf Rosemary Mrs	R. L. Polk & Co.	Image pg. A8
1980	Chandler Lorraine	R. L. Polk & Co.	Image pg. A15
1975	No Return	R. L. Polk & Co.	Image pg. A22
1970	RILEY EDNA MRS	John M. Ducy	
1966	RILEY EDNA MRS	R. L. Polk & Co.	Image pg. A26

4479 MOUNT CASTLE AVE

Year	Uses	Source	
2006	LUEDTKE Fred	Haines Company, Inc.	Image pg. A3
2000	LUEDTKE Fred	Haines Company, Inc.	
1984	Kane Donald	R. L. Polk & Co.	Image pg. A8
1980	Kane Donald	R. L. Polk & Co.	Image pg. A15
1975	Murton Wubur C real eaft appraiser	R. L. Polk & Co.	Image pg. A22
1970	MURTON WILBUR C	John M. Ducy	
1966	MURTON WILBUR C	R. L. Polk & Co.	Image pg. A26

MOUNT ETNA DR

5042 MOUNT ETNA DR

Year	Uses	Source	
2006	FISHBURN Caria	Haines Company, Inc.	Image pg. A4
2000	FISHBURN Carla	Haines Company, Inc.	
1984	Jonte Sandra	R. L. Polk & Co.	Image pg. A9
1980	N f Jonte Sandra	R. L. Polk & Co.	Image pg. A16

FINDINGS

Year	Uses	Source	
1975	Morgan Ernest L	R. L. Polk & Co.	Image pg. A23
1970	MORGAN ERNEST L	John M. Ducy	
1966	MORGAN ERNEST L	R. L. Polk & Co.	Image pg. A27
1961	Morgan Ernest L	R. L. Polk & Co.	Image pg. A29
1960	Morgan Ernest L	The Pacific Telephone Telegraph Co.	

5052 MOUNT ETNA DR

Year	Uses	Source	
2006	POWELL Ulner	Haines Company, Inc.	Image pg. A4
2000	POWELL Ulner	Haines Company, Inc.	
1984	Powell Ulner G	R. L. Polk & Co.	Image pg. A9
1980	Powell Ulner G	R. L. Polk & Co.	Image pg. A16
1975	Powell Ulner G	R. L. Polk & Co.	Image pg. A23
1970	POWELL ULNER G	John M. Ducy	
1966	WILLIAMS JOHN A	R. L. Polk & Co.	Image pg. A27
1961	Kennedy Douglas S	R. L. Polk & Co.	Image pg. A29
1960	Kennedy Douglas	The Pacific Telephone Telegraph Co.	

5062 MOUNT ETNA DR

Year	Uses	Source	
2006	BEHRENDT Sarah	Haines Company, Inc.	Image pg. A4
2000	LEE Curtis S	Haines Company, Inc.	
1992	Lee D	PACIFIC BELL WHITE PAGES	
	Lee D. .4.....	PACIFIC BELL WHITE PAGES	
	Lee D	PACIFIC BELL WHITE PAGES	
	Lee D.	PACIFIC BELL WHITE PAGES	
	Lee D	PACIFIC BELL WHITE PAGES	
	Lee D	PACIFIC BELL WHITE PAGES	
	Lee Curtis S	PACIFIC BELL WHITE PAGES	
	Lee D	PACIFIC BELL WHITE PAGES	
	Lee D	PACIFIC BELL WHITE PAGES	
	Lee D	PACIFIC BELL WHITE PAGES	
1989	Lee Curtis S	Pacific Bell	
1984	Lee Curtis S	R. L. Polk & Co.	Image pg. A9
1980	Lee Curtis S	R. L. Polk & Co.	Image pg. A16
1975	Knouse Frank E	R. L. Polk & Co.	Image pg. A23
1970	CRAWFORD BRUCE F	John M. Ducy	
1966	PRENDERGAST RICHD J	R. L. Polk & Co.	Image pg. A27
1961	Pendergast Richd J	R. L. Polk & Co.	Image pg. A29

Year	Uses	Source	
1960	Prendergast Richard J	The Pacific Telephone Telegraph Co.	

5072 MOUNT ETNA DR

Year	Uses	Source	
2006	BROOKS Todd	Haines Company, Inc.	Image pg. A4
2000	PYLE Richard	Haines Company, Inc.	
1984	Mead Claude F	R. L. Polk & Co.	Image pg. A9
1980	Mead Claude F	R. L. Polk & Co.	Image pg. A16
1975	Meade Claude	R. L. Polk & Co.	Image pg. A23
1970	HEADE CLAUDE e	John M. Ducy	
1966	SALY DAVID H	R. L. Polk & Co.	Image pg. A27
1961	Mead Claud	R. L. Polk & Co.	Image pg. A29
1960	Mead Ruth M	The Pacific Telephone Telegraph Co.	

Mount Etna Dr

5255 Mount Etna Dr

Year	Uses	Source
2014	SAN DIEGO COUNTY OF	EDR Digital Archive
	SAN DIEGO COUNTY OF	EDR Digital Archive
2010	SAN DIEGO COUNTY OF	EDR Digital Archive
	SAN DIEGO COUNTY OF	EDR Digital Archive

MOUNT ETNA DR

5255 MOUNT ETNA DR

Year	Uses	Source	
1985	CLAIREMONT COMMUNITY HOSPITAL	PACIFIC BELL WHITE PAGES	
1984	Clairemont Community Hospital	R. L. Polk & Co.	Image pg. A9
1980	Clairemont Community Hospital	R. L. Polk & Co.	Image pg. A16
1975	Clairemont Community Hospital	R. L. Polk & Co.	Image pg. A23
1970	CLAIRENONT GENERAL HOSPITAL	John M. Ducy	
1966	CLAIREMONT GENERAL HOSPITAL	R. L. Polk & Co.	Image pg. A27

MOUNT EVEREST

4331 MOUNT EVEREST

Year	Uses	Source
1960	Burton Richard A	The Pacific Telephone Telegraph Co.

FINDINGS

4350 MOUNT EVEREST

Year	Uses	Source
1992	Wiggin	PACIFIC BELL WHITE PAGES

4361 MOUNT EVEREST

Year	Uses	Source
1960	Lorenz Henry J Jr	The Pacific Telephone Telegraph Co.

4371 MOUNT EVEREST

Year	Uses	Source
1960	Stringfellow Geo S	The Pacific Telephone Telegraph Co.

4476 MOUNT EVEREST

Year	Uses	Source
1960	Nielsen Melvin	The Pacific Telephone Telegraph Co.

MOUNT EVEREST BLVD

4261 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	UTRERAS Berta	Haines Company, Inc.	Image pg. A4
1992	Jardim Frank Jr	PACIFIC BELL WHITE PAGES	
	Jardim J	PACIFIC BELL WHITE PAGES	
1989	Jardim Frank Jr	Pacific Bell	
1980	Jardim Frank S	R. L. Polk & Co.	Image pg. A17
1975	Fleisher Mark R	R. L. Polk & Co.	Image pg. A23
1970	HUBBARD MILTON J	John M. Ducy	
1966	HUBBARD MILTON J	R. L. Polk & Co.	Image pg. A27
1961	Hubbard Milton J	R. L. Polk & Co.	Image pg. A30

4301 MOUNT EVEREST BLVD

Year	Uses	Source	
1980	Almeleh Morris	R. L. Polk & Co.	Image pg. A17
1975	Vacant	R. L. Polk & Co.	Image pg. A23
1970	GONZALES BERTHA C MRS	John M. Ducy	
1966	GONZALES BERTHA C MRS	R. L. Polk & Co.	Image pg. A27
1961	Gonzales Jos G	R. L. Polk & Co.	Image pg. A30

4311 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	RUTLAND Oscar B	Haines Company, Inc.	Image pg. A4

FINDINGS

Year	Uses	Source	
1992	Rutledge B	PACIFIC BELL WHITE PAGES	
	Rutland Oscar B	PACIFIC BELL WHITE PAGES	
1989	Rutland Oscar B	Pacific Bell	
1980	Rutland Oscar B	R. L. Polk & Co.	Image pg. A17
1975	Rutland Oscar B	R. L. Polk & Co.	Image pg. A23
1970	POLLARD JAMES	John M. Ducy	
1966	POLLARD JAMES	R. L. Polk & Co.	Image pg. A27
1961	Migdal Philip N	R. L. Polk & Co.	Image pg. A30

4321 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	KROPF T	Haines Company, Inc.	Image pg. A4
1992	Lundquist Paul G	PACIFIC BELL WHITE PAGES	
1989	Lundquist Paul G	Pacific Bell	
1980	Lundquist Paul G	R. L. Polk & Co.	Image pg. A17
1975	Piccolo Franklin L	R. L. Polk & Co.	Image pg. A23
1970	PICCOLO FRANKLIN L	John M. Ducy	
1966	PICCOLO FRANKLIN L	R. L. Polk & Co.	Image pg. A27
1961	Pratt Hugh S	R. L. Polk & Co.	Image pg. A30

4331 MOUNT EVEREST BLVD

Year	Uses	Source	
1980	Burton Richard A	R. L. Polk & Co.	Image pg. A17
1975	Burton Richard A	R. L. Polk & Co.	Image pg. A23
1970	BURTON RICHARD A	John M. Ducy	
1966	BURTON RICHD A	R. L. Polk & Co.	Image pg. A27
	QUORTRUP ERLING	R. L. Polk & Co.	Image pg. A28
1961	Burton Richd A	R. L. Polk & Co.	Image pg. A30

4341 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	MANSFIELD Joseph E	Haines Company, Inc.	Image pg. A4
1992	Davis Wm C	PACIFIC BELL WHITE PAGES	
1989	Davis Wm C	Pacific Bell	
1980	Wells Thornley W	R. L. Polk & Co.	Image pg. A17
1975	Harrington Donald E	R. L. Polk & Co.	Image pg. A23
1970	CLINE DEAN R	John M. Ducy	
1966	SMITH NORMAN	R. L. Polk & Co.	Image pg. A28
1961	Osterloh Paul	R. L. Polk & Co.	Image pg. A30

FINDINGS

Mount Everest Blvd

4350 Mount Everest Blvd

Year	Uses	Source
2014	SDUSD SPCH/LNGG/PTHLGY/DIOLOGY	EDR Digital Archive
	SAN DIEGO CITY OF	EDR Digital Archive
	SAN DIEGO CITY OF	EDR Digital Archive
	SDUSD SPCH/LNGG/PTHLGY/DIOLOGY	EDR Digital Archive
2010	SAN DIEGO CITY OF	EDR Digital Archive
	SDUSD SPCH/LNGG/PTHLGY/DIOLOGY	EDR Digital Archive
	SAN DIEGO CITY OF	EDR Digital Archive
	SDUSD SPCH/LNGG/PTHLGY/DIOLOGY	EDR Digital Archive

MOUNT EVEREST BLVD

4350 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	SD SC ATYPCL MOUNT EVEREST	Haines Company, Inc.	Image pg. A4
	SC ADMIN SPCL ED WIGGIN TECH	Haines Company, Inc.	Image pg. A4
	SC ADMIN SPCL ED WIGGIN PE	Haines Company, Inc.	Image pg. A4
	SC ADMIN SPCL ED WIGGIN RCRDS	Haines Company, Inc.	Image pg. A4
1992	Wiggin Atypicl School	PACIFIC BELL WHITE PAGES	
1989	Wiggin School	Pacific Bell	
1980	Wiggin Kate Douglas School	R. L. Polk & Co.	Image pg. A17
1975	Wiggin Kate Douglas School	R. L. Polk & Co.	Image pg. A23
1970	WIGGIN KATE DOUGLAS SCHOOL	John M. Ducy	
1966	WIGGIN KATE DOUGLAS SCHOOL	R. L. Polk & Co.	Image pg. A28
1961	Wiggin Kate Douglas Sch	R. L. Polk & Co.	Image pg. A30

4351 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	DODDS Stuart	Haines Company, Inc.	Image pg. A4
	GARCIA Darlene	Haines Company, Inc.	Image pg. A4
1980	Bozzo Vincent J	R. L. Polk & Co.	Image pg. A17
1975	Bozzo Vincent J	R. L. Polk & Co.	Image pg. A23
1970	BOZZO VINCENT J	John M. Ducy	
1966	BOZZO VINCENT J	R. L. Polk & Co.	Image pg. A28
1961	Bozzo Vincent J	R. L. Polk & Co.	Image pg. A30

FINDINGS

4361 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	BLAIS Raymond C	Haines Company, Inc.	Image pg. A4
1992	Blals Rayinmand C	PACIFIC BELL WHITE PAGES	
1989	Blais Raymond C	Pacific Bell	
1980	Blais Raymond C	R. L. Polk & Co.	Image pg. A17
1975	Lorenz Henry J Jr	R. L. Polk & Co.	Image pg. A23
1970	LORENZ HENRY J JR	John M. Ducy	
1966	LORENZ HENRY J JR	R. L. Polk & Co.	Image pg. A28
1961	Lorenz Henry J jr	R. L. Polk & Co.	Image pg. A30

4371 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	DILL Wm G	Haines Company, Inc.	Image pg. A4
1992	Dill Wm G	PACIFIC BELL WHITE PAGES	
1989	Dill Wm G	Pacific Bell	
1980	Dill Wm G	R. L. Polk & Co.	Image pg. A17
1975	Dill Wm G	R. L. Polk & Co.	Image pg. A23
1970	DILL WM G	John M. Ducy	
1966	DOYLE THOS A	R. L. Polk & Co.	Image pg. A28
1961	Stringfellow Geo S	R. L. Polk & Co.	Image pg. A30

Mount Everest Blvd

4381 Mount Everest Blvd

Year	Uses	Source
2014	K B PLUMBING	EDR Digital Archive
	K B PLUMBING	EDR Digital Archive

MOUNT EVEREST BLVD

4381 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	NACE Harley	Haines Company, Inc.	Image pg. A4
1992	Godlewski Yanush S	PACIFIC BELL WHITE PAGES	
1989	Godlewski Yanush S	Pacific Bell	
1984	Raper C	R. L. Polk & Co.	Image pg. A9
1980	No Return	R. L. Polk & Co.	Image pg. A17
1975	Fujisaki Hiromi	R. L. Polk & Co.	Image pg. A23
1970	JANOWIAK THADDEUS J	John M. Ducy	

FINDINGS

Year	Uses	Source	
1966	BRANDT HANS E JR	R. L. Polk & Co.	Image pg. A28
1961	Lamoreauz Torrence C	R. L. Polk & Co.	Image pg. A30

4401 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A4
1984	No Return	R. L. Polk & Co.	Image pg. A9
1980	No Return	R. L. Polk & Co.	Image pg. A17
1975	Cariola Roy E	R. L. Polk & Co.	Image pg. A23
1970	CARIOLA ROY E	John M. Ducy	
1966	CARIOLA ROY E	R. L. Polk & Co.	Image pg. A28
1961	Cariola Roy E	R. L. Polk & Co.	Image pg. A30

Mount Everest Blvd

4409 Mount Everest Blvd

Year	Uses	Source
2010	SAMS PHOTO PLACE AND DIGIT	EDR Digital Archive
	SAMS PHOTO PLACE AND DIGIT	EDR Digital Archive

MOUNT EVEREST BLVD

4409 MOUNT EVEREST BLVD

Year	Uses	Source	
1984	Pena Julian A	R. L. Polk & Co.	Image pg. A9
1980	Pena Julian A	R. L. Polk & Co.	Image pg. A17
1975	Pens Julian A	R. L. Polk & Co.	Image pg. A23
1970	PENA JULIAN A	John M. Ducy	
1966	PENA JULIAN A	R. L. Polk & Co.	Image pg. A28
1961	Coleman Robt W	R. L. Polk & Co.	Image pg. A30

4417 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	CHRISTIANSEN Robert	Haines Company, Inc.	Image pg. A4
1984	Kincaid Barbara Mrs	R. L. Polk & Co.	Image pg. A9
1980	Christiansen Robt J	R. L. Polk & Co.	Image pg. A17
1975	Eaton Geo W	R. L. Polk & Co.	Image pg. A23
1970	EATON GEO W	John M. Ducy	
1966	EATON GEO W	R. L. Polk & Co.	Image pg. A28
1961	Eaton Geo W	R. L. Polk & Co.	Image pg. A30

FINDINGS

4425 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A4
1989	Hoyle Frank E Jr	Pacific Bell	
1984	Hoyle Frank E	R. L. Polk & Co.	Image pg. A9
1980	Hoyle Frank E	R. L. Polk & Co.	Image pg. A17
1975	Hoyle Frank E	R. L. Polk & Co.	Image pg. A23
1970	HOYLE FRANK E	John M. Ducy	
1966	HOYLE FRANK E JR	R. L. Polk & Co.	Image pg. A28
1961	Duhamel Muriel A Mrs	R. L. Polk & Co.	Image pg. A30

4433 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A4
1984	Zims Richd	R. L. Polk & Co.	Image pg. A9
1980	Zims Richd	R. L. Polk & Co.	Image pg. A17
1975	Zims Richd	R. L. Polk & Co.	Image pg. A23
1970	RUSSELL JESSE L	John M. Ducy	
1966	SMITH KENNETH	R. L. Polk & Co.	Image pg. A28
1961	Lorenz Mat C	R. L. Polk & Co.	Image pg. A30

4441 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	XXXX	Haines Company, Inc.	Image pg. A4
1984	Shepard Bonita L Mrs	R. L. Polk & Co.	Image pg. A9
1980	Shepard Ralph J	R. L. Polk & Co.	Image pg. A17
1975	Shepard Ralph J	R. L. Polk & Co.	Image pg. A23
1970	SHEPARD RALPH J	John M. Ducy	
1966	SHEPARD RALPH J	R. L. Polk & Co.	Image pg. A28
1961	Curry Leroy J	R. L. Polk & Co.	Image pg. A30

4449 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	STARR Mark	Haines Company, Inc.	Image pg. A4
1992	Herrick M	PACIFIC BELL WHITE PAGES	
	Herrlck LM	PACIFIC BELL WHITE PAGES	
	Herrick Lark E	PACIFIC BELL WHITE PAGES	
	Herrick M	PACIFIC BELL WHITE PAGES	
1989	Herrick L M	Pacific Bell	
1984	Herrick Leota M Mrs	R. L. Polk & Co.	Image pg. A9

FINDINGS

Year	Uses	Source	
1980	Herrick Leota M Mrs	R. L. Polk & Co.	Image pg. A17
1975	Herrick Duane A	R. L. Polk & Co.	Image pg. A23
1970	COOPER MAURICE N	John M. Ducy	
1966	IRION JOHN W JR	R. L. Polk & Co.	Image pg. A28
1961	Vacant	R. L. Polk & Co.	Image pg. A30

4453 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	STAEBLER David	Haines Company, Inc.	Image pg. A4
1989	Loughran Maureen	Pacific Bell	
	Walker L C	Pacific Bell	
1984	Curley Fredk R	R. L. Polk & Co.	Image pg. A9
1980	Curiey Fredk R	R. L. Polk & Co.	Image pg. A17
1975	Curley Fredk R	R. L. Polk & Co.	Image pg. A23
1970	CZULEWICZ FREDK R	John M. Ducy	
1966	WOEHL PAUL J	R. L. Polk & Co.	Image pg. A28
1961	Hood Thos C	R. L. Polk & Co.	Image pg. A30

4461 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	REUSS A	Haines Company, Inc.	Image pg. A4
1992	Reuss A	PACIFIC BELL WHITE PAGES	
	Reuss Edward	PACIFIC BELL WHITE PAGES	
	Reuss M	PACIFIC BELL WHITE PAGES	
	Reuss George & Tammy.....	PACIFIC BELL WHITE PAGES	
1989	Mongulla Frank	Pacific Bell	
	Mattenldodt H	Pacific Bell	
1984	Mattenklodt Helen Mrs	R. L. Polk & Co.	Image pg. A9
1980	Mattenklodt Hans	R. L. Polk & Co.	Image pg. A17
1975	Mattenklodt Hans	R. L. Polk & Co.	Image pg. A23
1970	MATTENKLODT HANS	John M. Ducy	
1966	MATTENKLODT HANS	R. L. Polk & Co.	Image pg. A28
1961	Eggert Alan L	R. L. Polk & Co.	Image pg. A30

4467 MOUNT EVEREST BLVD

Year	Uses	Source	
2006	GRANT L	Haines Company, Inc.	Image pg. A4
1992	Mc Kinney Mary Alice Rev	PACIFIC BELL WHITE PAGES	
	Mc KInney Wm B Mac	PACIFIC BELL WHITE PAGES	

FINDINGS

Year	Uses	Source	
1989	Mc Kinney Wm B Mac	Pacific Bell	
1984	Mc Kinney Wm B Jr	R. L. Polk & Co.	Image pg. A9
1980	Me Kinney Wm B Jr	R. L. Polk & Co.	Image pg. A17
1975	Mc Kinney Wm B Jr	R. L. Polk & Co.	Image pg. A23
1970	MC KINNEY MM B JR	John M. Ducy	
1966	MC KINNEY WM B	R. L. Polk & Co.	Image pg. A28
1961	Adams Harry E	R. L. Polk & Co.	Image pg. A30

4476 MOUNT EVEREST BLVD

Year	Uses	Source	
1984	Macy Margt Mrs	R. L. Polk & Co.	Image pg. A9

MOUNT EYVEREST BLVD

4425 MOUNT EYVEREST BLVD

Year	Uses	Source
1992	Hoyle Frank E Jr	PACIFIC BELL WHITE PAGES

MOUNT FRISSELL DR

5045 MOUNT FRISSELL DR

Year	Uses	Source	
2006	CIERO Michael	Haines Company, Inc.	Image pg. A4
2000	CIERO Michael	Haines Company, Inc.	
1984	Wendt Geo W	R. L. Polk & Co.	Image pg. A10
1980	Kimura Sami H	R. L. Polk & Co.	Image pg. A17
1975	Kimura Sami H	R. L. Polk & Co.	Image pg. A24
1970	KIMURA SAML H	John M. Ducy	
1966	VACANT	R. L. Polk & Co.	Image pg. A28
1961	Lancaster Leonard M	R. L. Polk & Co.	Image pg. A30

5048 MOUNT FRISSELL DR

Year	Uses	Source	
2006	GRUBENSKY Michael	Haines Company, Inc.	Image pg. A4
2000	GRUBENSKY Michael	Haines Company, Inc.	
1989	David L W	Pacific Bell	
1984	David Luther W	R. L. Polk & Co.	Image pg. A10
1980	David Lluther W	R. L. Polk & Co.	Image pg. A17
1975	David Luther W	R. L. Polk & Co.	Image pg. A24
1970	DAVID LUTHER W	John M. Ducy	

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Year	Uses	Source	
1966	DAVID LUTHER W	R. L. Polk & Co.	Image pg. A28
1961	David Luther W	R. L. Polk & Co.	Image pg. A30

5055 MOUNT FRISSELL DR

Year	Uses	Source	
2000	JENSEN Fred	Haines Company, Inc.	
1992	Jensen F H	PACIFIC BELL WHITE PAGES	
1989	Jensen F H	Pacific Bell	
1984	Jensen Fredk H	R. L. Polk & Co.	Image pg. A10
1980	Jensen Fredk H	R. L. Polk & Co.	Image pg. A17
1975	Jensen Fredk H	R. L. Polk & Co.	Image pg. A24
1970	JENSEN FREDK H	John M. Ducy	
1966	JENSEN FREDK H	R. L. Polk & Co.	Image pg. A28
1961	Jensen Fredk H	R. L. Polk & Co.	Image pg. A30

5060 MOUNT FRISSELL DR

Year	Uses	Source	
2006	KOSTECKI Mary	Haines Company, Inc.	Image pg. A4
2000	KOSTECKI Mary	Haines Company, Inc.	
1984	Kostecki Thos W	R. L. Polk & Co.	Image pg. A10
1980	Kostecki Thos W	R. L. Polk & Co.	Image pg. A17
1975	Kostecki Thos W	R. L. Polk & Co.	Image pg. A24
1970	BARRETT JAMES L	John M. Ducy	
1966	BARRETT JAMES L	R. L. Polk & Co.	Image pg. A28
1961	Barrett Jas L	R. L. Polk & Co.	Image pg. A30
1960	Barrett Jas L	The Pacific Telephone Telegraph Co.	

5063 MOUNT FRISSELL DR

Year	Uses	Source	
2006	JENSEN Richard W	Haines Company, Inc.	Image pg. A4
2000	JENSEN Richard W	Haines Company, Inc.	
1992	Jensen Richard W	PACIFIC BELL WHITE PAGES	
1989	Jensen Richard W	Pacific Bell	
1984	Greenlee Edgar M	R. L. Polk & Co.	Image pg. A10
1980	Greenlee N Edgar M	R. L. Polk & Co.	Image pg. A17
1975	Greenlee Edgar M	R. L. Polk & Co.	Image pg. A24
1970	GREENLEE EDGAR M	John M. Ducy	
1966	GREENLEE EDGAR M	R. L. Polk & Co.	Image pg. A28
1961	Greenlee Edgar M	R. L. Polk & Co.	Image pg. A30

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MOUNT FRISSL DR

5036 MOUNT FRISSL DR

Year	*Uses*	*Source*
1960	Teague Roy W	The Pacific Telephone Telegraph Co.

5045 MOUNT FRISSL DR

Year	*Uses*	*Source*
1960	Lancaster Leonard M	The Pacific Telephone Telegraph Co.

5048 MOUNT FRISSL DR

Year	*Uses*	*Source*
1960	David L W	The Pacific Telephone Telegraph Co.

5055 MOUNT FRISSL DR

Year	*Uses*	*Source*
1960	Jensen F H	The Pacific Telephone Telegraph Co.

5063 MOUNT FRISSL DR

Year	*Uses*	*Source*
1960	Greenlee Edgar	The Pacific Telephone Telegraph Co.

MOUNT GAYWAS DR

5073 MOUNT GAYWAS DR

Year	*Uses*	*Source*	
2006	XXXX	Haines Company, Inc.	Image pg. A4
2000	HALL Judith	Haines Company, Inc.	
1984	Castro Jean Mrs	R. L. Polk & Co.	Image pg. A10
1980	Marcus Mark L	R. L. Polk & Co.	Image pg. A17
1975	Marcus Mark L	R. L. Polk & Co.	Image pg. A24
1970	BOCK MIRIAM S JR	John M. Ducy	
1966	BOCK MIRIAM S JR	R. L. Polk & Co.	Image pg. A28
1961	Bock Miriam S jr	R. L. Polk & Co.	Image pg. A30

5086 MOUNT GAYWAS DR

Year	*Uses*	*Source*	
2006	XXXX	Haines Company, Inc.	Image pg. A4
2000	MCCAFFERTY Jos E	Haines Company, Inc.	
1992	Mc Cafferty K	PACIFIC BELL WHITE PAGES	
	Mc Cafferty Jos E	PACIFIC BELL WHITE PAGES	

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Year	Uses	Source	
1989	Mc Cafferty Jos E	Pacific Bell	
1984	Mc Cafferty Joseph E	R. L. Polk & Co.	Image pg. A10
1980	Me Cafferty Joseph E	R. L. Polk & Co.	Image pg. A17
1975	Mc Cafferty Joseph E	R. L. Polk & Co.	Image pg. A24
1970	MC CAFFERTY JOSEPH E	John M. Ducy	
1966	MC CAFFERTY JOSEPH E	R. L. Polk & Co.	Image pg. A28
1961	Mc Cafferty Jos E	R. L. Polk & Co.	Image pg. A30
1960	Mc Cafferty Mildred F	The Pacific Telephone Telegraph Co.	
	Mc Cafferty Jos F	The Pacific Telephone Telegraph Co.	

5087 MOUNT GAYWAS DR

Year	Uses	Source	
2006	ROBERTSON Catherine	Haines Company, Inc.	Image pg. A4
2000	WILLIAMS Lowen	Haines Company, Inc.	
1984	Oram Sydney F acct	R. L. Polk & Co.	Image pg. A10
1980	Oram Sydney F acct	R. L. Polk & Co.	Image pg. A17
1975	Oram Sydney F	R. L. Polk & Co.	Image pg. A24
1970	ORAM SYDNEY F	John M. Ducy	
1966	ORAM SYDNEY F	R. L. Polk & Co.	Image pg. A28
1961	Oram Sydney F	R. L. Polk & Co.	Image pg. A30
1960	Oram Sydney F	The Pacific Telephone Telegraph Co.	
	Morefield Maria T Mrs	The Pacific Telephone Telegraph Co.	

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ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
4227 Genesse Ave	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4251 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4256 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4261 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1984, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4263 MOUNT CASTLE AVE	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4282 E GENESEE AVE	2014, 2010, 2006, 2000, 1995, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4282 GENESEE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4282 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4282 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4282 Genesse Ave	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4290 GENESEE AVE	2014, 2010, 2006, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4295 GENESEE AVE	2014, 2010, 1989, 1985, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4299 GENESEE AVE	2014, 2010, 2006, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4301 MOUNT EVEREST BLVD	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4302 GENESEE AVE	2014, 2010, 2006, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

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Address Researched	Address Not Identified in Research Source
4302 Genesee Ave	2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4302 Genesee Ave	2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4303 GENESEE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4303 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4304 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4310 GENESEE AVE	2014, 2010, 1995, 1991, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4310 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4310 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4310 Genesse Ave	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4311 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1984, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4313 MOUNT CASTLE AVE	2014, 2010, 2006, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4314 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4315 GENESEE AVE	2014, 2010, 1995, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4319 MOUNT CASTLE AVE	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4320 GENESEE AVE	2014, 2010, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4320 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4320 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4320 Genesse Ave	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4321 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1984, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4323 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4324 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4330 GENESEE AVE	2014, 2010, 1995, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4330 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4330 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4331 MOUNT EVEREST	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4331 MOUNT EVEREST BLVD	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4333 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4333 Mount Castle Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4333 Mount Castle Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4334 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4340 GENESEE AVE	2014, 2010, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4340 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4340 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4341 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1984, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4343 MOUNT CASTLE AVE	2014, 2010, 2000, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4344 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4350 MOUNT EVEREST	2014, 2010, 2006, 2000, 1995, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4350 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1984, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4350 Mount Everest Blvd	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4350 Mount Everest Blvd	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4351 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4353 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4354 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4355 GENESEE AVE	2014, 2010, 1995, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4356 GENESEE AVE	2014, 2010, 2006, 2000, 1995, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4356 Genesee Ave	2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4356 Genesee Ave	2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4360 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4360 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4360 GENESEE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4361 MOUNT EVEREST	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4361 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1984, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4363 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4364 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4365 GENESEE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4370 GENESEE AVE	2014, 2010, 1995, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4370 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4370 Genesee Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4371 MOUNT EVEREST	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4371 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1984, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4373 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4374 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4375 GENESEE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4381 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4381 Mount Everest Blvd	2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4381 Mount Everest Blvd	2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4383 MOUNT CASTLE	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4383 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4384 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4401 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4401 Mount Castle Ave	2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4401 Mount Castle Ave	2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4401 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4402 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4407 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4408 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4408 Mount Castle Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4408 Mount Castle Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4409 Mount Everest Blvd	2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4409 Mount Everest Blvd	2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4409 MOUNT EVEREST BLVD	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4413 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4414 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4417 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4419 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4419 Mount Castle Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4419 Mount Castle Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4420 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4425 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4425 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1992, 1991, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4425 MOUNT EYVEREST BLVD	2014, 2010, 2006, 2000, 1995, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4426 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4431 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4432 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4432 Mount Castle Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4432 Mount Castle Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4433 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4437 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4437 Mount Castle Ave	2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4437 Mount Castle Ave	2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4438 Mount Castle Ave	2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4438 Mount Castle Ave	2014, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4438 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4441 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4443 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4444 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4449 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4449 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4450 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
4453 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1992, 1991, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4455 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4456 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4461 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4461 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4462 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4462 Mount Castle Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4462 Mount Castle Ave	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4467 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4467 MOUNT EVEREST BLVD	2014, 2010, 2000, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4470 MOUNT CASTLE AVE	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4473 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4476 MOUNT EVEREST	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4476 MOUNT EVEREST BLVD	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
4479 MOUNT CASTLE AVE	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5036 MOUNT FRISSL DR	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5042 MOUNT ETNA DR	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5045 MOUNT FRISSELL DR	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5045 MOUNT FRISSL DR	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5048 MOUNT FRISSELL DR	2014, 2010, 1995, 1992, 1991, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
5048 MOUNT FRISSL DR	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5052 MOUNT ETNA DR	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5055 MOUNT FRISSELL DR	2014, 2010, 2006, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5055 MOUNT FRISSL DR	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5060 MOUNT FRISSELL DR	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5062 MOUNT ETNA DR	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5063 MOUNT FRISSELL DR	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5063 MOUNT FRISSL DR	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5072 MOUNT ETNA DR	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5073 MOUNT GAYWAS DR	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5086 MOUNT GAYWAS DR	2014, 2010, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5087 MOUNT GAYWAS DR	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5210 Balboa Ave	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5230 Balboa Ave	2014, 2010, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5252 Balboa Ave	2014, 2010, 1976, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5255 MOUNT ETNA DR	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5255 Mount Etna Dr	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5255 Mount Etna Dr	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
5270 Balboa Ave	2014, 2010, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
5225 Mt. Etna Dr.	2014, 2010, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

Source Page Images Appendix

BREIDENBACH Jason D 858-278-3225 +6
E2 CARR Robert J 858-974-3806 1
CASILLAS Gustavo S 858-496-0931 4
CRUZ Otelia 858-715-8371 +6
DIAZ Crystal 858-569-1721 +6
E1 ELIA Jeanne 858-279-3153 4
★FIESTA APTS 858-571-9104
GLOWACKI Betty 858-560-5644 4
A6 JOHNSON Wm 858-569-1761
F13 KOTNER Anthony 858-505-9651 4
A4 MEMON Ahmed 858-505-0251 4
MOORE Kelsey 858-712-1301 +6
E12 PERES Rivka 858-571-8779 4
RABKIN Zeke 858-573-2595 4
RAMOS Leslie 858-292-0237 +6
C8 ROUX Edward R 858-278-6732
C1 SIMPKINS Jeffrey 858-277-4399 4
C1 SIMPKINS Shante 858-277-4399 4
STOREY Robert 858-565-6008 3
TARAZI Adeeb 858-505-8026 4
TODT Douglas 858-292-4768 4
G2 WAGNER M F 858-576-0616
F15 WONG Bryana 858-569-0157 +6
5150 . . . . . .
5158 XXXX OO
5188 . . . . . PARK PLACE APTS
C15 ABRAMOVITCH Lazar 858-496-0470 1
D5 BUEHRING Monica 858-450-6004 4
D4 BYALIK Aleksander 858-694-8128 3
A3 CAROS Daniel R 858-277-0765 2
CHUNG Ji 858-560-2056 +6
DAYN E 858-565-4283 4
D6 ELTALMAS Yosef 858-565-4575
GRANGER Kyle 858-300-7305 +6
GRAVRILYUK Valentina 858-715-9124 +6
A4 KUZMINSKA Victoria 858-569-7180 9
D11 LEVIN Boris 858-565-8892
D7 LOGINOV Anna 858-569-5901 4
D1 NOMOVI Mojtaba 858-496-0961 4
B10 OURO-AKONDO Tchassama 858-571-5702 9
★PARK PLACE APTS 858-541-7683
C13 RABINOVICH Leonid 858-279-3155 4
RYLKO Teresa 858-505-0496 2
A5 SKLYAR Filipp 858-573-9680 1
A5 SKLYAR Sama 858-573-9680 1
B5 TKACHUK G 858-268-1655 1
D9 ZAGANSKY Yakov 858-277-2578 9
ZHU Ping 858-505-1319 +6
5188 . . . . . .
5252 . . . . . SUN N DALE APTS
★5252 BALBOA ARMS 858-277-3562 2
★5252 BALBOA LLC 858-565-4166 2
151 ABDELGALIL Adil 858-569-6655 4
AKITA Katsuhiro 858-571-6197 4
ALBRIGHT M 858-565-7066 +6
153 ALI Ashraf 858-715-0708 2
ARREDONDO Pedro 858-571-2907 2
AVALOS Ana M 858-277-4103 4
BALTAZAR Claudia E 858-277-7392 +6
BOTVINNIK Andrei 858-277-2235 +6
CHENG John 858-560-5620 4
CHINEN Sadako 858-541-1021 3
COSIO Carlos 858-503-0807 4
DEFUENTES Beatrice 858-715-0525 4
DELACRUZ Fernando 858-694-0082 +6
DREWETT Brett 858-565-4593 +6
ESQUER Tania 858-300-5682 4
FELICIANO Jose 858-571-2901 4
175 FISHER George 858-278-5737 4
FULLER R Olga 858-560-5367 +6
FUNATO Kazuhiro 858-712-9286 +6
GALIANA Felix 858-694-0532 2
GARCIA Patricia 858-565-1148 +6
238 GERMAIN Brian J 858-560-1790 4
GLORIA Flores 858-268-8326
278 GROSS Matthias 858-503-0882 3
HAGIWARA K 858-560-6593 +6
144 HUSSAIN Kazi S 858-715-1581 +6
IBRAHIM Ahmad 858-560-0667 +6
186 INTHAVONG Khamsouk 858-292-1033 3
208 IRIZARRY Michael 858-569-1772 2
KAWAGUCHI Munehiro 858-715-1981 +6
260 LAFRANCE Annie 858-268-4225 3
LOPEZ Martha 858-300-5788 +6
LUONG Thien 858-571-2975 4
MALIK Abdul J 858-560-4924 1
MAYDANYUK Yekaterina 858-571-8038 +6
MEDINA Alisa 858-279-9774 4
110 MEZA Elena Maria 858-277-8858 3
MOODY Rosemary 858-874-5857 +6
MUNOZ Hilda 858-292-0595 +6
NABLI Ilham 858-278-5181 +6
NIE Aihua 858-505-9329 +6
ORTIZ Lidia 858-505-4692 3
OVERMEYER Demitria 858-292-5035 4
PALMON Rosalia 858-573-9374 4
PALOMINO Isaias 858-715-4539 4
PARK Jin Hyuk 858-292-7595 +6
233 PENG Shihyao 858-576-9888 4
POSADAS Samuel 858-576-1399 +6
RAINING Randy 858-279-1997 4
137 ROSSON L 858-974-9943 4
SAMANIEGO Alex 858-292-0129 4
SANCHEZ Moises 858-560-0928 4
SIMPSON J 858-571-5042 4
SOSKIN Liz 858-565-6134 +6
STEWART Carrie 858-277-4284 4
TANG Wenbo 858-571-7736 +6
TOVAR Angel 858-571-6286 +6
ZARATE D 858-715-0415 +6
ZEITNER Rebecca 858-278-4218 4
ZHANG Youwei 858-467-9708 +6
5252 . . . . . .
5402 BANK M T 858-541-1951 4
★MAISEL PRESLEY 858-565-4717 +6
5404 SCHOM Steve 858-565-6349 +6
VAZQUEZ Humberto 858-292-5584 2
5544 . . . . GARDENS APTS
ARROYO C 858-560-5250 4
E16 BELLO Chris 858-560-0487 4
BIKOWSKI Bonnie 858-292-6937 +6
BROWN Matrincia 858-505-9611 +6
D7 CHUMAKOV Volodymyr 858-715-6628 2
★CLASSIC TRANSPORTATION 858-272-2272 8
F14 CROYET Nanette 858-277-6880 4
DOBBINS Katrina 858-560-8579 +6
★GARDENS APARTMENTS 858-278-5862
HARDING Adam 858-715-0984 +6
HAYES Kelly 858-492-1158 3
E14 JAFARINIKOOFEK Nasrin 858-502-9886 4
JARWALA Kavita 858-565-6093 +6
C16 JOVEN Erwin 858-565-1279 4
KIRKER Candace 858-571-8948 4
MARTINEZ D 858-874-2544 4
MITCHELL Raymond 858-495-3389 4
MONTOUR Doreene 858-514-9857 4
NGUYEN Casey 858-565-6360 4
ODOWICK Michael S 858-571-3822 +6
PATEL Parina 858-277-5014 +6
PERAZA Manuel 858-277-1959 +6
PINON Loreto 858-292-0182 3
E1 REICHENBERG Karine J 858-467-0734 2
B1 STEVENS Eric 858-569-8918 +6
TRUONG Rosie 858-277-6171 +6

YUAN Zung Fan 858-974-4895 4
ZUNIGA Joseph 858-300-7333 +6
5544 . . . . . .
5550 . . . . . CHATEAU APTS
ACOSTA Irma 858-573-6822 3
84 ALBAU Solomon 858-874-6859 3
AN Chung Gi 858-627-9273 4
BAKHSHANDEH Poheh 858-278-5916 4
BEIN Scott 858-874-4487 +6
CARINI Dena 858-565-5233 4
★CHATEAU APARTMENTS 858-279-6420
COLON Alfonso E 858-268-9518 4
81 CORTEZ Cesar A 858-277-3697 4
DAVIDSON Lucas 858-279-8386 +6
FOWLER Deborah 858-565-4610 +6
62 GRAHAM Marilyn Meia 858-279-8438
HAQ Ather 858-874-5993 +6
88 IRAQI Jos 2D 858-565-2310
KOCISOVA Paula 858-571-3727 +6
KUDHAIR Kalid 858-694-0908 +6
LI Shu Kuan 858-576-9378 3
MEJIA Mario 858-277-4252 4
MEYERS Whitney 858-654-0477 4
NOVAC Blanca D 858-277-3686 4
PORTER J R 858-268-3665 +6
33 RAMIREZ Adriana 858-571-8754 +6
REYS Jorge 858-277-7672 +6
16 RICH James M 858-560-8031 7
SHIEH J 858-874-8880 +6
STILLWAGEN John 858-715-1915 1
WEST Judy 858-974-1935 4
5550 . . . . . .

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★ 8 BUS 162 RES 60 NEW

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X SEA VIEW AVE
1904 ● FEHR Gregory OO 4
1925 XXXX OO
1927 XXXX OO
1930 XXXX OO
1945 FRIVALDSKY Jos 858-755-9085

X ZAPO ST
2026 ● SMITH Donald 858-755-3820
2029 ★LEWIS & LEWIS DEVELOPMENT CORP 858-755-2263 4
● LEWIS Wm S Jr 858-755-9262
2051 ● FLEET Robert OO 4
2060 DOMINY A L Rev 858-755-7478
2065 ● DICHIARA Yvonne 858-481-2601

X LUZON AVE
2077 ○ ALBROW Robert 858-259-6533 4
○ ALBROW Robert 858-259-7537 4

X GATUN ST
2105 ● KUNKLE Lynn OO 8
2108 ● GUBERNATOR Nikolaus OO 4
2115 XXXX OO
2116 XXXX OO
2123 ○ MANDEL B 858-755-6434
2130 ● BERRIDGE William W 858-481-7161 2
2158 XXXX OO
2164 ● COLE Michael 858-481-9894
2165 RUSHALL L J 858-755-2445
★ 1 BUS 21 RES 0 NEW

BALBOA AVE 92109
SAN DIEGO

WEALTH CODE 1.2

PACIFIC BEACH AREA

X LAMONT ST
1902 ★COIN LAUNDRY 858-274-4610
1906 ★SEVEN 11 FOOD 13596 858-272-5711
GREGORY John 858-274-6510 8
★INSIGHT GRAPHICS 858-273-4444 8
1932 ★LA CASA DE COTIJA 858-272-2791 4
● PHILLIPS Jack OO 0
★TACO EXPRESS 2 858-273-2791 9
1940 ★MCKENNA INSURANCE CONFIRM 858-490-3800 +6
● PHILLIPS Jack OO 0
1946 ★BITHOS DENISE HAIR&MAKE-UP 858-454-5700 3
★SALON ROUGE MAKE-UP ARTISTRY 858-483-1444 3
1948 XXXX OO
1950 ★CHERRYBOMB SALON 858-273-3013 8
★YVONNE REAPE AT PRIMO UTC 858-272-9367 3
1952 ★NAILS TOUCH GENTLY BY CATHY 858-483-5188 1
1954 ★ALL ABOUT HAIR 858-483-1777 3
1956 DOUGHMAN Jyothi P 858-483-3494 2

X MORRELL ST
2002 ● SANCHEZ Ruben OO
2004 HEYS Robert 858-272-4739 9
★LAJOLLA ORTHODONTIC LAB 858-272-5509
2016 GREEN Amanda 858-273-7137 +6
2018 SCHWENK Jennifer 858-272-5388 3
2026 ROBINSON Dana 858-274-4722 4
● STERN Kenneth OO 7
2028 GREGORY Patrick 858-272-5438 2
★STERN KENNETH DC 858-581-1828 3
2034 ● SAKASEGAWA James OO 1
SULLIVAN Theodore 858-581-3123 4
2036 XXXX OO
2052 XXXX OO
2060 ● FEIGHAN Matthew OO 0
2062 RASCON Maria 858-273-5328 +6
2068 SWART Sang 858-272-2000 4
2070 ★DISCOUNT JANITORIAL SUPPLIES 858-272-2705 4
★FLOOR-TEK 619-281-7655 4
★FLOOR-TEK 858-270-7774 4
2072 XXXX OO
2075 ★BUFF GUYS AUTO DETAILING 858-272-2433 1
★PAC BEACH CAR WASH 858-272-2844 4
★SD AUTO DETAILING 858-272-2433 4
★SHELL CAR WASH 858-272-2844

X NOYES ST
2102 BOLDEN Michael 858-272-4944 3
WEBER Somer 858-274-4294 2
2112 . . . . . APARTMENTS
BENEAU Jason 858-270-4724 3
FRANCO Marcio 858-270-3370 2
GILES H 858-581-1361 4
LUNA Felipe G 858-483-4622 2
MCNULTY Lindsey 858-483-3481 4
NACCACHE Samia N 858-581-9441 4
NOBLE Margaret 858-270-5994 2
RAYRAY Castro P 858-483-5838 4
2112 . . . . . .
2122 . . . . . APARTMENTS
BROOME Kirstin 858-272-8191 4
DIMIT Bilan 858-270-7331 3
FIORONI Alex 858-483-8103 1
KIRTLEY Michael 858-270-1959 4
PABARI Vipul 858-274-8726 8
2122 . . . . . .
2126 BELAUS Suzanne 858-272-9636 4
RUTLEDGE Andrew 858-272-2495 2
2130 XXXX OO
2131 ● BROWN Wayne 858-270-5351 0
OSTERHOUDT Kunle 858-274-8630 3
2132 GARWOOD Gordon 858-272-9211 4
2133 BINKLEY Gary P 858-272-8485 4
2135 ● LEDESMA Mario OO 1
2137 HIRZEL Brandon 858-272-8979 3
2138 FOX Steven 858-270-7982 4
HERY Sean 858-273-7610 4
PEREZ Eva 858-270-0825 4
2143 HIRT Timo 858-273-5784 +6
2144 BERGAMIN Fabio R 858-483-5143 3
CUNNINGHAM M T 858-273-5347
MCDONALD J 858-270-5146 4
PETRUZZELLI Anthony 858-581-6419 3
2147 FAJARDO Noe 858-581-2646 3
2149 BECERRA Antonio 858-274-1485 +6
2151 PFEIFFER E H 858-270-8572 2
2152 GEDSELL Michael 858-274-2063 3
2155 DELGADO Omar 858-490-4634 4
2157 AUZA Hermenegildo 858-483-9636 4
2158 XXXX OO
2159 MARTINEZ Erika 858-274-1936 4
2161 XXXX OO
2168 ★APPLIED WELLNESS 858-581-1830
★ARTISTIC PORCELAIN STUDIO INC 858-274-5632 3
★EUROTECH DENTAL LABORATORY SRV 858-481-6304 3
★EUROTECH DENTAL LABORATORY SVS 858-274-5633 3
★GRAHAM TODD ARCHITECT 858-274-8622 4
★KOHN ARCHITECTURE 858-274-1812 4
★PAC MORTGAGE SOLUTIONS INC 858-581-4300 4
★PRINCE DEBORAH OD 858-274-3777 4
★VISION CARE 858-274-3777
2175 XXXX OO

X OLNEY ST
2206 ★A A A ALCOHOL & DRUG TREATMENT 858-274-6633 7
★A ALCOHOL & ADDICTION CENTERS 858-274-6633 8
★AAA ALCOHOL & DRUG TREATMENT 858-274-6633 7
★ADVANTAGE CHIROPRACTIC CENTER 858-581-1878 9
★ADVANTAGE CHIROPRACTIC CENTER 858-581-1828 9
★BAY RECOVERY CENTER INC 858-274-6633 4
★RAND INSTITUTE FOR RECOVERY 858-274-6633 7
RAND Jerry 858-274-4690 4
★RAND JERRY N MD ASAM 858-274-6633 7
★RAND RCVRY CNTR-PSYCHLGCL SV 858-274-6633 7
★RAND RECOVERY CENTERS 858-274-6633 7
★STERN KENNETH DC DR 858-581-1828 2

X GARNET AVE
★ 41 BUS 63 RES 5 NEW

BALBOA AVE 92117
SAN DIEGO

WEALTH CODE 5.8

X MODOC ST
4170 ★SALVATN ARMY THE 858-483-1831

X CLAIREMONT DR
4220 ★ALBERTSONS SUPERMARKETS 858-270-7140 1
★BANK AM SERVICE 858-452-8400 7
4221 ★EBBA'S TAEKWONDO FAMILY CTR 858-273-6065 2
4223 ★BORDOKOFF ALEX 858-483-5078 7
★HEAD WEST 858-274-4262 9
★REIGNING COLOR 858-483-5078 7
★REIGNING COLOR 858-483-5078 7
★REIGNING COLOR 858-274-9773 7
★REIGNING COLOR SALON 858-274-4262 7
★REIGNING COLOR SALON 858-581-6111 7
★SAMMONS WENDY HAIRSTYLIST 858-581-0608 4
★SLUTSKAYA ELENA 858-483-0362 4
4224 ★COMIC GALLERY THE 858-483-4853
4225 ★ADVANCE TCKTS A SBSDRY OF TRP 858-581-1000
★ADVANCE TICKET SALES 858-581-1000
★FIRST CLASS TRAVEL 858-581-9411 9
★TRAIN TICKETS 858-581-1000
4226 ★COAST SEWINGA VACUUM 858-273-1377
★SEW HUT 858-273-1377
4227 ★MANDARIN WOK 858-272-3972
4228 XXXX OO
4230 ★DISCOUNT POOL SPLY 858-483-3180
4232 ★ALTERNTV HOME CARE SERVICES 858-272-7036 +6
★CRESPO REALTY 858-273-5094 4
★RE-GEN SUPPLY 858-581-2912 3
★SD COMMON GROUND INC 858-270-3920 +6
4236 ★CLEAR IMAGE DESIGN 858-581-1574 4
★DALTON INSURANCE SERVICES 858-270-5207
★DALTON 858-270-6812
★STAR SECURITY SERVS 858-272-9363
★SYSTEMWARE INC 858-581-3985 8
4238 ★BALBOA RNTL PRPRTY 858-273-4431
★CLAIREMNT RENTAL PROPERTIES 858-273-4431
4241 ★COPOULOS GEO P DDS 858-273-1580
4243 ★J & K LAB 858-270-5403
4282 . . . . . CANYON VILLAS
222 ADAMSON Stephen 858-490-2165 +6
ALBERT Daine 858-273-0679 4
139 ANDERSON Helen 858-270-9005 4
301 BEARD Ellen C 858-581-1448 4
★BONANNAN RAY CDR USN RET 858-273-3096 4
BRAYFIELD Helen 858-274-5154 +6
★CANYON VILLAS HEALTH CENTER 858-273-1306
CHRONIS R M 858-272-9335 4
CLOUTHIER Grace 858-581-3505 4
CONGEMO Sam E 858-274-5975 4
DALY Margaret T 858-273-3668 3
323 DEMPSEY Dorothy E 858-272-7893 9
EDWARDS Roger W 858-272-4675 9
106 EKROOS Blanche 858-272-5824 3
320 FOULK Jas W 858-272-7299 2
FRANCES Lucile 858-272-3635 +6
201 GOODFELLOW E 858-270-1867 4
GRAHAM Cecil 858-270-4776 +6
HELD Harold 858-581-9367 +6
HOFF C 858-270-8803 4
JOHNSON Mary 858-270-7499 4
LIGHT Rachel 858-490-4229 4
LOWERY L P 858-483-3128 +6
MARSHALL Marian 858-274-1008 4
MILLER Marjorie 858-273-0959 +6
321 NASBY Margaret 858-272-4055 3
330 NAUGLE Alvin 858-581-1513 4
PELOQUIN Blanche 858-272-2655 +6
PETER Marge 858-581-1357 +6
PFEIFER Noel B 858-272-0864 4
POWERS C 858-272-8468 4
PRUITT Mark 858-272-7993 2
RECORDON Bunny 858-483-5440 4
SELLERS Margaret 858-581-1538 4
SHEPHERD Winifred P 858-273-2450 +6
239 SHROSBREE Evelyn 858-274-2175 4
SMALLWOOD June 858-490-2116 +6
228 SMITS L A 858-273-3218 1
STAMPER Lee 858-272-9491 +6
STUCKER Lorraine 858-273-4194 +6
THEISEN Mavis 858-490-0330 4
TORBERT Manley 858-270-5772 4
TUCKER Lloyd 858-274-4370 4
VEACH Wilma S 858-483-8203 3
VONG Arvid 858-274-1388 4
WILLS Jean 858-270-7917 +6
WINES Leo E 858-273-4744 4
WRIGHT Grace 858-273-7875 +6
202 WYNANT R C 858-272-3828 1
YOUNG Nancy 858-483-3049 +6
4282 . . . . . .
4292 ★CANYON VIEW CHURCH CHRIST 858-273-5140
GAFFORD Joey A 858-581-3882 4

X MOUNT CULEBRA AVE

X MOUNT EVEREST BLVD
5210 ★ADECCO EMPLOYMENT SERVICES 858-560-8815 9
★CLAIRE'S HAIR STYLIST 858-277-3224 9
★CROWN HOUSE BARBERS 858-560-4527 9
★KASIRI REZA 858-576-1988 2
★NAILS BY ANN 858-278-7167 9
★NENY'S HAIR DESIGN 858-277-1960 9
★TOOTIE HAIR SOLUTIONS 858-573-0703 4
★TRACY DIANE K INSURANCE 858-576-9303 3
★VIRGIE'S HAIR STYLING 858-467-9434 9
5222 . . . . . BUILDING
★A DOCTOR'S WEIGHT CLINIC 858-279-7060
★ADAMS MICHAEL M PHD 858-279-1900 2
★ALEXANDER HOLISTIC CT WMN& FMLY 858-560-8595 3
★ASSOCTE IN FAMILY MEDICINE 858-565-6394 3
★BALBOA PHARMACY 858-278-0111
★BENSINGER JACKIE LAC 858-505-9444 4
★CLAIREMNT DENTAL GROUP 858-279-1900
★CRAVENS DAVID 858-277-4878 3
★DOCTOR'S WEIGHT CLINIC 858-279-7060 +6
★EYECARE ASSOCIATES OF SAN DGO 858-650-6800 1
★FAMILY FOOT CARE SPECIALISTS 858-270-2997 4
★GROSS KENNETH G MD 858-292-5101
★H & R BLOCK 858-279-1780 5
★HAMIDI MICHELLE MD 858-565-6394 3
★HARRIS JOS C DDS 858-277-5141
★HEUNG RAYMOND C MD 858-874-8868 8
★HOANG MINH-TUAN RICHARD MD 858-292-0204 1
★HOANG MINH-TUAN RICHARD MD 858-292-5101 1
★ILLICH VANJA I DDS 858-279-1900
★IMPLEMENTING CHANGE 858-541-1016 4
★INTL SERVICE INCORPORATED 858-278-4310 4
★JOHN FITZPATRICK 858-268-2424 4
★JOLLEY WALTER H DPM 858-560-0390 4
★KIM CHIROPRACTIC CENTER 858-292-0256 7
★KLING MICHAEL 858-650-6800 +6
★MARK LESLIE A MD 858-292-0204
★MARTIN BARBARA E MD 858-292-7928
★MARTIN DALE E MD 858-292-5101
★PATTERSON DENTAL KENNETH J DDS 858-274-5141
★RAISAIDEH MAHIN 858-616-6430 3
★SD FLASH 858-581-2120 2
★SERVICE INC INTERNATL 858-278-3965 4
★SKIN SENSATIONS 858-273-2861
★SKIN SRGRY&SKIN TUMOR MED GRP 858-292-5101
★SKIN SURGERY MEDICAL GROUP INC 858-292-5101
★TANG SHENGYING ACUPUNCTR& HRBL 858-560-1828 3
★THE GREAT SAN DIEGO CLINIC INC 858-274-8868 8
★YEN YU SONG DDS 858-279-1900
★ZAWITKOWSKI CLAUDIO MD 858-707-0093 1
5222 . . . . . .
5230 ★TACO BELL 858-571-4714 1
5252 . . . . . BUILDING
★A A TENANTS LEGAL CENTER 858-571-7100 7
★A ASSOCIATED DESIGN GRP DIEGO 858-467-1111 1
★ADVANTAGE COUNSELING 858-277-0289 3
★AFFORDABLE MASSAGE 858-279-0868 3
★AMERICA ONE FINANCE 858-496-9600 4
★ATTORNEY ALISE M KELLMAN 858-576-0401 8
★ATTORNEY JEFFERY S STYERS 858-278-3880 8
★ATTORNEY RUSS RASMUSSEN 858-569-0206 8
★CALPACIFIC MORTGAGE 858-565-6301 1
★CINGULAR WIRELESS PCS STORE 858-277-3100 3
★COSTIGAN LYNNE ATTY 858-278-3204
★COUNTRY WAFFLES 858-279-0200 1
★CURRY CHRISTIAN ATTY AT LAW 858-505-9200 8
★D'LISH XPRESS 858-277-9977 1
★DR KRISTINE WAGNER 858-614-9083 4
★ECHO LOGIC MEDICAL IMAGING INC 858-496-9615 4
★EVATT TIMOTHY G ATT AT LAW 858-278-3200
★FINANCL ADVISORS ASSOCIATES 858-496-2400 4
★GOVENAR DANNY 858-560-4460 3
★GREEN DONNA M DC 858-278-2181 1
★H & R BLOCK 858-279-8399 +6
★HAYS JEFF DC 858-278-2181 1
★HILL REALTY GROUP 858-279-9985 4
★HIRAGI KATSUMI 858-560-6044
★JACKSON BETTY J MD 858-573-9173
★JEFFERIES JAMES R 858-565-7214
★KELLMAN ALISE M ATTORNEY 858-576-0401
★KELLMAN STEVEN R ATTORNEY 858-277-7400
★KNEPP DAVID 858-560-5022 1
★LAW OFFICE OF CRYSTELLE HONG 858-277-2896 +6
★LEWIS JEFF 858-573-9346 1
★LOREN SMITH PRODUCTIONS 858-279-9985 4
★LORENSMITH PRODUCTIONS 858-715-1237 1
★LOTUFO PATRICIA DC 858-278-2181 1
★MADOFF JERRY PHD 858-569-0454 4
★MARSHALL THOMAS 858-292-0478
★MEYER C WEINER CD 858-277-1818
★NATIONWDE FLOOR & WNDW CVRNGS 858-278-4700 4
★OLENSKI PAUL E MD 858-495-0864 2
★PAUL LIEBMANN 858-565-6601 4
★PHYLLIS SENSENIG 858-576-2466 3
★PORTS0 SOFTWARE INC 858-268-7960 4
★POWER DATA SYSTEMS 858-278-6022
★RASMUSSEN & STYERS ATTYS 858-569-0206
★REAL ESTATE APPRAISALS SD 858-560-6444 9
★RENEE CURTIS DC 858-278-2181 7
★RENTER'S RIGHTS CNTR SAN DIEGO 858-571-7100 7
★SAN DIEGO CHIROPRACTIC 858-560-5022 9
★SEA VIEW CHIROPRACTIC CENTER 858-278-2181
★SEABOARD INVSTGN 858-569-1986
★SEABOARD PLYGRPHMVSTGN INC 858-569-1986
★SENSENIG & KIMBER LAW OFFICES 858-277-0202 3
★SIERRA WINDOW CONCEPTS 858-503-7550 9
★SIXTEN & ASSOCIATES 858-514-8605 3
★SMITH MARY LOU ATTY 858-278-3200
★SOBEL RICHARD A PHD 858-467-0170
★SOUTHER STAR MORTGAGE CO 858-503-0820 1
★SOUTHRN STAR MTG CORP 858-751-1372 1
★STUDIO C ARCHITECTS 858-292-9575
★STYERS JEFFERY SCOTT 858-278-3880
★SWANSON CHARLES A 858-573-1540
★TAD TECHNICAL 858-576-8922 8
★TENANTS LEGAL CENTER 858-571-7100 9
★THOMAS MARSHELL ATTORNEY AT LAW 858-292-0478 3
★TLN FINANCIAL SERVICES 858-278-8399 2
★TOUCH OF BALANCE 858-278-1151 9
★TRUONG T LAWRENCE 858-560-4460 +6
★UNIWEST MORTGAGE CORPORATION 858-495-3100 3
★WHITE JEANNINE L PHD 858-277-0289 3
5252 . . . . . .
5270 ★ONE HR EXPRESS 1 HOUR PHOTO 858-292-9349 1

X BALBOA WAY
5361 ● WOODS Brad OO 9
5363 WOODS Raymond B 858-279-1121
5365 ● LAWRENCE J 858-576-8425 4
5367 XXXX OO
5369 ● HERRIDGE Alan OO 0
5371 ● CHARON Francois 858-277-0340
★SD ACCENT LIMOUSINE 858-560-8773 +6
5373 XXXX OO
5375 AQUINO Veneracion G 858-715-1827 1
● SISON Richard OO 8
5377 BERGER Elaine M 858-560-9003 3
● MADDEN John OO 1
● BRICE James 858-292-7744 9
5381 ● BAILEY David OO 1
5383 ● PLOURD Christopher 858-874-4322 3
5385 ● HORTON Paul OO 4
5387 ● MCCORKLE Lemoyne OO 4
5389 ● KOLAR Lonl OO 3
5391 ● PHILLIPS Orlin OO 1
5393 TAYLOR H 858-492-1270 3
TAYLOR P 858-492-1270 3
5395 KINOWSKI Adam 858-277-6592 +6
● REILLY Richard OO 4
5397 ● SANTINI Toni OO 3

X GENESEE AVE
5399 ● BRADLEY Sharon OO 4

X MOUNT ALIFAN DR

★ 158 BUS 74 RES 25 NEW

BALBOA AVE 92111
SAN DIEGO

WEALTH CODE 2.6

5405 ★MARIE CALLENDER'S REST&BKRY 858-279-6604
5407 ★SD NATIONAL BANK 858-560-0112 8
5454 ★TARGET STORES 858-576-0811
5501 ★BASKIN-ROBBINS DSRTS ICE 858-292-6500
5502 ★BOSTON MARKET 858-292-0099 7
5504 ★T-MOBILE GENESEE PLAZA 858-569-6757 4
★TWEETER 858-277-8003 3
5511 ★TOGO'S EATERY 858-874-3630 1
5522 ★WELLS FRGO 858-278-9919 3
5544 XXXX OO
5555 ★US BANK BALBOA VON'S BRANCH 858-278-4661
★VONS 858-492-1000
5604 ★BALBOA ACCIDENT&INJURY CENTER 858-279-6161
★BALBOA MUSIC 858-292-5555 1
★CASH PLUS 858-541-7088 9
★EYE-TECH OPTOMETRY 858-279-5652
★MUSIC CENTRAL 858-279-6662
★TASTE OF CHINA 858-279-5663
★VANKIRK TIM M OD 858-492-1000
★VU PAUL DC 858-492-1000 4
★VU SUZANNE DC 858-279-2033
5617 ★BLARNEY STONE PUB 858-279-6227
5620 ★BLOCKBUSTER VIDEO 858-277-2677
5621 ★GENESEE BIRD&PET 858-278-1575
★SMATT ROBERT DVM 858-278-1575
5631 ★BALBOA COIN OP LNDY 858-569-1295
5635 ★PRO SHOE REPAIR 858-495-0885
5639 ★BALBOA CLEANERS 858-278-1171 2
5643 ★BLUMENTHAL'S TIME WISE 858-560-5583
★TIME WISE JEWELER & WATCHMAKER 858-560-5593 4
5647 ★MISTER FISH&CHIPS 858-279-3474 9
5650 ★EINSTEIN BROS BAGELS 858-268-3688 4
★MUCHO GUSTO EXPRESS 858-505-4111 9
★SUBMARINA 858-571-5465 3
★VOLTERO'S PIZZA 858-571-1550
5651 ★ONESTOP BEAUTY SALON 858-277-3780
★ONESTOP HAIR SALON 858-496-0974
5657 ★COFFEE BEAN&TEA LEAF 858-715-0278 2
5663 BURRELL Teresa M 858-268-2236
★MAIL BOXES ETC CLAIREMNT 858-278-9678
★UPS STORE THE BALBOA-GENESEE 858-278-9678 +6
5665 ★CLAIREMNT VACUUM & SEWING CNTR 858-571-0500 4
★EDDIE'S CIGARETTES CHEAPER 858-277-8667 1
★RUG DOCTOR RENTS 858-277-8667 +6
5667 ★PET PEOPLE 858-495-0333 9
5671 ★PURE BEAUTY 57 858-279-9164 3
5675 ★PATTI'S HALLMARK 858-560-8179 7
5685 ★LONGS DRUG PHOTO 858-279-2753
★LONGS DRUG PHOTO 858-279-4820
★LONGS DRUG STORES PRSCRPTN 858-279-2860
5790 ★BALBOA UNOCAL 858-492-9039
5825 ★WASH MUTUAL 858-565-8263 9
5851 ★BANK AM BANKING CENTERS 858-452-9460
5880 ★FIRESTONE TIRE & SERV CNTR 858-277-0089 7
5901 ★BALBOA INTERNATIONAL MARKET 858-277-3600 +6
5909 ★HEARTLAND PAYMENT SYSTEMS 858-565-4771 1
5915 ★A BETTER CLAIREMNT TTL CR SLN 858-278-1128 4
★CLAIREMNT TOTAL CARE SALON 858-278-1128 9
★OLIVIA'S FULL BEAUTY SERVICES 858-565-0920 3
5919 ★CHAI & CHAT 858-268-5738 4
★LILI BAKERY 858-560-5060 4
5920 ★MCDONALDS'S RESTAURANT 858-569-5928 4
5921 ★CHIEF TRAVEL OF SAN DIEGO 858-560-1488
★COMPUSHACK 858-571-5665 4
5925 ★URSULA'S CUSTOM TAILORING 858-277-2642
5927 ★EXTREME SMILE MAKEOVER 858-751-5733 4
★SHOJANNA ALI DR 858-751-5733 4
5929 ★LACROSSE SOUTH SWELL SPORTS 858-560-5774 4
★SOUTH SWELL SPORTS 858-560-5774 4
5933 ★ATO Z WIRELESS 858-268-4555 3
★FORTUNE COOKIE EXPRESS 858-278-4582 2
5939 ★ANTHONY SCHOOLS 858-571-3660 2
5941 ★SEES CANDIES 858-279-9260 4
5943 ★SPECTRUM MILLWORKS 858-565-8262 4
★SPECTRUM MILLWORKS 858-565-8622 4
★SPECTRUM MILLWORKS 858-565-8626 4
★SPECTRUM MILLWORKS 858-565-8644 4
★SPECTRUM MILLWORKS 858-565-8656 4
5945 ★CATHOLIC BOOK& MEDIA CT ST PAUL 858-565-9181
★DAUGHTERS OF ST PAUL 858-565-9181
★PAULINE BOOK&S MEDIA 858-565-9181
★ST PAUL DAUGHTERS OF 858-565-9181
5947 ★VETERAN REAL ESTATE 858-505-9600 3
5949 ★MANHATTAN DELI 858-715-0679 8
5953 ★WHITE DRGN MARTIAL 858-277-7557
5955 ★COCO'S FAMILY RESTAURANT 858-279-5363 7
5980 ★LESLIE'S SWIMMING POOL SPLY 858-492-3543 9
6050 ★SEASIDE BUICK 858-565-1911
6066 ★BALBOA MOBIL 858-279-2862
6085 ★AUTOZONE 858-278-8771 3
6125 ★SHELL FOODMART & CARWASH 858-576-6481
6133 ★FOXY JOHNS INC 858-278-9191
★GIOVANNI'S RESTAURANT BALBOA 858-278-9191
6135 ★IHOP 858-277-4791 3
6139 ★CREST BALBOA LIQUOR 858-277-4500
6143 ★CHECK CASHING PLACE 858-277-0927
6147 ★ANGEL TRAVEL-TAX REPAIR 858-560-5555 +6
★JACKSON HEWITT TAX SERVICE 858-751-1500 3
★JACKSON HEWITT TAX SERVICE 858-751-1361 3
★UNICCO INSURANCE 858-560-7827 +6
6155 ★RADIOSHACK 858-279-5041

⊕=DO NOT MAIL

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GENESEE AVE 92117 SAN DIEGO

WEALTH CODE 4.5

X BALBOA AVE

4203 ★3 DAY BLINDS 858-715-1667 4
● C &FOX 858-503-0023 9
● EAST WEST ELECTRIC 858-587-8585 2
★FANTASTIC SAM'S 858-268-1798
★FINESSE NAILS 858-268-4410 2
★GENESEE PLAZA DRY CLEANERS 858-576-8466
● POSTAL ANNEX CLAIREMONT 858-541-1882 2
4209 ★MARSHALLS 858-467-9330
4212 ★STAR WHOLESALE& RETAIL FLOWERS 858-278-1116 4
4223 ★ARITA SANDRA DDS 858-541-1844 4
● BALBOA BEAUTY SPLY 858-292-7696
★BALBOA DENTAL CARE 858-541-1844
★BOYD JIM DDS 858-541-1844 4
★ENGRAVING STORE THE 858-278-2323 1
● GENL NUTRITION CT 858-576-6898
GENESEE PLZA
★JB JEWELERS 858-541-7649 2
★JEWELERS J B 858-541-8271 +6
★STRAGIER DAN DDS 858-541-1844 4
★WENDY'S FLOWERS 858-279-5963 2
★WINDY'S FLOWERS 858-279-5963
4225 ★UNION BANK OF CA 858-569-2319
4227 ★STARBUCKS COFFEE 858-278-6017
4239 ★RALPHS GROCERY CO STORE 107 858-278-7772
4255 ★HOME DEPOT THE 858-277-6910
4265 ★NEW CARS 858-268-4085 8
4267 ★CATHERINES PLUS SIZES 858-279-1750 1
4271 ★FASHION SENSE 858-576-2111 4
4277 ★EZ BURGERS 858-277-0281 4
● E-Z BURGERS 858-565-1068 4
4279 ★PAYLESS SHOESOURCE 858-277-5566
4282 . . . . . BUILDING
★ABRAMOWITZ BRYAN L MD 858-292-9108 4
★ADVANCED PEDIATRIC MDCL GROUP 858-268-0702 7
★BALBOA MEDICAL GROUP 858-292-0108 4
● ELFENBAUM MARCIA MD 858-514-4116 3
★ERIK KOLBERG BCO 858-874-6800 +6
★FIRST BRIAN P MD 858-292-0108
★KIDOKORO YASUKO MD 858-277-9669 2
● KIDOKORO YASUKO MD INC 858-277-5226 2
★KORSAND SID S MD 858-268-0702 3
★LALIOTIS ARISTOTELIS T MD 858-292-0108 4
★LEVINSON GARY D MD 858-292-0108 4
● MEDICAL LAB OF SAN DIEGO 858-277-5226 3
● MEDICAL LAB OF SAN DIEGO 858-277-9901 3
★PRIVER DAVID MD 858-268-7324 1
★QIAN JOHN MD 858-571-3630 4
★RITCHKEN SIMON MD 858-292-0108 2
★SADRIEH JAY MD 858-268-0702 7
★SD EYE PROSTHETICS 858-874-6800 +6
★SD PHYSIATRY & PAIN MANAGEMENT 858-514-4116 +6
★WONG MICHL C MD INC 858-268-0300
4282 . . . . . .
4283 ★PARTY GIFT OF CLAIREMONT 858-268-4200 1
4295 ★HONEY BAKED HAM INC 858-565-0865
★HONEY BAKED HAM INC 858-565-7200

X MOUNT ETNA DR

4303 ★GENESEE AUTO CARE 858-560-9725
★SHELL SV STA DLRS 858-560-9725
★SMOG CHECK STATIONS 858-560-9725 3
4310 . . . . . BUILDING
★CHINA WOK 858-565-8555 1
★CONROYS FLORIST 858-569-7870
★DENTAL OFFICE 858-292-6998 4
★DON MARIO'S MEXICAN FOOD 858-467-0775 7
★GORDON SAML OD CORP 858-560-5181
★HAIR MENAGERIE 858-277-5431 3
★HAIR MENAGERIE 858-569-6233 3
★HALEY FAMILY CHIROPRACTIC 858-974-1292 2
★HALEY STEVEN 858-974-1292 2
★JEAN AND DEE DEE 858-277-5431 3
★LIBERTY PARK PLAZA SUPERCUTS 858-482-9892 0
★LIBERTY PK PLZ DR GARY SNG OD 858-560-5181 0
★LITTLE CAESAR'S PIZZA 858-571-7700
★LOMBARD JACK FNAO 858-560-5342
★LOS PALMITOS MEXICAN GRILL 858-571-9739 4
★QUACH MAI 858-571-3243 3
★SEE WORLD OPTICAL 858-560-5342
★SNEAG GARY PCOVD OD 858-560-5181
★SUBWAY SANDWICHES& SALADS 858-492-8338
★SUPERCUTS CLAIRMONT MESA 858-492-9892
★THAI TIME 3 858-278-4949
★UNITD STUDIOS OF SELF DEFENSE 858-576-0094
★VISION CENTER 858-560-5181
★WEISS LISA M OD 858-560-5181 4
4310 . . . . . .
4315 ★KWIK N' KLEEN CAR WASH&DETAIL 858-571-5454
★QUICK'N CLEAN CAR WASH&DTL CT 858-571-5454 3
4320 . . . . . BUILDING
★CENTER STEPHEN A MD 858-273-5757 +6
★CENTER STEPHEN A MD 858-273-5777 +6
★CLAIREMONT PEDIATRIC DENTAL 858-650-0838 4
★DAVIS PAUL C DDS 858-292-6051
★DENTISTRY BY PAUL C DAVIS DDS 858-292-6051
★FITZPATRICK BRYAN MD 858-569-5850 3
★HOLMAN JOHN 3D DDS 858-279-6210
★MCCALLEY RUSSELL W DDS 858-560-1996 3
★NISLA JAMES F DR 858-467-9066
★NISLEH ANTON F DS 858-268-1616
★PAC DENTAL GROUP OF 8D 858-277-8100 +6
★SD DENTAL IMPLANT GROUP 858-565-1855
★SHARP SEMOR HEALTH CENTER 858-569-5850
★SINKS JAMES H DDS 858-541-7676
4320 . . . . . .
4330 ★EL POLLO LOCO 858-278-0355
★LIBERTY PK PLZ EL POLLO LOCO 858-278-0355 0
4340 . . . . . BUILDING
●CIO INSURANCE SERVICES 858-751-0290 +6
●CURVES FOR WOMEN 858-430-1010 4
●EDIBLE ARRANGEMENTS 858-565-1555 +6
●EVANCO REALTY ADVISORS INC 858-560-1288 4
●F H PASCHEN NIELSON WEST COAST 858-627-4445 9
●GAME CRAZY 858-614-0096 4
★GARDNER ENTERPRISES 858-751-2449 3
●HOLLYWOOD VIDEO 858-571-5525 8
★NIELSEN WEST 858-627-4445 9
COAST
★ROYAL NAILS&SPA 858-576-4943 3
★SAY SO 858-974-3603 3
★SOUL CYCLES 858-571-7995 1
★SUN LOUNGE TANNING CENTER 858-277-5979
4340 . . . . . .
4355 ★DISCOUNT TIRE CO OF SD CALIF 858-279-4781
★SOUTHRN CA DISC TIRE CO INC 858-279-4781
4360 ★CIRCLE K FOOD STORES 858-576-8029 9
4365 ★EZ LUBE 858-268-6222
4370 ★COTIXAN MEXICAN & SEAFOOD 858-571-8843 1
4375 ★JACK IN THE BOX RESTAURANTS 858-627-9738

X DERRICK DR

4411 ★JIMBO'S LIQUOR STORE 858-278-6440
4415 ★MR BEST CLEANERS 858-278-1050 2
4417 ★A B C GLASS 858-565-9916 7
4421 ★TRATTORIA FIRENZE 858-560-1901
★TRATTORIA FIRENZE 858-874-5916
4427 ★LIBERTY NAILS 858-541-2004 1
4429 ★POSH HAIR DESIGN 858-541-1711 4
4433 ★GUTIERREZ COIN LAUNDRY 858-560-6882 1
4439 ★HENRY'S MARKETPLACE 858-268-2400 3
4441 ★PEPBOYS AUTOMTV SUPERCENTERS 858-569-9533 2
4445 ★LAYTON FAMILY TREE'S 858-268-8317 2

X MOUNT FORAKER AVE

X MOUNT HERBERT AVE

X CHATEAU DR

4690 ★BEY ROBERT DDS 858-279-2226
★HURST BRIDGET M DDS 858-560-9696
★HURST STEVEN T DDS 858-560-9696
★HURST THOMAS L DDS INC 858-560-9696

X CHICKASAW CT

X SAUK AVE

4801 ●LAWLESS Robert OO 4
4802 ●FERNANDEZ Frank OO 4
SUAREZ Janette C 858-270-1367 4
4811 ●ATAI Manjieh 858-274-4499 2
4821 XXXX OO

X BANNOCK AVE

4850 ●GONZALEZ Octavio OO 1
4852 GONZALEZ Octavio 858-581-2721 3
4860 ●SANCHEZ Victor OO 4

X MANITOU WAY

X CLAIREMONT MESA BLV

X CONRAD AVE

4921 ●ADAMS Hjul 858-274-6334 2
4930 PENA Alicia 858-273-0438
●RAMOS Jose OO 0
4931 ●SHAMBO Edward OO 8
4940 ○CRACKIN Robt H 858-272-4054 8
4941 ●NOLAN Michael OO 8
4950 ●YIN Thinh OO +6
4951 ●VUE Lue OO 2
4960 ●LAM Houng OO 4
4961 ●DEVER Stephen C 858-270-3666 2
4970 XXXX OO
4971 XXXX OO
4980 ●FOX Khavija 858-274-6972 4
4981 XXXX OO
5001 ●PHAM Donald OO 4
5002 ●ORSOS Irene OO 0
5011 ●MASON C 858-273-0297
5012 ●GHAEMMAGHAMI Ahmad OO 0
5021 ●GRAY Doris OO 8
5022 ●BAKHSHI Shirin OO 8
5031 XXXX OO
5032 XXXX OO
5041 XXXX OO
5042 ●MCGIRR Rich 858-581-2153 0
5051 XXXX OO
5052 BUSH Stephanie 858-274-2670 +6

X APPLETON ST

★ 132 BUS 34 RES 11 NEW

GENESEE AVE 92122 SAN DIEGO

WEALTH CODE 4.3

X RADCLIFFE LN

6330 . . . . . APARTMENTS
318 ●ALAN Patricia OO 3
221 ●CANIGLIA Randall OO 4
115 ●CASTILLO Mercedes 858-452-8666 4
212 ●CHIU Chihhalen 858-554-0633 8
● CHURCHILL Helen OO 1
EVITT Cary 858-452-3213 4
● FIORENZA Joseph OO 3
● GARBARINO A 858-458-0619
● GIBBONS Jill OO 3
313B GLEIZER Enya 858-458-9443
101B GREGG G I 858-455-9010
222 ●GUTIERREZ Galileo OO 9
119 ●HANDY Herbert 858-546-9457 4
● HARRELL D L 858-597-0169 9
215 HOLMES Ernest 858-643-9361 4
● JOFFE Daryl OO 4
● KAUFMAN B 858-453-3309 3
301B ●KAZEMANI Helen KRICKER A 858-453-0188 3
● LAND Margaret OO 0
● LOSHKAJIAN Theodore OO 4
● LOWE Robert OO 4
319 ●MALAN Linda OO 4
MANGES L B 858-587-0751
A106 MANNERING Betty 858-622-0822
216 MANTOR Mavis 858-658-0094
213 ●MARTIN Herbert OO 4
MORAN Susie 858-678-0557 +6
● MOSS Philip OO 3
317 PEARSON Carolyn E 858-453-0319 4
RAWLINS G 858-638-1944 4
● RICCIO Frank OO 3
● ROGERS Eleanor OO 4
215 ●SAUNDERS Robert OO +6
203 SHAUTEL Jacob 858-457-0031 3
SHUGART Greta 858-453-4791 4
SNIDER Genevieve 858-625-9275 4
116B THESKEN K 858-597-0356
● TOBIAS Manuel OO 3
WISHER Alfred E 858-587-1238
112 ●WO Bowan OO 4
220 ●YIN Sharon OO 3
211 ZEMANSKY Anita 858-784-0063 8
6330 . . . . . .
6340 ★REGENCY VILLAS HOA 858-587-8789
6350 . . . . . APARTMENTS
★ACCENT INTERIOR DESIGN 858-455-9471 9
ALDRICH Dean 858-597-0682 4
● ANGUS R H 858-455-9023
● BECKHOLMEW Priscilla OO 4
301 BATRANINA Svetlana 858-558-9234
● BOLLA Barbara OO 3
● CARPENTER William OO 3
● CLARK Norma OO 3
218 ●COHEN Ivan J OO 4
COWIE I 858-638-0502
● EAGELSTON Mary OO 3
● FARRELL Leo OO 4
● FEATHERKILE B OO 4
113 ●FENTON Nancy OO 4
FEISTEN Sidney 858-452-1945 4
122A ●FOLEY Reginald OO 4
● FOTINOS Essie T 858-455-5413 1
● GERHART Anne OO 4
302 ●GUTIERREZ Norma OO 4
317 ●HOUDAJI Monica 858-625-0240 4
● HURDLE Robert OO 3
105 ●JENSEN Lawrence 858-623-9930 4
● KAMINSKIY Yevgeniy OO 3
KATZENELLENBOG Lionel 858-450-1599 +6
● KEENAN Frederick OO 4
KEHAYIAS W 858-560-9423 +6
KESSLER M 858-455-1595
● LEVI F 858-453-4804 3
318 ●LICHTER Darek OO 4
★LITZ BILLIE 858-455-9471 9
● LITZ Billie OO 4
● MARTIN Wendy OO 3
● MCCORD James OO 4
● MELILLO Jeanne A 858-587-1109 8
MOEEN-ZIAI Sousan 858-453-2297 1
102 ●MONSOUR Kathleen OO 4
● NELSON Craig OO 4
● PATTERSON Marjorie OO 3
● PENG Stanley OO 4
● POWELL Margie OO 3
● REALE Francisco OO 3
● RIZK Soher OO +6
208 ●ROCZEY Patricia OO 4
● ROOS Kinsey OO 4
● ROSENSTEIN Robert 858-457-5894
● RUGGIERI Michael 858-457-9606 1
SANCHEZ James 858-456-0013 4
● SCHNOOR John OO 3
● SEROCHI T 858-453-6527 2
● SHAEVEL Gail 858-558-1888 4
TOWERS E F 858-558-8245 +6
WALKER Carole 858-202-1330 4
116 ●WU Chhi Chong 858-678-0732 3
6350 . . . . . .

X GOVERNOR DR

X GENESEE CV

X CALGARY DR

6949 ★STRAIGHT LINE GENL CONTRACTORS 858-646-0941 +6
★UNIV CITY HIGH SCHOOL 858-457-3040
8148 . . . . . PADRE GRDNS APTS
77 AHMED Khurshid 858-677-9489 4
147 BOLLON Clara 858-452-9155 4
128 BOUSTANI Mojtaba 858-558-9387 4
BRAGG David B 858-658-0089 +6
CHOI Anita 858-455-9444 4
CHONG Hiu Lun 858-457-0923 4
DESIO Douglas A 858-455-6250 9
GOODFELLOW Tim R 858-566-1467 4
GOULARD Christiano 858-202-0551 +6
HAN Dong Sook 858-457-9001 +6
HOSEFT Jessica 858-824-9151 +6
29 HUNSBERGER David 858-453-0509 4
HWANG Ji 858-623-9416 3
IKAWA Tomokatsu 858-909-0798 +6
JAOJOCO Joyce 858-678-0041 +6
KARA Patrick 858-909-0567 +6
KIM Jay Hyun 858-558-8434 3
KIM Stella K 858-558-0135 3
KIM Sungwhan 858-550-9079 3
KNAPP Justin 858-658-0680 +6
LAM Le My 858-552-0030 4
LEE Grace G 858-558-8469 3
LEWINSKI Mary 858-453-3736 2
LOUIE Wilson 858-404-0624 4
LOUIS-DIT-SULL Christine 858-623-9393 4
109 MALJEVAC Zoran 858-823-0071 4
MANDUK Narek 858-458-3623 1
MASSIRER Kellin B 858-452-8109 4
METZ Andreas 858-587-1193 4
MILANESI Giancarlo 858-453-8150 3
NALLAN Laxman 858-909-0402 +6
2 NGUYEN Thanh H 858-546-3863 1
★PAC GARDENS APRTMNTS LILLA-UTC 858-453-4620 3
PACHECO Deborah 858-558-0564 +6
PEREZ Jose F 858-455-9675 4
PORTER Jonson 858-457-8689 +6
RATHBUM Kevin 858-452-9748 4
REE Min K 858-552-8283 4
RHYMER Jennifer 858-558-8857 +6
SHIN H Y 858-625-0710 4
20 SMELTZER Scott 858-558-1771 4
TURGEMAN Gil 858-623-9229 4
VEGA Michael M 858-546-0906 +6
WAITE Marie 858-638-1435 3
WAN Hung 858-558-9859 +6
101 WENDLING Joseph 858-587-6943 +6
25 ZAMORA Michelle 858-657-0583 +6
8148 . . . . . .

X NOBEL DR

8508 ★LAJOLLA CLEANERS 858-455-5450
8510 ★ALBERTSONS-SAV-ON 858-458-1662
8610 ★ASAHI URBAN DEVOLPMENT 858-546-0315 4
★MORE MINUTES MOBIL 858-909-0860 4
★SLEEP TRAIN 858-450-9840 4
★TWEETER 858-550-8000 3
8650 . . . . . BUILDING
★A NIGHT ON THE TWN-DSGNR DRSSS 858-457-1233 8
★A NIGHT ON THE TOWN-DSGNR DRSS 858-457-1233 8
★A NTE ON THE TWN-DSGNR DRSS 858-457-1233 8
★AESOP'S TABLES GREEK CAFE 858-455-1535
★ALLSTATE INS CO 858-623-3344 2
★ASAHI URBAN DEVOLPMENT 858-546-9024 4
★BASKIN ROBBINS 858-866-3888 3
★BASKIN ROBBINS 858-453-8760 3
★BLOCKBUSTER VDO UNIV TWNE CNTR 858-452-5767
★BOOKSTAR 858-457-7561
★BOOKSTAR LAJOLLA-GOLDEN TRNGL 858-457-7561
★CLASSICAL EYE OPTMTRY CSTA 858-452-7374 1
★COPY CLUB 858-457-9500 8
★COSTA VERDE DENTISTRY 858-622-1007
★COSTA VERDE NAILS 858-453-2888
★HELLER R OD COSTA VERDE CENTER 858-452-7374 1
★INTGRTD MEDICAL CENTER 858-622-9266 8
★IRONSTONE BANK COSTA VERDE 858-558-0888 4
★JENNY CRAIG WEIGHT LOSS CNTR 858-450-1169
★KOHANI KAMBIZ DDS 858-622-1007
★KOO KOO ROO 858-625-9911 8
★LANAI TANNING 858-587-0380 4
★MARIYA'S SKIN CARE 858-678-0323 8
★MEN'S WEARHOUSE 858-457-8498 7
★NIGHT ON THE TOWNDESIGNER 858-457-1233 8
★PEREZ DAVID SALON 858-457-1221 7
★SALON DAVID PEREZ 858-457-1221 7
★SAMMY'S WOODFIRED PIZZA 858-404-9898 9
★SAMURAI SAM'S TERIYAKI GRILL 858-404-0707 9
★SUBWAY SANDWICHES& SALADS 858-558-6811 9
★TAYMAN STEVEN OD 858-452-7374 2
★THE BOXING CLUB 858-320-0080 +6
★WANG PATRICK 858-623-3344 2
8650 . . . . . LAJOLLA
8670 ★RONALD LAJOLLA 858-455-1616 2
8720 ★COMPUTRZD COBLER THE 858-558-9328 4
8750 . . . . . BUILDING
★DIVA FLOWERS 858-455-9903
★DIVA FLOWERS& GIFTS 858-558-6676
★DIVA LA JOLLA FLWRS 858-558-6668
★FLOWER BASKET 858-455-1600
★FLOWER BASKET 858-455-5566
★INFUSIONS OF TEA 858-450-6500 4
★LA SALSA RESTAURANT 858-455-7229
★MORADI FINE JEWELERS 858-597-0270
★MORADI JEWELERS 858-597-0700
★MORADI JEWELERS 858-597-0270
★ROBEKS JUICE 858-458-5132 2
★STARBUCKS COFFEE 858-794-0076 1
★TOTAL 858-558-8382 +6
★VERIZON WIRELESS 858-450-2600 2
★WE CARE HAIR 858-587-2888
8750 . . . . . .

X ESPLANADE CT

★ 62 BUS 140 RES 25 NEW

GENESEE AVE 92121 SAN DIEGO

WEALTH CODE 4

X EXECUTIVE DR

9333 . . . . . BUILDING
★ARDEN MANGMNT CO 858-455-7744 4
★ARDEN REALTY 858-521-4200 4
★ARDEN REALTY INC 858-597-1742 4
★BARILE VERA MD 858-882-8350 4
★CHAN RAYMOND MD 858-450-0230 3
★CHAN RAYMOND Y MD 858-875-0290 3
★DIMARZO STEPHEN MD 858-882-8350 4
★FEDEX KINKO'S SHIP CENTER 858-452-5924 +6
★GILLETTE GLBL NTWRK ARDEN RLTY 858-795-0017 4
★GREEN LIGHT CAFE 858-453-9673
★HOLLIS-EDEN PHARMACEUTICAL 858-587-9333 4
★LAJOLLA CT FOR SKIN SURGRY 858-623-0507 4
★LAJOLLA OB GYN 858-882-8350 4
★LINSPIRE INC 858-587-6760 3
★MITCHELL DALE MD 858-882-8350 4
★MP3 TUNES 858-587-3975 +6
★MPI CLINIC LAJOLLA 858-452-2909 4
★PHYSIOTHERAPY ASSOCIATES 858-453-3000 +6
★RUSSO STEPHEN MD 858-882-8350 4
★SCRIPPS CLINIC LAJOLLA OB GYN 858-882-8350 4
★SYSTRAN SOFTWARE INC 858-457-1900 3
★SYSTRAN TRANSLATION SYSTEM INC 858-457-1900 3
★WILLIS OF SD 858-455-4888 4
9333 . . . . . .
9339 . . . . . BUILDING
★ALEXANDER COSMETIC SURGERY 858-455-7557
★ALEXANDER COSMETICS 858-625-0191
★AMER ISRAEL PUB AFFAIRS COMTE 858-625-2900 +6
★BUCHI WENDY M MD 858-455-7520
★BUCHI WNDY M / NFRTLTY GYN&O MD 858-455-7520
★EDELSON RONALD MD 858-452-9900 8
★EDELSON RONALD MD 858-455-7557 8
★FERTILITY INST 858-455-7520
★GAFORI VALARIE V / IGO MED G MD 858-455-7520 +6
★GAFORI VLRE V /GO MED GRP OF S 858-455-7520 +6
★GREENBERG LAURIE R MD 858-455-7520 2
★GURUSHANTHAIAH KEERTI MD 858-455-7520 3
★GURUSHANTHAIAH KEERTI MD 858-455-1248 3
★HEBERT STEPHEN A IGO MED G MD 858-455-7520
★HILBS & ROGAL INSURANCE 858-535-1800 +6
★IGO GROUP AMC SD 858-455-7520 4
★IGO MEDICAL GROUP 858-455-7520 4
★INFERTILITY GYN& OB 858-455-7520
★INST FOR AESTHETIC MDCN THE 858-678-0220 4
★KELLY FINANCIAL RESOURCES 858-597-8855 4
★KELLY IT & ENGR RESOURCES 858-404-9815 4
★KELLY SCIENTIFIC RESOURCES 858-404-9830 4
★LCA 858-450-0899 7
★LISCHKE JON H MD 858-455-7520 9
★NEIL W HRSCHNBN OPTML HLTH&WL 858-546-8055 4
★PERSONAL PHYSICIANS 858-713-9401 2
★PLASTIC SURGERY CENTER 858-455-7557 9
★PLAZA RESEARCH INC 858-200-3000 9
★PROFSNL DENTAL GRP OF LAJOLLA 858-552-1244
★QUIGLEY M TED MD/INFRTLTY 858-455-7520
★QUIGLEY TED MD 858-455-7520
★REAGAN BRIAN DR 858-362-9076 4
★RESEARCH PLAZA 858-457-7935 +6
★RICKE P SCOTT MD 858-678-0220 4
★ROSENBERG DIANNE MD 858-455-7520
★VATIV TECHNOLOGIES INC 858-558-0050 4
● VILLANUEVA BENITO MD 858-455-7520
● VILLANUEVA BENITO MD BLNG& INS 858-455-8427
★VITAL IMAGING 858-713-9400 2
★WESTERLUND SSN S INFRTLTY G MD 858-455-7520 4
★WETERLUND SUSAN S MD INFERTLTY 760-370-9229 3
★YOUNG PHILIP E MD 858-455-8427
★YOUNG PHILIP E MD 858-455-7520
9339 . . . . . .
9404 ★CAMPBELL-ANDERSON & ASSOCS INC 858-455-8086 4
★HOBLIT COLLEEN 858-552-9393 4
★KING & BALLOW 858-597-6000 +6
★KRAMER SHELDON J PHD 619-291-4465 4
★PREDICTION SCIENCES 858-404-9434 +6
★PREDICTION SCIENCES 858-404-9404 +6
★REALTY SPECIALIST LAJOLLA 858-453-4207 4

X EASTGATE MAL

9501 . . . . . APARTMENTS
610 BRINKMAN Arjen 858-550-0588 4
610 BRINKMAN Els 858-550-0588 4
BUNTHALERT 858-657-9414 +6
Sumarni
GLEICHER Jason 858-625-0276 4
615 HURST David 858-452-5742
609 JUSTICE Robert 858-558-6494
★TRABUCCHI EMANUEL DR 858-587-2151 +6
TRABUCCHI Michele 858-587-2151 +6
WILSON Natalie 858-678-0544 +6
9501 . . . . . .
9505 . . . . . APARTMENTS
529 HE Jun 858-202-1386 +6
KAPFER Christoph 858-597-1778 4
WANG Xiyou 858-450-2189 +6
WANG Zhenyuan 858-457-8166 +6
WITCHER Michael 858-535-0807 4
9505 . . . . . LAJOLLA CNYN APTS
9515 . . . . . APARTMENTS
114 CHIANG Bryan 858-587-9663 4
EDELMAN Gil 858-657-9393 +6
★LAJOLLA CANYON APARTMENTS 858-452-3620
122 LEE John 858-909-0341 +6
RAVADI Anand 858-202-0504 +6
Swati 858-909-0980 +6
108 SWEENEY John 858-909-0541 +6
112 URBANIAK Sylwia 858-452-7766 4
9515 . . . . . .
9525 . . . . . APARTMENTS
BRANDT Jonathan 858-625-9059 4
JIANG Qi Zhong 858-622-9002 3
JIAO Hong 858-450-7180 3
220 LIN David 858-597-0518 +6
NIELSON Edward T 858-597-0890 +6
PELTON Joshua 858-677-0703 +6
PETERSON Luke 858-535-9133 4
TSENG Chiayun 858-550-9613 +6
228 WELLES Thomas 858-587-1552
YANG Lifang 858-558-8425 +6
ZHANG Jingming 858-643-1689 4
9525 . . . . . .
9535 HENSLEY Jeffery A 858-558-9313 3
KRISCHKE Miriam 858-453-5693 4
LO Jasmine 858-453-2858 +6
NISHIKAWA Tadateru 858-458-3561 +6
9539 . . . . . APARTMENTS
410 CHEN Lingjun 858-452-8176 4
HUYNH Vi 858-558-8827 +6
422 LEKIC Dusan 858-824-0468 4
MANHJU Rohit 858-677-9288 +6
NATARAJAN Ganapathy 858-550-2087 +6
OKA Ellen 858-678-8975 +6
SULTAN S 858-668-0295 +6
TIAN Li Yan 858-677-6752 +6
WHINSTON Adam 858-453-5407 4
ZHANG Haile 858-909-0503 +6
9539 . . . . . .
9545 . . . . . APARTMENTS
BEDOYA Michael 858-677-0424 3
BUFFINGTON Katherine 858-558-8726 +8
CHOLLING John 858-623-2767 4
FEISTRITZER Clemens 858-597-0683 4
KHAN Mohammed M 858-550-9684 +6
MANUKYAN Yelizaveta 858-552-0664 +6
9545 . . . . . .
9555 ★CANYON PARK APARTMENTS 858-452-9920
★LANDMARK CONSULTING 858-587-8070 2
9565 JIN Baorgyi 858-597-0418 4
SUITER M 858-625-0698 4
SUITER W 858-625-0698 4
TAREEN Saadullah 858-623-9378 3
★YE XIANG RONG 858-842-1904 4
9575 MEHTA Utkarsh 858-625-0281 4
PETERSON Philip 858-452-2671 4
9585 . . . . . APARTMENTS
A2 MANN Robt J 858-453-2941
MARSOLAIS David 858-558-0961 +6
O'NEAL Kellie 858-587-6619 +6
OPATRY Courteney 858-731-1079 +6
D1 PARK V 858-592-0758 4
TSE Ka Kei 858-455-0766 4
ZHANG Teng 858-552-8084 4
9585 . . . . . .
9595 CHAN Vickie 858-546-0252 4
LIU Erman 556-202-0291 +6
TAN Michael 858-455-1508 4
ZHANG Kai 858-453-7827 4
ZHANG Xing Rong 858-453-7827 4
9605 . . . . . APARTMENTS
ALLEN Adefemi 858-558-8783 +6
I1 HOGGAN Michael 858-546-7642 9
HUGHES Aaron 858-459-5915 +6
KIM Sun 858-452-7627 4
D2 LEE Jusuan 858-552-0953 4
SEDAGHAT Yalda 858-678-0944 +6
TANG Justin 858-458-1466 +6
9605 . . . . . .
9615 KWON Hyeok Jung 858-458-3692 +6
LIU Ying 858-453-4850 4
PATEL Akshay 858-731-1156 +6
9625 . . . . . APARTMENTS
C2 EVERHART Trey 858-535-9453
D2 RAMAKRISHNAN Kannan SOM Vanna 858-452-8124 4
USYK T 858-597-0314 4
WONG Maggie 858-623-0254 4
9625 . . . . . .
9635 RAMIREZ Azucena 858-638-1705 +6
ROCHA Rodrigo T 858-455-9421 4
9645 ALECSE Gabriella 858-458-1140 4
ASMAR Guillermo 858-452-0968 4
HARDY Kimberly 858-320-0422 +6
JOHNSON Alex 858-453-9199 4
STREICH Julie 858-453-9199 4

X REGENTS RD

9665 . . . . . APARTMENTS
ALIAHMAD Parinaz 858-558-4668 +6
BAKER Michael 858-453-6392 3
J2 BOWEN Will M 858-452-7091
CURRY Andrew 858-554-0579 4
E1 LOUCKS James 858-558-1792
I1 PIPER Jared 858-642-0359 4
9665 . . . . . .
9675 . . . . . APARTMENTS
HAN Changho 858-587-6073 +6
KLINENBERG Jerome 858-453-4226 9
MALEK Rajid 858-457-7519 +6
OLSEN David 858-909-0747 +6
A2 SULLIVAN Pat 858-658-9903 +6
TUNER Paul 858-457-7950 +6
9675 . . . . . .
9685 AJAMI Dariush 858-546-0516 4
DANH Kenneth 858-642-0399 +6
DUDEK Laura 858-550-9951 +6
TOULON Antoine 858-679-8583 +6
9695 RITTGER Kleo 858-452-0489 4
9705 ALVARADO Gregory 858-657-9497 +6
BATALOV Serge 858-638-7511 1
★CANYON PARK SATELLITE 858-946-9446
DAHLEN Francis A 858-453-7029 9
9773 CHANG James J 858-546-1187 4
9775 ●COOPER Eddie OO 8
9777 XXXX OO
9781 BARMATZ Barbara 858-453-7118
9783 XXXX OO
9785 ●MISTRY Ravindra OO 4
9787 DALY Zachary 858-320-0414 +6
●NOGATA Sumihiro OO 0
9791 ●CHANG Eugene OO +6
9793 ●PLANT J 858-597-1769
THOMAS Peter 858-597-1769
9795 ●HASHEM-NAHID Behzad OO +6
9801 ●HOFFENBERG William OO +6
9803 ●LOMBARDI Eugene OO 0
MILLER Mona 858-457-2242 4
9805 ADAMS Kevin 858-452-5708
9807 ●LORENTZ Barbara OO 0
9813 ●WITT Norman OO 2
9815 ●ANGEL Jordan OO 4
9817 ●BEER Pat OO 3
9819 ●GALLENSON Jerry 858-450-2999 4
9821 ●ZHU Changyi OO 4
9823 ●UTEVSKAYA Olga OO 4
9825 XXXX OO
9827 ●BURNS Barbara OO 8
9829 ●PAPIK Clifford W 858-587-3590 4
9831 ●NAGY Geza OO 0
9833 ●BRICCA David OO 4
9834 . . . . . BUILDING
★ADAMS HENRY E PHD 858-455-9790 4
★ADVANCE WOMEN MDCL CNTR INC 858-457-9000 4
★ALVARADO ASSOCIATES 858-554-1770 +6
★BASUK WILLIAM L MD 858-404-0220 3
★BULOW KWI MD 858-587-4773 4
★BULOW SETH MD 858-622-9076 4
★COHEN RANDY MD 858-677-6779 4
★COLIN BERNSTEIN 858-457-8471 4
★KIM JEANNIE MD 858-535-9834 4
★LAJOLLA NEURO SRGCL ASC ANC 858-677-1755 +6
★LING EDGAR DR MD 858-558-8626 4
★MILLER SCOTT R MD CSMTC SRGRY 858-453-3133 4
★MURPHY FORREST P MD FACS 858-457-2220 4
★SAIBEN NANCY L MD 858-622-0590 4
★SCHWARTZ JANET R MD 858-457-5555 4
★SD PAIN MEDICINE 858-453-7126 4
★SEROCKI JOHN H MD 858-824-1703 4
★WESCOE SIBYL G MD 858-622-9263 +6
9834 . . . . . .
9835 ●HUANG Alain OO 4
9837 BARNARD Matthew 858-320-0084 4
●NAGY Geza OO +6
9839 ●ROBERTS Barbara OO 0
9841 ●WITH Jere OO 0
9843 XXXX OO
9847 FARHAD Zabardjadi 858-638-1527 +6
●TAYMAN Marc OO 0
9849 ●ATHALE Ravindra OO 4
9850 . . . . . BUILDING
★BRUCKER MICHAEL J MD 858-450-1776 4
★DERMATOLOGIST MED GRP OF NRTH 858-558-0677 4
★DETWEILER SUSAN MD 858-558-0677 4
★DIABETES& ENDCRNE ASC MED GRP 858-622-7200 4
★FATTOHI FILIP MD 858-457-5400 4
FACC
★FINK RAYMOND I MD 858-622-7204 4
★GALLOWAY GIL MD 858-457-9422 +6
★MCREYNOLDS & SEDWITZ SRGCL GRP 858-546-8557 4

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-	✔	Haines Company, Inc.

MOUNT CASTLE AVE 2006

4827 FONTANARES Prima 858-278- 5107
S

X MOUNT ASHMUN CT

4832 ● HAWKINS James OO 3
OLVERA Benjamin 858-309- 8331 +6
4847 POTENTE Estelito N 858-277- 4330
4852 ● FEARON Bruce OO 8
4862 ● AMANTE Romeo OO 0
4872 STEIN Dorothy 858-268- 0901
4877 ● WYATT Mary 858-279- 0758 8
4882 ● FLEMING Robert OO ⊕ 4
4887 ● PERRIN Dwayne OO 2
4895 ● BINDER Kenneth OO ⊕ 2

X MOUNT AUGUSTUS AVE

4901 XXXX OO
4910 ● ELLIS Christopher OO 0
TRAGER Nikole 858-495- 1797 4
4911 HANCOCK P 858-279- 7438
4920 ● ROGERS Darrell OO 0
4923 ● REITER Chris 858-576- 7303 2
4930 ● HAULLEY Edward OO 2
4940 WILMOT Allan E 858-565- 6778 4
4947 ● KISTELEKY Cecilia OO 0
SYNISKI Winifred 858-571- 6204 4
4950 ● MAIN Douglas 858-573- 0470 0
4960 XXXX OO
4970 XXXX OO
4971 ● HANCOCK Lori 858-650- 3550 4
4982 TREMELLING Wayne 858-277- 2645
4983 BADENHOPE P A 858-278- 5373⊕
4994 ● BABICH Robert OO 4
4995 XXXX OO

X MOUNT BLACKBURN AVE

5004 ENGEBRETSON Alan C 858-279- 6913
5005 ● WINGFIELD Ray 858-571- 2802
5024 ● MCLAUGHLIN Harriet OO 1
5044 ● VINCE David OO 0

X MOUNT EVEREST BLVD

★ 0 BUS 55 RES 2 NEW

MOUNT ASHMUN PL
92111 SAN DIEGO

WEALTH CODE 7

X MOUNT ASHMUN DR

3713 ● SAADAT-NEJAD Mohammad OO 0
3714 XXXX OO
3721 ● BIRKHAUSER Gerard OO 0
3724 ● BABBEL R N 858-565- 8776
3729 ● PHILLIPS R 858-278- 3805
3734 ● WALLIS Dennis OO 2
3737 ● MENATH Jacob OO 3
3744 ● MACARAEG Evilia OO 9
3745 XXXX OO
3753 ● CEREZO Gary OO 1
COOK Jeff D 858-278- 1914 4
3754 ● BOURQUE Robert OO 0
MCGILL Patrick D 858-565- 9304 8
3761 XXXX OO
3764 ● JARVIS Dave 858-452- 7847⊕ 4

★ 0 BUS 15 RES 0 NEW

MOUNT AUGUSTUS AVE
92111 SAN DIEGO

WEALTH CODE 6.8

X MOUNT ASHMUN DR

3704 ● COUGHLIN Joseph OO 4
3714 ● WILLIAMS Stanley 858-279- 2235
● WILLIAMS Stanley L 858-279- 3548
3715 ● BOGARDT Richard 858-571- 7392
3724 KUGLEN Sally 858-292- 5962
3725 ● ARMITAGE Donald OO 8
3734 GANSS Daniel 858-279- 4551 4

X MOUNT ANTERO DR

3744 LOWRIE Robt M 858-279- 6041
3745 ● JURUS Betty 858-277- 7302
3754 ● MCCALL Brian OO 4
3761 ● MYERS John 858-279- 9606 8
3764 WILLIAMS R U 858-277- 8415

X MOUNT ALMAGOSA DR

★ 0 BUS 12 RES 0 NEW

MOUNT BARNARD AVE
92111 SAN DIEGO

WEALTH CODE 7

4001 ● SODERLUND Dolores 858-277- 1596
4002 ● NAUMAN Donald L 858-277- 4648
4007 BEDFORD Don 858-467- 9360⊕ 3
4008 LEVIN Jean 858-277- 4599
4012 ● SAINDON Tance OO 4
4013 ● PARKER Steve OO 9
4018 ● HRISTOVA Liljana G 858-974- 3907⊕ 3
4024 ● SELBY Fred W 858-279- 9696
4025 XXXX OO
4030 ● PETKA Michael OO 2
4042 ● WEHRSENER Walt OO 1
4048 XXXX OO
4053 ● BRISTER David 858-277- 1878 0
4054 XXXX OO
4060 XXXX OO
4061 ● HAYNES Richard OO 0
4067 ● BARAHURA Brandan OO 0
4073 ● STEVEN George O 858-277- 1584
4079 ● THOMPSON Kenneth J 858-715- 8569 +6
4085 ● BREY Robin OO 0
SCHULTZ Donald G 858-278- 2641 +6
4091 MCEVOY Wm 858-277- 0759

X MOUNT ALIFAN DR

★ 0 BUS 22 RES 2 NEW

MOUNT BIGELOW CT
92111 SAN DIEGO

WEALTH CODE 7

X MOUNT BIGELOW DR

4101 ● WILSON Scott OO 0
4111 POEHLMAN Jerome 858-292- 0890⊕
4112 XXXX OO
4122 ● SORIANO Fernando OO 0

★ 0 BUS 4 RES 0 NEW

MOUNT BIGELOW DR
92111 SAN DIEGO

WEALTH CODE 7

X MOUNT TERMINUS DR

4402 ● GORSICH David OO 4
4416 ● GOLDBERG Gary 858-268- 2934
4430 ● DENK Joseph 858-278- 9623
OLSON P E 858-278- 9623
4431 ● LETHERT Marcy 858-560- 6172 8
4444 XXXX OO
4445 DEERE Elizabeth 858-576- 9953 4
4460 ● WHELAN Margaret 858-277- 3475 4
4461 ● EVERETT Donald OO 4
4475 ○ VENTURA P K 858-278- 0211
4484 XXXX OO
4485 ● MCKOWN Ron D 858-565- 6369
4511 ● VATCH S 858-576- 0841
YOHAI E 858-576- 0841
4518 ● SCOCCEMARO-MOR Olga OO 8
4519 ○ TALBOT S 858-571- 8844 1
4527 ● MOULTON Inge OO 0
4535 ● MURPHY Terrence W 858-560- 8078
4544 ○ CUMMING Rick 858-533- 1227 9
4545 ● ENRIGHT Patrick 858-279- 3600 4

X MOUNT BIGELOW CT

4555 ● VOYTILLA Stuart 858-874- 8735 1
4565 ● MARCELLINO Lois OO 2
4566 ● MORTON Bobby OO 4
4575 ● SAMMULI Lilia 858-277- 0438
4576 BINGHAM L A 858-278- 0615
4585 XXXX OO
4586 ● VELASQUEZ Theodore 858-278- 6629 0
4595 BARTLEY Donald E 858-268- 9827
4596 SCHMIDT Max C 858-268- 8867

X MOUNT BIGELOW WAY

4601 SAYLOR Darwin D 858-278- 8689
4615 MARTENS Arthur W 858-277- 2302
MARTENS Stephen 858-576- 1058
4633 ● MINNITI E OO 4
4634 ● BARNES Laurence OO 8
4652 ● VOLTIN Richard OO 0
4668 XXXX OO
4669 ● WONG Samuel OO 8
4678 ● EGAN Gladys OO 0
4681 HUMPHREY Robert 858-874- 5805 2
● WINNE William OO 0
4686 ● TURNER Alan OO 0
4695 ● MCKENNA Jeffrey OO ⊕ 4
4696 ● ABDEL-WAHHAB Farid OO 4
★MISSN MUSIC SUPPLY 858-694- 0156 2

X MOUNT BAGOT AVE

4702 ● HOLMBERG Scott OO 9
4711 ● AGUILAR James S 858-277- 6565
4712 ● LAMP Michael OO 0
4722 ● GODENSCHWAGER Dolly 858-694- 0259
4732 FOX Kenneth P 858-292- 5355
4735 ● DODSON Katrina OO 1
4742 STEVENS H C 858-279- 7168
4747 DAUPHINAIS Ebba E 858-277- 7450
4752 ● PIKE Wt 858-278- 0746
4759 ● PENROD Todd OO +6
4762 ● HARRIS Eugene O 858-277- 1902
4771 XXXX OO
4772 ● SUTHERLAND Steven B 858-277- 4085 1
4781 DAVIDSON Terry 858-278- 6251
4782 ANDREW M 858-571- 4841
ANDREW W 858-571- 4841
4801 ● DELOSRIOS Edw A 858-292- 6063
4802 ● BATZLER Diana OO 9
POWELL Paula 858-503- 5935 4
4812 ● DONISH Michael J Jr 858-495- 0372 9
4821 ● CROUCH-DUNLAP Marianne 858-277- 0058 3
4822 SUEYOSHI Yoshinobu 858-277- 1058
4831 ● PIZZO John OO 0
4832 ● MARTINEZ Charles OO 0
4841 ● WISHERD Valeria OO 4
4842 ● NEVAREZ Sergio 858-715- 6738 4
4851 ● GONZALEZ Mike R 858-565- 6013 4
4861 ● COSTIC J 858-277- 2093
4862 ● LEBUS Barbara OO 0
MUNOZ Valeria 858-505- 8872 4
4871 TUSHINSKI Anthony H 858-278- 7940
4872 MEYER Harry 858-541- 7122⊕
4881 ● MOORE William OO 4
4882 XXXX OO
4891 ○ VANESS Quentin W 858-279- 3560
VANESS Quentin W 858-278- 5273

X MOUNT CULEBRA AVE

4901 ● WOODVINE Leonor OO 8
4902 ● WHITE C C 858-292- 8189 7
● WHITE R E 858-292- 8189 7
4911 ● WOOLF John OO 0
4912 ● CORNWELL Joanne OO 0
4921 ● BUOP Ronald OO 8
4922 ● SWAIM Thomas OO 6
4931 ● RAISKIN Emmanuil 858-569- 0571
● RAISKIN Emmanuil 858-569- 0708
4932 XXXX OO
4941 ● DEANGELO Daniel OO 4
4942 ● KOZAKOWSKI Ana OO 0
4950 ● LOVE Michael 858-268- 1942 8
4951 ● SNYDER Kimberly OO 4
4958 ● DITTY David OO +6
4966 XXXX OO
4971 ● SMITH Kent 858-492- 9398 1
4974 ● CLARK Ned OO 0
4982 ● HICKMAN H Dean 858-569- 4126
4990 XXXX OO
4996 SCHAER Fred 858-277- 8369

X MOUNT BROSS AVE

★ 1 BUS 100 RES 2 NEW

MOUNT BIGELOW WAY
92111 SAN DIEGO

WEALTH CODE 7

X MOUNT BIGELOW DR

4101 ● GLADISH David 858-569- 1671⊕ 4
4122 ● LENNSN Susan SOLOMON Don 858-715- 1957 +6
4132 ● HUBBARD Clinton OO 7
4141 ● MORDENTE Joseph OO 0
4142 ● HUNT Jennifer OO 3
4162 ● EADE Marlo OO 3
4171 ● LINDLEY Edward OO 4
4172 LEWER John 858-277- 0472
4181 ● PISANI Sally OO 4
4182 ● HAYASHI Emi 858-571- 1650 0

★ 0 BUS 11 RES 1 NEW

MOUNT BLACKBURN AVE
92111 SAN DIEGO

WEALTH CODE 6.2

X MOUNT EVEREST BLVD

3635 ● JAROS Michael OO 0
3640 ● FREMO Kimberly OO 3
3675 GARDNER Susan 858-565- 0778 4
● LANGTON Thomas 858-565- 0535 7
3680 ● KURTH Wilf OO ⊕ 0

X MOUNT ASHMUN DR

3711 ● MANGO Robert OO 0
3719 XXXX OO
3727 ● COOPER Dennis OO 0

X MOUNT ANTERO DR

3732 ● FORSYTH Mark 858-565- 2927
3735 ● ERICSON Christopher SANDERS Jas E 858-278- 4878 4
3745 SANDERS Donald OO ⊕ 0
3754 ● GRADYAN Eric OO 0
3765 ● TOOTHACRE Harold 858-279- 3234 0

X MOUNT ALMAGOSA DR

3795 ● ADAMS Cornelius OO 1

X MOUNT ARARAT DR

3814 ● DAVIS Carl OO ⊕ 9
3817 KAZKOUZ Marjorie 858-278- 7221 4
3826 ● SMITH Blake OO 9
3829 HAMM Willie M 858-565- 2829
● POE James OO 0
3838 ● DUNCAN Harold OO 4
3843 XXXX OO
3850 COVINGTON Michael 858-268- 3122 4
COVINGTON Michael 858-268- 3988 4
3855 XXXX OO
3862 ● MACKUSICK Barbara OO 0
3874 GREWE Donald E 858-565- 6601
3884 ● METZGER Michael OO 2
3893 MCNAMARA Raymond C 858-277- 1949
3894 XXXX OO
3902 CASSIDY Arthur J 858-565- 2424
3903 MILLER Sue 858-277- 3260 4
3910 PEERY Edw L 858-278- 5037
3911 ● WESTROPE Donald OO 0
3918 ● BORJA William OO 1
3919 BRITTO Pablo 858-277- 6368 +6
3926 ● EDDY Paul OO 0
3927 BOLGER Emmett T 858-560- 8701⊕
3935 PARKER Anne 858-278- 6521 4
PARKER Anne 858-278- 0122 4
3936 ● LIERMAN Donald OO 8
3943 ● RAMIREZ Carmen OO 0
3950 ● JENSEN Reginald 858-292- 7976 2
3953 ● TAPPEN Alan R 858-279- 2168
3962 XXXX OO
3963 CIPOLLA Debra M 858-565- 6565
RODRIGUEZ Ralph 858-565- 1700
3973 ● VENEREO Silvio OO ⊕ 8
3983 ● TRULL Wendell OO ⊕ 4
3993 ● GOBER Xinia 858-277- 1956 9

X MOUNT BLANCA DR

4001 ● MARTIN Marjorie OO 0
● STRAND DENNIS 858-277- 3800 2
4002 ● MACKENZIE 858-277- 9146
4009 ● MARTIN E OO 0
4010 ● QUIRAZZA Anne OO 9
4017 KONCZ Rhea 858-277- 8123
● LEPTICH Steven 858-277- 8123⊕
4018 XXXX OO
4025 ● SOLARS Jas 858-277- 5245
4033 ● WHITMORE Hugh 858-277- 0888
4034 ● EDWARDS M J Col 858-279- 8137
4041 ● JENKINS Mike 858-277- 0058
4042 ● DECARVALHO Jill OO +6
4049 ● WADDEN Christopher OO +6
4050 ● SKINNER Craig OO 2

★ 1 BUS 65 RES 3 NEW

MOUNT BLANCA DR
92111 SAN DIEGO

WEALTH CODE 6

X MOUNT BRUNDAGE AVE

5001 GAMITT Walter J Jr 858-277- 6014
5011 ● FRIAR In OO 0

X MOUNT BLACKBURN AVE

X MOUNT EVEREST BLVD

5140 MOORE Ronald C 858-576- 8106 4
5156 ○ ROOT Douglas 858-505- 0383⊕ 2
5165 ROOT Douglas 858-300- 7121 +6

X CANNING AVE

5204 CORAM Judy M 858-279- 5370 2
● GEISSLER Frank OO 4
5220 ● LE Loi OO 0
LUU Nhat 858-715- 1986 3
5235 ● HERNANDEZ Silvestre OO 8
5236 ● ALARCON Zenaida OO 8
5251 SNYDER Richard J 858-277- 1044 4
5252 DOUGHERTY E 858-505- 9135 +6
WOOD Joseph OO 4
5268 ● BARON Alan OO ⊕ 4

X MOUNT ACADIA BLVD

5306 CONSTENT Hazelton 858-268- 4388 4
● LEWIS Christopher OO 9
5320 ● TKACS Gary OO 8
5334 ● BECKER Darrell 858-278- 4349
5345 ● RHEW Randall OO 0
5348 ● TAYLOR Donald OO 0

X MOUNT ACADIA BLVD

★ 0 BUS 21 RES 2 NEW

MOUNT BOLANAS CT
92111 SAN DIEGO

WEALTH CODE 7

4052 ● HUSTON Stephen OO 2
4063 ● CEBULSKI Thomas OO 1

X MOUNT ALIFAN DR

★ 0 BUS 2 RES 0 NEW

MOUNT BROSS AVE
92111 SAN DIEGO

WEALTH CODE 7

4052 MUIR Russell P 858-278- 0418
4063 ● FLEISHMAN Charles 858-268- 4425 3
4064 FROST Bernard E 858-278- 0443
4075 ● GIBBONS Timothy OO 4
4076 ○ ZACHARZEWSKI Luciano 858-569- 8960 2
4087 MCGREW Ken E 858-268- 0916
4088 XXXX OO

X MOUNT ALIFAN DR

4111 ● MAGDALENE Melinda OO ⊕ 1
4123 ● ROTGANS Len 858-279- 2398
4126 ● MEYER Aytk OO 3
RILEY Erin K 858-278- 4032 4
4135 XXXX OO
4140 ● GRANT Kelly OO 8
4147 ● DANIELS Michael OO 1
4154 XXXX OO
4159 ● VANLOTON Neva OO 9
4171 ● WINNE William OO 2
4183 ● WINNE William OO 9

X MOUNT BIGELOW DR

★ 0 BUS 18 RES 0 NEW

MOUNT BRUNDAGE AVE
92111 SAN DIEGO

WEALTH CODE 6.4

X MOUNT ARARAT DR

3815 KALLMEYER Frank 3D 858-569- 7014
KALLMEYER Frank 3D 858-576- 7007
WAAN James G 858-571- 6569 +6
3825 ● ROYCE Jennifer 858-565- 6479
3835 ● MCLEAN John OO 0
3845 ● TROLLOPE Keith OO 0
3855 ● FISHER Richard B 858-277- 6860
3865 LAWSON Thos O Jr 858-278- 6380
3875 ● BEAN Dwight OO 0
3885 ● REYES John OO 9
3901 ● BLUM Wayne OO 2
3911 MASZUN Stellana 858-300- 5883 +6
3921 ● WRIGHT Ella OO 0
3931 ● JANICKE Eugene OO 2
3941 ● DECESARI Robert J 858-565- 0172
3951 ● TICHENOR Jerriann 858-279- 7885 8
3961 REINBOLT F Nancy 858-636- 7888 +6
3971 GUTZLER D C 858-277- 7082
3981 ● CADE Charles OO 4

X MOUNT BLANCA DR

4004 ● NIELSEN Stephen 858-268- 0168
4012 ● HEPNER Robert OO 2
4020 BENTLER Joan 858-278- 2471
4021 ● JUNE David OO 4
4029 ● SHORT Dean 858-278- 7872
4037 ● ROBINSON R 858-278- 7019
4040 ★TERAN COLLEEN REV 858-278- 3715 7
● TERAN Philip Rev 858-278- 3715 7
4045 KROLL William 858-571- 4818
4052 ● LEE Theodore W 858-279- 7496⊕
4053 ● SCHNEIDER Joseph OO 8
4060 ● CLEMENTS Cheryl OO 4
INGRAM Johnny R 858-278- 7632
4061 LAUPPA Anthony S 858-576- 5552⊕
4070 ● EKBERG Anne OO 0

★ 1 BUS 33 RES 3 NEW

MOUNT BURNHAM CT
92111 SAN DIEGO

WEALTH CODE 6

3502 ● BEHAN Sean OO 4
3505 STITTSWORTH Joseph L 858-279- 5987
3512 ● EDELBLUTE David 858-278- 0255
3522 ● WALTER Debra OO 4
3532 WRAY Dudley C 858-277- 6902
3535 ● CURRY Christian OO 4
3542 ● BATES Elmer OO 8
3545 ● GUY Craig OO 0
3552 ● BRITT John OO 8
3562 ● CAGE Diana 858-268- 9336 4
3565 ● TERVORT Terry 858-277- 8286

★ 0 BUS 11 RES 0 NEW

MOUNT BURNHAM DR
92111 SAN DIEGO

WEALTH CODE 6.8

5219 HARDAWAY Ernest H 858-278- 7867
HARDAWAY Toni 858-715- 0696
5220 ● CRUMLY Wm 858-277- 4628
5227 ● ROBINSON Melinda OO 0
5230 ● BROWN Buell OO 0
TOVAR Heather D 858-974- 3690 2
5235 ● ROSE Robert OO 0
5240 ● COCKBURN Christopher OO 8

X MOUNT ARIANE DR

5243 ● BAXTER Debra 858-279- 6292 0
5250 ● STEPHENS Jerry OO 0
5251 JAFFEE Rich 858-569- 0110
5259 XXXX OO
5260 XXXX OO
5267 ● WILLIAMSON Erik OO ⊕ 6
5275 XXXX OO
5283 ● HAUSMAN Michael OO 9
5291 XXXX OO

X MOUNT BURNHAM PL

5315 ● CHOUNG Choon Kun 858-560- 8661
5322 RYNNE Edw F 858-277- 8918
5323 ● CHOU Shih OO 0
5331 ● YAO Raymundo OO ⊕ 0
5332 RICH Glenn K 858-467- 0970
5339 ● NAVARRO Pedro OO 0
5342 ● PARKER Michael R 858-495- 0118
5347 ● HILGERS Fred 858-292- 1113
5350 DEMICHELE Evelyn OO 858-278- 8882⊕ 4
● PETERSON Greta OO ⊕ 4
5352 ● WATTS William H Jr 858-565- 9450
5353 ● LEGARRA Carol OO ⊕ 8
5365 ● RETORIANO Silenvenido 858-278- 2065 8
5377 ● HWA Nam NAM Yonghwa 858-278- 5070 +6
5397 ● REXIN Diane OO 0
5404 ● LEITCH Daren 858-277- 6258 3
5417 ● WENGER Justin OO ⊕ 8
5418 ● MCMORRAN Don 858-268- 8163
5432 MILCH N P 858-277- 9910
5446 ● HARRIS John OO 2

5451 DAVIS H B OLSEN Meryl 858-278- 2226 858-278- 2226

X MOUNT ACADIA BLVD

★ 0 BUS 40 RES 2 NEW

MOUNT BURNHAM PL
92111 SAN DIEGO

WEALTH CODE 6

X MOUNT BURNHAM DR

3460 ● DEITERMANN Morris OO 0
3470 XXXX OO
3471 ● HENRY Daniel OO 8
3480 ● DUCHEK Bill 858-268- 8485
● DUCHEK Bill 858-268- 2976
3481 ● KHOURI Fawaz OO 0
3490 ● DEVIGILI Lewis A 858-565- 4027
3491 ● LAURENCE John R 858-560- 8841

★ 0 BUS 8 RES 0 NEW

MOUNT CAROL DR
92111 SAN DIEGO

WEALTH CODE 6

X TAMRES DR

3108 ● MARTIN Jeffrey OO 0
3109 ● COLEMAN John OO 4
3119 ● FERGUSON Edwin R 858-292- 4788
3128 ● UZDAVINES Andrew OO 3
3129 ● OLSON Harold 858-292- 6245
KEGEL Deborah 858-292- 6245
3138 ● NETTLES Karen OO 8
3139 XXXX OO
3148 ● MURRAY Bill 858-560- 0330
3149 ● POLK William OO
3158 ● MONTGOMERY John OO 4
3159 GONTKON Helen 858-279- 0477 4
3204 ● SMITH Douglas OO 0
3205 ● EYLER Carole OO 0
3212 XXXX OO
3213 ● KELLY Micheal 858-874- 1958 4
3222 ● HOVEY Roger OO +6
3223 ● RUBY Bob 858-277- 2221
3232 ● HOSOYA Ko OO 3
3233 ● EHRLICH Warren OO 3
3242 MEYER Mark L 858-277- 3184 8
3243 ● FERREE John OO 8
3252 ● HEDLEY John J 858-496- 9686 4
3253 ● ANSELM Edwin L 858-279- 7885
3262 ● WALKUP Cynthia OO 8
3263 ● RICHARDSON Matt 858-268- 1200 1
● RICHARDSON Sandy 858-268- 1200 1
3273 ● HAWES Jas A 858-277- 7567
3283 XXXX OO
3286 KUEHNI John 858-576- 2323 4
3293 ● DEVINE David 858-566- 4084 +6
3304 ● ARMIJO Theodore OO 8
3307 ● VALLES Eugene OO 9
3314 ● LINGLE James OO 4
3317 XXXX OO
3324 ● HEATH Francis OO 0
3334 THOMPSON Wm 858-571- 5174
3337 MITCHELL Marvin 858-560- 5834
3344 HARTWELL Jana 858-300- 5757 +6
3347 ● JOHNSON James OO 0
3354 ● DELONG Stanley 858-569- 9201
3357 ● RISI Matteo OO 0
3377 ○ STEPHENSON D C 858-277- 3377 2
3384 ★CHAVEZ CHRIS 858-694- 0286 4
3387 ● REICHERT V M 858-571- 0808
X MOUNT ACONIA DR
3405 BOND Thos D Cdr 858-279- 5458
3410 ● MCELHANEY Debra OO 8
3415 ● SCHMIDT Joseph 858-277- 7435 9
3420 ● FRIIS-HANSEN Sue OO 0
3425 COLLIER Richard R 858-279- 9062
3430 ● DURNAGAN Kathleen OO 9
3435 SOPKO Cindy 858-279- 8232 3
● ZANINI Daniel OO 2
3440 XXXX OO
3443 ● GODDY James 858-277- 8485 4
3450 ● HARDTKE David 858-565- 0695 9
3455 ● LARSON Wendell G 858-565- 0231
3465 ● KONOPASKE Wayne MARNANE Lani 858-565- 9724 9
3470 ZANGARI Michael 858-496- 0674 3
3475 ● ADAMS Elaine L 858-560- 4569 8
3480 ● PARVINI Hamid OO 0
3485 ● WILKINSON Fran 858-576- 8098 4
3502 ● NIKODYM Barbara 858-277- 4710 0
3505 ● MCALUFFE Robert OO 8
3512 ● KING Stephen P 858-277- 9234
3515 ● MOSER Robert OO 4
3518 ● GIAMANCO Andrew 858-565- 0979
3524 ● ESPINOSA Fred OO 0
3525 XXXX OO
3530 ● KLONOWSKI Peter OO 0
3536 ● DALANON Pierre OO 0
3542 ● BODENHAMER Lee OO 0
3548 ● KROPF Emil K 858-974- 0551 7

X ACWORTH AVE

★ 1 BUS 73 RES 3 NEW

MOUNT CASAS CT
92117 SAN DIEGO

WEALTH CODE 6

4201 ● BRUNELLE Jamieson OO 4
4220 XXXX OO
4221 ● ROZE Cheyenne OO 0
4240 ● BREDEMEIER James OO 4
4241 ● SCOTWINSKY Steven 858-278- 1033

X MOUNT CASAS DR

★ 0 BUS 5 RES 0 NEW

MOUNT CASAS DR
92117 SAN DIEGO

WEALTH CODE 6.7

X MOUNT DURBAN DR

4701 ● MABRY Kenneth OO 0

X MOUNT CASAS CT

4730 GRAVES Jeffrey R 858-560- 1971
4743 ● PHILLIPS Roy 858-560- 0640 0
4746 NICHOLS Christopher 858-576- 0165 4
● ROMERO Rebecca 858-715- 9001 4
4753 MICHIE Michael 858-277- 1298 4
● WOODS Richard OO 0
4760 ● STREETER Aaron 858-694- 0462 2
4763 ● KATES Robert OO +6
THOMPSON Megan 858-571- 6896 +6
4772 ● NORTON Steven OO 2
4773 KATES Tera 858-573- 1551 4
4782 ● NIZZOLI Gabriele OO 8
4783 XXXX OO
4792 SERAFIN John 858-279- 1335

4793 ● PRUE Kenneth OO 8
4802 XXXX OO
4803 ● BONETTO Michael OO 4
4812 XXXX OO
4813 ● ALLEN Steve OO 6
4822 KNOX Wesley J 858-278- 1461
4823 ● HURST Charles OO 8
4832 HALL Eileen 858-569- 4175 4
● SPLENDORIO Joseph OO 6
4833 ● GENNARO Christopher OO 1
4842 ● HANGER Steven 858-277- 7117 0
4843 ● JAMIESON Dale OO 0
4852 ● DELUCE Paul OO 8
4853 ● KRAFT Bruce OO 0
4862 ● DEGRASSE C 858-715- 1921 1
4863 ● RUSSELL Allison OO +6
4872 ● TOM Kwong Hem 858-277- 0485 0
4873 ● KHAMBATTA Godrej OO 3
4882 ● WILLIAMS George WITHERDEN D A OO 4 858-277- 8491 +6
4883 ● PEREZ Enrique OO 4
4892 ● LEE Marc 858-565- 2842⊕
4893 ANTHONY R W 858-278- 1237

X MOUNT CULEBRA AVE

4910 ENGBRENGHOF Lewis C 858-278- 3716
4911 ● LOCKSHAW Lawrence OO 9
4923 ● OKUMA Chizuko OO 1
4924 ● VICKERS Marvin OO 8
4937 ● MOYERS Steven OO 0
4938 ● CURTISS Thomas OO 1
4949 ● BOLLENDORF Irvine OO 0
4950 XXXX OO
4961 ● CLUGSTON John OO 8
4962 ROLLINS Sam L 858-565- 2571
4971 ● YOUNG William OO 0
4972 BARRY Shirley 858-279- 4494 +6
4981 ● WYLIE Emmie OO 9
4982 ★EARLY MICHAEL CONSTRUCTION 858-694- 8177⊕ +6
5001 ● GERDOM Martin OO 0
5002 ● LANE Ronald OO 0
5011 ANDERSON Richard Lewis C 858-565- 7267
5012 ● JOHNSTON Paul OO 8
5021 ● TARRANT Thomas OO 2
5022 WILLIAMS Robert Wynn Frazier 858-278- 7538
WILLIAMS V E 858-278- 3407
5031 ● FAUSET Ron 858-279- 1923
5032 STEVENSON John C 858-277- 7336⊕
5041 ● BAUGHN Gilbert OO 8
5042 ● FLORES Mark OO 4
5051 ● HECOCK Aaron OO 4
5052 ● SCHLEF Dean E 858-277- 1523⊕
5061 ● ANDREWS Gregory OO 2
5062 ● ELISEO Randy OO 8
5071 ● ADAMS Osanthe OO 0
5072 ● MILLER Frederick OO 0

X MOUNT EVEREST BLVD

★ 1 BUS 68 RES 6 NEW

MOUNT CASTLE AVE
92117 SAN DIEGO

WEALTH CODE 7

X MOUNT EVEREST BLVD

4201 ● QUON Dennis OO 8
4210 MCSTAY Elizabeth 858-278- 1204⊕
4215 BUFITHS C 858-277- 7548
● MASKOVICH L 858-277- 7548
4227 ● MONDA Danny OO 0
4239 ● SHADLEY Jacques J 858-277- 7435 9
4240 ● CANNON Cathy OO 4
4251 ● LOZANO Joseph OO 0
4256 XXXX OO
4303 ● SISSON Joseph 858-573- 6852 1
4304 ● HILL Dan OO 0
4314 ● OSWALD Sara L 858-277- 7970
4323 ● JOHNSON Allan OO 4
★JOHNSON ALLAN J 858-874- 3511 1
4324 ● BODNAR Mike 858-292- 1345
4333 ● LITTLE Edward 858-560- 0445⊕ 3
4334 SPIEKER Ferd B 858-277- 7418 4
4343 ● ZAVISLAK Jordan OO +6
4344 ● MOORE Jason OO 9
4353 XXXX OO
4354 XXXX OO
4363 ● CHERRY Stephen OO ⊕ 0
4364 GARVER Arthur S 858-279- 9034 8
4373 XXXX OO
4374 GASTELUM Chelsea 858-300- 5932 +6
● SANDERS Larry OO 2
4383 XXXX OO
4384 XXXX OO

X MOUNT ETNA DR

4401 ● KNOWLES Alma OO 0
4402 ● KILLION Mark OO 2
4407 ● CYR Henry C 858-277- 7436
4408 XXXX OO
4413 ● CLARK Paul J 858-277- 6694 8
4414 XXXX OO
4419 ● MEAD Jas G 858-279- 2884
● MEAD Theresa A 858-279- 2884
4420 XXXX OO
4425 MCKILLIP Kim I 858-576- 7127 1
WHITEFIELD Mark 858-576- 7127 1
4426 ● EDWARDS David OO 0
4431 ● ARCHER Jeffrey OO 0
4432 ● HAGOOD George OO 8
4446 ● HAL'S PLUMBING 858-278- 8808 9
4437 ● LIU Yanan OO 0
4438 ● BAKER James OO 4
4443 ● MILLER Patti OO 8
4444 JASZEWSKI Karen L 858-292- 1348 4
4449 ● JOHNSON Sheila 858-565- 1036 1
4450 ● COMMERSON Aaron OO 4
4455 ● ROBERTSON John 858-569- 5266 8
4456 XXXX OO
4461 ● JAMES Dale OO ⊕ 9
4462 ● WITHALL Barbara OO 9
4467 ● KAZYAKA John 858-279- 5783
4470 MCKILLIP B 858-278- 8323
4473 ● WOODS Nancy OO 8
4479 ● LUEDTKE Fred OO 0

X MOUNT HARRIS DR

★ 2 BUS 55 RES 2 NEW

MOUNT CERVIN DR
92117 SAN DIEGO

WEALTH CODE 4.5

X BOXWOOD DR

4708 ● TURNER Robert W 858-268- 8230 0
4709 ● CARDON Gail 858-569- 7431
4716 ● HSU David OO 4
4724 XXXX OO
4732 ● LIU Michael OO 4
4733 ● VANDERWIEL Lynae OO 0
4740 ROMERO Alicia 858-279- 3245

DO NOT MAIL

MOUNT ETNA DR 2006

4741 ● LAGOS Steven L 858-277- 2701
4749 ORTIZ Louis 858-277- 1035
4757 XXXX OO
4765 XXXX OO
4766 ● JOSEPHSON Jerry T 858-279- 7717
4773 ● DUQUE S Melva 858-560- 0243 +6

X MOUNT ST HELENS DR

4781 XXXX OO
4789 ● DANG Lam OO 0

X DIANE AVE

★ 0 BUS 15 RES 1 NEW

MOUNT CRESTI DR
92117 SAN DIEGO

WEALTH CODE 4

X MOUNT ST HELENS DR

X DIANE AVE

4742 ● PIERCE Michael 858-278- 6818 9
4750 XXXX OO
4758 ● HARRINGTON Karen OO 8
4759 ● NEEL Thomas OO 8
4766 XXXX OO
4774 ● NEVERMAN Ronald H 858-277- 1669
4775 ● DELGADILLO Damian OO 8
4782 ● OROPEZA Gilbert OO 9
4785 ● YOUNG Charles OO 8
4792 ● SKINNER Andrew OO +6

★ 0 BUS 10 RES 1 NEW

MOUNT CULEBRA AVE
92117 SAN DIEGO

WEALTH CODE 7

X MOUNT CASAS DR

4260 ● GALY Serge 858-278- 3853 3

X MOUNT DURBAN DR

4265 ● SCHAUER Franz OO 0
4268 ● RUIZ Juan OO +6
4273 ● BINCZEWSKI Frederick OO 0
4276 ● LUESCHER Denise 858-268- 4191 1
4281 ● WHITNEY Adam OO 4
4284 ● BLACKINGTON Kenneth 858-277- 6664
4289 ● PRZYTULSKI Michael OO 0

X MOUNT DAVIS AVE

★ 0 BUS 8 RES 1 NEW

MOUNT DAVIS AVE
92117 SAN DIEGO

WEALTH CODE 6.8

X MOUNT FOSTER AVE

4201 MURPHY Jas L 858-278- 1796
4209 ● SEXTON Frank OO 0
4214 ● MASON Marcella OO 0
4215 ● ABRAHAMSON Kort OO 3
RODRIGO Lori 858-560- 8993 4
4227 ● VANDEVELD Amy OO 4
4230 GALLAGHER Jas V 858-278- 5623 0
4241 ● COOK Joseph OO 0
4255 POWELL G W 858-277- 6375
4267 CLEMONS B 858-576- 9173 4
4270 ● REIN Luann 858-277- 5963
4271 JAEDTKE Travis 858-576- 0555 +6
4285 KELLY Richard L 858-279- 2883
4286 NELSON Mark W 858-279- 7245

X MOUNT CULEBRA AVE

4302 ● LOPEZ/MAZ Margarito 858-277- 1739 3
● LOPEZ/AVILA Sofia 858-715- 0460 3
4308 XXXX OO
4313 ● CAMPBELL Lavaun OO 0
4314 ● PESZESZER Andrea OO 4
4319 ● CUMPER Will 858-292- 0651
4320 ● VIRISSIMO Jose 858-279- 4334 3
4325 ● KNIGHT Charles G Jr 858-292- 6006
4326 ● MENDEGUIA Carlos OO 0
4331 ● BUCKLEY Jas P 858-560- 0313
4332 ● TWOMEY E M 858-277- 3958 9
4337 ● TENNESON Letty OO +6
4338 ● RICE Ladonna 858-496- 0189 3
4341 ● SAINE Monty 858-268- 6043
● SAINE Monty 858-268- 0305
4344 ● NUNEZ Jose OO +6
4348 ● HENSEL Donald E 858-278- 3673
4349 ● ROMANO Joseph OO 2
4355 ● PALESTINI Louis OO 9
4361 ● RODRIQUEZ Raymond 858-279- 5151 0

X MOUNT ELBRUS DR

4371 XXXX OO
4381 ● GREIF Jon OO 4
KUHANECK Michael 858-277- 4230 +6
4391 ● DEHAAS David OO 3

X MOUNT ETNA DR

★ 0 BUS 38 RES 4 NEW

MOUNT DURBAN DR
92117 SAN DIEGO

WEALTH CODE 6.7

X MOUNT CASAS DR

4704 ● BUTCHER David OO 0
4714 JOHNSON Edw M 858-278- 2291
4724 SINFIELD Leonard S 858-565- 6871
4725 ● DAWSON Clark OO 4
4734 WALL Kenneth E 858-278- 2196 3
4744 ASHLEY Mark L 858-278- 2384
4754 ● DAHL David 858-565- 2801
4755 ● DIXON Gary OO 3
4765 XXXX OO
4774 ● SORNSON Louis OO 4
4775 GREEN Charlie Y 858-279- 1866
4784 HUNTER Robt A Lisol Isad Rat 858-278- 5318
4785 CARLSON Evar 858-277- 2320
● SELESKA Phyllis OO 4
YACCINO John 858-541- 0980 4
YACCINO John 858-541- 0981 4
4804 XXXX OO
4805 ● ESTRADA John OO 3
4814 ● MCGRANE Richard 858-278- 2188 2
4824 ● MCGRANE Richard 858-278- 2288
4825 XXXX OO
4834 RYMER Kathleen 858-278- 1573
4835 ● ABOUSERHAL David OO 9
4844 ● BEGLEY Myriam OO 4
4845 ● SLOMINSKI James OO 0

4854 ● LAROSA J 858-277- 7669
4855 ● BURGIE Robt J 858-279- 9195
4864 XXXX OO
4865 ● CLARK Michael OO 8
4875 ● ARNALDO James OO 0
4876 XXXX OO
4885 ● DILEO Reinald OO 0
4886 ● CARRIZOSA David OO +6

X MOUNT CULEBRA AVE

4903 PERGUMIAN Jack 858-279- 8651
4904 XXXX OO
4923 ● WARNER Mark E 858-276- 3850 +6
4924 ● RHITZ James OO 3
4943 ADAMS Peter 858-715- 0276 +6
● HORTON Anthony OO 0
4944 ● HANSEN Randy OO 8
4963 ● HOLT John OO 1
4964 ● GRANT M OO 8
LINDSAY Grant M 858-279- 0409
4973 ● ESTES Steven OO 8
4974 PEREZ Jose S 858-277- 8435
4983 WHITEHILL Paul H 858-278- 5208
4984 XXXX OO
5003 ● BEAUDIN Jesse OO +6
5004 SABO John 858-565- 8218
5013 ALLAN Lewis 858-277- 4394
5014 ● KEMMERER Michael OO 4
5023 ● BRADBURY John OO 0
★ JOHN BRADBURY Numismatics SERV 858-565- 6823 3
5024 ● SKINNER Jerold OO 0
5033 TUTTLE Glenn M 858-277- 7837
5034 XXXX OO
5043 ● SCHAUER Franz OO 0
5044 ● FREE Joe OO 8
5053 ● COUNTRYMAN Christine OO 8
5054 XXXX OO
5063 JONES Kenneth E 858-277- 7327
5064 HARPER T R 858-278- 4387
5073 ● BILLIG Jon D 858-277- 9508
5074 ● KANE Debbie 858-576- 8008

X MOUNT EVEREST BLVD

★ 1 BUS 63 RES 4 NEW

MOUNT ELBRUS CT
92117 SAN DIEGO

WEALTH CODE 6

4307 ● BOZORGNIA Bijhen 858-571- 5799
● BOZORGNIA Mamjieh 858-571- 5799
4310 ● JOVANOVIC Ratko 858-268- 4873
4315 ● CLICKSTEIN Michael OO 2
4325 XXXX OO
4330 ● HENRY Michael OO 0
VERBUNKER Amy M 858-571- 7353 +6
4337 ● LEWIS Floyd OO 8
4338 ROMINE Sally 858-277- 8762
4345 ● LIVERSEDGE Michael OO 4
4346 XXXX OO
4353 NELSON J 858-292- 4503 1
NELSON Judith 858-571- 3229 1
4354 XXXX OO

X MOUNT ELBRUS DR

★ 0 BUS 14 RES 1 NEW

MOUNT ELBRUS DR
92117 SAN DIEGO

WEALTH CODE 6.7

4802 XXXX OO
4807 ● JACKSON Mike 858-569- 0751 9
● JACKSON Mike 858-569- 1473 9
4810 ● MCKENZIE Mary OO 8
4817 ● AZEVEDO John 858-292- 9491
4818 ● IGNATOV Yollan 858-569- 4864 1
4825 ● HICKEY Glenis OO 0
4826 ● PEABODY Dean OO 0
4833 ● WEST Ann OO +6
4843 ● FLINN Franklyn OO 9
4844 ● YASUHARA Curt OO 2

X MOUNT FORAKER AVE

4853 ● MCQUAID Robt W 858-279- 5827
4854 ● JOHNSON Norman OO 4
4864 XXXX OO
4874 HINGELEY Eric 858-541- 7100 4
4884 ● PETRICH Mark OO 0
4885 ● HARTRANFT Dru OO 4
4894 ● YORDAN Faith 858-565- 1673 2

X MOUNT ELBRUS CT

4901 ● ROBERTSON Kevin P 858-278- 0019 8
4911 ● FRY Emory OO 1
4912 ● MARIN Ada OO 0
4920 ● HUDSON Wayne 858-974- 3531 4
4921 ● LEWINO David OO 0
SCHWARTZ Brad 858-268- 8759 +6
4928 ● GABRIEL Mitch OO 8
4936 Old Del 858-560- 8271 +6
● NGO Tuyet OO 0
4944 ● YATES Quentin OO 0
4951 ● LEES Matthew OO 0
4952 XXXX OO
4962 ● PARDELL Nancy OO 9

X MOUNT FOSTER AVE

4971 XXXX OO
4972 ● FARRELL John H 858-278- 0876
4981 ● DIDONNA Steven OO 8
4982 XXXX OO
4991 BOWLER Anthony J 858-279- 6108

X MOUNT DAVIS AVE

★ 0 BUS 36 RES 3 NEW

MOUNT ETNA DR 92117
SAN DIEGO

WEALTH CODE 7

X MOUNT HERBERT AVE

4618 ● RAMOS Jose 858-715- 5785 4
4630 ● KAYVANSHOKOUHI Mehdi OO 8
4644 ● MCCRACKEN Heather OO 4
4658 SMITH Clara 858-715- 0531 4
4670 ● SMITH Francesca 858-268- 4114 4
4684 XXXX OO
4714 ● FENNELLY Brendan OO 1
4728 ● TRIV Tek OO 9
4740 ★ PROJECT NET 858-496- 8860 +6
★ PROJECT NET 858-496- 8866 +6
4741 ★ NORTH CITY YTH BSBLL 858-560- 4992
4752 ● FISHERO Stella 858-715- 9405 8
4764 ● STEINEMANN John 858-974- 4979 3
4776 BIRELAND Edward 858-560- 7004 4
● HOFMANN Robert OO 8
4788 ● ROLLA Robert OO 8

4802 ● WHEELER Richard Brian 858-571- 7381
4811 ★ REORGANIZED CH OF JSS CHRST OF 858-279- 6974
4812 ● GUILEMAN Lynda 858-565- 0071 4
4822 ● SWALLOWS Dana OO 4
4831 XXXX OO
4832 ● HANSEN Daniel OO 0
4841 XXXX OO
4842 ● TRAILER Margie 858-268- 1758 4
4851 ● HEATH Jeremy OO 1
4852 ● HARRISON Brian OO 0
4861 ● KOKUN Michael 858-874- 0029 2
4862 ● GIBBONS Cheryl 858-277- 3268 2

X MOUNT FORAKER AVE

4901 ● BURGESS Donald E 858-277- 5247
4902 ● OBRIEN Sarah OO 0
4911 ● BRITTING Paul OO 8
4912 BRANCH Kenneth 858-278- 9554
4921 ● WHEAT Hugh OO 0
4931 KURTZ Frank J 858-279- 8141
4932 ● FANNO Jeffrey OO 3
GREANEY Susan 858-278- 8397 9
4941 ● INGERSOLL Janet OO 8
4942 ● LACHMAYR Stephen OO 1
4951 INGERSOLL Geo W 858-278- 0183
4952 ROMERO Oscar B 858-277- 2483
4961 MCLAUGHLIN C Lee 858-278- 0422
4971 MICKELSON H L 858-277- 0131
4972 ● UTRERAS Berta OO 4
4981 ● URBANSKI John OO 1
4982 ● PATRAO Maria OO 8
4991 ● SMITH Evan OO +6
4992 TINKER C R 858-268- 0650

X MOUNT DAVIS AVE

5002 ● ORTGIESEN John 858-279- 7585 7
5012 ● ADRIANO Francesca OO 4
5022 ● BARRON Gary OO 8
5042 ● FISHBURN Carla OO 9
5052 ● POWELL Unar OO 8
5062 ● BERGHOLDT Sarah OO 4
5072 ● BROOKS Todd OO 1

X MOUNT EVEREST BLVD

★ 4 BUS 50 RES 3 NEW

MOUNT EVEREST BLVD
92111 SAN DIEGO

WEALTH CODE 6.6

X MOUNT ARMOUR DR

3402 ● BERTELSEN Jeannette OO 4
3406 ● PAGE Richard OO 9
3412 ● WILLMONT Nathan OO 3
3416 ● FORTIN Charles 858-292- 7698 0
3422 XXXX OO
3425 ● HO Kin 858-571- 2730
3426 ● QUANN Ian OO 4
3432 NEELY Brad 858-277- 0245 4
3433 ● BINGHAM Shawn OO 0
3439 ● SEGRESS Chad OO 4
3442 ● HAYS Fred OO 3
3445 ● HEINDL William OO 3
3446 ● IBARRA Rogelio VO Thai OO 0
858-571- 3882 4
3452 ● MIDDLETON Thomas OO 9
3453 ● INSUA Paul OO 8
3466 ● ASHBY Dennis OO 1
3461 ALTIG J A 858-279- 0892
3462 ● ASHTON Linda OO 8
3465 ● ALLEN Frank OO 8
3466 ● CHACON Ramon OO +6
DELATORRE R C 858-560- 6074 +6
3471 ● JUNG Bing QUANG Kiet 858-569- 9254 9
QUANG Phong 858-569- 6910 9
3472 ● FLYNN Christine OO 0
3475 ● BOURGEOIS Cliff J 858-279- 6969
3476 XXXX OO
3481 RATTA Everett E 858-279- 7926
3485 ● HEMINGWAY Swayne OO 1
3486 ★ REYNOLDS INS SERVS 858-278- 5076
REYNOLDS Richard G 858-279- 8803
REYNOLDS Richard G 858-279- 9629
3491 ● HARTMAN Steven 858-268- 8976
3492 ● TURLEY Kenneth OO 0
3495 DOLAN Geo Wm Jr 858-292- 4444
3496 ● WEBB Stephen OO 0

X MOUNT ARMOUR PL

3504 ● SNYDER Janet Lee 858-277- 7753
3510 ● MARTINE Michael OO 2
3513 ● THOMPSON Mark OO 0
3516 ● JONES Kelly OO 8
3519 ● KINNEY Jas M 858-576- 2459
3522 ● BROWN Shawn OO 0
3525 ● ANTOLINI Douglas R 858-576- 9836
3528 ● JOHNSON Michael OO 0
3531 ● HOWARD John OO 0
3534 ● NOURI Richard OO 0
3537 ● REYNOLDS Waldon K 858-279- 3342
3540 ● REYNOLDS Max OO 4
3543 ● PAYTON John J 858-279- 2160
3546 ● FITZMORRIS Bob W 858-277- 9063
3549 ● CRENSHAW Edward OO 3
3552 ● ALLEN Shannon 858-569- 1650 3
3559 ● JAKOBCIC Patty 858-292- 5402 2
3561 ● CHINELLO Mario OO 0
HAUR David 858-279- 2834 1
3564 XXXX OO

X MOUNT BLACKBURN AVE

3567 ● MARSHLAIN Boyd 858-571- 3780 1
3570 EWING Cassandra GROTKE Guy 858-576- 2148 4
OO 0
3573 ● SUITTS Taletha 858-565- 9306 8
3576 ● HAAS Allen OO 4
3579 ● MARZEO Cal 858-279- 7422 8
3584 VARGAS Frank 858-571- 0447
3587 ● DENLEA Peter 858-715- 6781 2
3601 PERRY Tom A 858-279- 9078
3609 CUSTER Henry L Cpa 858-278- 1149
3617 ● SANDOVAL Heriberto OO 9
3625 ● MOSS Sondra OO 0
3633 ● STONE Philip OO 0
3640 ZUORRO Jennifer M 858-268- 0911 4
3645 ● SCHEER Donn OO 0
YOZAR Donn 858-278- 9033
3657 ● PATE James OO 0
3669 ● CROSBY Thomas OO 4
3673 ● PANARAN Stella 858-279- 3252 2
3681 ● OHAGAN John OO 8
3689 ● DIVONA Joseph OO 2
3697 ● LEWIS Jas C 858-292- 4068

X MOUNT ASHMUN DR

3701 XXXX OO
3709 ● MERA Daniel OO 9
3710 ● FARRELL Yvonne 858-300- 6033 0
3717 ● PASEK James OO 8
3718 ● MCMANUS Evan OO 0
3725 ● POND Wm R 858-277- 4721
3726 ● SHAFFER Craig OO 0
3735 ● KHAMBATTA Godrej MALDONADO Mary 858-569- 8542 4
3736 ● ANDING Leonard 858-279- 7904 7

3745 ● WHITE Erwin OO 8
3746 ● PATTERSON Duncan OO 3
3755 ● NORGARD Karin OO 9
3765 ● OWENS Allison 858-279- 1291 2
3766 ● GREINER Timothy OO 3
3775 STURRE Gerald K 858-279- 1026
3776 XXXX OO
3785 ● TAYLOR Christine OO 3
3795 REDDICK Greg 858-569- 1241 +6
3796 XXXX OO

X MOUNT ARARAT DR

3801 XXXX OO
3813 ● PICKNEY Timothy OO 4
3814 ● ANDERSON Tom 858-279- 9988 8
3828 ● WHITE Stephanie 858-278- 5695 0
3839 ● DUNCAN Brian 858-715- 1236 4
3850 ● TEIGEN Gary OO 8
3855 XXXX OO
3862 ● HOWELL J 858-571- 5333 3
3867 XXXX OO
3874 ● GREAGREY James OO 4
3883 ● LINDER Keith F 858-277- 6922 +6
3888 ● SMOKE Timothy OO 1
3906 ● COLLINS Patrick 858-279- 0285 3
3921 ANTCZAK A J 858-279- 1285
3934 ● ADAMS Norma OO 0
3935 STECKER L E 858-278- 3403
3948 XXXX OO
3949 ● ASHTON David OO 8
3955 ● MCHENRY Eleanor 858-278- 4368 2
3956 ● RAMIREZ Robert OO 8
3961 ● TOENNESSEN Emiko OO 9
3964 XXXX OO
3967 ● BLACK Harry 858-514- 8997 0
3972 WARNER Nancy 858-541- 2050
3973 ● GONZALEZ Charles OO 8
3979 ● REDLING Jerry OO 9
3980 ROTNOUR Earl S 858-278- 9394
SANDEFFER Dorothy OO 0
3987 ● HUFFMAN Robert 858-277- 2027 8
3988 ● CARLISLE Thomas OO 0
3995 ● ANDERSON Patricia S 858-278- 3956 9
3996 ● GRAFFMAN Michael OO 4

X MOUNT BLANCA DR

4001 ● LAROSA Jane OO 0
SORENSEN Tom 858-279- 9866 4
4002 ● PARKS Robert OO 4
4010 ● DIVONA Joseph OO +6
4017 HENNINGS Gerald 858-292- 9420
4018 ● LUNDQUIST Bryan OO 4
4025 ● MURPHY Thomas OO 4
4028 HAGEMAN Walter 858-278- 0107
4033 ● WARRICK Reid OO 9
4034 ● DAVIS Gary OO 1
SEAL Kenneth R 858-571- 0485 4
4041 ● BIENDARA Emil A 858-279- 5054
4042 ● HALL K C 858-277- 8723
4047 XXXX OO
4048 ● DOERING Mark OO 9
4053 ● WENGER Brad 858-279- 3465
4054 ● BERGEN Kenneth OO 4
4059 ● DAMERON Joseph OO 0
4065 ● SERRANO Richard OO 3
4066 ● SCOTT Shell 858-277- 2457 8
4071 ● HENSLE Shawn OO 1
4072 ● CRONIN James OO 4
4077 ● RALEY James 858-569- 5949
4078 XXXX OO
4083 ● NGUYEN Nga 858-277- 3588 2
4084 ● GEISSLER Gary OO 3
4089 ● DAWSON Deborah A 858-268- 3849
4090 FUNDERBURK Karyn D 858-565- 1896 3
4095 XXXX OO
4096 FAGAN R M 858-277- 3573
SHEPHERD Sam 858-569- 8607

X MOUNT ALIFAN DR

4101 ● LISESKI Michael OO 9
4102 ● BRISTER David OO 0
KOMOROWSKI Paul P 858-279- 5006
4111 ● ANDERSON Judith OO 8
4112 FALKNER Jos E Rev 858-565- 7541
4121 ● SANDERS Jack L 858-576- 9306
4122 ● PASKOWICZ E A 858-279- 4207 1
4131 ● HICKE Don 858-569- 4908
4132 XXXX OO
4141 XXXX OO
4142 ● VORACHAK Opeul OO 4
4151 XXXX OO
4161 HOLLAND Darl E 858-277- 1332
4164 MERRITT Clifford M 858-278- 2953
4171 ● LISESKI William 858-277- 7886
4178 ● FUSCO Gilda OO 8
4181 ● NGUYEN Kim 858-565- 6925 3
4190 ● MOYER Charlynne OO 2
4191 ● KATO Leticia OO 4

X BALBOA AVE

★ 1 BUS 180 RES 5 NEW

MOUNT EVEREST BLVD
92117 SAN DIEGO

WEALTH CODE 7

X MOUNT CASTLE AVE

4241 DEHN Larry F 858-277- 0824
4261 ● UTRERAS Berta OO 9

X MOUNT DURBAN DR

4311 RUTLAND Oscar B 858-278- 2011
4321 ● KROFF T 858-300- 8733 0
4341 ● MANSFIELD Joseph E 858-560- 8562 3
4350 ★ SC ADMIN SPCL ED WIGGIN PE 858-573- 5927 3
★ SC ADMIN SPCL ED WIGGIN RCRDS 858-573- 5928 3
★ SC ADMIN SPCL ED WIGGIN TECH 858-573- 5968 3
★ SD SC ATYPCL MOUNT EVEREST 858-496- 8778 7
4351 DODDS Stuart 858-715- 6821 4
● GARCIA Darlene OO 3
4361 ● BLAIS Raymond C 858-278- 1479 9
4371 DILL Wm G 858-278- 4715
4381 NACE Harley 858-541- 7664 4

X MOUNT ETNA DR

4401 XXXX OO
4417 ● CHRISTIANSEN Robert OO 1

X MOUNT FRISSELL DR

4425 XXXX OO
4433 XXXX OO
4441 XXXX OO

X MOUNT GAYWAS DR

4449 ● STARR Mark OO 4
4453 STAEBLER David 858-715- 8331 +6
4461 ● REUSS A 858-569- 1907 4
4467 ● GRANT L 858-565- 8558 7

X MOUNT HAY DR

4473 ● BENNET James OO 0
4476 BARONE K 858-279- 7038 3
● GARCIA Elmo OO 0
4481 CHALMERS Burl E 858-279- 3935

4489 ● MCCOLLOUGH Roger L 858-279- 7406

X MOUNT HARRIS DR

★ 4 BUS 24 RES 1 NEW

MOUNT FORAKER AVE
(03) 92117 SAN DIEGO

WEALTH CODE 4

X GENESEE AVE

4551 ● BORTIN Seth OO 1
4561 ● HEATON Andrew OO 4

X MOUNT LONGS DR

4571 ● CAREY Richard OO 4
4581 ● LEMKE Michael 858-278- 0521 3
● LEMKE Michael 858-278- 0964 3

X MOUNT LA PLATTA DR

★ 0 BUS 5 RES 0 NEW

MOUNT FORDE AVE
92117 SAN DIEGO

WEALTH CODE 6

X MOUNT HERBERT AVE

4601 ● SOLOMON Denise 858-627- 9134 3
4602 ● MILLER Grant C 858-278- 9045
4611 ● MURFEY Scott OO 4
4621 DELAFUENTE Angelina 858-627- 9352 +6
● NAVA Javier OO 3
4631 MARTIN Marvin R Min 858-278- 2317
4641 ● PHILLIPS Steven OO +6

X MOUNT VOSS DR

★ 0 BUS 7 RES 2 NEW

MOUNT FOSTER AVE
92117 SAN DIEGO

WEALTH CODE 6.6

4251 ● STEEL Wm R 858-571- 0700
4252 ● CHAPIN James OO 0
4261 ● DOYLE P J 858-279- 3641
4262 ● WHEELER Gayl OO 0
4274 ● NESELLO Cynthia OO 9
4286 RELYEA Richard E 858-278- 2823

X MOUNT DAVIS AVE

4302 ● LAVAUT Thomas OO 3
4308 ● WEED James OO 8
4309 YORK Anna 858-279- 1273 4
4314 XXXX OO
4315 HACHTEN Raymond C 858-278- 2121
4320 ● BERG W R 858-571- 4753
4321 ● WHITE Jeffrey 858-292- 5790 2
4326 ● WHITE David OO 4
4327 ● GRAHAM M 858-573- 5135 3
4332 GUARDIANO L 858-565- 7220
4333 XXXX OO
4339 ● SULLIVAN Phyllis 858-560- 0866
4344 XXXX OO
4345 ● SANCHEZ Lois 858-565- 7919 9
4351 ● MARTINEZ Arnulfo 858-292- 0973 4
4356 ROHRBACH Wanetta 858-627- 9083 9
● WILLIAM H OO 4
4357 XXXX OO
4362 ● LINGLE James OO 1
4363 ● IBARRA Rogelio M 858-277- 1150

X MOUNT ELBRUS DR

★ 0 BUS 26 RES 0 NEW

MOUNT FRISSELL DR
92117 SAN DIEGO

WEALTH CODE 6.9

X MOUNT GAYWAS DR

4501 ● QUILLMAN Anita 858-279- 2202 4
4509 ● FINLAY Ray OO 8
4517 ● RISTE Roger OO 9
4524 ● HICHT Lynn 858-576- 1600
4525 ★ KAISER CONSTRUCTION 858-569- 8930
● KAISER Thomas OO 0

X MOUNT LINDSEY AVE

X MOUNT HERBERT AVE

4661 XXXX OO
4664 ● BURAK Jerome OO 4
4671 XXXX OO
4678 ● LANDIS Jeffrey OO 2
4681 ● DONNELLY Martin OO 0
4689 ● HANNSON Foster OO 0
4690 ● WILLIAMSON Cheryl OO 8
4701 ● GRAHAM Timothy OO 4
● SOCOL Ellen 858-569- 6752 4
4708 ● FIELDS Rita OO 2
4727 ● HIXSON Pamela OO 4
4738 ● JOHNSON Myrna 858-268- 0184
4739 ● GARCIA Leo OO 8
4750 ● CARVALHO Norman OO 0
4751 ● MCELHENY Donald 858-571- 2735
4762 ● ROLECKI Mary C 858-569- 1362 9
4763 ● BALL Mercedes 858-278- 5196
4774 WAGNER Anne 858-277- 5262
4775 ● CLEMENS Susan OO 1
4786 ● TARDIF Allen G OO 0
4787 ● SQUIER Barbara OO 4
4825 ● REY Thomas OO 8
4826 ● CRANDALL Dick 858-565- 0335
4835 ● YOO Stephen OO 4
4836 ● LOGAN Amanda 858-874- 0213 3
4845 ● DOLPHIN George OO 0
4846 ● POST Edwin C 858-279- 2118
4855 ● WOLSKE Michael OO 3
4856 ● CAPIANCO Gil OO 0
4865 ● MYERS Richard OO 3
4866 XXXX OO
4876 ● BARNES Richard OO 4
4885 ● BLACKER Paul OO 4
★ UNIVRSL PLUMBING 858-874- 2900 4
★ WATER HEATER MAN 858-874- 2500 +6
4886 ● MCLAUGHLIN Richard OO 4

X MOUNT FORAKER AVE

4902 ● MRAZ Andrew OO 0
4912 ● SCHAFFLER Keith OO 4
4921 PRATT Robt W Dr 858-560- 1463
4922 ● OBRYON Raymond OO 0
4931 ● FRANK Raymond OO 0

4932 ● SMITH Dennis OO +6
4941 XXXX OO
4942 ● FRANKS Thomas OO 9
4951 ● FILTZ Lawrence 858-279- 4661
4952 ● SIMMONS Alan OO 4
4961 MORALES Frank 858-292- 0718
4962 BAILEY Amos R 858-277- 4971
PIPPIN M G 858-277- 4971
4971 XXXX OO
4972 ● WINCHESTER Donna 858-277- 2533
4981 FETTERS L J 858-277- 6826
4982 XXXX OO
5011 ● STAR John OO 0
5012 ● SANDRI Luke OO 4
5023 ● GRIDER D D 858-279- 9575
5035 ● JIMENEZ Javier OO 0
5036 ● ARMSTRONG Michael OO 4
5045 ● CIERO Michael OO 9
5048 ● GRUBENSKY Michael OO 9
5060 ● KOSTECKI Mary OO 0
5063 ● JENSEN Richard W 858-279- 7752

X MOUNT EVEREST BLVD

★ 3 BUS 67 RES 2 NEW

MOUNT GAYWAS DR
92117 SAN DIEGO

WEALTH CODE 6.7

X MOUNT FRISSELL DR

4502 ● DITTMAN Melvin OO 4
4512 ★ MORONEY J D CDR 858-278- 3560
4522 ● STOUT Martin OO 4
4532 ● WINGERT Paul OO 1
4532 ● ALLEN Michael OO +6
4535 ● JEBBI David OO 0
4542 XXXX OO
4552 ● NGUYEN Tong OO 3
TRAN Khac Nghiem 858-279- 9925 4
4562 ● NGUYEN Trieu OO 0
4602 ● NUNEZ Juan Manuel 858-278- 8827 4
4605 ● STEEGE M T 858-279- 2731
4612 ● CALAMIA Richard OO 0
4615 KENNY Francis W 858-277- 2947
4625 ● SCHU Karl OO 3
4632 ● GARCIA Manuel OO 0
4635 XXXX OO

X MOUNT HENRY AVE

4642 ALFRETS Gerald R 858-279- 5968
4645 ● SOVINSKY John OO 0
4652 ● SOLMER Robert OO 2
4655 ● CARTER Timothy OO +6
4662 XXXX OO
4672 ● HAYNES Lance 858-560- 5737 2
4675 ● ROMERO Wallace OO 4

X MOUNT HERBERT AVE

4709 ● PICKENS William OO 4
4712 JOHNSON Lawrence J 858-560- 1953
4722 ● SANDERBECK James 858-560- 1046
4725 ● BRILMYER Edward 858-467- 0705 4
4731 ● RAMSEY Rodney OO 4
4732 CHANG Wei Hsin 858-560- 6471 +6
● HERCELINSKY Michael OO 4
4741 ● BRINDELL John OO 8
4742 ● SVENDSEN Eric OO 3
4751 ● CAMPBELL Sharon 858-565- 2434 9
4761 ● VANDERHEYDEN Jon 858-292- 5489 1
4762 ● BURNETTE Donald OO 8
4771 ● CATALOGLU Altay 858-277- 4427
4772 MISCHO Peter J 858-569- 1929
4781 ● BUHR Anthony OO 3
4782 XXXX OO
4791 JABAAY Chris J 858-292- 9535
4792 HANSON Patti 858-566- 4521 4
4801 CRAWFORD Joseph J 858-278- 2344
4802 ● HYDORN Howard OO 0
4817 ● ELGAS Kathleen OO +6
4832 ● BAGALINI Christopher OO 2
HAYWOOD Brian 858-278- 6463
4831 ● WOLFF Corey OO 4
4832 ● BRADFORD Charles OO 0
4847 SHAFER Paul L 858-279- 8584
4848 XXXX OO
4861 ● FIGUEROA Marta OO 9
4862 EVANS Gus Msgt 858-565- 6993
4875 ● MILO Maresala OO 0
4876 XXXX OO
4887 ● ALMERA Narciso OO +6
4888 MCLAUGHLIN Deanna 858-277- 1783 3

X MOUNT FORAKER AVE

4901 ● SCHUMANN Kai OO 0
4902 XXXX OO
4915 ● MCMAHON Thomas OO 0
4916 ● GREATON Dwight OO 0
4929 ● FRANKS Steven OO 4
4943 ● KENNY Barry OO 0
4944 ● ZOMBEK Mark OO 0
4958 ● LINGOL Alan OO 3
4971 ● BIZILY James OO 4
4972 ● ABRAHAMSON Kort OO 2
4985 ● GALLO Alphonse 858-279- 5213
4986 ● BARLOW Neil OO 0
5001 ● MORALES Frank OO 8
5002 ● MALEC Lisa 858-560- 9979
5017 BRACKEN J Paul 858-277- 2422 3
5018 ● ALINE Michael OO 0
5033 ● JOHNSON Steven OO 0
5034 ● LJUNGQUIST Leif OO 0
5049 ● CASTILLO Teresita 858-505- 8155 0
5050 ● BONAKDAR Robert OO 3
5061 ● FAIRCLOTH John OO 8
HILLIS David 858-565- 1432 4
HILLIS Mickey 858-565- 1432 4
5062 ● VITTI Robert OO 9
5073 XXXX OO
5086 XXXX OO
5087 ● ROBERTSON Catherine 858-505- 0537 3

X MOUNT EVEREST BLVD

★ 1 BUS 83 RES 5 NEW

MOUNT HARRIS DR
92117 SAN DIEGO

WEALTH CODE 7

X MOUNT HERBERT AVE

4701 ● RODRIGUEZ Katherine OO
4702 ● SERENO Fanny OO 0
4714 ● COLTRAN Thomas OO 4
4715 ● PROSSER C J 858-279- 7122 9
● PROSSER C J 858-279- 7697 9
4727 REEVE Jim 858-277- 5779
4738 ● HEDSTROM L 858-268- 8268 +6
4739 LICARI Mildred 858-278- 4486 4
4751 ● OVERMAN Leslie B 858-874- 5869 2

@=DO NOT MAIL

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

Balboa Ave 1984

BALBOA AV—Contd
15 Industrial Data Link rte communications equip 272-4455
16 Vacant
17 Vacant
18 Vacant
19 Rizzo Mel Realty
4238 Clairemont Rental Properties 273-4431
Garfield Office Building 273-4431
4239 Green Donna chiropractor 270-7181
4241 Dental Development Systems dental care 273-1580
J K Laboratory dental laby 270-5403

495

MT EVEREST BLVD INTERSECTS
BALBOA WAY BEGINS
5222 Balboa Pharmacy 278-0111
Clairemont Medical Tower ofc bldg 299-1122
OFFICE BUILDING
Rooms
1 Superior Opticals Co optns 279-0333
Clairemont Radiology Medical Group Inc clinics-radiology (x-ray) 292-4838
Suites
3 Vacant
21 Molnar Charles J Jr phys 279-2501
22 Clairmont Womens Clinic 268-0300
23 Morgan Sherman M phys 279-2350
24 Di Zinno Libro E phys 278-2811
31 Grossman Robt H phys 278-1330
31 Stress Testing Laboratory 278-1330
33 Franklin Marshall phys 268-8718
33 Heart Specialist Medical Group Inc 571-1200
34 Comito John N phys 279-4221
41 Kieffer Ray J orthodontist 279-6210
41 Griffiths Donald L orthodontist 279-6210
41 Holman John C III orthodontist 279-6210
43 Murray John P phys 278-0331
44 De Reeder Peter phys 278-4620
51 Bell L Barclay phys 278-2600
52 Balboa Dermatology Clinic 565-4545
52a Du Voss Gary psychologist
53 Gross Kenneth G phys 565-6394
54 Otto Evan L M D Inc 279-2151
FLOORS
6th Fl Vacant
6th Fl Fish Deane L phys 565-6666
6th Fl Trees Carl A phys 565-6666
6th Fl Balboa Medical Group Inc 565-6666
71 Heath Wayne L dentist 279-1900
71 Zinkein Ron dentist 279-1900
71 Cruz Dave dentist 279-1900
73 Wentzel Goetz M phys 278-0551
74 Harris Joseph C dentist 277-5141
STREET CONTINUED
5252 Balboa Tower ofc bldg
Suites
101 Sundy Hilton E chiropractor 560-5022
102 International Business Associates Inc process computer softwares 560-8584
103 Evatt Smith Campbell lwyrs 278-3200
104 Vacant
2dfl P R C Gurainick sub ofc
300 S & A Management Services accounting & tax serv 292-9150
301 Conrico Designs & Crafts graphic design 278-9421
301 Clark Richd D archt 278-9421
302 P R C Gurainick Inc 292-9102
304 P R C Technical Applications Inc (Logistics Dept) 278-6273
306 P R C Tech Applications Inc (Tech-research Br)
400 P R C Gurainick Quality Assurance
402 Merit Protective Service Of Ca polygraph testing 569-1986
405 Clairemont Temporary Services 576-1602
407 Stilwell Benj W pathologist 277-3153
408 Vacant
5th Fl P R C Gurainick (Sub Ofc) 292-9102
6th Fl P R C Marine Corp (systems eng dept)
700 Smith Timothy N lwyr 292-9666
700 Selvig Lee W lwyr 292-9666
701 Vacant
703 Vacant
704 Halsey & Rasmussen lwyrs 569-0206
705 Bass Investigation Co 571-3529
706 Plan For Health health ins 571-8600
706 Ubiquitous Logistics computer programming 571-6800
706 X Logistics computer programmer
707 Clairmont Graphics typesetting 268-9887
709 Federhart & Associates traffic consultant 278-3365
800 Franklin Insurance Service Corp ins brokers 278-2000
800 P R C Voorhees consulting 571-5071
801 P R C Technical Applications Inc sub ofc
802 Vacant
803 Learning Process Center The psychologist 560-1000
804 Vacant
805 Vacant
9th Fl P R C Technical Applications Inc (sub ofc) 278-6273
10th Fl Planning Research Corp marine eng 278-6273
L Southern California Golfer tablod newspaper 278-8720
5316 Vacant
5338 San Diego Gas & Electric Co (Br Ofc) 239-7511
5342 Block H & R income tax preparers 279-1780
5344 State Farm Insurance Co's 277-1772
5346 Tantalizing Tipp creative acrylic nails 576-1111
5350 Century Twenty-One Northcutt Realty Inc 560-1061
5354 Household Finance Corp 278-5361
5358 Crown House barber shop 560-4527
5360 California Federal Savings 560-0112
5361 Schultz Milton H @ 277-9476
5363 Woods Raymond B @ 279-1121
5365 No Return
5367 Fredericks Michl D @ 268-8783
5369★Joyner Lloyd 569-9132
5371 Mc Kittrick Nora L @ 277-0313
5373 Hethcock Jan M 565-2257
5375 Horne John K
5377★Shepherd M M @ 569-9197
5379 No Return
5381 Morgan Jeanne K Mrs 277-1235
5383 Amparan Alex 569-0656
5385 Batzler Wm E @ 565-1647
5387 Vacant
5389 Ferguson John E @
5391 Oostdyk Geo R 292-1425
5393 Rush Robt L 279-7612
5395 Casey Sandra L @
5397 Mc Donald Arth
5399 Six Robt @
GENESEE AV INTERSECTS

69

ZIP CODE 92111
GENESSEE AV INTERSECTS
5401 Balboa Mesa Shopping Center
Holmberg's Don Chevron Service 279-1010
5404 Crystal's Frat House restr 279-2390
5405 Callender's Marie Pies No 22 restr 279-6604
5407 Security Pacific National Bank 279-0767
5430 Target Store 277-3744
5454 Target Auto Service Center 571-5456
Key Korner key shop-locksmith
5501 Baskin-Robbins Thirty One Ice Cream Store 278-4341
Holmann Inc ice cream store oprs 278-4341
5502 Coldwell Banker real est 565-8151
5504 Charlie & Co barber shop 569-8202
5505 Mervyn's Department Store 279-8811
5508 Imperial Savings & Loan Assn 278-4060
5511 Winchell's Donut House No 261 278-1642
5522 First Interstate Bank (Balboa-genesee Ofc) 231-2222
5530 Champion Car Wash 278-9520
5555 Vons Grocery Co 279-4661
5607 Mister Fish & Chips 279-2641
5611 Straw Hat Pizza Palace 277-7992
Italian Restaurant Corp 277-7992
5613 Clairemont Vacuum & Sewing Center sls & repr 277-8667
5615 Alltime Inc sls & serv watches 560-0488
5617 Blarney Stone Pub 279-2033
5621 Genesee Pet Clinic hosp small animals 278-1575
5631 Balboa Coin Operated Laundry 571-9926
5635 Melanga Sons Shoe Repair 576-1251
5639 Great Escape video games 571-9085
5643 Red Carpet Realtors 279-8500
5647 Pleasant House Of Natural Foods health foods 278-5853
5651 Coiffure Chic 277-3780
5657 Balboa Cleaners 278-1171
5661 Balboa Office Supplies 268-4555
5663 Fashion Conspiracy womens clothing 292-4192
5667 Licorice Pizza Music Store records & tapes 560-5898
5671 Goodies Hallmark card & stationery goods 560-8179
5675 Yardage Town yd goods ret 279-5270
5685 Long's Drug Stores 279-2753
5790 Dill's Union Service 292-7965
5808 Fotomat Corp Store Forty-One photo developing 565-8313
5810 Vacant
5825 Home Federal Savings & Loan Assn (Clairemont Ofc) 565-8262
5851 Bank Of America Natl Trust & Sav Assn 230-5956
5901 Farmers Insurance Group 560-8888
5909 Dawson Escrow 277-9851
5911 Home Fed Savings & Loan Assn (loan dept clairemont annex) 565-8335
5915 Allstate Insurance Co 279-1200
5917 Weight Reduction Medical Clinic 292-9600
5920 San Diego Trust & Savings Bank 238-4895
5921 Chief Travel Of San Diego Inc travel agcy 560-1488
5923 Accent Carpet 560-4097
5925 Farmers Insurance Group 560-7548
5927 Vacant
5933 Realty Executives Inc 278-6400
5935 Clairemont Coin Exchange 565-8900
5937 Smith Mason & Associates resumes serv 565-2900
5939 Anthony Schools Of San Diego real est 560-6511
5941 See's Candy Shops Inc 279-0260
5945 Yardage City dry gds 292-5525
5947 Vacant
5949 Vacant
5951 La Espiga De Aro restr 292-7850
5953 Vacant
5955 Bob's Big Boy restr 571-9365
5980 Stuffy's Family Restaurant 565-1475
6050 Seaside Buick Inc sls & serv 565-1911
6066 Jack's Auto Center gas sta 279-2062
MT ALIFAN DR ENDS
MT ABERNATHY AV BEGINS
6125 Pro-Auto Service Exxon 278-3900
6130 A M-P M Mini Mkt Arco Serv gas sta 292-0991
6133 Giovanni's Restaurant 278-9191
6133a Vacant
6133b Gietzen Robt J dentist 565-4636
6135 Balboa Crest Shopping Center
International House Of Pancakes 277-4791
6137 Dean's Photo Service fnshrs 279-2931
6139 Crest Balboa Liquor ret 277-4500
6143 Rustic Inn restr 565-1961
6147 Pixie Ceramic Studio gift shops 565-1234
6155 Radio Shack 279-5041
6159 Balboa Crest Veterinary Clinic 277-3665
6163 Balboa Music Center 279-6152
6167 Morris Plan Co Of California loans-salary & collateral 279-6675
6171 Faessel John L Dental Group 277-7785
6175 Technicolor One Hour Photo 268-8888
6179 Payless Shoesource 268-4830
6181 Haircut Store
6185 Golden State Fabrics dry goods 278-8072
6391 One Hour Martinizing 277-4565
6393 Clairemont Surf Shop surfboards & skateboards ret 292-1153
6395 Powerine gas sta 571-9516
6397 Pet Center Aquariums
MT RIAS PL ENDS
6401 Burger King Corp restr 279-2734
6433 Vacant
6545 Wells Fargo Bank (Balboa Av Ofc) 238-6415
6465 Office Building
Suites
A Pace Setter Stereo 560-4800
B Emergency Medical Clinic Of San Diego 292-1100
C Computer Concepts data entry serv 277-2709
D Immunological Associates Of San Diego clinical laby 569-9270
6555 Balboa Avenue Alliance Church 278-6266
Living Preschool The 278-9620
6565 Balboa Mesa Dental Building
Horn Dennis E dentist 279-2122
Horn Jayne F Mrs dentist 279-2122
Apartments
C★Warren W J
D Rupp John E 571-2830
E★Thomas E
F★Reid E A
MT ALBERTINE AV ENDS
CANNINGTON DR BEGINS

369

MT ALBERTINE AV ENDS
CANNINGTON DR BEGINS
6991 Schweitzer Albert E Sch 278-7470
HATHAWAY ST ENDS
CHARGER BLVD BEGINS

659

INTERSTATE 805 CROSSES
7620 Family Fitness Center spa & gym 292-5539
7637 Reuben's Plank House restr 278-7373
7647 Shell Service Station
7725 Gemco Membership Department Store 292-1660
Ackroyd Archie M optom 292-7193
7727 Gemco Pharmacy 292-5535
7731 Digas gas sta
Tune Craft serv cntr 565-1615
RUFFNER RD INTERSECTS
7737 Balboa Food Mart 571-3602
Texaco Servie Station trailer rentals 571-3602
7763 Color Tile Supermart bldg matls 292-7501
7766 Cameron Bros Construction Co Inc genl contr 278-3050
7767 Sleep World mattresses ret 278-8870
7777 Cantor Tire Co gas sta 560-8473
7786 Jack-In-The-Box Restaurant 560-2015
CONVOY ST INTERSECTS
7804 Cookin Taco's restr 292-5754
7807 Balboa Union Service gas sta 277-0204
7813 Power Tool Rental Co No 2 pwr producing mach rentals 277-8989
7815 Taco Bell No 117 restr 278-1190
7820 Jolly Jug liquors 279-1080
7827 Kearny Mesa Yamaha motorcycles sls & serv 292-5454
Kearny Mesa Yamaha Race Line motorcycle racing info 292-1094
7829 Kearny Mesa Welding 292-1912
7840 Sir George's Smorgasbord 277-0411
7841 Balboa Office Limited 274-2251
Rooms
101 Davco Company The janitorial serv 278-2761
102 Armed Forces Benefit & Aid Assoc (Serv Center) 565-9303
103 National Inventory Source bus serv
104 Qualtronics electronics 560-8955
104 Mintz Ezra Associates sup & equip electronic 565-4921
105 Vacant
106 Vacant
107 D'Agnessa Insurance Agency 279-5955
108 Whidbee Associates security consultants 277-7444
110 Professional Resume Service 569-6929
201 Vacant (Rms 201-204)
205 Mahon & Associates engineering consultants 268-4526
206 Vacant
207 Elsco Electronics Inc 292-1771
208 Gibbs Flying Serv (Data Processing Annex)
209 R C Service Stations (Ofc)
211 Sylva Machinery Co 268-0553
215 Info Bit custom software 565-1738
7853 Burks Electronics Inc electronic engs 279-6010
B P I audio test instruments mfrs 279-3344
7860 Mutual Leasing Corp automobile 565-9191
Mercedes Benz Of San Diego autos 279-7202
7865 Ceramic Tile Institute industry promotion 277-3121
7903 San Diego Sports & Imports auto sls 571-5655
7905 Western Tile & Accoustic Engineers contrs 278-6300
7915 Park Tile Inc tile ceramic dlr 571-8855
7915a Ceramic Tile Institute 277-3121
7917 Vacant
7931 Balboa Veterinary Hospital 279-0425
7933a Micro Maintenance micrographics-repr specialist 569-9393
7933b Goodman W A & Sons athletic outfitters whol 268-8566
7935 Southern California Radiator 268-3662
7945 Carriage House cocktail lounge 278-2597
7947 Pasta Caffe The restr 569-0211
7959 Barbecue Pit C J's restr 278-1620
7961 Kearney Mesa Lodge (Loyal Order Of Moose) fraternal org 278-1938
7973 Perez Cove Marine sls & serv 560-0830
7993 Front-Line Of California auto dlr 571-2718
8009 Renzulli J W Inc genl bldg contr 565-4743
8011 Anderson Electric contr 232-8833
8015 Renco Mechanical Inc contr 279-1220
8027 Brownie's bar & grill 565-6464
8039 A B C Wheel & Frame Service truck & auto repr 277-8038
Jalisco Body Shop 278-0030
8039½ Kolbeck J Farris @ 278-7504
8063 Kearny Mesa Radiator auto repr 277-2030
8081 Scheib Earl Auto Painting 565-1182
MERCURY ST INTERSECTS
ZIP CODE 92123
INTERSTATE 15 INTERSECTS

143

KEARNEY VILLA RD INTERSECTS
8611 Kyocera International Inc ceramic electronic mfg 279-8310
General Dynamics (Eng Div Ofc)
8615 Kyocera International (Ofcs)
8650 Digital Development Corp memory sys for computers 278-9920
Teledyne Ryan Electronic Co mfg 560-9400
8775 Inamori Classic Tournament (Ofc)
8788 State Compensation Insurance Fund workmens compensation ins 560-1600
B West Coast Projections Inc audio visual production servs 560-4313
8797 Kierulff Electronics Inc distr 278-2112
8799 Metermaster meter mfrs 560-4841
8804 General Dynamics (Electronic Div Ofc)
8808a Vacant
8808b Solitron Devices Inc electronics mfr 278-8780
8835 San Diego City Industrial Park
Office Building
Suites
A Maxwell Laboratories Inc research laby 268-8274
B Maxwell Laboratories (Ofcs)
C Scientific Atlanta Corp (Plant)
D Scientific Atlanta Corp (Special Contracts Div) 268-7200
E Scientific Atlanta (Plant)
F Spectral Dynamics (Plant 1)
8855 Office Building
Suites
A Manpower (Ofc)
B Manpower temporary employment servs 565-2515
C Manpower (Ofc)
D Southwest Administrators 277-3812
E Manpower (Ofc)
F Manpower (Ofc)
G Manpower (Ofc)
8859 Office Building
SUITES
A Lesair Inc (Stge)
B Lesair Inc (Stge)
C Lesair Inc plastic injection moulding 279-6531
D Lesair Inc (Annex)
E Lesiar Inc (Annex)
8861 Office Building
Suites
A Lynx Information Systems computer serv 576-1128
B Zest Anchors Inc dental equip & sups 292-8315
C Child & Family Counseling Center restore cars 569-9208
C Balboa Custom Auto Body 560-9689
D Temp-Tronix plastics mfrs 277-9520
8861 Coast Laminated Plastics 292-7554
8863 Office Building
8863a I-Bus Systems electronics mfg 569-0646
8865 Office Building
SUITES
A Big Red's restr 277-7575
E Exhibit Store The display designers & producers 268-1114
F Exhibit Store The (Annex)
G Clemick Neenan & Associates electronic parts 268-8540
H Balzer Wolf Associates electronic sls 292-5946
H Analog Devices electronic parts sls 266-4621
8869 Office Building
Suites
A Presser Riley J Concrete Contractor Inc 560-5365
B Presser Riley J Concrete Contr (Ofc)
C Haskel Engineering & Supply Co indus hydraulic mfrs & distrs 279-1685
D Precision Tool & Die (Div Terry Crafts Enprse) mach 278-0650
8869 Terry Craft Enterprises Corp mach shop 277-0707
E Accurate Machine & Tool Inc mach shop
8871 Office Building
SUITES
A Air Vehicle Corp (Auxilary Ofc)
B Air Vehicle Corp (Auxilary Ofc)
C Air Vehicle Corp (Auxilary Ofc)
D Air Vehicle Corp (Auxilary Ofc)
E Air Vehicle Corp (Auxilary Ofc)
8873 Air Vehicle Corp precision mach shop 279-3325
Technology R & D Corporation aerodynamic research-develop 277-0664
8885 Ninety Fourth Aero Squadron Restaurant 560-6771
8888 Carbide Corp (Crystal Prods Electronic Div) electronics equip & sups mfr 279-4500
8911 Scientific Atlanta Corp (Dynac Div) 268-7347

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Balboa Ave 1984

INSURANCE SERVICES
Founded in 1875 Suite 300, 770 B Street Phone 232-8171

BALBOA AV—Contd
9020 Conic Corp electronics 279-0411
Terracom Division Of Conic Corp telemetry mfrs 279-0411
Loral Electronic Systems 279-3542
9045 Wavetek electronic 279-2200
9106 Jet Products Corp mach shop 278-8400
9110 Maxwell Laboratories Inc (Ship & Rec)
9150 Mc Kesson Drug Co 278-7121
PONDEROSA AV BEGINS
9212 Humphrey Inc electro mech instruments 565-6631
9233 Cubic Corp (Mfg Facility) 277-6780
Cubic Western Data (Ofc) 279-7400
9244 Maxwell Laboratories Inc (Research & Dev) 279-5100
9284 Dept Of Navy (Naval Sea Support Center) 255-5346
Naval Undersea Warfare (Eng Sta) 225-5346
9293 San Diego Fire Dept (Training Towers)
9330 Foodmaker Inc caterers 571-2121
Continental Restaurant Systems restr oprs 571-2121
Jack-In-The Box Inc restr oprs 571-2121
9333 Cubic Corp (Corp Offcs) elec mfgs 277-6780
RUFFIN RD INTERSECTS
9404 Foodmaker Inc (Annex)

565
BALBOA ARMS DR —FROM 4400 DERRICK DR EAST

ZIP CODE 92111
5150 Fiesta Apartments 571-0104
A1*Monroe M L 292-5468
A2*Sylwester D
A3 Zika J Michl 560-2045
A4*Wells Nelson
A5*Schretzmann A J 569-7057
A6*Gallien Joseph A 571-7646
A7*Larson Dale L
A8*Salazar M
B1 Robinson Gertrude 560-9746
B2*Phelps Wm G
B3*Resnick J
B4 Lawler Matthew 278-8846
B5*Lee John E 560-4790
B6*Sharpe D
B7*Scheevel Douglas
B8*Pollard Wayne 279-4561
C1 Sheea Tom 571-0104
C2*Charon Richd 268-8125
C3*Maggetti Maryann 571-5872
C4*Laury Robt
C5*Dennis Melvin 565-0831
C6 Vacant
C7*Stagnaro Steven 569-0863
C8*Sanchez Francisco
D1*Hill Natalie
D2 Vetica Alex R 560-1425
D3*Vetter T
D4*Sandness Mike
D5*Fort E 566-2402
D6 Dorfner H Mrs 571-6241
D7*Cannon J A
D8 Vacant
D9*Noe Rick
D10 Harlan Dan W 292-6135
D11*Shimp Vince J
D12*Kasper E
E1*Northup Jim
E2*Krapausky K
E3*Bectjos Ronald J 279-8087
E4*Hanks Guy R
E5*Sayers P
E6*Schroer J
E7*Jahn Vicky
E8*Beemann Jay
E9*Armist Juliet 279-7339
E10 Augst Michl W 571-6887
E11*Minguillon Robt
E12*Foster Diane E 279-1942
F1*Roche Maria 292-5792
F2*Kian P
F3*Matta S
F4*Sellers B
F5 Vacant
F6*Brauer Joanna 298-9271
F7*Battaglia J P
F8*Nose L
F9 Vacant
F10*Gudino T
F11*Wilson B
F12*Sarabakhsh Mort 279-9661
F13*Stein Gregory S 279-6847
F14*Vigil Al J 277-8793
F15*Griv Jack L 571-8992
F16*Thorton M
F17 Vacant
F18*Golden Tammy
F19*Perley B
F20*Beker R
G1*Bartley M
G2*Ewing C
G3*Roux G
G4*Deese Wayne 277-9755
G5*Williams Donald R 292-4970
G6*Smith S
G7*Lewis M
G8*Ward S
G9*Mayhew D
G10*Jameson V 560-1171
G11*Kells Roger
G12*Christ Paul F 278-8532
5188 Park Place Apartments 279-1455
A1*Smith Robt J 571-6244
A2*Pappas W
A3*Smith C
A4*Garland Mike
A5*Mc Nabb C
A6 Vacant
A7*Freese D
A8*Oku Tadashi
A9 Hicks Annette D Mrs 292-1897
A10 Dixon Earl
A11 Vacant
A12 Majors Vicki M 268-3909
B1*Gregory P
B2*Hardy A
B3*Barbleux Brian 268-8849
B4*Starbard Paul R 278-8770
B5 Manjarrez Hector M 279-9836
B6*Garstang David
B7 Davis
B8 Vacant
B9*Mc Elveny J
B10*Gilpin Mike
B11*Daring Barbara
B12*Willis E
C1*Sachs Henry 278-5188
C2 Corona Robt P
C3*Guzman G
C4*Funk J
C5*Fuller F
C6*Perkins R
C7*Dacascos J
C8*Metzler Robt L 278-9540
C9 Vacant
C10*Flack C
C11*Milan David 279-4164
C12*Hewitt E
C13*Lang Lois
C14*Pierce G
C15*Minton M
C16*Beaudine S 279-4716
D1*Limons C
D2 Herdeg Harold L 268-4283
D3*Noel R
D4 Garstang R E 278-6457
D5*Young O
D6*Hanes P
D7 Vacant
D8 Brown Jas P 278-7069
D9*Cook M
D10*Owens B
D11*Wong Richd
D12*Weighill J B 571-1458
5252 Sun'n Dale Apartments 277-3562
101*Mc Curley P
102*Barr Greg
103*Bradshaw J T
104*Jenkins T L
105*Stout Ronald 279-5238
106*Winter C
107*Zaidi Ramona 569-4901
108*Rinehart Richd P 571-2837
109 Smith Jane Mrs
110*Hyatt Robt F 278-4297
111 No Return
111 Day Deborah
112*Williams Lloyd R
113*Wilmarth Doug 569-9456
114*Sampley Chas
115 Register Zelma C 279-0212
116*Gholson Mildred Mrs 279-4202
117*Roddy Jean M 277-7670
118 No Return
119*Grissom O L 569-9131
120*Shelvik Norman
121*Westray M
122*Mayer H
123*Flint E
124*Gaynor Michl G 279-7341
125*Nejat Mehran 268-0125
126*Campa Jose 268-3041
127*Livingston M
128*Markworth Robt 278-0186
129 Dwyer C 278-1291
130*Garcia Miguel 571-6308
131*Quintanar Javier 278-9348
132*Weber Glen R 279-3827
133*Koval Ladislad
134*Olsen Greg 278-7342
135*Avenetti David 565-8365
136*Rodrigues R
137 Vacant
138*Hedblad Margo 277-7062
139*Dyke John 569-6741
140*Buehler Chas A 277-8587
141 Williams Lloyd R 292-0785
142*Lockard K
143*Larson Sandra K 569-0919
144 Risk Management Advisers Inc 569-6693
144*Whitney Edw A
145 Vacant
146*Majchrowicz David J 569-1474
147*Jackson T
148*Hading Steven
149*Keugh G
150*Dunmire Jeffrey 279-7243
151*Groover Joel A 576-1239
152 Vacant
153*Emmons B
154*Karas Lynn 560-9802
155*Keeth John 277-6025
156*Giacalone Chas 571-3190
157*Miller Gail 560-5330
158*Petrovich David J 569-8613
159*Van Sky John
160*Boyd John C 277-9109
161*Keffl Donna R 292-5453
162*Wiederholt Joseph V 278-2265
163*Pearson Mark 560-7020
164*Wise R
165*Breddell P
166*Thomas Tom
167*Davis W
168*Robbins Kenneth D 292-5793
169*Camito B
170*Batten Fred
171*Clingman John 258-9789
172*Bazel Vahid 277-1960
173*Cook Robt B 279-5277
174*Eichman D
175*Thornhill B
176 Ferry Lesta M 560-7146
177*Ramiriz M
178 Van Gundy Chas C 279-0178
179*Young Thos S 278-4225
180*Smith Alan L 279-4171
181*Brughell James H 569-0779
182*Nelson Thos C
183*Zinky Diane M 278-2044
184*Clark T J 279-0173
185*Phillippi J
186 No Return
187 Graham Jane A 279-6142
188 Randall V 576-0044
189 Buckwalter Norman R 298-2964
190 Aizeman Freida 560-9794
191*Jackson Matt 271-6256
201*O'Donell Mary P 560-8707
202*Hays Larry 279-5972
203*Emmons Dana
204*Daroogar Sohair 576-1276
205 Garcia Jose M 560-9653
206*Hall Michelle
207 Vacant
208*Garcia J
209*Cramer K L 296-9668
210*Johnson Willy 277-7081
211 Vacant
212*Ciccone P
213 Vacant
214*Thompson J
215*Hammond Leslie
216*Glapa Greg
217*Cummings M
218*Rozema James S 278-7899
219*Sheldon Robt
220*Brown Chas B 277-1192
221*Murao Hitoshi 571-1606
222*Takazawa Kuniya 571-1104
224*Bellezar Felipi 292-1143
225*Clark Curtis L 277-6856
226*Elinoff S
227*Cummings Paul R 576-0328
228*Clouse Dan 278-3697
229*Russell Kathy
230 Vacant
231*Watson Archie 569-6763
232*Gray N
233*Lane R
234*Morales Forhay
235 Baldwin Hilda D
236 Vacant
237*Yamamoto T
238*Johnson Michl
239*Clements D
240*Barrett Geo 292-9087
241 Vacant
242*Disenjomo L
243*Blankenship Greg
244 Plumer Sara
264*Davis O
265*Stahl C
266 King Danl
267*Hagler Arnie J 277-6517
268*Gorman Robt J 569-9383
269 Parmenter Annie
270*Baker J
271*Wutherspoon John 277-6326
272 Wells Cathy 571-3165
273*Mendoza Rey 279-7870
274*Veihl Richd E 571-5778
275 Plummer Lynn M
276*Kauvar David 569-1624
277*Prell L
278 Shonkwiler Jerry
279*Mc Lain M
280*Higbee P 277-0196
281*Garber Joseph 560-7774
282*Izumi K
283*Vernette M J 279-4355
284 Albers Wm H 278-0450
285 Vacant
286 Entwisle James
287*Canfield E V
288*Aranda Carmen C 277-0221
289 Yasui Arth 569-0834
290*Greenburg P
291 Stewart Cynthia 278-0149
5402 Apartments
301 Vacant
302*Cady K 278-7643
303*Rice B
304*Reese C
305*Schumm Theresa E 576-0108
306 Martin Norman R
306 Bernstein Danielle M Mrs
307*Martinez Cecilia
308 Troy G L 279-6314
309*Gradin Vivian
310*Lawson Greg
311*Caudill G
312 Simental Ron 277-9683
313*Price T
314*Nomi G
315*Jordan Laura
316 Moran Michl
317*Cantrell F Clark Jr
318*Gaines Larry
319*Puchacz Jerry 277-0243
320*Dunham M C
321*Kees Thomas O 576-1774
322*Wuneburger R L
323*Ruffino Theresa A 565-2106
324*Magana Therese 277-6290
325*Laughrin J
326 Armenta Dennis R 279-7081
327*Easter Lamont 569-4926
328*Leonard N
329*Wentworth J
330*Jordan L
331*Miyamoto N
332*Hughes Thos M 569-1529
333*Montoya Henry 571-7658
334*Williams Alphonso
335*Kosova D
336*Blurton Ray 565-1422
337*Carlson Dave 571-8532
338*O'Reilly S
339*Urnas Sostenes
340*Eastman A J
341 Mallett Connie 560-5860
342*Montes O
343*Deterin Patk
344 Vacant
345 Comstock Frank H 279-9420
346*Kincaid Judy
347 Matina Wm S 560-8017
348*Hernigle Ronald A
349*Galvan R
350*Wiles Saml L 278-8636
401*Dornberger Judy 576-0688
402*Dornien David 292-9395
403*Davidson T K
404*Montejano Richd
405*Jolley L
406 Faulk Fred A 279-9345
407*Pinta C
408 Vacant
409*Benson Holly 277-9164
410*Shaw R
411*Mann J
412*Knight C
413*Cannon Mary
414 Holtt
415*Miller L 278-8534
416 Smith Dennis E 279-3230
417*Clark W T 278-6423
418*Nevins G
419*Recard Mary
420*Vargas A
437 Vacant
438*Christensen L
439*Jones N
440*Schmidt Theo 560-8019
441*Johnson J
442*Thomas Wm 576-0401
443*Drake W
444*Smith Dwight
445 Bohn Danl 268-0479
446 Tomlinson Patk K 278-0372
447 Vacant
448*Baldwin S
449*Gallagher R
450*Connolly A
5404 Apartments
351*Maruto O
352*Howell F
353*Melvin J
354*Lynch M
355*Mayberry E
356 Pappacosta John D
357 Conyer Jon 279-9486
358*Gayatinea Reynaldo E 278-0309
359*Hodges Jeff
360*Custer M
361*Crowe Michl X 277-5162
362*Hall Thos 279-2853
363*Wright D
364 Roach Lew 571-5062
365*Underwood M
366*Baker Christopher E
367*Carr Chas 278-1225
368*Druett P
369*Elliott L
370*Sanford R
371*Fioer Al 569-0743
372*Ward S
373*Wallace M
374*Kelly Melvin
375*Villanueva Richd 277-2329
376*Horsley James R 571-0654
451*Cunningham R
452*Pintado N
453*Foster D
454*Winfree Jeff 565-1038
455*Taylor Harold
456*Amantea L
457*Taylor R
458*Birnbaum Tara
459*Borlaug M
460*Lamboin P
461*Peters S
462*Koba I
463*Fast Anne
464*Conrad Debbie
465*Douglas L C
466*Roth Phillip 278-4966
467*Arevalo Luis E 277-7136
468*Martinez J
469*Delgado L
470*Royal James D
471*Kleis Keith A 279-3409
472*Dekerguelen L
473*Timmons S
474*Areno P
475*Groth S
476*Baltazar Ernest 292-9144
5544 Garden Apartments 278-5862
BUILDING A
A1*Aeria Warren A 278-4054
A2 Johnson Wm H 569-1761
A3*Issa Ahmad 268-9810
A4*Tawney Michl J
A5*Mc Gowan T
A6 Cain Dave
A7*Capelotti Dean 569-8393
A8*Book Pamela
A9*Biggers L
A10*Vargas Willie 569-6366
BUILDING B
B1*Robinson D
B2*Palm Michl D 277-2976
B3*Moradi Hamid 565-4524
B4*Smith A
B5*Piccininno Thos F 277-0576
B6 Vacant
B7*Kary V
B8 Dixon Anne V 292-5309
B9*Mc Cauley A
B10*Godwin Kareem 569-8446
B11*Loflen P
B12*De Sautels R

Alan Johnson Porsche Audi, Inc.
SALES • LEASING • SERVICE
3663 ROSECRANS AT SPORTS ARENA (619) 225-9373

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

GENESEE AVE 1984

3642 Enterprise Street (Near Pacific Hwy. and Barnett St.) Phone 224-8271

ALLEN MUFFLER & BRAKE SERVICE, INC.
(SEE AD IN BUYERS GUIDE FOR MAP)
fin Rd., San Diego, CA. (92123) Tel. (619) 277-2010

GAYUBA LA—Contd
10150★Soha Sujit
10155 Dissing Paul W 571-8898
10160 Vacant
10165 Cravens Robt L 292-5026
10170★Brunner Frank C ◎ 277-7925
10175 Vacant
10180 Vacant
10185 Beerdsen Elbert J 292-0389

27
GEARING DR —FROM 3050 BARNETT AV NORTH

ZIP CODE 92110
2601 No Return
2603★Arnett Kevin S 222-5590
2605 Orcino Ernesto A 224-5618
2607★Merryman Gary
2611 Conklin Ronald W 222-3544
2615★Jefferson Fannie D 222-8168
2617★Wallace James
2619★Shirey Steven E 223-8381
BLAKELY DR INTERSECTS
2701★Talledo Juan
2703 Van Buskirk D Bruce 225-9736
2705 Hart David W 222-3566
2707★Tatum Tony W 224-0695
2711 Vacant
2712 Cortese Robbin P 222-3343
2714 Calip Florencio
2715 Justice Jimmy L
2716 Wolff J S 223-7571
2717 Martino Vicente 222-5011
2718 No Return
2719★Anderson Arth M 223-9608
2721 Cook Kelly
2722 Mask John E 223-5158
2723 Allen Timothy R 222-8301
2724★Clark Larry 224-5592
2725★Davis Larry 222-7040
2726★Gumpky Roland
2727★Melendres Pablito 226-8657
2728★Humphreys J D 226-2529
COLE DR INTERSECTS
2801 Sizemor Nathl 222-7170
2802★Batista Raol 222-2857
2803★Kerrigan Patty 226-6947
2804 Thompson Douglas A 223-3249
2805★Di Palermo Richd
2806★Devanti Michl
2807★Conway Foster Jr 222-6813
2808 Orozco Gilbert
2811★Belcher Billy 222-2465
2812★Delacruz Pacifio
2814★Stevens Geo 224-6312
2815★King Robt
2816★Kilgore Jimmy 222-9559
2817 Joiner Thos W 224-4292
2818 No Return
2819★Baker Robt
2821★Gregg Charlton H 222-5201
2822★Rogers Jean
2823★Deguzman Athene D 226-3064
2824 No Return
2825★Jones Calvin 225-0471
2826★Bywaten Rummel 224-2496
2827★Jcornejo Josey 222-2450
2828 Davis Sam 222-7510
2832★Clark Edwin S 222-3706
2834★Poling Melvin D 223-4912
2836★Taney Michl 223-3827
2838 Mc Ginnis Robt E 224-6970
2842 Aledia Edgardo
2844★Traylor Lance 222-7234
2846 Ditiangkin Bert S 224-8381
2848 Domaon Emmanuel E 224-4395

171
GEDDES DR —FROM 4400 HUERFANO AV EAST

ZIP CODE 92117
3241★Smith Mary M Mrs
3247 Savelli Joseph F ◎ 270-3960
3248★Garcia Sheryl ◎ 272-8497
3253 Ross Barbara J ◎ 270-3267
3254 Sumner Cline ◎
3259 Weisenberg Saml ◎ 273-4549
3260 Goodman A B ◎ 273-2422
3265 Cappello Bud ◎ 272-6202
3266 Temple Era ◎
3271 Fuson Pamela 270-3418
3272 De Reamer Pete ◎ 275-2138
3279 Willan Robt F ◎ 273-3596
3282 Mc Quade Mary E Mrs ◎ 273-1035
3285 Eaton Dorothy G Mrs ◎
3291 Lincavage Leonard J ◎ 273-6658
3297 Bringas Salvador ◎ 273-5483
KAMLOOP AV INTERSECTS
3301 Crabtrey Odis O ◎ 274-6104
3311 Mc Fadden Robt D ◎ 273-5699
3323 Walter Joseph L ◎ 273-6422
3337 Gutierrez Virgil B
LA CROSSE AV INTERSECTS
3351 Barke Wm P ◎ 276-8798
3369 Monschein Mary
3381 Finney Charles E ◎ 272-2476

243
GEM LAKE AV —FROM 7600 FLAG LAKE DR NORTH

ZIP CODE 92119
6402★Meyers Robt W Jr ◎ 463-2261
6414 Johnson F C
6426★Catz Julius
6429 No Return
6438 Mac Cullough Craig C 464-8723
6441 Ashmore Robt L ◎ 461-4075
6450 Lear S E ◎
6453 Luitjens Robt H 461-9462
6465 Kniebbe Roy T ◎ 465-1179
LAKE ADLON DR INTERSECTS

305
GEMINI AV —FROM 10900 HYADES WAY EAST

ZIP CODE 92126
9025 Holtz Gunter E ◎ 566-7747
9035 Stepek C W ◎ 566-2116
9045★Howell P
9055 Repaci Edw L ◎
9065 Benham Eric V ◎ 271-0641
9069 Zelechawski Hubert ◎ 566-4051
LYRA CT BEGINS
9073 Killpack Russell K ◎ 271-5514
9077★Costales Lito ◎ 566-2217
9081★O'Connor Thos K ◎ 578-9728
9087 Vacant
9093 Williams Gavin E ◎
PEGASUS AV BEGINS
9109 Ferrer Warlita Mrs 566-9609
9123★Aspacia Aurorita G ◎
DRACO RD ENDS
9137 Arquello Walter S ◎ 271-7624
9151★Zeigler Donald L 578-1504
9165 Philyaw Chas ◎ 578-7524
9179★Ros Jose C
9193 Hirst Paul M
9205★Knock Melvin R ◎ 271-4736
9223 Tolentino Felino S ◎ 566-7864
9241★Van Skylie Judi
9259 Cueva Ernesto ◎ 695-3875
9277 Vacant
9295 Trentacosta Harry ◎
BLACK MOUNTAIN RD INTERSECTS

197
GENESEE AV —FROM 2750 KEARNY VILLA RD WEST THEN NORTHWEST

ZIP CODE 92123

139
ZIP CODE 92111
LINDA VISTA RD INTERSECTS

695
4089 Kragen Auto Supply 278-6570
4091 Seven-Eleven Food Store 292-1161

495
ZIP CODE 92111
4101 Salazar Taco Shop restr 571-9352
4102★Pinz R M 569-6436
4104 Bingham Beatrice T 292-4832
4106 Sutter Bernice Mrs ◎
4108 Gaddy Richd E 279-4953
4110 Horton Ella Jean 571-7946
4112 Clarke Billie 292-7926
4114 Vacant
4116 Starnes Carl V ◎ 278-5578
4118 Lewis A
4130 Straub Wm E Jr ◎ 277-9426
4132 Freter L Ernest ◎
4134 Collias Robt S ◎ 278-8744
4136★Satler Larry 576-0763
4138★Levanti John C 576-0543
4140 West Raymond R ◎ 279-3957
4142 Abell James M ◎ 278-8751
4144★Demarst Donna G ◎
4146 No Return
4160 Somers Howard B ◎ 279-2018
4162 Bury Joseph J ◎ 277-4246
4164★Ellis Kerrie 268-8975
4166 Boles S A ◎ 571-0576
4168 Stair Lucille ◎ 268-4123
4170 Campbell Gerard 292-1258
4172 Glickman Robt E 278-0343
4174 Root Beaver L ◎ 565-7577

493
ZIP CODE 92117
BALBOA AV INTERSECTS
4202 Genesee Building
Rooms
100 Beneficial Finance System 278-4261
Beneficial Income Tax Service Of Calif 278-4261
2dfl Vacant
300 Vacant
302 Vacant
305 Vacant
309 University Profesional Placement Agency emp agcy 278-1361
311 Vacant
401 Vacant
402 Vacant
403 Rithysorn R phys
404 Ford Headache Clinic phys 279-2622
408 Vacant
409 Kunzman James D phys 277-4770
STREET CONTINUED
4204 Gordon Saml S optom 560-5181
4206 Poor Henry's Beauty Salon 278-2621
4210 Vacant
4225 California First Bank (Clairemont Ofc) 230-4470
4239 Sergio Enterprises variety store 260-0400
4251 Bicycles N Stuff 565-6522
4255 Spa Lady women's gym 292-9669
4259 Vacant
4265 San Diego Federal Savings & Loan 292-5861
4267 Berek's Hallmark Shoppe greeting cards 560-8101
4271 Crown Beauty Supply 292-7696
4275 Windy's Flowers 279-5963
4277 Picnic'n Chicken prepared foods 565-6755
4279 Trip West The gift shop 268-8444
Trip Tickets The tickets agcy 268-3838
4282 Clairemont Medical Surgical Center ofc bldg 268-1111
101 Newton Wayne I phys 292-4884
101 Laufenberg Henry J Jr phys 292-4884
102 First Brian P phys 292-0108
Ritchken Simon M phys 292-0108
103 Brodish Jerome H phys 244-1111
103 Feldman Gary phys 560-7677
104 Foster Dean J phys 569-8100
De Anza Surgical Medical Group 292-0125
201 Bench Robert K phys 292-0125
201 Knotts F Barry phys 292-0125
201 Llorente Jorge phys 292-0125
202 Han Sharon phys 268-3744
203 Vacant
204 San Diego Urological Med Group Inc 268-1013
204 Dykhuizen Robert F phys 268-1013
204 Keiller Danny L phys 268-1013
204 Moseley Wm G phys 268-1013
301 Davidson Paul L phys 292-0237
301 Hassidim Kamran phys 576-0616
303 Koenig Lawrence A phys 565-3694
304 Lipsitz Jack E phys 560-7879
304 Resnick Michl L phys 278-7820
304 Zeiderman Arnold M phys 569-8016
4283 Oshman's Sporting Goods 560-1262
4295 Honey Baked Hams deli 565-0865
MT ETNA DR INTERSECTS
4302 Wally's Mobil Service gas sta 277-5363
4303 Theles-Self Service Shell 560-9725
4385 Vacant
DERRICK DR BEGINS
4411 Balboa Plaza shopping center
Jimbo's Liquor & Deli No 1 278-6440
4415 Mister Best Dry Cleaners 278-1050
Rug Doctor Rents carpet clnr
4417 Security Center locks 278-7813
4421 Balboa Pizza Place 560-1961
4423 Avco Financial Services 292-6221
4425 Player Piano Co Of San Diego 569-8721
4427 West Coast Hair Studio barber 278-3281
4429 Farmers Insurance Group 560-4743
4433 Genesee Maytag Laundry self serv
4439 Thrifty Drug Stores 292-9396
4441 Safeway Stores Inc gro 279-2332
4443 Crown Books 560-6313
MT FORAKER AV INTERSECTS

191
CHICASAW CT ENDS
SAUK AV BEGINS
4690 Haag Russell E dentist 278-8434
Barton Wm A dentist
Berman Nolan S phys 560-5566
Dixon Howard R dentist 560-5353
Hurst Thos L dentist 560-9696
Kutnik Leonard A phys 560-5566
Zielinski Frank K dentist 279-2226
Liebig Richd J dentist 560-5353
4801 Childers Charles ◎
4802 No Return
4811 Stoike Florence E ◎
4812 Krueger Albert R ◎
4821 Schlater Jack R ◎ 270-2270
BANNOCK AV INTERSECTS
4850★Pearce Dale 272-3027
4852★Warren Murray D 274-3450
4860★Lecuong T 274-7580
4862 Flores Nicolas 483-4758
MANITOU WAY INTERSECTS
CLAIRMONT MESA BLVD INTERSECTS

567
CLAIREMONT MESA BLVD INTERSECTS
CONRAD AV INTERSECTS
4921 Weathers Terry A ◎ 274-4382
4930★Wetsel R ◎ 483-7390
4931 Shambo Edw G 270-7953
4940 Mc Crackin Clyde F ◎ 274-0968
4941 Nolan Mike
4950 Kovacevich Paul F ◎ 273-3475
4951 No Return
4960 Hucke Lynne C Mrs ◎ 274-1077
4961 Hallfarth Walter H ◎ 273-5860
4970 Heath Herbert C ◎ 276-6388
4971★De Blouwe R ◎
4980 Paterson Richd R ◎
4981 Karns Gary ◎ 272-2622
5001 Crow Mary H Mrs ◎ 273-6305
5002 Orsos Irene C
5011 Mason N C Mrs 273-0297
5012★Klements Julie ◎ 270-6672
5021 Gray John D ◎
5022 No Return
5031 Cote John M ◎
5032★Gilbert Eric ◎ 275-2183
5041 Davey Donald E ◎
5042 Mc Girr Bette T ◎ 273-1837
5051 No Return
5052 Trapp Kenneth ◎ 272-7868
5062 Plush Richd H ◎

167
SAN CLEMENTE CANYON FRWY
INTERSECTS
APRIL CT BEGINS
RADCLIFF CT INTERSECTS

169
GOVERNOR DR INTERSECTS
CALGARY CT BEGINS

269
ZIP CODE 92123
A T & S F RY CROSSES
DECORO ST ENDS
8148 La Jolla Highlands Apartments
1★Hedberg Carmen 457-2186
2★Laughlin Dennis 453-8442
3★Willig Eric K 457-3709
4★Gustafson J
5★Kleinwachter J R
6 Lyford C 453-6931
7 Dabholkar Rajenda V 455-7869
8★Starkofsky W
9★Fisher Mike V 450-1917
10 Vacant
11★Mathias M
12★Schmid K
13★Feldman T
14 No Return
15 Schiel Rich
16★Kane Anthony 452-7980
17 Vacant
18★Hammond S
19 Schulman J
20★Harris A
21★Lustig Steven G 452-9431
22★Strickland Joel M 457-5231
23 Gradt Ken 457-3098
24★Kahn Colin 453-9308
25★Smolucha J
26★Carney M
27 Tanaka Terence B 453-7361
28★Jakiela Diane L 453-1506
29★Grier Sean 455-1553
30★Mansfield Thos D 457-4186
31 Reiher H
32 Hocklowski Jill 453-0416
33 Dorner Charles J 453-8979
34★Klessig R
35★Harris S
36★Brix James 450-9623
37★Hy G
38★Peeples K
39★Muren T
40 Dominiguez Rene 453-2856
41★Seymour M
42★Mc Mahon Martin 455-0833
43★Nelson Richd A 455-0142
44 Goodman Alan M 453-9388
45 Ingold Janice 455-6491
46★Katznelson R
47 Toney E A 453-9048
48★Smith Wm A 453-8413
49 Smith G T 452-8003
50★Flaxman Jamie 457-5612
51★Bosse T
52 Gildner Michl G 453-2482
53★Martin Tony 457-0220
54★Armstrong Thos E 452-0329
55 Vacant
56★Cerney Allene 452-5673
57★Rogers W
58 Wilson James C 452-7837
59★Phillips P
60★Chakravaris D N 457-5819
61★Pactiel Jeremy T 450-9085
62★Yamada Yukio 450-2143
63★Leach J
64 Kungelhefer
65★Evans M
66★Castillo J
67 Fox John R 453-0409
68 Quintana Laura R Mrs 457-2234
69 Tiglio Emma M Mrs 452-1788
70★Davis John 455-1429
71★Miller R Mark 455-7847
72★Maddalena R
73★Marmum D
74★Stewart Scott J 453-7828
75★Thomas Robt 450-9039
76 Nichols Robt G 457-4648
77★Long Barry P 452-0705
78★Richter B
79 Carter, Arvil E 452-8276
80★Harrison Kenneth A 457-5827
81★Wright H J 452-5827
82★Gragg Anthony G 457-0453
83★Coca Sathya M 450-0198
84 Zamar Aurora 453-2018
85 Mc Call M
86★Sparks M
87 Pruitt
88★Bullough D
89 Thurman Ray E 453-7138
90★Curlander K E 455-5368
91★Goshan Michl 453-8353
92★Choppel Traci J 455-9175
93 Sack Sandra J 450-1740
94★Ferrini C
95★Harmon R
96★Chiang Teh 453-5139
97★Mirzakhanian Nasrin 457-1721
98 Kristensen
99 Vacant
100★Marselian Manuel 455-6013
101★Lloyd Wm R 450-9724
102★Simoes P
103★Smith P
104★Davidson J
105★Chan Peter 450-0457
106★Schrameyer R
107★Prasad S A 455-9476
108 Helland Lyle 452-9914
109★Bauman E
110★George David M 453-1078
111★Halstad C
112 Aragon Ernie 455-9647
113★Smith R D
114 Shirley Graeme 452-9562
115★Duncan M
116 Lee Yutai 457-4761
117★Carrera C
118★Dyer A L 452-9399
119★Keogh J T 453-0496
120★Axtellin J 450-9410
121 No Return
122★Holliday Thos R 450-2163
123★Carnes David W 576-1188
124★Atkinson Donald D Jr 450-1690
125★Perrine Tom 450-4382
126★Earnshaw M
127 Maiolatesi Vincent 452-8208
128 Kraft John 455-6419
129★Burt Fred J 452-5093
130★Yan John 457-1342
131★Kangys R
132★Dickson Andrew G 452-9748
133 Lin
134★Fiyi Shinya 450-1406
135 Horowitt Gregory S 452-8821
136★Gartner David 452-9808
137 Salzman Bonnie 452-9911

S get Complete Information on E a person or firm.

MARTIN FINANCIAL LOANS CORPORATION
Mildred Martin / President
TEL. (619) 464-5022
729 GRAND AV. SPRING VALLEY, CA. (92077)

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MOUNT CASTLE AVE 1984

MT BLANCA DR—Contd
5268*West Dorothy @ 565-6683
MT ALADIN AV INTERSECTS
5306 Nielsen Carl
5320 No Return
5334 Decker Darrell D @ 278-4349
5345 Contreras Gilbert @ 292-1415
5348 Taylor Donald A acct @ 565-8423

495

MT BOLANAS CT —FROM 4900 MT ALIFAN DR SOUTH

ZIP CODE 92111
4051 Bernhardt Esther P Mrs @ 277-5659
4052*Vedel Bonnie @
4063 Tacoronte Gerald @
4064 Cumming Candy @ 571-0054

495

MT BROSS AV —FROM 5000 MT ALIFAN DR NORTH

ZIP CODE 92111
4051 Gajewski G @ 565-2976
4052 Muir Russell P @ 278-0418
4063*Norman Kevin G 571-3590
4064 Frost Bernard E @ 278-0443
4075*Lazowski Paul D @ 278-3667
4076 Galea Mike G @ 277-5446
4087 Broge Virgil @
4088 Lyon Robt D
MT ALIFAN DR INTERSECTS
4111 Leverett M Gene @
4123 Rotgans Len @ 279-2398
4126 No Return
4135 Johnson Reynold L @ 277-8702
4140 Sogge Duane J @ 277-7914
4147*Hernandez Jos M @ 268-8695
4154 Mc Donald James B @ 278-3268
4159 Stites John C @ 277-8248
4171 Perkins Jos W 279-7876
4183 Wheeler Edw B @

195

MT BRUNDAGE AV —FROM 5000 MT ARARAT DR NORTH

ZIP CODE 92111
3815 Nelson Nels J Jr
3825 Ames Mikle D @ 279-8532
3835 Mc Lean John S @ 560-5114
3845 Doepping R E
3855 Fisher Richd B @ 277-6660
3865 Lawson Thos O Jr @ 278-6360
3875 Bean Dwight R 565-1976
3885 White Stewart E 292-9272
3901 Dunn Danl P 560-8793
3921 Wright James H Jr @ 565-6176
3931 Callahan Michl W 268-3931
3941 Decesari Robt J @ 565-0172
3951 Tichneor Richd
3961*Rights Ted
3971 Gutzler Donna C Mrs @ 277-7082
3981 Wells Jettie L Mrs @ 277-3666
MT BLANCA DR INTERSECTS
4004 Nielsen Steph C @ 268-0168
4012 Mac Isaac Edw @ 560-4013
4020 Bentler Richd K @ 278-2471
4021 Preis Wm 560-7967
4029 Short Dean W @
4037 Robinson Regis M @ 278-7019
4040 Nayak Shankar K @ 571-0377
4045 Minch Kenneth E @ 278-9470
4052 Lee Ted W @ 279-7496
4053 Schneider Joseph F @
4060 Reindel John L @ 292-4268
4061 Laiuppa Anthony S @ 278-5552
4070 Crowley Dorothy F Mrs @ 277-0200

195

MT BURNHAM CT —FROM 5400 MT BURNHAM DR NORTH

ZIP CODE 92111
3502 Hutchins Erwin R @ 278-9178
3505 Stittsworth Joseph L @ 279-5987
3512 Edelblute David @ 278-0255
3515 Brennan John J @ 279-0879
3522 Bowdey Ruth M Mrs @
3525*Carolla Thos
3532 Wray Dudley C @ 279-6902
3535 Vacant
3542*Bates Elmer
3545*Andersen Kevin R 278-0403
3552 Britt John J @ 278-8537
3555 Sena James @ 279-4033
3562 Greene John @ 279-4707
3565*Tervort Terry C 277-8286

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MT BURNHAM DR —FROM WEST OF 3500 MT BURNHAM CT EAST

ZIP CODE 92111
5219 Hardaway Ernest H @ 278-7987
5220 Crumly Wm A 277-4628
5227 Robinson Chas F 278-6614
5230 Brown Buell L @ 569-8564
5235 Lawry Ray @ 571-1360
5240 Vacant
5243 Virissimo Zulmira R 279-1652
5250*Stevens Jerry
5251 Jaffee R @ 560-0221
5259 Hanas Peter @
5260 Dodd John R @ 565-0169
5267 Machado Lou @
5270 Lantz Stuart
5275*Burke Barry M 279-8275
5283*Gurull Christine C 576-1183
5291 Craigwell Ernest Jr @ 560-8007
MT BURNHAM PL BEGINS
5307 Gleeson Richd
5315 Choung Choon Kun @ 560-8661
5322*Bethel Don @ 278-2090
5323 Chou S I @ 560-0531
5331 Yao Raymundo E
5332 Phillips Marjorie F Mrs @ 292-5523
5339 Kahnamoui Z P @ 560-8859
5342*Pula Michl E @ 277-5289
5347 Luther Chas
5350 De Michele Leonardo C @ 278-8682
5352 Hatch Tanya F Mrs 279-1568
5353 Thu Dennis @ 279-0775
5365 Person John L @ 560-1540
5377 Arnold Dixon J @ 278-5070
5397 Johnson Joseph D @ 292-4532
5404 Russo Patrick @ 278-0356
5417 Wenger Justin H @
5418 Mc Morran Donn @ 268-8163
5432 Milch Audrey P Mrs @ 277-9910
5446*Forward Harvey J @
5451*Teitscheid Thos L @ 278-2365

195

MT BURNHAM PL —FROM 5300 MT BURNHAM DR SOUTH

ZIP CODE 92111
ZIP CODE 92111
3460 Dunn Woodrow M @ 277-3907
3461 Harris J M @ 277-3685
3470 Cates Donley B @ 560-9385
3471 Finley Donald L @ 279-4433
3481 Khouri Fawaz
3490 Devigili Lewis A @ 565-4027
3491*Laurance John R @ 560-8841

695

MT CAROL DR —FROM 5650 TAMRES DR NORTH

ZIP CODE 92111
3108 Vacant
3109 No Return
3118 Elliott Wm B 279-1944
3119 Ferguson Edwin R @ 292-4788
3128 Uzdavines Andrew J Jr @
3129 Mc Clintock Leonard @ 278-4081
3138 Nettles John F @ 279-7525
3139 Shryock John R 565-9765
3148 Taylor Ronald L @ 279-3580
3149 Simmons Lawrence E @
3158 Montgomery Wm W @ 279-0370
3159 Gontkon Albert A @
3204 Pierce Wm L @ 277-2940
3205 Peil Forest W @ 277-7406
3212 Flint Kenneth R @ 292-7270
3213*Calverley Rad @ 279-3663
3222*Koch M R @ 278-4924
3223 Ruby Bob L @ 277-2221
3232 Nelson Alan W @ 268-1154
3233 Pippitt Robt G @ 278-0350
3242 Meyer Max L @ 277-3164
3243 Deane Bob @ 571-1595
3252 Lomac Wm J @ 279-1610
3253 Anselm Edwin @ 279-7885
3262 Norman Carl @
3263*Boudewyn Gordon @ 569-8611
3273 Hawes James A @ 277-7587
3276 Luxford Harry @
3283 Charnley Wm @ 379-1750
3286 Kabaci John @ 278-5307
3293*Wimdor Van 560-6493
3304 Armijo Ted @
3307 Schurr Wilson E @ 279-0828
3314 Hodges Forrest L @ 560-8573
3317*Kollar Mark 571-5015
3324 No Return
3327 Manuel Robt M @ 277-4190
3334 Thompson Wm R @ 277-5174
3337 Mitchell Marvin @ 560-5834
3344*Cochran Douglas @ 279-6247
3347 Raggio Allen J 565-2094
3354 De Long Stanley V Rev @ 560-6865
3357 Chapman R M @ 560-8691
3364 Airhart Helen Mrs @ 277-2936
3367 Flynn Parker G @ 278-8879
3374 Mc Gucken Paul M @
3377 Streeters
3384 Palmus Peter R @
3387 Reichert V M 571-0808
MT ACONIA WAY INTERSECTS
3405 No Return
3410 Mc Elhaney James F @ 292-7496
3415 O'Toole P A @ 278-1489
3420 Friis-Hansen Sue E @ 565-4057
3425 Coller Richd R @ 279-9062
3430 Harris Kendall @ 571-0469
3435 Riddle Caroline @ 279-9087
3440 Naugle Alvin B @ 278-3634
3445 Nolan Maurice J @ 277-3291
3450 Morton Earl F @ 277-1468
3455 Larson Wendell G @ 565-0231
3460*Dawson Larry @ 279-9065
3465 Marnane Michl J 565-9724
3470 No Return
3475*Lindrus Wenonah @ 277-3097
3480 Adsit Patricia K Mrs @ 278-7257
3485 Barger Wm R @ 292-4185
3502 Sturdivant Robt M @ 279-6594
3505 Mc Cann Paul A Jr @ 279-5019
3512 King Steph P 277-9234
3515*Hall Joyce 292-9040
3518 Giamanco Andrew @ 565-0979
3524 Johnson Robt T @ 560-6650
3525 Kepner Thos A @ 277-8420
3530 Dinkins Hubert D @
3536 Simon Iris Z Mrs @ 565-2583
3542 Bodenhamer Lee @
3548 Clarke Wm E @ 278-0201

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MT CASAS CT —FROM 4700 MT CASAS DR SOUTHWEST

ZIP CODE 92117
4201 Whalen Edw A @ 278-2136
4220 Lambrou Peter P @
4221 Willcutt Ward E @
4240 Larghey Peter J @ 278-8060
4241 Solotwinsky Steven @ 278-1033

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MT CASAS DR —FROM 4700 MT DURBAN DR EAST

ZIP CODE 92117
4730 Graves Jeffrey R @
4743 Phillips Roy @
4746 Wilcox Ronald C @ 565-0273
4753 Chandler Robt C 279-1998
4760 Streeter Theodora G Mrs @ 565-0362
4763 Kulicks Herbert @ 279-3351
4772*Cook Kenneth H @ 292-1546
4773 Parker Charles R 560-5416
4782 Scott Robt E @ 278-2393
4783 Casey Herman L @ 278-7596
4792 Serafin John 279-1335
4793 Prue Kenneth P II @ 279-6891
4802 Larson Eug S @
4803*Harper Charles 565-0350
4812 Keating Harvey E @ 279-3181
4813 Allen Steve @
4822 Knox Wesley J @ 278-1461
4823 Hurst Charles E @ 292-9878
4832 Emmert Lynn Mrs
4833 Vacant
4842 Oatman C Geo @
4843 Jamieson Betty J Mrs @
4852 Rosehill Russell E @ 560-7639
4853 Ingoldt Kit S Mrs @ 279-3768
4862 Pacheco Gilbert N 268-3907
4863 French Wm N @ 279-5184
4872 Hale Everett W @ 279-1585
4873 Thomas James E @
4882 Schneider James W @
4883 Copley Arthur 277-5035
4892*Hawkins Danl A @ 268-0257
4893 Anthony Ruth W Mrs @ 278-1237
MT CULEBRA AV INTERSECTS
4910 Engbrenghof Lewis C @ 278-3716
4911 Sanchez Domingo P @ 565-0609
4923 Merlo Santo V @
4924 Turk Al 277-1770
4937 Ragnanese Angela Mrs @
4938*Curtiss Tom 569-7412
4949 Lachman Mabel R Mrs @ 565-0992
4950*Boys James F @ 277-0857
4961*Caughlin Kevin @ 278-0152
4962 Rollins Saml L @ 565-2571
4971 Kates Robt J @ 292-6178
4972 Vacant
4981 Wylie Emmie I Mrs @
4982*Dobson Thos 279-7821
5001 Peterson Ethel M @ 277-4595
5002 Danforth Richd E @
5011 Barela Eug F 279-3576
5012 Johnston Paul P 277-1641
5021 Lain Stephen T @
5022 Frazier Robt W @ 278-7538
5031*Bolden Millard 571-0766
5032 Stevenson John C Jr @ 277-7336
5041 Palmer Ruth Mrs @ 277-9831
5042 Hoerman Frank @ 292-4257
5051 Hedval Stephen E
5052 Schleif Dean E @ 277-1523
5061 Kelly Leroy J @ 278-0378
5062*Maderas Virginia Mrs
5071 Adams Francis J @ 277-6925
5072 Berkos Paul @ 560-0550

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MT CASTLE AV —FROM 4200 MT EVEREST BLVD EAST THEN NORTH

ZIP CODE 92117
4201 Wood Carol A
4210 Mc Stay Robt D @ 278-1204
4215 Gossett Warren R @ 277-7378
4227 Henderson Larita L Mrs @ 279-0918
4239 Shadley Jacques J 277-7435
4240 Westbrook Thos D @ 279-2358
4251 Stambook Randy E @ 560-7487
4256 De Boef Robt E @ 279-0733
4263 Lauer Ralph
4303 Brown Donald R @ 277-7562
4304*Jenson David A @ 292-8437
4313 Lee Roy G @ 277-7408
4314 Watson Coy 571-6206
4323 Tooker Geo T @ 277-7433
4324 Langworthy Charlie @
4333 Telfer Clifford A @ 277-2383
4334 Spieker Ferdinand B @ 277-7418
4343 O'Rourke Charles L @ 277-7405
4344 Barber Carolyn
4353 Stelzner Raymond R @ 277-3833
4354 Garner Hideko @
4363*Tukarva Mineo
4364 Garver Arth S @ 279-9034
4373 Roguz Mary Mrs @ 279-0496
4374 Ganoe James T @ 277-0280
4383 Price Eug C @ 571-2880
4384 Stevens Fredk C @
MT ETNA DR INTERSECTS
4401 Knowles Wayne @ 279-6939
4402 Rieger Henry G @ 278-4426
4407 Cyr Marie M Mrs @ 277-7436
4408 Brisebois Joan B Mrs @ 277-5877
4412*Aicher Lehman 279-2875
4414 Board Lloyd @ 277-7413
4419 Mead James G @ 279-2884
4420 Wadley Joseph D @ 277-7023
4425 Ramberg Helen L @ 277-7603
4426 Edwards David W @ 292-0538
4431 No Return
4432 Halleluyah Choppers 279-8333
Haygood Geo T 279-8333
4437 Snyder John W @ 278-0395
4438 Baker James W
4443 Ankeney Clem W @ 277-8316
4444 Jaszewski Donald E @ 292-1348
4449 Hermsen Wm H @ 565-1036
4450 Poff Emory G @ 278-2815
4455 Robertson John M @ 565-8958
4456 Groot Thos N @ 565-4437
4461 Cedillo Santos @ 565-0114
4462 Clark Donald L @ 277-7424
4467 Kazyaka John P @ 279-5783
4470 Mc Killip Keith W @ 278-8323
4473*Woolf Rosemary Mrs 560-0785
4479 Kane Donald @ 279-3767
MT HARRIS DR BEGINS

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MT CERVIN DR —FROM 4800 BOXWOOD AV NORTHEAST

ZIP CODE 92117
4708 Dawson Pat @ 279-1246
4709*Swanson Keith @ 569-6555
4716 Montisano Anthony J Jr @ 277-9126
4717 O'Brian John @ 277-6316
4724 Lavigne Edmund G @ 279-0664
4725 Bittner Marion
4732 Telles James T @ 278-3104
4733 Aguirre Armando S 277-7903
4740 Romero Renan S @ 279-3245
4749 Ortiz Louis 277-1036
4750 Le Moine Richd J @ 279-5758
4757 Whipp Douglas P @ 277-2274
4758 Michel E John @
4765 Maska Karl L @
4766 Josephson Jerry T @ 279-7717
MT ST HELENS ENDS
4773 Fahlstrom Edw J @
4781 Kellman Deborah Mrs
4789 Do Phong X @ 278-1068
4797 Crandall Geo H @ 278-1616

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MT CRESTI DR —FROM 4750 DIANE AV NORTH

ZIP CODE 92117
4742*Mathis Gary L
4745 Cramer Bonnie
4750 Challen Robt H @ 276-6458
4758 Harrington Karen
4759 Cavert Madeline T Mrs @ 278-3874
4766*Carr Douglas 279-8328
4767 Duffy Dennis A @ 279-4068
4774 Neverman Ronald H 277-1669
4775 Kucynski Edw H @
4782 Denniston Earl W @ 277-3796
4785 Young Charles W @
4792 Schaffner Thos D @

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MT CULEBRA AV —FROM 4900 MT ALIFAN DR NORTH

ZIP CODE 92117
4260 Diaz Jack H @ 279-2918
4265 Berry Laura J @
4268*Porath John R @ 279-7925
4273*Greenwood Eugene C consulting eng 569-1356
4276*Keif J 571-7872
4281 Southard Conard B @
4284 Blackington Kenneth J @ 277-6664
4289 Swift Roger K @ 560-7625

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BALBOA INTERSECTS

495

MT CULEBRA CT —FROM BALBOA AV SOUTH 1 NORTHWEST OF MT BAGOT AV

ZIP CODE 92111

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MT DAVIS AV —FROM 4300 MT FOSTER AV NORTHEAST

ZIP CODE 92117
4201 Murphy James L @ 278-1796
4202 Maltman Phyllis @ 292-9569
4214 Mason James S @ 278-3540
4215 Palmer Norval L @ 277-0772
4227 Turner H B @
4230 Gallagher James V @ 278-5623
4241 Bryant Ruth D Mrs 277-7573
4255 Powell Wayne G @ 277-6375
4267 Clemons Ralph K @ 278-3671
4270 Manning J Rip @ 292-9127
4271 Stenberg Kent @ 292-1751
4285 Kelly Richd L 279-2883
4286 Mathews Wm W @
MT CULEBRA AV INTERSECTS
4302 Vacant
4307 Magnuson Alta Mrs @
4308 Vacant
4313 Campbell Ervin O @ 278-3187
4314 Vegvary Zoltan
4319 Cumper Wm G @ 277-5263
4320 Greenhalgh Robt @ 279-3176
4325 Knight Charles @
4326 Sowers Roy D @ 278-8896
4331 Buckley James P @ 560-0313
4332 Vacant
4337 Tenneson Donald A @ 278-5059
4338 Tevis Edwin E @ 278-3401
4341 Richardson Dennis W @ 292-1816
4344*Cameron Billie J 560-4846
4345 Danner Constance R Mrs @
4348 Hensel Donald E @ 278-3673
4349 Smith Marvin D @ 277-8850
4355 Palestini Louis A @ 279-7773
4361 Rodriguez Raymond @ 279-3769
4371 Horiye Chas M @
4381 Kehew Geo M @ 277-9369
4391 Adkins Bill @ 560-8768

PHON
5389 EL CAJON BOULEVARD (92115)
Tel. (619) 233-0250
AV., San Diego, CA.

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

MOUNT ETNA DR 1984

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MT DURBAN DR —FROM 4700 MT CASAS DR NORTHEAST

ZIP CODE 92117
4701 No Return
4704 Parker Chas G ◎ 279-2393
4714 Johnson Edw M ◎ 278-2291
4724 Sinfield Leonard S ◎ 279-6582
4725 Forrey Kevin J 560-5857
4734 Wall Clyde F ◎ 278-2196
4744 Ashley Mark L ◎ 278-2384
4745 Boyce Milford R ◎ 278-0548
4754 Dahl David A ◎ 565-2801
4755 Mc Leese J Kenneth ◎ 278-2032
4764 Mersereau Isabella M Mrs ◎ 277-2880
4765 Genzler Fred ◎ 292-5788
4774 Torbert Argil L ◎ 565-7290
4775★Barrett Steve L
4784 Hunter Robt A ◎ 278-9318
4785★Carlson Evar L ◎ 277-2320
4804 Butler Thos ◎ 565-2256
4805★Chiaramonte Robt M ◎ 571-5054
4814 Davis Wm H ◎ 278-9613
4815 Wilson Victor
4824 Hoover Charles L ◎ 278-2288
4825★Barnier Edw T 268-4774
4834 Rymer Harry A ◎ 278-1573
4835 Jones Raymond L Jr ◎ 565-1583
4844 Begley Fred ◎
4845 Vacant
4854 La Rosa Leonard ◎ 277-7669
4855 Burgie Robt J ◎ 279-9195
4864 Schaper Norvin H ◎ 279-6219
4865 Baney Richd L ◎ 277-6641
4875 Watson Tom B ◎ 278-5891
4876 Vacant
4885 Thomas Wayne B 560-5206
4888 Newman Bruce F ◎
MT CULEBRA AV INTERSECTS
4903 Bristow Wm A ◎ 277-7317
4904 Lackey Connie ◎ 278-2089
4923★Troy Wm 278-2807
4924 Torres Frank ◎
4943★Graham Gerald G 576-1857
4944 Salgado Victor ◎ 279-9605
4983 Holt Alice K Mrs ◎ 278-0357
Holt Roy C ◎
4964 Lindsay Grant M ◎ 279-0409
4973 Hritz James E ◎ 277-7294
4974 Perez Jose S ◎ 277-8435
4983 Whitehill Paul H ◎ 278-5208
4984 Flores Oscar ◎ 278-5340
5003 Daniels Charles H ◎ 279-3384
5004 Sabo John ◎ 565-8218
5013 Allan Lewis E ◎ 277-4394
5014 Kemmerer Michl P ◎ 279-9624
5023 Schwatzer Ralph ◎
5024 No Return
5033 Tuttle Glenn M ◎ 277-7837
5034 Carter Smith L ◎
5043 Ciardi Louis F ◎
5044 Free Joe E ◎ 279-4518
5053 No Return
5054 Vacant
5063 Jones Kenneth E ◎ 277-7327
5064 Harper Theresa R Mrs 278-4387
5073 No Return
5074★Schon D C ◎ 292-0678

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MT ELBRUS CT —FROM 4900 MT ELBRUS DR SOUTH

ZIP CODE 92117
4307 No Return
4315 Eldridge Albert L ◎ 576-0544
4325 Dorian Mark F ◎ 278-3942
4330 Henry Michl L ◎ 565-1760
4337 Gruner Oskar ◎ 279-2341
4338 Romine Onus M ◎ 277-8762
4345 Lemasters Max E ◎
4346★Powell Susan D 268-8848
4353 Nelson John F ◎ 292-4503
4354 Pratt Jerry A 565-2947

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MT ELBRUS DR —FROM WEST OF 4500 MT FORAKER AV EAST

ZIP CODE 92117
4802 Vacant
4807 Bell L Barclay ◎ 277-1722
4810 Mc Kenzie Donald J 277-9098
4817 Laughead Korey ◎ 279-2619
4818 Strang Michl B ◎ 279-9148
4825 Morgan Sherman M ◎
4826★Russell Lloyd G 569-0623
4833 Snyder Frank J ◎ 277-3034
4834★Mc Cue John J ◎ 279-6658
4843 No Return
4844 Krysinski Joseph J ◎ 278-3361
4853 Mc Quaid Robt W ◎ 279-5827
4854 Johnson Norman F ◎ 279-1252
4863 No Return
4874 Johnson Steven O ◎ 277-2773
4884 Mendenhall Kathleen F Mrs ◎ 292-5747
4885 Blackburn Gerard S ◎ 277-8827
4894 Watson Dawn A Mrs 279-8377
MT FORAKER AV BEGINS
4901 Bradberry Sara
4911 Graham-Marr David R ◎ 268-8044
4912 Mc Laughlin Geo ◎ 279-6547
4920 Salisbury Sherman C ◎ 560-5867
4921 Cooper Betty Mrs ◎ 277-9725
MT ELBRUS CT BEGINS
4928 Dowdle Herbert E ◎ 560-9038
4931★Mooney Thos J ◎
4936 Daigle Robt E ◎ 292-5061
4941 Haack Richd J ◎
4944 No Return
4951 Christiansen Arnold M ◎ 277-8807
4952 Frost Barbara Mrs ◎ 278-2649
4962★Woolf Howard C 277-6774

MT FOSTER AV INTERSECTS
4971 Gardner Josephine ◎
4972 Farrell John H ◎ 278-0876
4981 Burner Michl A ◎
4982 Nation Jacques E 569-0726
4991 No Return
4992 Leonard Roger J ◎ 279-0095

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MT ETNA DR —FROM 4500 MT HERBERT AV EAST

ZIP CODE 92117
4618 Degraef Hendrik ◎ 571-0466
4630★Renfield Thos D
4644 Hersey Wm B ◎ 292-1469
4658 Smith Vincent W ◎ 292-5806
4670 Aschbrenner Rod M ◎ 277-1826
4684 Rossetti Jack M ◎ 278-9192
4702 Whitaker Larry L ◎ 277-3638
4714 Merrill Robt M ◎ 279-6460
4728★Curry Peter S ◎ 560-5087
4740 Smith Sidney E ◎
4741 North Clairemont Little League youth club 560-4992
4752 Segall Michl 277-5336
4764 Stewart Clarence E ◎ 278-6553
4776 Hofmann Robt ◎
4788 Rolla Edna V Mrs ◎ 278-4473
4802★Beers Hendrik 279-0578
4811 Reorganized Church Of Jesus Christ L D S 279-6974
4812 Oro Max A ◎ 278-3668
4822★Gould Bruce L 279-3713
4831 Francis Dean E ◎ 278-4268
4832 Nichols Reginald J ◎
4841 Aitken Jacqueline M Mrs ◎ 279-4675
4842 Vacant
4851 Colton Dorothy M Mrs ◎ 278-5481
4852 Vacant
4861★Shepard Bonita C 571-5027
4862 Hoyt Gloria A Mrs ◎
MT FORAKER AV INTERSECTS
4901 Burgess Donald E ◎ 277-5247
4902 Riegle Bryan D ◎ 277-5027
4911★Britting Paul ◎
4912 Branch Madeline R Mrs ◎ 278-9554
4921 Steinfort Richd ◎ 278-1619
4922★Nunez Maria L Mrs 279-9742
4931 Kurtz Frank J ◎ 279-8141
4932 Clift John W ◎ 278-5826
4941 No Return
4942 Earner Cath R Mrs ◎ 278-9899
4951 Ingersoll Geo W ◎ 278-0183
4952 Romero Oscar B ◎ 277-2483
4961 Mc Laughlin Clarence L ◎ 278-0422
4962 Vacant
4971 Mickelson Helen L Mrs ◎ 277-0131
4972★Yamazaki Toshi 268-3186
4981 Johnson Arth L ◎ 279-7792
4982 Patio Manuel ◎ 278-8073
4991 Tomaiko Steve J ◎ 278-0421
4992 Tinker Calvin R ◎ 268-0650
MT DAVIS AV ENDS
5002★Kuhar John ◎ 277-2609
5012★Chicbak Jerome ◎
5022★Wojcik Geo R 571-9087
5032 Loussia Michl ◎ 277-3422
5042 Jonte Sandra ◎
5052 Powell Ulner G ◎
5062 Lee Curtis S ◎ 292-8824
5072 Mead Claude F ◎
MT EVEREST BLVD INTERSECTS
MT CASTLE AV INTERSECTS
5255 Clairemont Community Hospital 278-8100

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MT EVEREST BLVD —FROM 3400 MT ARMOUR DR NORTH

ZIP CODE 92111
3402 Bertelsen Thos A ◎
3406 Page Richd R ◎ 279-0675
3412★Colburn Mike F
3416 Renick Richd D ◎ 277-8982
3422 Crane Grant ◎ 279-3293
3425★Harsh Timothy K 569-4952
3426 Vacant
3432 Heyligers Eug A ◎ 277-5777
3433 Berney Robt T ◎ 268-3493
3436 Hauss Philip J ◎ 277-3689
3439 De Corse Henry A ◎ 278-5957
3442 Hays Frederick J ◎ 268-3727
3445 Vacant
3446★Shipler Wm A 277-2369
3452 Vacant
3453★Hudson Judy
3456 Ashby Dennis A ◎ 278-4673
3461 Vacant
3462 Ashton Steven D ◎ 571-0248
3465 Gianquinto Mary E
Allen Frank Ronald
3466 Vacant
3471 Russell Lucy R Mrs
3472 Ridenour Christine M Mrs ◎ 292-7651
3475 Bourgeois Clifford J ◎ 278-6669
3476★Eichinger Ronald E 279-7217
3481 Ratta Everett E ◎ 279-7926
3482 Schmitz Gerda M Mrs ◎ 292-5050
3485 Torrance Wm L ◎
3486 Reynolds Richd G ◎ 279-8803
3491★Panzioli Virgil B
3492 Ture Ken M ◎ 560-8873
3495 Dolan Geo W Jr 292-4444
3496 Bickler Raymond M
MT ARMOUR PL INTERSECTS
3504 White Charles 560-1072
3510★Slimak Venise 560-6803
3513★Martinez Octavio ◎ 279-9967
3516 Mc Leod Carl ◎ 279-2817
3519 Gongora Danl 560-1454
3522 Dyson Stanley C ◎ 279-6521
3525 No Return
3528 Frude Jerald ◎
3531 No Return
3534★Nouri Farahid M 279-2669
3537 Reynolds Ila R Mrs ◎ 279-3342
3540★Reynolds Max K 569-6901
3543 Payton John J ◎ 279-2160
3546 Fitzmorris Bob H ◎ 277-9063
3549 Pierson Priscilla M Mrs ◎ 268-4131
3552 No Return
3555 Crane Crim D ◎
3558 Gaines Mindy S
3561 Vacant
3564 O'Rorke Carole Ms ◎ 277-9096
3567 Beals James H 279-3076
3570 Williamson Gale ◎ 571-5139
3573★Hibdon Terry A 292-7895
3576 Haas Ray A ◎ 277-5148
3579★Caffery John
3584 Vargas Frank ◎ 571-0447
3587 Urias Gonzalo T ◎ 279-1989
MT BLACKBURN AV INTERSECTS
3601 Perry Tom A ◎ 278-9078
3617 Boyd Jerry A
3625 Van Stelle Jack ◎ 279-3812
3633 Livingston Brenda M 279-9991
3640★Ellis Anthony J 292-5083
3645★Scheer Don ◎ 278-9033
3657 Pate James T ◎ 279-1374
3660 Camba Taurino O ◎
3669 Pamaran Ricardo C ◎ 279-5118
3681 Gelbart Enrique 571-6182
3689★Mindrup Mark ◎ 278-4338
3697 Lewis James C ◎ 292-4068
MT ASHMUN DR INTERSECTS
3701 Cole Calvert G ◎ 278-8560
3709★Dahl Norman L 278-4700
3710 Beyersdorf Althea N Mrs 277-3004
3717 Mullen Ronald ◎ 279-7547
3718★Del Conte Emidio F ◎ 560-5962
3725 Pond Wm R ◎ 277-4721
3726 Lampkins Gerald W ◎ 278-0373
3735★Taylor Robin
3736 No Return
3745 White Erwin
3746 Patterson Duncan W ◎ 278-6247
3755 Norgard Geo ◎
3756 Ernst Richd W 292-1237
3765 Whiteley Ross R ◎ 278-4986
3766 Walery Kenneth F ◎ 565-1017
3775 Sturre Gerald K ◎ 279-1026
3776 Vacant
3785 Davis Jack W ◎ 279-7608
3786 Kokes Cecile M Mrs ◎ 278-2726
3795★Grey Arnold
3796★Hively Robt R ◎ 278-2350
MT ARARAT DR INTERSECTS
3801 Elias Justin J ◎ 277-3350
3813 Di Stefano Robt O ◎
3814 Harpin Normand A ◎ 278-8020
3825 Boysen James C 279-6906
3826 No Return
3838 Raftery M G 278-3299
3839 Stephens Oscar L ◎ 279-4694
3850 Teigen Gary A ◎ 279-8450
3855 Woodward Mary E Mrs ◎ 278-2709
3867 Wahl Edw R ◎ 278-5478
3874 Bancroft Glenn W ◎ 277-4004
3883 Whittum Harold E ◎ 292-0108
3886★Roberts Clark ◎ 279-7901
3906 Zeiss Elliott R 277-8194
3907 Sarvis Robt W ◎ 277-9515
3920 Ferguson Everett C ◎
3921 Antczak Arth J ◎ 279-1285
3934 No Return
3935 Stecker Linwood M ◎ 278-3403
3948 Powell Ridgely W ◎ 278-8495
3949 Cohen Nettie S ◎ 277-1314
3955 Lux Mary G Mrs ◎ 278-4368
3956 Logsdon Paul ◎
3961 Toennessen Emiko Mrs ◎ 279-7988
3964 Koch Arnold C ◎ 278-4799
3967 Palmer Nancy D ◎
3972 Warb Viola
3973 Leonard Barbara Mrs
3979★Thurman Lynn E
3980 Rotnour Dorothy T Mrs ◎ 278-9394
3987 Fahnestock A J ◎ 277-2027
3988 Rothstein Oscar D ◎
3995 Anderson James A ◎ 278-4536
3996★Macturic Mac
MT BLANCA DR INTERSECTS
4001★Pacilio John M 560-4810
4002★Bancroft Doris G Mrs 279-8938
4009 Lakin James A ◎ 278-0515
4010 Stepanik Lawrance G ◎ 278-9367
4017 Hennings Virginia R Mrs ◎ 292-9420
4018 Merritt Brooks P ◎ 565-8331
4025 Ingle Harry B ◎ 565-4229
4026 Hageman Walter F ◎ 278-0107
4033 No Return
4034 No Return
4041 No Return
4042★Hall Kathy C
4047★Maier David W 279-9142
4048 Kawamura Ikunosuke ◎ 279-1690
4053 Adams Delno W ◎ 279-3465
4054 No Return
4059 Acciani Tobias ◎ 292-9966
4060 Colston James D ◎ 278-3302
4065 Schrank Stanley D ◎ 565-6449
4066 Antilla Aurie A ◎ 292-5816
4071 No Return
4072 Cook Arth J Jr ◎ 277-0763
4077 Walsh Martin G ◎
4078★Delvauix Marc 277-1320
4083 Menches Le Roy G ◎ 278-0488
4084 No Return
4089 Vacant
4090 Sewell Kathryn E Mrs ◎ 565-1898
4095 Kassis Thero W ◎
4096 Fagan Rosemary M Mrs ◎ 277-3573

495

MT ALIFAN DR INTERSECTS
4101 Fisher Ronald R ◎
4102 No Return
4111★Griffith Chad M ◎ 560-1844
4112 Falkner Joseph E Rev ◎ 565-7541
4121 Sanders Jack L ◎ 279-4174
4122 Paskowicz Camille ◎ 279-4207
4131 Harkness James L ◎ 277-8995
4132 Brinkerhoff Mildred M Mrs 277-0490
4141 Potts Gerald L ◎ 279-0850
4142 Mac Donald C E ◎
4151 Bonifas James D ◎
4152 Meitl Craig 279-6790
4161 Holland Danl E ◎ 277-1332
4164 Merritt Clifford M ◎ 278-2953
4171 No Return
4176 Schneid Thos R 268-0391
4181 Schunemann Jurgen 560-4610
4190 Mrs Williams Psychic Palm Tarot Card Reader 571-7881
★Williams Sandra ◎ 278-7680
4191 Koch Fred F ◎ 278-0180

493

ZIP CODE 92117
BALBOA AV INTERSECTS
4241 Dehn Lawrence F ◎ 277-0824
4261 Jardin Frank S ◎ 560-4060
MT DURBAN DR ENDS
4301 Almeleh Morris ◎
4311 Rutland Oscar B ◎ 278-2011
4321 Lundquist Paul G 277-8840
4331 Burton Richard A ◎
4341★Davis Wm C 268-0295
4350 Wiggin Kate Douglas School 277-9091
4351 Bozzo Vincent J ◎
4361 Blais Raymond C ◎ 278-1479
4371 Dill Wm G ◎ 278-4715
4381★Raper C
MT ETNA DR INTERSECTS
4401 No Return
4409 Pena Julian A ◎ 278-5384
4417★Kincaid Barbara Mrs
4425 Hoyle Frank E ◎ 277-7323
MT FRISSELL DR ENDS
4433 Zims Richd ◎ 278-1252
4441 Shepard Bonita L Mrs ◎
4449 Herrick Leota M Mrs ◎ 279-6674
MT GAYWAS DR ENDS
4453 Curley Fredk R ◎ 278-4633
4461 Mattenklodt Helen Mrs ◎ 277-3403
4467 Mc Kinney Wm B Jr ◎ 278-2242
4473 Leiainger B L 279-6196
4476★Macy Margt Mrs
MT HAY DR ENDS
4481 Chalmers Burl E ◎
4489 Mc Cullough Patricia ◎
4490 Lucas John H ◎ 565-0923

193

MT FORAKER AV —FROM 4900 MT ELBRUS DR NORTHEAST

ZIP CODE 92117

493

GENESEE AV INTERSECTS
MT LONGS BEGINS
4551 Hertig Wm S ◎ 279-5576
4561 Tripp Donald L gdnr 571-3710
4571 Carey Richd ◎
4581★Johnson Aaron ◎ 268-4691
MT LA PLATTA DR INTERSECTS

193

MT FORDE AV —FROM 4200 MT VOSS DR NORTH

ZIP CODE 92117
4601 Mc Cleary James R ◎ 278-8737
4602 Mc Crary Gary W ◎ 278-2368
4611 Geiger Charles E Jr ◎ 278-9735
4621 Book Danny M 278-1946
4631 Martin Marvin R Rev ◎ 278-2317
4641 Hill & Asaoca Inc mfrs rep 560-6368
Hill Charles A 560-6368

193

MT FOSTER AV —FROM 2400 MT DAVIS AV NORTHEAST

ZIP CODE 92117
4251 Palmer Derek J 292-0350
4252 Campbell Melvin R ◎ 278-5037
4261 Doyle Patrick J ◎ 279-3641
4262 Vacant
4274 Thomas Janet L ◎
4286 Relyea Richd E ◎ 278-2823
MT DAVIS AV INTERSECTS
4302 La Vaut Mary M Mrs ◎ 279-1890
4308★Mc Clain Mark
4309 York Paul C ◎ 279-1273
4314 Lewis Marjorie C ◎ 278-2822
4315 Hachten Raymond C ◎ 278-2121
4320 No Return
4321 No Return
4326 Hohnhaus Geo W ◎ 278-2448
4327 Floersch Albert A ◎ 565-1746
4332 Smith Marcus E ◎ 278-2449
4333 Delaney Terance E ◎ 279-9644
4338 Hall Richd K ◎ 277-6803
4339 Sullivan Ronald D 560-0866
4344 Ybarra Richd S ◎ 560-6717
4345 Stoyanow Norma F Mrs
4350 Palmer Elmore C ◎
4351 Callahan Margt S Mrs ◎
4356 Torbett Wm H ◎ 277-2799
4357 Vacant
4362 Meisenback Lee 569-0147
4363 Ibarra Rogelio M ◎ 277-1150

493

MT FRISSELL DR —FROM 4500 MT GAYWAS DR SOUTHEAST

495

ZIP CODE 92117

SUPERIOR RESUMES / 171'S

$18,000 To $60,000 Career Positions

IBM TYPING
2420 UNIVERSITY AV. (92104)

TEL. 295-1196 OR 692-0836

WORD PROCESSING
(AT TEXAS AND UNIVERSITY)

TP	Adjoining	Source
-	✔	R. L. Polk & Co.

MOUNT FRISSELL DR 1984

MT FRISSELL DR—Contd
4501 No Return
4509 Finley Ray ◎
4517 Suter Lester J ◎ 279-0608
4524 Woodson Chas E 560-1922
4525 Roache Miriam H 277-8273
4542 Mull Dazel J ◎ 279-2459
MT LINDSAY AV ENDS
MT HERBERT AV INTERSECTS
4661 Ziehl Wm A ◎ 278-5947
4664 Mc Gee Walter T ◎ 277-0414
4671 Goodrum Gerald W ◎ 278-3400
4678 Pince Joseph R ◎ 278-7077
4681 Hutchinson Richd L ◎ 278-4496
4689 Vacant
4690 Evans John
4697 Scarpa Philomena E Mrs ◎ 277-2656
4701 Arreguin F R ◎ 277-3157
4702★Clasen Wm ◎
4714 No Return
4715 Maynard Paul H ◎ 560-0073
4726 Christian Rita A ◎ 569-6752
4727 Dickinson Bill C ◎
4738 Cochrane Theo Jr ◎ 278-5224
4739 Garcia Leo D ◎ 565-9706
4750 Norm's Delivery Service 292-1819
Carvalho Norman S ◎ 292-1918
4751 Mc Elheny Donald 560-2005
4762 Rolecki Alex A ◎
4763 Ball Ned R ◎ 278-5196
4774 Wagner Anne Mrs ◎ 277-5262
4775 Parker Robt C ◎ 277-6314
4786★Aurilio Suzanne Mrs ◎
4787 Forsythe J A ◎ 268-1269
4825 Rey Thos ◎
4826 Crandall Richd A ◎ 565-0335
4835 Herney Ruth E Mrs ◎ 277-8959
4836★Alexander Bulb D ◎ 279-1559
4845 Dolphin Geo ◎ 277-7511
4846 Post Edwin C ◎ 279-2118
4855 Wolske Gordon H ◎ 277-0961
4856 Sanford Jerry L ◎ 279-0454
4865 Denson Joanne M Mrs ◎ 277-2091
4866 Bishop Marlene L Mrs ◎ 277-7610
4875 Olimb Carl A ◎
4876 Cullinan Joseph V ◎
4885★Leask Chas ◎ 565-7608
4886★Hensler Tim M
MT FORAKER AV INTERSECTS
4901 Beitz Ronald E ◎ 278-0869
4902★Hutchisson F M ◎ 569-0725
4911 Shiraishi Toru ◎ 268-8456
4912 Hoover Betty R Mrs ◎ 278-1859
4921 Pratt Robt W Rev ◎ 560-1463
4922 O'Bryon Raymond ◎
4931 Mumford J Le Roy ◎ 277-0836
4932 Albrecht Wm ◎ 278-5425
4941 Yauney Georgina Mrs ◎ 279-3033
4942 Mann R F Mrs ◎ 571-0387
4951 Baker Gary L ◎ 565-9660
4952 Ring Steven ◎ 569-1960
4961 Morales Frank ◎ 292-0718
4962★Bailey A R
4971★Rampage Joe
4972 Winchester Wm A ◎ 277-2533
4981 Fetters Leon J ◎ 277-6826
4982 Allred Anthony ◎
5001 Vacant
5002 Michaels Patk 279-3680
5011★Star Barbara Mrs
5012 Rosales Armando P ◎ 278-6096
5023 Grider Dorothy D Mrs ◎ 279-9575
5024 Bruce Clint ◎ 278-9128
5035 Clow Harold 560-4839
5036 Teague Roy W ◎ 277-7071
5045★Wendt Geo W ◎ 565-8074
5048 David Luther W ◎ 278-0427
5055 Jensen Fredk H ◎ 277-7527
5060 Hostecki Thos W ◎ 565-2250
5063 Greenlee Edgar M ◎ 277-1912
MT EVEREST BLVD INTERSECTS

493

MT GAYWAS DR —FROM 4500 MT FRISSELL DR EAST THEN SOUTHEAST

ZIP CODE 92117
4502 Newman Lawrence W ◎ 279-5734
4511 Jones Phillips S ◎ 268-3052
4512 No Return
4522 Stout James ◎
4523 Wingert Paul S ◎ 277-9398
4532 Steen Lester W ◎ 565-0357
4535 Jacobson Merrill S ◎ 278-3513
4542★Adams Nancy L ◎ 268-4445
4552 Nguyen Tong ◎ 292-7257
4562 Maniquis Juan D ◎ 277-0064
4602★Maniquis Joe
4605★Steege Michl P ◎ 279-2731
4612 Dieckhoff Robt C 279-9995
4615 Kenny Francis W ◎ 277-2947
4622 Fox Robt T Jr ◎ 277-7295
4625 Dupuis Leo
4632 Emmerich Harold W ◎ 278-2548
4635 Khambata Noshir K ◎ 277-9381
MT HENRY AV ENDS
4642 Alfrets Gerald R ◎ 279-5968
4645 Purrier Leland S ◎ 277-4354
4652 Auiler Irving M ◎ 277-1428
4655 Bradbury Frank H ◎ 277-3899
4662 Rogers Barbara Mrs ◎
4672★Smith Susan ◎
4675 Smith Henry A ◎ 277-0355
MT HERBERT AV INTERSECTS
4709★Watson W Karl ◎ 560-7715
4712 Johnson Lawrence J ◎ 560-1953
4717 Zitek Thos F ◎
4722 Presser Judy ◎ 277-0732
4725★Vonz Yen
4731★Devaca Huberto ◎ 569-5024
4732 Haga Ethel ◎
4741★Mc Laughlin Frank J ◎
4742 No Return
4751 Campbell Craig M ◎ 565-2434
4752 Granger La Verne C ◎ 279-8371
4761 Van Derheyden Jon D ◎ 292-5489
4762 Costello John J ◎ 560-9740
4771 Davis Wm ◎
4772 Gee Warren F ◎
4781 Rhodes Jack D ◎ 277-5051
4782 Robinson Foster A ◎ 278-7363
4791 Jabsay Chris J ◎ 292-9538
4792 Hanson Maria A Mr ◎
4801 Crawford Joseph J ◎ 278-2344
4802 Stargell Marjorie A Mrs ◎ 277-0169
4817 Weed Robt C ◎ 279-9670
4818 Stislow Vincent B ◎ 279-6463
4831 Thiebaut M Vern ◎ 560-8850
4832 No Return
4847 Shafer Paul L 279-8584
4848 Rose Debra E ◎ 277-6104
4861 Tatum Wilma Mrs ◎ 277-9439
4862 Evans Wm A ◎ 565-6993
4875 Salter Clifford G ◎ 278-5407
4876 Housgard Margt M Mrs ◎ 277-0695
4887 Mayor Robt E ◎
4888 Vacant
MT FORAKER AV INTERSECTS
4901 Reynolds Mary Louise Mrs ◎
4902 Anderson Charles H Jr ◎ 277-6820
4915 Grano P
4916 Greaton Shoni Mrs ◎ 279-9272
4929 Meyer Edw 565-2593
4938★Wilbur Bertrand L 569-0319
4943 Gerry Ed 292-1641
4944 Zombek Juliana Mrs ◎ 277-1554
4957 Lizano Alvaro ◎ 268-4570
4958 Kreinkamp D W ◎ 277-9848
4971 Flahan Cynthia A Mrs ◎ 278-6210
4972 Courington Ida E Mrs ◎ 277-6532
4985 Gallo Pauline F Mrs ◎ 279-5213
4986 Klett Collin ◎
5001 Howland Doris M Mrs ◎ 278-7698
5002 Strand Glenn S ◎ 279-8605
5017 Bracken Jay P ◎ 277-2422
5018 Williams Charlotte E Mrs ◎ 279-3506
5033 Henly Dreama 569-4884
5034 Vacant
5049 Castillo Teresita Mrs ◎
5050 Markley Patk D ◎ 279-2689
5061 Sassano Michl G ◎ 277-1095
5062 Robertson Gary W ◎ 565-9218
5073★Castro Jean Mrs ◎ 569-8425
5086 Mc Cafferty Joseph E ◎ 277-7832
5087 Oram Sydney F acct ◎ 277-6512
MT EVEREST BLVD INTERSECTS

493

MT HARRIS DR —FROM 4500 BLK MT HERBERT AV EAST

ZIP CODE 92117
4701 Carlsen Gregg J ◎
4702 Vacant
4714 Coltran Thos ◎
4715 Page Jan B ◎ 277-1633
4726 Wood Ernie ◎ 277-7866
4727 Reeve James A ◎ 277-5779
4738★Jones Randy ◎ 569-4088
4739 Licari Anthony C ◎ 278-4486
4751★Lopez Andrea 278-0099
4752 Hayes Raymond J ◎ 569-1924
4763 Buffington Tadd A ◎ 571-1364
4764 Dickey Myron D ◎ 279-2442
4775★Farbstein C L ◎ 571-5410
4776 Vacant
4787 Teel Roy C ◎ 277-7609
4788 Kelly O B ◎ 292-5542
4801 Van Gerpen Donald R ◎ 565-2658
4802 Fox Jessie M Mrs ◎ 277-2744
4815 Ryan John W ◎ 278-6459
4816 Thrower Oscar
4829★Counsil T
4830 Mercer Phyllis Mrs ◎ 278-7259
4843 Barnett Lily R ◎
4844 Ferst Richd W ◎
4857 Dearmont Richd E ◎ 565-6346
4858 Hechanova Antonio ◎
4871 No Return
4872 Salsman Norbet M ◎ 292-0498
4885 No Return
4886 Jones Bea I ◎ 279-8582
MT FORAKER AV INTERSECTS
4901 Haden Areah Sue ◎ 571-0406
4902 Bradford Wm ◎ 569-1796
4914★Vaccher A M 569-1564
4915★Kortangen Arth D ◎
4926 Heck Karl ◎ 278-3720
4927★Greenwood John W ◎ 278-8385
4939★Punch Robt 279-8711
4940 Anthony John D ◎ 279-8278
4951 Barnett Douglas O ◎ 278-4666
4952 Hechanova Antonio J Jr ◎ 277-1685
4963 Wells Edna S Mrs ◎ 277-3402
4964 Schwenn Donald F ◎ 277-1204
4975 Wheeldon Geo N ◎ 277-7530
4976 Hudnall Richd C ◎ 279-6633
5002 Phillips Edw A ◎
5003 Spear Rick ◎ 277-9579
5014★Newell John J ◎
5015★Raney John F ◎ 565-6447
5026★Pastore Tony ◎
5027★Williams Janice Mrs 277-9231
5038★Abrahamson Kort ◎ 279-0222
5039 Villaluz Yvonne A ◎ 277-2451
5051★Frajman Robt C ◎ 277-6555
5052 Williams Jerry C ◎ 279-4869
5064 Porlas Conrad A ◎
MT EVEREST BLVD BEGINS
5071 Wigginton Cyril ◎ 277-0806
5076 Heimbach Ora R ◎ 278-5857
5090 Marx Earl F ◎
MT CASTLE AV BEGINS

493

MT HAY DR —FROM 4500 BLK MT HERBERT AV EAST

ZIP CODE 92117
4714 Hogue Edmon H ◎ 292-0469
4715★Clauss Steph L ◎ 292-6130
4726 Cerveny Geo E ◎ 619-6901
4727★Drummy Brian 277-5055
4738 Krauss Fredk K ◎
4739 Bennett Jack H ◎ 278-3688
4750★Sandoval Santiago K ◎ 277-0973
4751 Mc Laughlin Judy Mrs ◎
4762★Fernandez Antonio ◎ 569-0059
4763 Lewis Robt A ◎ 278-4896
4774 Livingston Geo E ◎ 279-6026
4775 Fiegehen Donald L ◎ 278-5483
4786 Chappelle Donald L ◎ 279-3837
4787 Gangloff Lee A ◎ 278-5167
4803 Johnstone Sam A ◎ 278-4877
4804★Hippert Marion
4819 Freeby Wyman J
4820★Boyd Michl E ◎ 279-6689
4833 De Sautels
4834 Dohm Dudley D ◎ 278-4429
4849 Moody John K ◎ 277-2912
4850 Dimeo Victor V ◎ 565-1666
4863★Norberg Eileen N Mrs 292-4509
4864 Lunsford Jess C ◎ 569-8941
4877★Erbany Edw ◎ 278-1381
4878★Mc Intire Theriak ◎ 569-1662
4889 Mendenhall Robt
4890★Stewart Eric C ◎ 279-3887
MT FORAKER AV INTERSECTS
4903 Montgomery Ruth I ◎ 279-0040
4904 Ellis Edmund H ◎ 279-8909
4917 Hoofard Wilber C ◎
4918 Roed Olif J ◎ 278-9626
4931 Bryant James L ◎
4932★Huttemanaier Gary
4945★Schultz Arth W ◎
4946 Christian Wm J ◎ 279-4567
4959 Sanphy Thos M ◎ 277-1668
4960 Pelles Victor T ◎ 278-7859
4973 Mc Cann J R ◎ 279-3014
4974 Fayers Nora Mrs ◎ 278-8924
4987 Zink Monte W ◎ 278-7328
4988 Bosley John T ◎ 565-1203
5004 Bingen Russell M ◎ 277-7104
5005 Mc Grew Billy L ◎ 292-7524
5024 Griffin Chas M ◎ 278-0351
5025 Ernissee Nancy C Mrs ◎ 277-1466
5044 Trujillo Patk ◎ 571-5730
5045 Richeson Kenneth W ◎
5064 Wriedt Harold G ◎ 277-1519
5065 Fong David ◎ 560-7446
MT EVEREST BLVD INTERSECTS

193

MT HENRY AV —FROM 4500 MT HUBBARD AV NORTH

ZIP CODE 92117
4202 Nipper C D 268-4259
4210 No Return
4217★Patrick Joe J ◎ 571-3487
4218 Moore Terry D ◎
4225 No Return
4226★Ruiz Ernest J 279-5256
4233 Vacant
4234 Hansen Russell H ◎ 278-5596
4241 Hatler Harry G M Jr ◎ 278-1217
4242 Tompkins Louis L 277-6122
4247 No Return
4250 Bamford Wayne G ◎
4253 No Return
4258 Zigrang Roy J ◎ 268-0703
4259 Hoffman Marlene R Mrs 279-0354
4265 Kodadek Edith J ◎
4266 Garcia Joseph L ◎ 569-1756
4271★Pike Hal W 571-8470
4274 Noonkester Virgie R ◎
4277 Vacant
4283 Nordquist Harold G ◎ 292-9366
4284 Skoglund Stuart J ◎ 278-1213
4287 Kahl Eric ◎ 278-8979
4295 Anderson Arnie ◎
4296 Parker Paul D ◎ 279-2249
MT HENRY WAY INTERSECTS
4302 Brown Roy A ◎ 277-5043
4310★Wilson Mike 279-3128
4311 Spurlock D R ◎ 277-3768
4316 Jewel Norman ◎ 571-8594
4317★Silva Manuel D
4323★Rodgers Jeff
4324 Klauda Thos ◎ 292-8534
4329 Reed Paul E ◎ 277-1984
4330 Foose James D ◎ 565-4152
4335 Crigler Wm E ◎ 277-5202
MT HENRY PL ENDS
4341 Peterson Haruko Mrs ◎ 292-4714
4347 Nelsen James B ◎ 278-2110
4352 Mc Cauley Wm P ◎ 279-5698
4353 Sage Lowell J ◎ 278-6819
4358 Duncan Francis ◎ 560-9352
4359★Moon Byung K 292-4273
4365 Barton Paul A ◎ 565-7653
4366 Oyama Rodney T ◎ 279-1971
4373 Nogata Sumihiro ◎ 560-6295
4374★Mun Chun S ◎ 278-7084
4379 Arcediano James J ◎ 571-0287
4380 Norm's Carpet Services clns 560-0833
Langevin Norman R ◎ 292-4109
4385 Irvine Harry F ◎ 277-4526
4386 Smolik Miroslav 278-0826
4393 Vacant
MT HIGHPINE PL BEGINS
MT KING DR INTERSECTS

493

4401★La Thanh 278-9607
4402★Shockley E W 278-7383
4406 Smith Wm A ◎ 278-4645
4407★Graham Robt H ◎ 278-2897
4412 Nicholson John E ◎ 279-3983
4413 Booth Frank D ◎ 279-6385
4418★Mc Hatton Jonathan B Rev 571-0611
4419 Hansler Erwin E ◎ 277-2045
4424 Thompson Ray C ◎ 279-3051
4425 Clum Fredk J
MT KING DR INTERSECTS
4438 Wright H Morton ◎ 277-2855
4439 Rader Phillip S ◎ 277-3223
4444 Brown Mary C Mrs ◎ 278-5546
4445 Reed Eug A Jr ◎ 292-7046
4450 Kokun Michl ◎ 279-4172
4451 Elliott Wm J ◎ 279-1888
4456 Pettis Warren J ◎ 565-6322
4457 Goerres Rainer A ◎ 279-5887
4462 Piranio John ◎ 277-3451
4463★Preston Steven ◎
4468 Spire Alan G ◎ 571-0325
4469 De Lise Peter L ◎ 277-2272
4474 Houchin Donald N ◎ 560-6370
4475★Stephens Thos C 277-5118
4480 Parral Jose J ◎
4481 Carnathan Fred H ◎
4486★Deitz Thos 272-7036
4487 Lambert
4492★Kane Timothy L
4493 Todd Jack W ◎ 277-4789
4498 Divers Harry C ◎ 565-7963
4501★Reed Carl R ◎ 278-3925
4502 Wade Marianne W Mrs ◎ 571-6153
4509 Zawadzki Steph J ◎ 278-0946
4510★Birmingham Steph C 268-3887
4517 Mc Cabe Marguerite Mrs ◎ 279-6212
4518 Knight Walter L ◎
4525 Holmes Judith A Mrs ◎ 560-1927
4526 Hanke Hans J ◎ 278-6200
4534 Donner John A ◎ 569-9188

193

MT HENRY PL —FROM A DEAD END WEST OF 4300 MT HENRY AV NORTHEAST

ZIP CODE 92117
4503★Parrish Randy 560-7502
4510 Smith Charles W ◎ 560-6199
4513★Haidinger Robt F ◎ 279-4536
4520★Brutsen Howard E II 277-4497
4521 Moore Robt V ◎ 292-5881
4529★Wasyl Joseph 569-7090
4536 Siordia Richd R ◎ 279-2198
4537 No Return
4545 No Return
4552 Havrilla Michl ◎ 277-7047
4555 Knamuar Betty M ◎
4560 Mc Intyre Larry B ◎ 565-1904
4565 Turner Lewis W ◎
4568★Kuhner Evan T ◎ 279-4338
4572 Flor Nemesiano ◎ 292-1627
4578 Cornwell John T ◎ 560-1502
4584 Parkhurst Cecil E ◎
4585 Tucker Marjory E Mrs ◎ 278-2163
4590 Cignarella James M ◎
4594 Aberth Adrian ◎ 277-2154
4595 Scarborough Lydia E Mrs ◎

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MT HENRY WAY —FROM MT HENRY AV EAST 1 SOUTH OF MT HENRY PL

ZIP CODE 92117

193

MT HERBERT AV —FROM 4500 MT HUBBARD AV NORTHEAST

ZIP CODE 92117
4102 Bradshaw Ardon V ◎ 279-0859
4111 Procner J 278-6960
4112 Hofstetter Calvin J ◎ 292-8837
4124 Koellman Karl G ◎ 278-2513
4125 Mc Daniel Howard M ◎ 277-5552
4138 Weltzien Mert ◎
4139 Allen David O ◎ 278-2042
4150 Drapeau Geo E ◎ 292-0270
4151 Puryear Thos H ◎ 278-3935
4164 Sanderson
4178 Blake Laurence E ◎ 279-0868
MT FORDE AV INTERSECTS
4202 Brown Lowell ◎ 292-4589
4210 Fenner Milton ◎
4211 Bovee Wm L ◎ 278-1814
4218 Mc Cartney Faber W ◎ 277-6046
4219 Blaine Miles F ◎ 278-1192
4226 Lewis Donald W ◎ 279-3518
4227★Nalos Peter ◎ 292-4296
4234 Carl Ella M Mrs ◎ 277-4456
4235 Morgan Albert W ◎ 278-2299
4243 No Return
4244 Vacant
4251★Sandal Dinesh C
4252 Aeria Rene W ◎ 279-3691
4259 Hilliard Geo C ◎ 279-2429
4267 Graves M L Mrs ◎
4268★Moran C
4275 Cunningham Rita K ◎ 278-7586
4276 Tomlinson Richard S ◎ 277-8236
4283★Griswold Rex 571-5181
4286 Wentzel Louise C 571-5636
4291 Augustine Wm
4296 Mc Caffrey Mary D Mrs ◎ 565-0753
4297 Mc Intyre John C ◎ 560-5572
MT HENRY WAY INTERSECTS
4301 Mc Cain Francis A ◎ 278-2233
4302 Ramawick Roy O ◎
4310 Waddell Edw G ◎ 278-7392
4311 Villaluz Richd F ◎ 278-8098
4318 Jones Denby ◎ 279-2419
4321 Negrete Angel E ◎ 278-2162
4326★Fletcher Theo A ◎ 279-7652
4331 Waddell Frank ◎ 565-4630
4334 Vacant
4341 Sanderson Dave E
4342 Largent Wm E ◎
4350 Sebald Anthony V ◎ 277-1190

Balboa Ave 1980

BALBOA AV—Contd
15 Industrial Data Link rte communications equip 272-4455
16 Provest Corporation real est 274-6211
17 Vacant
18 Information Technology 270-8865
19 Rizzo Mel Realty
4238 Clairemont Rental Properties 273-4431
Garfield Office Building 273-4431
4239 Renaissance Chiropractic Office 270-7181
4241 Dental Development Systems dental care
4243 Ad Agency The adv 275-4033

495
MT EVEREST BLVD INTERSECTS
BALBOA WAY BEGINS
5222 Balboa Pharmacy 278-0111
Clairemont Medical Tower ofc bldg
OFFICE BUILDING
Rooms
1 Spratt-Optimax optns 279-0333
1 Clairemont Radiology Medical Group Inc clinics-radiology (x-ray) 292-4838
1a Ephron Eug H phys 292-4838
Suites
3 Han Wha Shim phys 268-3744
21 Molnar Charles J Jr phys 279-2501
22 Murray John P phys 278-0331
23 Morgan Sherman M phys 279-2350
24 Di Zinno Libro E phys 278-2811
31 Grossman Robt H phys 278-1330
31 Stress Testing Laboratory 278-1330
33 Clairemont Psychiatric Medical Group Inc phys 279-4920
33 Green Carl L psychiatrist 279-4920
33 Kelly Paul psychologist 279-4920
34 Comito John N phys 279-4221
41 Kieffer Ray J orthodontist 279-6210
41 Griffiths Donald L orthodontist 279-6210
41 Holman John C III orthodontist 279-6210
43 Heart Specialist Medical Group Inc 278-0880
43 Franklin Marshall phys 278-0880
44 De Reeder Peter phys 278-4620
51 Bell L Barclay phys 278-2600
52 American Medical International Inc hosp-hlth facilities oprs 292-0578
52a Smith Kline Clinical Labortories Inc 560-0525
53 Koenig Lawrence A phys 565-6394
54 Otto Evan L M D Inc 279-2151
FLOORS
6th Fl Brownsberger Donald E phys 565-6666
6th Fl Dinenberg Lawrence A phys 565-6666
6th Fl Fish Deane L phys 565-6666
6th Fl Trees Carl A phys 565-6666
6th Fl Balboa Medical Group Inc 565-6666
71 Heath Wayne L dentist 279-1900
71 Forrest Joan dentist 279-1900
73 Wentzel Goetz M phys 278-0551
74 Harris Joseph C dentist 277-5141
STREET CONTINUED
5252 Balboa Tower ofc bldg
Suites
101 No Way Joses restr 560-5388
102 Acumen Associates resume serv 292-7600
103 Evatt Smith Campbell & Selvig lwyrs 278-3200
104 Vacant
2dfl P R C Guralnick (Sub Ofc)
300 S & A Management Services accounting & tax serv 292-9150
301 Conrico Designs & Crafts graphic design 278-9421
301 Clark Richd D archt 278-9421
302 P R C Guralnick Inc naval archt & eng 292-9102
304 P R C Technical Applications Inc (Logistics Dept) 278-6273
306 P R C Tech Applications Inc (Tech-research Br)
400 P R C Guralnick (Sub Ofc)
402 J C A Company japanese travel agcy 571-0915
407 Stilwell Benj W phys 277-3153
408 Schwartz & Zeaman acct 278-8772
5th Fl P R C Guralnick (Sub Ofc) 292-9102
6th Fl P R C Technical Applications Inc (systems eng dept)
700 Smith Timothy N lwyr 292-9666
700 Wittke Wm M lwyr 292-9666
701 Professional Management California Inc consul (med-dental) acctg 278-7178
703 Quality Building Maintenance Co jan serv 278-8730
704 Halsey & Rasmussen lwyrs 569-0206
705 Davis & Baker Advertising 279-6940
706 Advanced Dental Care dental mgmnt 571-8600
706 Ubiquitous Logistics 571-6800
707 Bush Don & Associates real est 560-5446
709 Federhart & Associates traffic consultant 278-3365
800 Franklin Insurance Service Corp ins brokers 278-2000
801 P R C Technical Applications Inc sub ofc
802 California College For Respiratory Therapy 569-1611
803 Learning Process Center The priv educ-tutoring 560-1000
804 P R C Tech Applications (Sub Ofc) accts 292-7732
805 P R C Tech Applications (Sub Ofc)
9th Fl P R C Technical Applications Inc (sub ofc) 278-6273
10th Fl P R C Technical Applications Inc (Restricted Area) eng services 278-7324
L San Diego Golfer magazine publ 278-8720
5316 Colony Bookkeeping & Tax Serv 565-9850
5338 San Diego Gas & Electric Co (Br Ofc) 232-4252
5342 H & R Block income tax preparers 279-1780
5344 State Farm Insurance Co's 277-1772
5346 First Centennial Title Co Inc (Clairemont Div) escrow serv 277-0420
5350 Century Twenty-One Northcutt Realty Inc 560-1061
5354 Household Finance Corp 278-5361
5358 Crown House barber shop 560-4527
5360 California Federal Savings 560-0112
5361 Schultz Milton H ◎ 277-947f
5363 Woods Raymond B ◎ 279-1121
5365 No Return
5367★Fredericks Michl D ◎ 268-8783
5369 No Return
5371 Mc Kittrick Nora L ◎ 277-0313
5373 Hethcock Jan M 565-2257
5375 Horne John K
5377 Burns Lorna F Mrs ◎ 292-1268
5379 Epstein Lawrence S 565-1309
5381 Morgan Jeanne K Mrs 277-1235
5383 Amparan Alex 569-0656
5385 Batzler Wm E ◎ 565-1647
5387 Vacant
5389 Ferguson John E ◎
5391 Oostdyk Geo R 292-1425
5393 Rush Robt L 279-7612
5395 Casey Sandra L ◎
5397★Mc Donald Arth
5399 Six Robt ◎
GENESEE AV INTERSECTS

69
ZIP CODE 92111
GENESSEE AV INTERSECTS
5401 Balboa Mesa Shopping Center Holmberg's Don Chevron Service 279-1010
5404 London Opera House restr 279-2390
5405 Callender's Marie Pies No 22 restr 279-6604
5407 Security Pacific National Bank 279-0767
5430 Windy's Flowers At Fed Mart ret florist 279-5963
5432 Fed-Mart Pharmacy 278-9141
5454 Fed-Mart Corp discount dept store 278-9520
Fed-Mart Auto Service Center 278-1680
Easy Haul Rentals At Fed Mart trailer rentals 292-9181
Vitalich Edw J optom 279-5475
Key Korner key shop-locksmith 279-0215
5501 Baskin-Robbins Thirty One Ice Cream Store 278-4341
Holmann Inc ice cream store oprs 278-4341
5502 Olson Forest E Inc real est 565-8151
5504 Charlie & Co barber shop 569-8202
5505 Mervyn's dept store 279-8811
5508 Imperial Savings & Loan Assn 278-4060
5511 Winchell's Donut House No 261 278-1642
5522 United California Bank (Balboa-genesee Ofc) 231-2222
5530 Fed-Mart Car Wash 278-9520
5555 Von's Grocery Co 279-4661
5607 Mister Fish & Chips 279-2641
5611 Straw Hat Pizza Palace 277-7992
Italian Restaurant Corp 277-7992
5613 Clairemont Vacuum & Sewing Center sls & repr 277-8667
Servpro Of South Clairemont carp & rug clng serv 277-5494
5615 Alltime Inc sls & serv watches 560-0488
5617 Blarney Stone Pub 279-2033
5621 Genesee Pet Clinic hosp small animals 278-1575
5631 Balboa Coin Operated Laundry 571-9926
5635 Moriarty John F podiatrist 277-3838
5639 Red Carpet Realtors Bill Hughes & Assocs 279-8500
5643 Five & Ten The womens clo 569-1299
5647 Pleasant House Of Natural Foods health foods 278-5853
5651 Coiffure Chic 277-3780
5657 Balboa Cleaners 278-1171
5661 Double Up Fashions women's clo 277-5900
5663 Fashion Conspiracy womens clothing 292-4192
5667 Licorice Pizza Music Store records & tapes 560-5898
5671 Goodies Hallmark card & stationery goods 560-8179
5675 Yardage Town yd gds ret 279-5270
5685 Long's Drug Stores 279-2753
5790 Dill's Union Service 292-7965
5808 Fotomat Corp Store Forty-One photo developing 565-8313
5810 Vacant
5825 Home Federal Savings & Loan Assn (Clairemont Ofc) 565-8262
5851 Bank Of America Natl Trust & Sav Assn 294-2154
5901 Farmers Insurance Group 560-8888
5909 Commercial Credit Plan Inc loans collateral & salary 292-5820
5911 Home Fed Savings & Loan Assn (loan dept clairemont annex) 565-8335
5915 Allstate Insurance Co 279-1200
5917 Advance Mortgage Corp 560-4551
5921 Chief Travel Of San Diego Inc travel agcy 560-1488
5923 Rene's Coiffures 279-3650
5925 Farmers Ins Group 560-7548
5927 Sundy Hilton E chiro 560-5022
5933 Realty Executives 278-6400
5935 Clairemont Coin Exchange 565-8900
5937 Smith Mason & Associates resumes serv 565-2900
5939 Anthony Schools Of San Diego real est 560-6511
5941 See's Candy Shops Inc 279-0260
5945 Yardage City dry gds 292-5525
5947 Pernickity I women's clo 277-7751
5949 Torgerson Duane R optom 278-8043
5951 Taco Palace restr 292-7850
La Panaderia mexican bakery 571-9645
5953 Vacant
5955 Bob's Big Boy 571-9365
5980 Ricky's Family Restaurant 565-1475
6050 Seaside Buick Inc sls & serv 565-1911
6055 Sam's Shell Service 279-4072
6066 Jack's Auto Center gas sta 279-2062
MT ALIFAN DR ENDS
MT ABERNATHY AV BEGINS
6125 Pro-Auto Service Exxon 278-3900
6130 Melton's Arco Service gas sta 560-6411
6133 Giovanni's Restaurant 278-9191
6133a Vacant
6133b Gietzen Robt J dentist 565-4636
6135 Balboa Crest Shopping Center International House Of Pancakes 277-4791
6137 Dean's Photo Service fnshrs 279-2931
6139 Crest Balboa Liquor ret 277-4500
6143 Rustic Inn restr 565-1961
6147 Pixie Ceramic Studio gift shops 565-1234
6155 Radio Shack 279-5041
6159 Balboa Crest Veternary Clinic 277-3665
6163 Balboa Music Center 279-6152
6167 Morris Plan Co Of California loans-salary & collateral 279-6675
6171 Faessel John L Dental Group 277-7785
Thomas Lynn W dentist 277-7785
Sanford James dentist 277-4785
6175 Clothes Scene women cothing ret 565-8411
6179 Koby's Shoes 571-9447
6181 Haircut Legend The
6185 Golden State Fabrics dry goods 278-8072
6391 One Hour Martinizing 277-4565
6393 Clairemont Surf Shop surfboards & skateboards ret 292-1153
6393½ O'Con Enterprises Inc pet store oprs 560-5848
6395 Powerine gas sta 571-9516
6397 Puppy World Aquarium Pet Center pet shop 279-7152
MT RIAS PL ENDS
6401 Burger King restr 279-2734
6433 Vacant
6545 Wells Fargo Bank (Balboa Av Ofc) 238-6415
6555 Balboa Avenue Alliance Church 278-6266
Living Preschool The 278-9620
6565 Balboa Mesa Dental Building
Horn Dennis E dentist 279-2122
Horn Jayne F Mrs dentist 279-2122
6565a Langa Barbara J dentist 279-1070
6565 Apartments
C Rumley H
D Rupp John E 571-2830
E Vacant
F Tynan Bruce
MT ALBERTINE AV ENDS
CANNINGTON DR BEGINS

369
MT ALBERTINE AV ENDS
CANNINGTON DR BEGINS
6991 Schweitzer Albert E Sch 278-7470
HATHAWAY ST ENDS
CHARGER BLVD BEGINS

659
INTERSTATE 805 CROSSES
7620 Family Fitness Center spa & gym 292-5539
7637 Reuben's Plank House restr 278-7373
7647 Rossi Shell Service 277-0905
7725 Gemco Membership Department Store 292-1660
Ackroyd Archie M optom 292-7193
7727 Gemco Pharmacy 292-5535
7731 Digas gas sta
Tune Craft serv cntr 565-1615
RUFFNER RD INTERSECTS
7737 Tom's Texaco Service 565-1782
U-Haul Co trailer rentals 571-9166
Garden Care Center sls & serv 565-1782
7763 Color Tile Supermart bldg matls 292-7501
7766 Cameron Bros Construction Co Inc genl contr 278-3050
7767 Vacant
7777 Cantor Tire Co gas sta 560-8473
7786 Jack-In-The-Box Restaurant 560-1419
CONVOY ST INTERSECTS
7804 Taco Jack restr 571-0113
7807 Balboa Union Serv gas sta 277-0204
7813 Power Tool Rental Co No 2 pwr producing mach rentals 277-8989
7815 Taco Bell No 117 restr 278-1190
7820 Jolly Jug liquors 279-1080
7827 Kearny Mesa Yamaha motorcycles sls & serv 292-5454
Kearny Mesa Yamaha Race Line motorcycle racing info 292-1094
7829 Kearny Mesa Welding 292-1912
7840 Sir George's Smorgasbord 277-0411
7841 Balboa Office Limited
Rooms
101 Allstate Insurance 292-7083
102 Armed Forces Benefit & Aid Assoc (Serv Center) 565-9303
103 Action Employment 279-2293
104 Qualtronics electronics 560-8955
104 Mintz Ezra Associates sup & equip electronic 565-4921
105 Q S A Company minature computer sls 292-1891
106 De Angelo Rothman & Co Inc rep elect prod 560-5707
106 National Lectro Sales Corp whol electronic parts 292-7349
107 D'Agnessa Insurance Agency 279-5955
108 Thorson Company Of S D The eng rep 292-8525
110 Vacant
201 Independent Research Agency financial consultant 560-9346
201 United Services Planning Association financial planners 560-9346
202 Fogerty Marketing Research 268-8505
203 Vacant

Mildred Hawkins and Associates Serving San Diego Since

BALBOA AV—Contd
204 Steckling Adrian E publ rep 278-4541
205 Brill Sandra pub acct 292-4020
206 Vacant
207 Vacant
208 Gibbs Appliance Serv (Data Processing Annex)
209 Vacant
215 Info Bit custom software 565-1738
STREET CONTINUED
7853 Burks Electronics Inc electronic engs 279-6010
B P I audio test instruments mfrs 279-3344
7860 Mutual Leasing Corp automobile leasing 565-9191
Mercedes Benz Of San Diego autos 279-7202
7865 Ceramic Tile Institute industry promotion 277-3121
7903 Western Tile & Accoustic Engineers (Storerm)
7905 Western Tile & Accoustic Engineers contrs 278-6300
7915 San Diego Engineering Inc communications contr 278-3374
7915a California Pools pool sls & constn 292-7212
7917 Burnett Electronics Laboratory Inc equip sup 278-6370
S S I Electronic electronic repr 565-8311
Young Americans For Freedom civic org 565-1800
7931 Balboa Veterinary Hospital 279-0425
7933a Mavis Travel 560-5488
7933b Farmers Insurance Group 560-0188
Farmers Insurance Group 560-0188
7935 Southern California Radiator 268-3662
San Diego Mag Buffing polish wheels 277-9791
7945 Carriage House cocktail lounge 278-2597
7947 Friar Tuck's Pantry restr 279-1520
7959 Barbecue Pit restr 278-1620
7961 Kearney Mesa Lodge (Loyal Order Of Moose) fraternal org 278-1938
7973 Perez Cove Marine sls & serv 560-0830
7993 Kearny Mesa British Imports auto dlr 277-4371
Graham Automotive Inc auto dlrs 277-4371
8009 Renzulli J W Inc genl bldg contr 565-4743
8011 Anderson Electric contr 232-8833
8015 Renco Mechanical air condtg serv 279-1220
8027 Brownie's restr 565-6464
8039 A B C Wheel & Frame Service truck & auto repr 277-8038
Jalisco Body Shop 278-0030
8039½ Kolbeck J Farris © 278-7504
8063 Kearny Mesa Radiator auto repr 277-2030
8081 Scheib Earl Auto Painting 565-1182
MERCURY ST INTERSECTS
ZIP CODE 92123
INTERSTATE 15 INTERSECTS

143
KEARNEY VILLA RD INTERSECTS
8611 Kyocero International Inc ceramic electronic mfg 279-8310
General Dynamics (Eng Div Ofc)
8615 Kyocero Intl (Ofcs)
8650 Digital Development Corp memory sys for computers 278-9920
Teledyne Ryan Aeronautical Co (Plant)
8775 Kyocero Intl (Mfg Facility)
8788 State Compensation Ins Fund workmens compensation ins 560-1600
8797 Kierulff Electronics Inc distr 278-2112
8799 Metermaster elect indicator meter distr 560-4841
8804 General Dynamics (Electronic Div Ofc)
8808a Applied Micro Circuits Corp elec equip & sup mfgs 268-0097
8808b Solitron Devices Inc electronics mfr 278-8780
8835 San Diego City Industrial Park Office Building
Suites
A Maxwell Laboratories Inc research laby 279-5100
B Maxwell Laboratories (Ofcs)
C Spectral Dynamics Corp (Plant)
D Spectral Dynamics Corp (Special Contracts Div) 268-7200
E Spectral Dynamics (Plant)
F Spectral Dynamics (Plant 1)
8855 Office Building
Suites
A Courier Express Inc (Offices)
B Courier Express Inc 292-4668
B A C E Air Courier Express air freight 292-4668
C Alcala Travel II 571-2929
D Southwest Administrators health spa 277-3812
E Ryson Aviation Corp research agcy
F Visions Unlimited Photography 569-0118
G Senior Design Corp Of California technical emp serv 292-9010
8859 Office Building
SUITES
A Lesair Inc (Stge)
B Lesair Inc (Stge)
C Lesair Inc plastic injection moudling 279-6531
D Lesair Inc (Annex)
E Lesiar Inc (Annex)
8861 Office Building
SUITES
A Schiebel Automotive Eng auto repr 277-3313
A Gentle Ben Enterprises auto repr 277-3313
B Speedy Mail & Messenger Service 565-4141
C San Diego Porsche Restorations restore cars 292-1408
D Temp-Tronics plastics mfrs 277-9520
E Polar Glass Inc (Ofc) 279-6953
8863 Office Building
Polar Glass Inc custom injection molding 279-6953
8865 Office Building
SUITES
A Big Red's restr 277-7575
E San Diego Saloons Inc restr owners org 277-7575
F K C E Corp mfrs rep (electronics) 278-7640
G Depew Chas E constn contr 278-2270
G Omega Construction Inc 278-2270
H Clemick Neenan & Assoc electronic parts sls 268-8540
8869 Office Building
SUITES
A Presser Riley J Concrete Contractor Inc 560-5365
B Presser Riley J Concrete Contr (Ofc)
C Haskel Engineering & Supply Co indus hydraulic mfrs & distrs 279-1685
C Weather Mark distr-adv 560-5112
D Precision Tool & Die (Div Terry Crafts Enprse) mach 278-0950
Terry Craft Enterprises Corp mach shop 277-0707
E Accurate Machine & Tool Inc mach shop
8871 Office Building
SUITES
A Air Vehicle Corp (Auxilary Ofc)
B Air Vehicle Corp (Auxilary Ofc)
C Air Vehicle Corp (Auxilary Ofc)
D Air Vehicle Corp (Auxilary Ofc)
E Air Vehicle Corp (Auxilary Ofc)
8873 Air Vehicle Corp precision mach shop 279-3325
Technology R & D Corporation aerodynamic research-develop 277-0664
8885 Ninety Fourth Aero Squadron Restaurant 560-6771
8888 Union Carbide Corp (Crystal Prods Dept Elec Div) 279-4500
8911 Spectral Dynamics Corp (Dymac Div) 268-7347
9020 Conic Corp electronics 279-0411
Terracom Division Of Conic Corp telemetry mfrs 279-0411
Loral Electronic Systems 279-3542
9045 Wavetek electronic 279-2200
9106 Jet Products Corp mach shop 278-8400
9110 Merville Laboratories Inc (Ship & Rec)
9150 Mc Kesson Drugs Co 278-7121
Gentec Hospital Supply Co 560-0822
PONDEROSA AV BEGINS
9212 Humphrey Inc electro mech instruments 565-6631
9233 Cubic Corp (Mfg Facility) 277-6780
Cubic Western Data (Ofc) 279-7400
9244 Maxwell Laboratories Inc (Research & Dev) 279-5100
9284 Dept Of Navy (Naval Sea Support Center) 255-5346
Naval Undersea Warfare (Eng Sta) 225-5346
9293 San Diego Fire Dept (Training Towers)
9330 Foodmaker Inc commissary-ret 571-2121
Continental Restaurant Systems restr oprs 571-2121
Jack-In-The Box Inc restr oprs 571-2121
9333 Cubic Corp (Corp Ofcs) elec mfgs 277-6780
RUFFIN RD INTERSECTS
9404 Foodmaker Inc (Annex)

565
BALBOA ARMS DR —FROM 4200 MT ABERNATHY AV EAST

ZIP CODE 92111
5150 Fiesta Apartments 571-0104
A1 Gibbs Anita A
A2★Costelow Stephanie 278-3010
A3 Zika J Michl 560-2045
A4★Hirth P
A5 Fuller Kenneth A 276-2364
A6 Maggiacomo
A7 Cutri Orlando Roofing Contractor 279-2481
A7 Cutri Orlando 279-2481
A8 Gray H
B1 Robinson Gertrude 560-9746
B2 No Return
B3 Vacant
B4★Lawler Matthew 278-8846
B5★Hotchkiss Ron
B6★Petersen Tobin 279-4338
B7 Vacant
B8 Vacant
Cunningham Judith E 268-0977
C1★Shess Tom 571-0104
C2 Vacant
C3 Yang H T
C4 Vacant
C5 No Return
C6 Condy Mary E 565-4888
C7★Trout J
C8★Shelskey Peter D
D1 Bernardini Judith E 278-4565
D2 Vetica Alex R 560-1425
D3★Matta S
D4 No Return
D5★Brown Donald E 279-4407
D6★Dorfner H
D7 Kasper Paul T 278-2442
D8★Parnacott Richd F 571-7652
D9★Allee Barbara J 268-8859
D10 Harlan Dan 274-3297
D11 Cornellius Saml
D12 Castiglione
E1 Vacant
E2★Beckner C
E3★Deakin D
E4★Frater Steve 278-5047
E5★Lightfoot D 569-8332
E6★Thomas W
E7★Newberry S
E8 Helton R
E9 Metzler Robt L 278-9540
E10★Augst Michl 571-6887
E11★Uruitia Wilson C 565-8348
E12 Watson Robt 278-6285
F1 No Return
F2★Kelsch G
F3 Vacant
F4 Scott James E
F5 Holmes Kathy A 560-8724
F6★Parkinson Cindy S 277-1665
F7 Vacant
F8★Stpehens P
F9★Harris J
F10★Winnemore N
F11★Jones Willie D 279-9134
F12 Vacant
F13★Roux G
F14★Harbin D
F15 Sheldon Robt 277-8642
F16★Barker D
F17★Lowry Patk O 571-5193
F18★Saucier L
F19★Leavitt J
F20★Zaparyniuk M
G1 Briggs Donald
G2 Kirkpatrick Gwen 269-1669
G3★Elliott K
G4★Mc Laughlin H 277-3259
G5 Vacant
G6 Laywell Margt A Mrs 277-0234
G7 Koch Ronald
G8★Tom S
G9★Lewis Scott A 277-2035
G10 Sponsel Robt L 560-8488
G11 Foor Tom
G12★Samuelson David 571-5149
5188 Park Place Apartments 279-1455
A1 No Return
A2 Vacant
A3 Vacant
A4★Braun Scott
A5 Charles Don
A6★Mc Guire Timothy 565-8756
A7★Shultz Christie S 278-6443
A8 Alrkavi Abdul A 277-7829
A9 Hicks Annette D Mrs 292-1897
A10 Dixon Earl
A11★Cornell Janet
A12 Majors Vicki M 268-3909
B1 Wagner J C 268-0171
B2 No Return
B3★Whenry Michl L 292-9857
B4★England Christy 268-4385
B5 Manjarrez Hector M 279-9836
B6★Duncan Debra L 268-4261
B7 Davis
B8★Talmich Judy
B9★Cruz Antonio 569-8609
B10 Guzman Martin
B11★Stewart Lawrence O
B12 Dowdy John
C1 No Return
C2 Corona Robt P
C3 Vacant
C4 Riley Dorothy M Mrs
C5 Vacant
C6 Goforth A 277-9804
C7★Drumond Michl D 277-2778
C8★Adams John 560-6359
C9 Vacant
C10★Farris Jack O
C11 Trushell Agnes Mrs 560-9989
C12 No Return
C13★Dark S
C14★Riley J
C15 Vacant
C16 No Return
D1 Politzer Mark
D2★Herdeg Harold L 268-4283
D3 No Return
D4 Garstang R E 278-6457
D5★Boas Dominique 569-8791
D6 No Return
D7 Brown Beverly 268-3517
D8 Brown Jas P 278-7069
D9★Rhode Peggy J 277-9858
D10 Calder Mark
D11★Snell Walter
D12 Vacant
5252 Sun'n Dale Apartments 277-3562
101 No Return
102 Espinoza Frank
103★Petrofsky Michl 569-8617
104★Larsen S
105 Branstiter Raymond P
106 Miller David
107★Mc Cue Y 279-2378
108 Hamlin Matthew R
109 Smith Lloyd
110 Dunigans Debbie
111★Kruggel Natalie L 268-8339
112★Schmidt Edw G 569-0460
113 Wallace Thos 292-1398
114 Vacant
115 Register Zelma C 279-0212
116 Vacant
117 Wright Eliz A 279-5390
118★Bergman Harry
119 Sarvis
120 Mann D F 565-7530
121 No Return
122 Vacant
123★Whitman Kristopher J 571-6246
124 Mitchell Myolanda 571-0997
125★Baysic O M 571-1481
126 Vacant
127 Bozym Cristopher R 565-9857
128★Chaney T
129 Dwyer
130 Mc Dade
131 Verbanic Francis E 560-8016
132 No Return
133 No Return
134 Vacant
135 Larson K
136 Hamilton Michl J 277-5821
137 Vacant
138★White D B
139 Vacant
140★Nelson James 278-8522
141 Williams Lloyd R 292-0785
142 Walton Val
143★Paymard Th
144 Vacant
145 Summers Kenneth G 560-9237
146 Marshall David L
147★Johnson Curtiss E 571-1541
148 Collins M E 571-8695
149 Marcus Martin S 565-2321
150 Vacant
151 Hannasch Paul R
152★Dininceo Allan
153 Blas
154 Emmons

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

Balboa Ave 1980

BALBOA ARMS DR—Contd
155 Hardin
156 Vacant
157 Jones M E 270-4868
158★Young Kevin 278-4748
159 Vacant
160 Vacant
161★Brown Richd K 279-6423
162★Williams
163 Mobile Auto Repr 565-6881
163 No Return
164★Travali Frank D 569-8580
165★Rockwell Richd 277-6952
166 Lyng
167 Vacant
168★Haerter D W 277-0463
170★Nelson Rodney 277-8246
171 Lindsey David C 292-1373
172★Jones Ernie 279-8797
173 Vacant
174★Evans April 279-2639
175★Hamme Greg 569-0274
176 Ferry Lesta M 560-7146
177 Dyer Keith E 279-6443
178★Van Gungy Chas C 279-0178
179★Rhamy Linda L 571-1283
180 Gallant Terry B 565-1250
181★Loeffler Amy B 571-2841
182★Burt Wayne F Jr 571-7639
183 Kelley Steph M 292-7922
184★Watts A M 279-3575
185★Green Darrell 278-1858
186 Vacant
187★Graham Jane A 279-6142
188 Randall V 277-8405
189★Buckwalter Norman R 298-2964
190 Aizeman Freida 560-9794
191★Martin M
200 Vacant
201 Vajgert Michl E 565-1276
202 Dresser Dennis D 292-7668
203 Mc Elwee Richd 278-6766
204★Ghodsi Mehran
205 Garcia Jose M 560-9653
206 Vacant
207 Vacant
208★Schatz Martin 279-6523
209 Vacant
210★Pabian Raiko
211★Miller Joey
212★Mediano Adolfo 278-9129
213★Hampton Chris 279-0275
214★Waddingham Thos 279-1151
215★Singson Bien C 277-6410
216 Brewer Jas J 278-1511
217★Kaylor S E
218★Herring Terri 560-6071
219★Gant Mike 268-0772
220 Mauss Robt A 292-4401
221★O'Rourke Ron S 292-4518
222★Robinson Karen 232-9438
224★Colsten Lynn 565-0452
225 Young Delores B Mrs 278-8126
226★Pedersen Barbara 292-4642
227 Plant L D 279-5005
228★Telep Timothy
229 Brown Lee
230 Terry Harry L 268-3579
231★Anthony John F 571-7638
232★Sabatino M L 569-0132
233 Pipkins Jas F 279-6783
234★Gonzalez J
235★Baldwin Hilda D 279-4381
236★Nobahar Moahmood 292-9251
237★Martin John 268-8814
238 Vacant
239★Beard Paula J 278-6383
240 Vacant
241★Koozin Linda 292-9851
242★Sorcic Carl 292-4439
243 Wimbush Clarence 278-1943
244★Plumer Sara
264★Darrow David R 569-8331
265★Lorenz Staci
266 King Danl
267★Thomas Thos N
268★Smiley K K 277-9678
269★Parmenter Annie
270★Skinner Bill 279-1503
271 Vacant
272 Mc Carthy Mary E 277-1320
273★Gates Roosevelt
274★Bullard Lawrence S Jr 569-1388
275★Plummer Lynn M
276★Buchanan Tom J 274-3885
277★Harter Mary
278★Shonkwiler Jerry
279★Cheng Dara 279-2863
280★Paymard Tahereh 569-1281
281 Vacant
282★Perez Javier 278-9528
283 Vacant
284★Albers Wm H 278-0450
285★Behrman Eric 571-5695
286★Entwisle James
287 Garner Richd T 278-6367
288★Joyner James R 268-0769
289★Yasui Arth 569-0834
290★Barnhouse Rick 569-1340
291★Stewart Cynthia 278-0149

5402 Apartments
301 Bartron Donna 277-3562
302★Simms John 278-7643
303 Vacant
304 Vacant
305★Lynch Wm 571-7642
306 Martin Norman R
306 Bernstein Danielle M Mrs
307★Lee Steven
308 Troy G L 279-6314
309★Virabalin Chukiat 268-0893
310 Anderson Wm M 565-9070
310 Kooharian Donna
311★Bradford Ronald H 278-9583
312 Simental Ron 277-9683
313★Rule Gerard 292-8814
314 No Return
315 No Return
316 Moran Michl
317 Abrams
318 Vacant
319★Alba Roy 281-5714
320 Vacant
321 Mechling Wayne M 565-7092
322★Frazier Clyde Jr 560-8631
323 Erwin Linda K
324 Myers Virginia 267-1731
325 Lord Charles W 277-6012
326★Armenta D
327 Willis R
328 Dickerson F 279-6143
329 Vacant
330 Vickers Ray L 565-8793
331★Hirata Koichi 279-9451
332 Costelloe Kevin T 278-1735
333★Joyner Alice P 565-7362
334 Bryan Woodrow Wm landscaper 268-3501
335★Thomas Michl 571-5315
336 Woolridge Adrian
337 Mumma Donald F
338 Kondo Takako 268-0231
339 Kaplan
340★Arnold Wm 278-2798
341★Mallett Connie 560-5860
342 Vacant
343 Suttles J L
344★Vachhani Jagdish 560-9413
345 Comstock Frank H 279-9420
346 Kinuaid
347 Matina Wm S 560-8017
348 Cullinan
349 Najimy Thos P 278-9949
350 Vacant
401★Thompson Ken 571-5428
402 Muenkel David 565-7089
403 Chester J 279-9681
404 Cacapit
405★Chang Choong Seock 571-5175
406 Faulk Fred A 279-9345
407 Thompson Philip L 268-8292
408 Leask Charles A 565-7608
409★Milazzo D
410★Mc Night Collis 278-2105
411 Vacant
412 Stewart Larry 277-6759
413 Adams E 292-7584
414 Vacant
415 Disralli R C 279-9170
416★Smith Dennis E 279-3230
417 Reposa
418 Mahnke Danille 292-8043
419★Gangloff Lee Jr 278-8176
420★Robertson Shirley 560-9094
437 Vacant
438★Poole Jacob H III 292-0291
439 Bacon Donald F 279-5835
440★Foster Paul 571-5206
441 Vacant
442 No Return
443★Kerry John
444 No Return
445★Bolin Clara 268-0479
446 Tomlinson Patk K 278-0372
447★Anvar S M 268-0476
448 Rollins David L 560-7573
449 Nesbit John B 278-1031
450 Hanna Albert N 278-0697

5404 Apartments
319 Veeder Peggy A Mrs
351 Vacant
352★Greene James R 292-1025
353 Badel Karen 565-7378
354 No Return
355 Vacant
356 Pappacosta John D 292-4164
357★Conyer Jon 279-9486
358★Issac Dennis 560-4584
359★Jackson C 278-7674
360★Busse Carol 222-7240
361★Emerson S D 277-2638
362 Vacant
363★Freeman Steve 279-8718
364★Roach Lew 571-5062
365 Shaw Eliz M 278-6478
366 Bhatti
367 Christensen
368 No Return
369 Nappi
370★Hayes Pam
371★Szalapski Robt 277-5942
372★Dunning James F 278-9534
373 Vacant
374★Smith Norman M 278-9534
375 Saint Clair Leslie B 292-4404
376 Golden Paul D 278-4773
451★Dawson
452 Vacant
453 Vacant
454 Miller R
455 Bruton Lois D
456★Nekoui Toad 569-0096
457 Choe Chungcha Mrs
458★Wakabayashi Akiko 278-2804
459 Porter J R 268-3665
460 Vacant
461★Courtoise Denise 279-6164
462★Thomas Hank 277-3014
463 Steber
464 Vacant
465★Badrakhan Seifeddin T 292-8371
466★White Jeff 277-3374
467 Treet
468★Cooper Donovan L 571-6287
469★Storer Robt H 277-2047
470 Vacant
471★Creehan Joe 277-3047
472 Rice Donald E
473 Vacant
474★Hudson Chas A 279-4263
475 Rhoads Gregory A 292-4679
476★Barbaro Geo J 279-3802

5544 Garden Apartments 278-5862
BUILDING A
A1 Barker Thos L 279-4652
A2★Johnson Wm H 569-1761
A3 Le Tuan 292-8567
A4★Mohseni Masoud 277-5705
A5 Vacant
A6 Cain Dave
A7★Boltz Tina 279-2266
A8★Clarke S 569-1746
A9★Canet S 278-8860
A10 No Return
BUILDING B
B1★Jones Mike
B2 Vacant
B3 Honarkar Mohammad 277-8190
B4★Johnson C
B5 Mc Inerney M 279-0352
B6 Phan Ninh K 279-0197
B7 Vacant
B8 Dixon Anne V 292-5309
B9 Keyohara Shelley D 279-8963
B10 Hammond Edw L 278-8315
B11 Vacant
B12★Brindley Larry 279-0620
BUILDING C
C1 Ricaud Eliz Mrs 278-3633
C2★Oyftte G
C3 Vacant
C4 Butela Richd 560-9406
C5 Vacant
C6★Newton Dale
C7 Vacant
C8 Thomson
C9 Fickeisen Fredk H 278-5862
C10 No Return
C11 Mc Kenzie Albert F 292-7069
C12★Loperfido T 279-4045
C13 Kovacic Tony J 571-8483
C14 Gayle Lori
C15★Nathanson Brian S 277-7666
C16 Vacant
C17 No Return
C18 Manning Foster
C19 Scoffin E S
C20 Barslou Robt
BUILDING D
D1★Royer Yvonne C
D2 Dell Ralph J
D3★Tawney Michl J 278-8543
D4 Illig Richd J 292-4573
D5 Cristokostas Geo 278-1152
D6 Piller David J 279-5006
D7 Beckes Rodger S 578-5483
8 Vacant
D9★Kakazu Karen L 278-0966
D10 No Return
D11 Lewis
D12 Vacant
BUILDING E
E1 Sadler Wm W 278-4488
E2 Vacant
E3★Hull Greg 571-2838
E4★Reed Kenneth M 569-0749
E5★Castellano Jesse 279-6252
E6★Miller Wayne J 560-9608
E7 Vacant
E8★Stitham Addington R 571-5050
E9 Rice Ruth V 277-8182
E10 Hamm-Hartzele S 560-9371
E11 Vacant
E12 Vacant
E13 Anderson
E14 Dart D 279-9698
E15★Wells Don
E16★Stevens Y
E17★Mc Means Raul 278-8325
E18 Dementer M 278-6734
E19 Jantz Steven 560-4392
E20 Marbery Donald C 571-0955
BUILDING F
F1★Van Zant Dale 571-6267
F2★Oldeman H
F3★Morning Kevin 279-1664
F4 Bauer Kurt M
F5 Iversen
F6★Gallagher D
F7 King P Michelle 278-5007
F8★Emrick Brian 569-1745
F9 Pray N
F10 Knox Vickie L 277-7466
F11★Hamby Wm Q 277-4229
F12 Chaney Ronald L
F13 Eiring
F14★Kenny P 484-1584
F15 Kundert David B 565-0731
F16 No Return
F17 Bond Jim
F18★Stoker Carl
F19 Turner Barbara
F20 Vacant
21 Hoff Gloria Mrs
22 Vacant

STREET CONTINUED

5550 Chateau The apts 279-6420
1 Sullivan Michl D 571-8629
2 No Return
3 White Sylvia Mrs 560-9864
4 Vacant
5★Salami Monireh 277-3575
6 Reynolds Judi 560-2029
7 Promenchenkel Ed 279-6420
8★Suedkamp Ed 292-7821
9 O'Dell Edwin G
10★Parker A
11★April S
12 Kovalsky Sandra Mrs 279-5971
13 Milazzo Sami A
14 Pollack Cy
15★Rice Teresa L 292-4890
16★De Ore Dave 571-0966
17 Cappasso Vincent J 292-9858
18★Hogg Patk 277-1281
19★Paul Michl
20 No Return
21 Vacant
22 Johnson Jeff 571-0543
23 Madonna Donna D
24 No Return
25 No Return
26 Scott Fran Mrs
27★Crawford Christopher
28 Cooney S D
29★Tran Kha 287-5465
30 Leister Andrew J 292-9047
31 Parker Hallie A 278-7542
32 Riley Marsha Mrs 279-8556
33★Wiss Mark
34 Litwin Mary O Mrs 565-1919
35★Redding Robt T 279-5194
36 Hinton Frank E Jr 278-9076
37 Sheldon Jas 277-3973
38 Bjorkland Archie
39 Ley Frank F 277-3485
40 No Return
41 Ainsworth J M 565-1853
42 White Howard L 279-6829
43★Edmonds Joseph 279-4728
44 Kreis Masuko Mrs 565-7016
45 Garcia
46★Van Sickle Gerald E 278-8067
47 Gabay Joseph C 560-7927
48★Nassie G
49 Baer Sandra Mrs
50 Rees Tracy A
51★Marcelo D A 268-0355
52★Cameron David 277-3040
53 Moffett Rose M 279-8409
54 Reekers
55★Montgomery R 292-4798
56 Schoenhofer Susan Mrs 560-0590
57 No Return
58★Lawrie David 560-9645
59 Quintero Ninta J Mrs
60★Goodlet D 268-8616
61★Schuldt John
62 No Return
63 Cummings Mary A Mrs
64 Barton
65★Fisher Jack 277-8114
66 Jones S L
67 Cabral Frank Jr

WESTERN RADIO ELECTRONICS

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

GENESEE AVE 1980

GEARING DR—Contd
2823 Shamp Donald D 224-1536
2824 Fisher Dale
2825 Vacant
2826★Colgan David A 224-7638
2827 Brown James P 223-3963
2828 Davis Sam 222-7510
2832★Pearce Chas M III 222-2238
2834 Vacant
2836 Stephenson James 222-6861
2838 Mc Ginnis Robt E 224-6970
2842 Aledia Edgardo
2844 Dizon Jesus
2846 Ditiangkin Bert S 224-8381
2848 Domaon Emmanuel E 224-4395

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GEDDES DR —FROM 4400 HUERFANO AV EAST

ZIP CODE 92117
3241 No Return
3247 Savelli Joseph F ◎ 270-3960
3248 Gabele J Larry
3253 Ross Barbara J ◎ 270-3267
3254 Sumner Cline ◎
3259 Weisenberg Saml ◎ 273-4549
3260 Goodman A B ◎ 273-2422
3265 Cappello Bud ◎ 272-6202
3266 Temple Era ◎
3271 Fuson Pamela 270-3418
3272 De Reamer Pete ◎ 275-2138
3279 Willan Robt F ◎ 273-3596
3282 Mc Quade Mary E Mrs ◎ 273-1035
3285 Eaton Dorothy G Mrs ◎
3291 Lincavage Leonard J ◎ 273-6658
3297 Bringas Salvador ◎ 273-5483
KAMLOOP AV INTERSECTS
3301 Crabtrey Odis O ◎ 274-6104
3311 Mc Fadden Robt D ◎ 273-5699
3323 Walter Joseph L ◎ 273-6422
3337 Gutierrez Virgil B
LA CROSSE AV INTERSECTS
3351 Burke Wm P ◎ 276-8798
3369★Monschein Mary
3381 Finney Charles E ◎ 272-2476

243

GEM LAKE AV —FROM 7600 FLAG LAKE DR NORTH

ZIP CODE 92119
6402 Myers Robt W ◎ 463-2261
6414★Johnson F C
6426 Jacobs Irvin H ◎ 469-4317
6429 Campbell Martha M Mrs ◎ 460-3015
6438 Mac Cullough Craig C 462-1077
6441 Ashmore Robt L ◎ 461-4075
6450★Lear S E ◎
6453 Luitjens Robt H 461-9462
6465 Kniebbe Roy T ◎ 465-1179
LAKE ADLON DR INTERSECTS

305

GEMINI AV —FROM 10900 HYADES WAY EAST

ZIP CODE 92126
9025 Holtz Gunter E ◎ 566-7747
9035 Stepek C W ◎ 566-2116
9045 Greenoe B
9055 Repaci Edw L ◎
9065 Benham Eric V ◎ 271-0641
9069 Zelechawski Bob ◎ 566-4051
9073 Killpack Russell K ◎ 271-5514
9077★Komarek Otto 271-7878
9081 Pamoleras Saml E ◎ 578-1262
9087 No Return
9093 Williams Gavin E ◎
PEGASUS AV BEGINS
9109★Ferrer Warlita Mrs 566-9609
9123★Peace Fred ◎
DRACO RD INTERSECTS
9137 Arquello Walter S ◎ 566-0238
9151 Balla Andre A 578-7532
9165 Philyaw Chas ◎ 578-7524
9179 Vacant
9193 Lacson Louie O 566-5240
9205★Biedermann Kurt ◎ 578-9676
9223 Tolentino Felino S ◎ 566-7864
9241 Bacani Arsenil A S
9259 Cueva Ernesto ◎ 566-7983
9277 Vacant
9295 Trentacosta Harry ◎
BLACK MOUNTAIN RD INTERSECTS

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GENESEE AV —FROM 2750 KEARNY VILLA RD WEST THEN NORTHWEST

ZIP CODE 92123

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ZIP CODE 92111
LINDA VISTA RD INTERSECTS

695

4089 Checker Auto Parts Inc 278-0444
4091 Seven-Eleven Food Store 292-1161

495

ZIP CODE 92111
4101 Salazar Taco Shop restr 571-9352
4102 Sulisky Richd C 279-5453
4104 Bingham Beatrice T 292-4832
4106 Sutter Bernice Mrs ◎
4108★Gaddy Richd 279-4953
4110 Horton Ella Jean 571-7946
4112 Clarke Billie 292-7926
4114 Josserand Richd G ◎ 277-4009
4116 Starnes Carl V ◎ 278-5578
4118 Lewis A
4130 Straub Wm E Jr ◎ 277-9426
4132 Freter L Ernest ◎
4134 Collias Robt S ◎ 278-8744
4136 Mc Kie Clara D
4138 Vacant
4140 West Raymond R ◎ 279-3957
4142 Abell James M ◎ 278-8751
4144 Hardie John D ◎ 278-6689
4146 No Return
4160 Somers Howard B ◎ 279-2018
4162 Bury Joseph J ◎ 277-4246
4164 Craw Geo A 292-0510
4166 Boles S A ◎ 571-0576
4168★Stair Lucille ◎ 268-4123
4170 Campbell Gerard 292-1258
4172 Glickman Robt E 278-0343
4174 Root Beaver L ◎ 565-7577

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ZIP CODE 92117
BALBOA AV INTERSECTS
4202 Balboa Genesee Professional Bldg Rooms
100 Beneficial Finance System 278-4261
Beneficial Income Tax Service Of Calif
2dfl Vacant
300 Vacation Samaritans non profit organization 279-6861
302 Vacant
305 Gold Ronald H phys 565-3436
309 University Professional Placement Agency emp agcy 278-1361
311 California College For Respiratory Therapy 292-4855
401 Vacant
402 Vacant
403 Davidson Paul L phys 292-0237
404 Weiss Donald H phys 560-5814
408 Pacific International Duplicating offset prntrs 292-0545
408 Fallis T J private investigator 292-0545
408 San Diego Convention Services photog 292-0545
409 Kunzman James D phys 277-4770
STREET CONTINUED
4204 Gordon Saml S optom 560-5181
4206 Poor Henry's Beauty Salon 278-2621
4210 Vacant
4225 California First Bank (Clairmont Ofc) 294-4470
4239 Vacant
4243 Vacant
4251 Bicycles N Stuff 565-6522
4255 Spa Lady women's gym 292-9669
4259 Vacant
4265 San Diego Federal Savings & Loan 292-5861
4267 Berek's Hallmark Shoppe greeting cards 560-8101
4271 Crown Beauty Supply 292-7696
4275 Paul's Pacific Gym 571-7700
4277 Picnic'n Chicken prepared foods 565-6755
4279 Trip West The gift shop 268-8444
Trip Tickets The tickets agcy 268-3838
4282 Clairemont Medical Surgical Building ofc bldg
101 Newton Wayne I phys 292-4884
4283 Oshman's Sporting Goods 560-1262
4295 Honey Baked Hams deli 565-0865
MT ETNA DR INTERSECTS
4302 Wally's Mobil Service gas sta 277-5363
4303 Cummings Bill Self Serv Shell 571-8657
4385 Vacant
DERRICK DR BEGINS
4411 Balboa Plaza shopping center
Jimbo's Liquor & Deli No 1 278-6440
4415 Mister Best Dry Cleaners 278-1050
Rug Doctor Rent carpet clnr
4417 Realty World-A Greenfield & Assocs 565-9553
4421 Balboa Pizza Place 560-1961
4423 Avco Financial Services 292-6221
4425 Shear Magic beauty salon 277-1251
4427 T G's Hair Design barber 278-3281
4429 Farmers Insurance Group 560-4743
4433 Genesee Maytag Laundry self serv
4439 Vacant
4441 Safeway Stores Inc gro 279-2332
MT FORAKER AV INTERSECTS

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CHICASAW CT ENDS
SAUK AV BEGINS
4690 Haag Russell E dentist 278-8434
Barton Wm dentist
Berman Nolan S phys 560-5566
Dixon Howard R dentist 560-5353
Hurst Thos L dentist 560-9696
Kutnik Leonard A phys 560-5566
Zielinski Frank K dentist 279-2226
4801 Childers Charles ◎
4802 Commons Jeanne M Mrs ◎ 276-7528
4811 Stoike Florence E ◎
4812 Krueger Albert R ◎
4821 Schlater Jack R ◎ 270-2270
BANNOCK AV INTERSECTS
4850 No Return
4852 Ellison Mike J 483-3806
4860 Goossens Rudolf 274-5321
4862★Flores Nicolas 483-4758
MANITOU WAY INTERSECTS
CLAIRMONT MESA BLVD INTERSECTS

567

CLAIREMONT MESA BLVD INTERSECTS
CONRAD AV INTERSECTS
4921 Weathers Terry A ◎ 274-4382
4930 Whittemore Arth G ◎ 274-3861
4931 Shambo Edw G 270-7953
4940 Mc Crackin Clyde F ◎ 274-0968
4941 Nolan Mich 276-4083
4950 Kovacevich Paul F ◎ 273-3475
4951 Mc Laughlin Wm ◎ 275-3568
4960 Hucke Lynne C Mrs ◎
4961 Hallfarth Walter H ◎ 273-8860
4970 Heath Herbert C ◎ 276-6388
4971 Ballard Russell R ◎ 273-5127
4980 Paterson Richd R ◎
4981 Karns Gary ◎ 272-2622
5001 Crow Mary H Mrs ◎ 273-6305
5002 Orsos Irene C
5011 Mason N C 273-0297
5012 Smith Wm ◎ 272-5218
5021 Gray John D ◎
5022 No Return
5031 Cote John M ◎
5032★Huey Gilbert J ◎ 275-2183
5041 Davey Donald E ◎
5042 Mc Girr Bette T ◎ 273-1837
5051 No Return
5052 Trapp Kenneth ◎ 272-7868
5062 Plush Richd H ◎ 274-5950

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SAN CLEMENTE CANYON FRWY INTERSECTS
APRIL CT BEGINS
RADCLIFF CT INTERSECTS

169

GOVERNOR DR INTERSECTS
CALGARY CT BEGINS

269

ZIP CODE 92123
A T & S F RY CROSSES
DECORO ST ENDS
8148 La Jolla Highlands Apartments
1 Bidleman Pam 455-0092
2★Shibasaki Tamotsu
3 Harris C I 453-3246
4 Keller Wm F 452-8342
5 Barker K A 452-0427
6 Lyford C 453-6931
7 Dabholkar Rajenda V 455-7869
8★Breed Greg 453-6521
9★Arnold Cheryl 453-6172
10 Guarino Andrew
11★Fletcher Bowker 457-2818
12★Lewin John E 453-3564
13 Anderson C 455-7546
14 White John 453-7640
15★Schiel Rich
16 Ebishu Keith M 455-1093
17★Saracino Francesco 453-3613
18★Bolton Ronald R Jr 453-6083
19 Schulman J
20 Tate Phillip A 455-6508
21★Lee Kenneth
22 Izac Richd 455-9416
23★Gradt Ken 457-3098
24★Yashar Farmarz 457-4695
25★Poole Fitz J 453-2098
26 Toarmina Robt J 453-4736
27★Tanaka Terence B 453-7361
28★Nieto Alfonso 452-9734
29★Ryan Susan A 453-8752
30 Kokke Wilhelmus C
31 Reiher H
32 Hocklowski Jill 453-0416
33 Dorner L
34★Stroud Tully D 457-3238
35★Pelessone Danl 453-4942
36★Detert K 452-1443
37★Lee Jessie
38★Hamstengel Norman
39 Taylor Tony S 452-8999
40 Dominiguez Rene 453-2856
41★Sprandlin Chas H Jr 457-3384
42★Filsouf Lili 453-9449
43 Stephen Kenneth E Jr 453-9532
44 Goodman Alan M 453-9388
45★Ingold Janice 455-6491
46 Doyle E V 453-4745
47 Toney E A 453-9048
48★Fowler Phil
49 Smith G T 452-8063
50 Vacant
51 Brown Henry 453-0935
52★Gildner Michl G 453-2482
53★Movius Edw 453-6850
54 Avalos Juan F 453-5007
55★Whitehurst Peggy 457-2857
56 Yamamoto B Y 455-6659
57 Korbilas Jim G 452-9528
58 Wilson James C 452-7837
59 Meyer Greg A 452-9309
60 Qualls D
61 Imuta Kazuhito 453-4051
62 Leonard Susan 455-6683
63 Lindmark Lisa 452-9824
64 Cecere Edw 453-3797
65 Knable J 455-6756
66★Sen A
67 Fox John R 453-0409
68★Quintana Laura R Mrs 457-2234
69 Tiglio Emma M Mrs 452-1788
70★Wood Robt 455-1928
71★Carter Keith 452-0779
72★Brown Robt E 453-2499
73★Craig J 453-1039
74★Tournay Fredk H 453-9088
75 Garrity A V
76★Nichols Robt G 457-4648
77★Fukey M J 455-9273
78★Zuberi Riaz I 455-9543
79 Carter Arvil E 452-8276
80★Young Barbara 457-3234
81 Bunton Julia D Mrs 453-9587
82★Ramos Armanda 453-1258
83 Barnes L
84 Zamar Aurora 453-2018
85 Mc Call M
86 Henning J
87 Reagan Frank 455-5449
88★Zuelke R
89 Thurman Ray E 453-7138
90★Ho K 457-3073
91 Moir J
92 Pluff Jeffery D 452-0447
93 Sack Sandra J 455-0187
94★Mendoza Richd 453-2570
95 Houchin G
96★Callahan Mark 457-4677
97 Larsen Inez
98★Devi Sehila 452-9835
99★Wilhelm J W 457-2711
100★Jones Norma 453-1270
101★Sandros Tanya
102 Schaffner Timothy W 452-7532
103 Rojc Karl J 455-6495
104★Lynn D
105 Dabrowski Don
106★Miyashita Masato 453-3839
107★Ling Mabel 455-7156
108★Helland Lyle 452-9914
109★Saeger James 455-6309
110 Bouadjenek B
111 Morris R
112★Aragon Ernie
113★Daviau Christopher A 452-5785
114 Shirley Graeme 452-9562
115★Hudson Wm T 452-5549
116★Lee Yutai 457-4761
117 Vacant
118★Oderman Bruce 457-4782
119 Cottle Charles H 455-0847
120★Bender Lew 455-0950
121★Watson Barbara A 457-2298
122 Fetko Dennis C dog trainer 453-9178
123 May E K 453-3893
124 Vacant
125★Goddard J G 457-4270
126 Park Chong 455-0678
127★Maiolatesi Vincent 452-8208
128 Kraft John 452-9599
129 Ramsey J
130 Mattern Daniell L
131 Kepler Norman 452-1886
132 Sokolik Susan E 453-4708
133 Gerke Duane L
134 Marsh Harrison 455-5722

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

MOUNT CASTLE AVE 1980

MT BOLANAS CT—Contd
4063 Tacoronte Gerald ◎
4064 Cumming C ◎ 571-0054

495

MT BROSS AV —FROM 5000 MT ALIFAN DR NORTH

ZIP CODE 92111
4051 Gajewski G ◎ 565-2976
4052 Muir Russell P ◎ 278-0418
4063★Tate Robt 279-1545
4064 Frost Bernard E ◎ 278-0443
4075 Rogers Frank I ◎ 278-5896
4076 Galea Mike G ◎ 277-5446
4087 Broge Virgil ◎
4088 Lyon Robt D
MT ALIFAN DR INTERSECTS
4111 Leverett M Gene ◎
4123 Rotgans Len ◎ 279-2398
4126 Butler Richd 571-1730
4135 Johnson Reynold L ◎ 277-8702
4140 Sogge Duane J ◎ 277-7914
4147 Kyes Ruth G ◎ 565-9848
4154 Mc Donald James B ◎ 278-3268
4159 Stites John C ◎ 277-6248
4171 Perkins Joseph ◎ 279-7876
4183 Wheeler Edw B ◎

195

MT BRUNDAGE AV —FROM 5000 MT ARARAT DR NORTH

ZIP CODE 92111
3815 Nelson Nels J Jr 560-0738
3825 Ames Mikle D ◎ 279-8532
3835 Mc Lean John S ◎ 560-5114
3845★Doepping R E
3855 Fisher Richd B ◎ 277-6660
3865 Lawson Thos O Jr ◎ 278-6360
3875 Bean Dwight R 565-1976
3885 White Stewart E 292-9272
3901 Dunn Danl P
3921 Wright James H Jr ◎
3931★Callahan Michael 268-3931
3941 Decesari Robt J ◎ 565-0172
3951★Tichneor Richd
3961 Chelling Timothy J ◎ 571-8823
3971 Gutzler Charles H ◎ 277-7082
3981 Wells Jettie L Mrs ◎ 277-3666
MT BLANCA DR INTERSECTS
4004 Nielsen Steph C ◎ 279-4673
4012★Mac Isaac Edw ◎ 560-4013
4020 Bentler Richd K ◎ 278-2471
4021★Preis Wm 560-7967
4029 Short Dean W ◎
4037 Robinson Regis M ◎ 278-7019
4040★Nayak Shankar K ◎ 571-0377
4045 Minch Kenneth E ◎ 278-9470
4052 Lee Ted W ◎ 279-7496
4053 Schneider Joseph F ◎ 292-7137
4060 Reindel John ◎ 292-1575
4061 Laiuppa Anthony S ◎ 278-5552
4070 Crowley Vincent L ◎ 277-0200

195

MT BURNHAM CT —FROM 5400 MT BURNHAM DR NORTH

ZIP CODE 92111
3502 Hutchins Erwin R ◎ 278-9178
3505 Stittsworth Joseph L ◎
3512 Edelblute David ◎ 278-0255
3515 Brennan John J ◎ 279-0879
3522 Bowdey Ruth M Mrs ◎
3525 No Return
3532 Wray Dudley C ◎ 279-6902
3535 Schindler Richd ◎
3542 No Return
3545 Davis Harry L Jr 277-8606
3552 Britt John J ◎ 278-8537
3555 Sena James ◎ 279-2778
3562 Greene John ◎ 279-4707
3565 No Return

195

MT BURNHAM DR —FROM WEST OF 3500 MT BURNHAM CT EAST

ZIP CODE 92111
5219 Hardaway Ernest H ◎ 278-7987
5220 Crumly Wm A 277-4628
5227 Robinson Chas F 278-6614
5230★Brown Buell L ◎ 569-8564
5235 Lawry Ray ◎ 278-3848
5240 Vacant
5243 Virissimo Zulmira R 279-1652
5250 No Return
5251 Jaffee R ◎ 560-0221
5259 Hanas Peter ◎
5260 Dodd John R ◎ 565-0169
5267 Machado Lou ◎
5270 Lantz Stuart
5275 Spanier B C 560-4335
5283★Lynch Philip J 565-7867
5291 Craigwell Ernest Jr ◎ 560-8007

MT BURNHAM PL BEGINS
5307 Gleeson Richd
5315 Choung Choonkun ◎ 560-8661
5322 Robinson Hubert K ◎ 279-2106
5323 Chou S I ◎ 560-0531
5331 Yao Raymundo E
5332 Phillips Marjorie F Mrs ◎ 292-5523
5339 Kahnamoui Z P ◎ 560-8859
5342 Mc Coy Curtis ◎ 292-5010
5347 Luther Chas 278-4698
5350 De Michele Leonardo C ◎ 278-8682
5352 Hatch Michl S 279-1568
5353 Thu Dennis ◎ 279-0775
5365 Person John L ◎ 560-1540
5377 Arnold Dixon J ◎ 278-5070
5397 Johnson Joseph D ◎ 292-4532
5404 Russo Patrick ◎ 278-0356
5417 Wenger Justin H ◎
5418 Mc Morran Donn ◎ 268-8163
5432 Milch Nancy P Mrs ◎ 277-9910
5446 Vacant
5451 Yelton Jack J ◎ 571-8792

195

MT BURNHAM PL —FROM 5300 MT BURNHAM DR SOUTH

ZIP CODE 92111
ZIP CODE 92111
3460 Dunn Woodrow M ◎ 277-3907
3461 Harris J M ◎ 277-3685
3470 Cates Donley B 560-9385
3471 Finley Donald L ◎ 278-4433
3481 Khouri Fawaz 279-3494
3490 Devigili Lewis A ◎ 565-4027
3491 Harrison Clifford ◎

695

MT CAROL DR —FROM 5650 TAMRES DR NORTH

ZIP CODE 92111
3108 Prescott Carlene ◎ 279-2265
3109 Barnett C ◎ 560-4737
3118 Elliott Wm B 279-1944
3119 Ferguson Edwin R ◎ 292-4788
3128 Uzdavines Andrew J Jr ◎
3129 Mc Clintock Leonard ◎ 278-4081
3138 Nettles John F ◎ 279-7525
3139 Shryock John R 565-9765
3148 Taylor Ronald L ◎ 279-3580
3149 Simmons Lawrence E ◎
3158 Montgomery Wm W ◎ 279-0370
3159 Gontkon Albert A ◎ 279-0477
3204 Pierce Wm L ◎ 277-2940
3205 Peil Forest W ◎ 277-7406
3212 Flint Kenneth R ◎ 292-7270
3213★Phoebe Pasquel Q ◎ 279-3845
3222 Couch Wm E ◎ 277-8343
3223 Ruby Bob L ◎ 277-2221
3232 Nelson Alan W ◎
3233 Pippitt Robt G ◎ 278-0350
3242 Meyer Max L ◎ 277-3164
3243 Deane Bob ◎ 571-1595
3252 Lomack Wm J ◎ 279-1610
3253 Anselm Edwin ◎ 279-7885
3262 Norman Carl ◎
3263 Briggs Christine ◎
3273 Hawes James A ◎ 277-7587
3276 Luxford Harry ◎
3283 Charnley Wm ◎
3286 Kabaci John ◎ 278-5307
3293 Zysk Warren 279-6548
3304 Armijo Ted ◎
3307 Schurr Wilson E ◎ 279-0828
3314 Hodges Forrest L ◎ 560-8573
3317 Mantel Harold T 292-8398
3324 No Return
3327 Manuel Robt M ◎ 277-4190
3334 Thompson Wm R ◎ 277-5174
3337 Mitchell Wm
3344 Peterson David ◎
3347 Raggio Allen J
3354 De Long Stanley V Rev ◎
3357 Chapman R M ◎ 560-8691
3364 Airhart Leslie F ◎ 277-2936
3367 Flynn Parker G ◎ 278-8879
3374 Mc Gucken Paul M ◎
3377 Vacant
3384 Palmus Peter R ◎
3387 Reichert V M 571-0808
MT ACONIA WAY INTERSECTS
3405 No Return
3410 Mc Elhaney James F ◎ 292-7496
3415 O'Toole P A ◎ 278-1489
3420 Friis-Hansen Sue E ◎ 565-4057
3425 Coller Richd R ◎ 279-9062
3430 Harris Kendall ◎ 571-0469
3435 Riddle Caroline ◎ 279-9087
3440 Naugle Alvin B ◎ 278-3634
3445 Nolan Maurice J ◎ 277-3291
3450 Morton Earl F ◎ 277-1468
3455 Larson Wendell G ◎ 565-0231
3460 Spoon Robt A ◎ 292-8565
3465 Marnane Michl J 565-9724
3470 Maw Dale M Rev ◎ 279-0327
3475 Adams Elaine L Mrs ◎ 560-4569
3480 Adsit Patricia K Mrs ◎ 278-7257
3485 Barger Wm R ◎ 292-4185
3502 Sturdivant Robt M ◎ 279-6594
3505 Mc Cann Paul A Jr ◎ 279-5019
3512 King Steph P 277-9234
3515 Hull Joan 292-9040
3518 Giamanco Andrew ◎ 565-0979
3524 Johnson Robt T ◎ 560-6650
3525 Kepner Thos A ◎ 277-8420
3530 Dinkins Hubert D ◎
3536 Simon Iris Z Mrs ◎ 565-2583
3542 Bodenhamer Lee ◎
3548 Clarke Wm E ◎ 278-0201

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MT CASAS CT —FROM 4700 MT CASAS DR SOUTHWEST

ZIP CODE 92117
4201 Whalen Edw A ◎ 278-2136
4220 Lambrou Peter P ◎ 278-1567
4221 Willcutt Ward E ◎
4240 Larghey Peter J ◎ 278-8060
4241 Solotwinsky Steven ◎ 278-1033

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MT CASAS DR —FROM 4700 MT DURBAN DR EAST

ZIP CODE 92117
4730 Graves Jeffrey R ◎ 279-6873
4743 Phillips Roy ◎
4746 Wilcox Ronald C ◎ 565-0273
4753 Chandler Robt 279-1998
4760 Streeter Theodora G Mrs ◎ 565-0362
4763 Kulicks Herbert ◎ 279-3351
4772★Thomas E A ◎
4773 Parker Charles R 560-5416
4782 Scott Robt E ◎ 278-2393
4783 Casey Herman L ◎ 278-7596
4792 Serafin John 279-1335
4793 Prue Kenneth P II ◎ 279-6891
4802 Larson Eug S ◎
4803 Vacant
4812 Keating Harvey E ◎ 279-3181
4813★Allen Steve ◎
4822 Knox Wesley J ◎ 278-1461
4823 Hurst Charles E ◎ 292-9878
4832★Emmert Lynn Mrs
4833 North David M 560-7256
4842 Oatman C Geo ◎ 277-6474
4843 Jamieson Betty J Mrs ◎ 277-3109
4852 Rosehill Russell E ◎ 560-7639
4853 Ingoldt Kit S Mrs ◎
4862★Pacheco Gilbert N 268-3907
4863 French Wm N ◎ 279-5184
4872 Hale Everett W ◎ 279-1585
4873 Thomas James E ◎ 278-1391
4882 Schneider James W ◎
4883 Copley Arthur 277-5035
4892 Arnett Warren J ◎
4893 Anthony Ruth W Mrs ◎ 278-1237
MT CULEBRA AV INTERSECTS
4910 Engbrenghof Lew C ◎ 278-3716
4911 Sanchez Domingo P ◎ 565-0609
4923 Merlo Santo V ◎
4924 Turk Al 277-1770
4937 Ragnanese Antonio ◎
4938 Vacant
4949 Lachman M R Mrs ◎ 565-0992
4950 Russell Beverly J Mrs ◎
4961 Parrent Jan E ◎ 278-0152
4962 Rollins Saml L ◎ 565-2571
4971 Kates Robt J ◎ 292-6178
4972 Pagan S K ◎
4981 Wylie Emmie I Mrs ◎
4982 No Return
5001 Peterson Ethel M ◎ 277-4595
5002 Danforth Richd E ◎
5011 Barela Eug F 279-3576
5012 Johnston Paul P 277-1641
5021★Lain Stephen T ◎ 569-8616
5022 Frazier Robt W ◎ 278-7538
5031 No Return
5032 Stevenson John C Jr ◎ 277-7336
5041 Palmer Ruth Mrs ◎ 277-9831
5042 Hoerman Frank ◎
5051 Hedval Stephen E 268-0278
5052 Schleif Dean E ◎ 277-1523
5061 Kelly Leroy J ◎ 278-0378
5062 No Return
5071 Adams Francis J ◎ 277-6925
5072 Berkos Paul ◎ 277-8884

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MT CASTLE AV —FROM 4200 MT EVEREST BLVD EAST THEN NORTH

ZIP CODE 92117
4201★Wood Carol A 565-2125
4210 Mc Stay Robt D ◎ 278-1204
4215 Gossett Warren R ◎ 277-7378
4227 Henderson Larita L Mrs ◎ 279-0918
4239★Shadley Jacques J 277-7435
4240 Westbrook Thos D ◎ 279-2358
4251★Stambook Randy E ◎ 560-7487
4256 De Boef Robt E ◎ 279-0733
4263★Lauer Ralph
4303 Brown Donald R ◎ 277-7562
4304★Hill Dale ◎ 277-5354
4313 Lee Roy G ◎ 277-7408
4314★Watson Coy 571-6206
4323 Tooker Geo T ◎ 277-7433
4324 Langworthy Charlie ◎
4333 Telfer Clifford A ◎ 277-2383
4334 Spieker Ferdinand B ◎ 277-7418
4343 O'Rourke Charles L ◎ 277-7405
4344★Barber Carolyn
4353 Stelzner Raymond R ◎ 277-3833
4354 Garner Hideko ◎
4363 Cutting Marjorie 279-6172
4364 Garver Arth S ◎ 279-9034
4373 Roguz Mary Mrs ◎ 279-0496
4374 Ganoe James T ◎
4383 Price Eug C ◎ 571-2880
4384 Stevens Fredk C ◎
MT ETNA DR INTERSECTS
4401 Knowles Wayne ◎ 279-6939
4402 Rieger Henry G ◎ 278-4426
4407 Cyr Marie M Mrs ◎ 277-7436
4408 Brisebois Germain A ◎ 277-5877
4413★Adams Clyde
4414 Board Lloyd ◎ 277-7413
4419 Mead James G ◎ 279-2884
4420 Wadley Joseph D ◎ 277-7023
4425 Ramberg Helen L ◎ 277-7603
4426 Edwards David W ◎ 292-0538
4431 No Return
4432 Halleluyah Choppers 279-8333
★Haygood Geo T 279-8333
4437 Snyder John W ◎ 278-0395
4438★Baker James W
4443 Ankeney Clem W ◎ 277-8316
4444 Jaszewski Donald E ◎ 292-1348
4449 Hermsen Wm H ◎ 565-1036
4450 Poff Emory G ◎ 278-2815
4455 Robertson John M ◎ 565-8958
4456 Groot Thos N ◎ 565-4437
4461 Cedillo Santos ◎ 565-0114
4462 Clark Donald L ◎ 277-7424
4467 Kazyaka John P ◎ 279-5783
4470 Mc Killip Keith W ◎ 278-8323
4473 Chandler Lorraine
4479 Kane Donald ◎ 279-3767

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MT CERVIN DR —FROM 4800 BOXWOOD AV NORTHEAST

ZIP CODE 92117
4708 Dawson Howard W Jr ◎ 279-8809
4709 Wylie Wm L ◎ 278-8930
4716 Montisano Anthony J Jr ◎ 277-9126
4717 O'Brien
4724 Lavigne Edmund G ◎ 279-0664
4725 Bittner Marion
4732 Telles James T ◎ 278-3104
4733 Aguirre Armando S 277-7903
4740 Romero Renan S ◎ 279-3245
4749 Ortiz Louis
4750 Le Moine Richd J ◎ 279-5758
4757 Whipp Douglas P ◎ 277-2274
4758 Michel E John ◎
4765 Maska Karl L ◎
4766 Josephson Jerry T ◎ 279-7717
MT ST HELENS INTERSECTS
4773 Fahlstrom Edw J ◎
4781 Kellman Deborah Mrs
4789 Do Phong X ◎ 278-1068
4797 Crandall Geo H ◎ 278-1616

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MT CRESTI DR —FROM 4750 DIANE AV NORTH

ZIP CODE 92117
4742 Meyer C A ◎
4745 Cramer Bonnie
4750 Challen Robt H ◎ 276-6458
4758 Harrington Karen
4759 Cavert Madeline T Mrs ◎ 278-3874
4766★Gassert L 278-7104
4767 Duffy Dorothy Mrs ◎ 279-4068
4772 No Return
4774 Neverman Ronald H 277-1669
4775 Kucynski Edw H ◎
4782 Denniston Earl W ◎ 277-3796
4785 Young Charles W ◎
4792 Schaffner Thos D ◎

193

MT CULEBRA AV —FROM 4900 MT ALIFAN DR NORTH

ZIP CODE 92117
4260 Diaz Jack H ◎
4265 Berry Laura J ◎
4268 Vacant
4273★Fox Jos 571-0276
4276 No Return

Mildred Hawkins and Associates Serving San Diego Since

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

MOUNT ETNA DR 1980

MT CULEBRA AV—Contd
4281 Southard Conard B ◎
4284 Blackington Kenneth J ◎ 277-6664
4289 Swift Roger K ◎ 560-7625

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BALBOA INTERSECTS

495

MT CULEBRA CT —FROM BALBOA AV SOUTH 1 NORTHWEST OF MT BAGOT AV

ZIP CODE 92111

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MT DAVIS AV —FROM 4300 MT FOSTER AV NORTHEAST

ZIP CODE 92117
4201 Murphy James L ◎ 278-1796
4202 Maltman Phyllis ◎ 292-9569
4214 Mason James S ◎ 278-3540
4215 Palmer Norval L ◎ 277-0772
4227★Turner H B ◎
4230 Gallagher James V ◎ 278-5623
4241 Bryant Ruth D Mrs 277-7573
4255 Powell Wayne G ◎ 277-6375
4267 Clemons Ralph K ◎ 278-3671
4270 Manning J Rip ◎ 292-9127
4271 Stenberg Kent ◎ 292-1751
4285 Kelly Richd L 279-2883
4286 Mathews Wm W ◎
MT CULEBRA AV INTERSECTS
4302★Ricciardulli Guy A ◎ 560-6651
4307 Magnuson Alta Mrs ◎
4308★Martin Michelle ◎ 268-0293
4313 Campbell Ervin O ◎ 278-3187
4314 Vegvary Zoltan
4319 Cumper Wm G ◎ 277-5263
4320 Greenhalgh Robt ◎ 279-3176
4325 Knight Charles ◎
4326 Sowers Roy D ◎ 278-8896
4331 Buckley James P ◎ 560-0313
4332 Sherman Evona G Mrs ◎ 277-5600
4337 Tenneson Donald A ◎ 278-5059
4338 Tevis Edwin E ◎ 278-3401
4341 Richardson Dennis W ◎ 279-8127
4344★Olsen Don
4345 Danner Constance R Mrs ◎
4348 Hensel Donald E ◎ 278-3673
4349 Smith Marvin D ◎ 277-8850
4355 Palestini Louis A ◎ 279-7773
4361 Rodriguez Raymond ◎ 279-3769
4371 Horiye Chas M ◎
4381 Kehew Geo M ◎ 277-9369
4391★Adkins Bill ◎ 560-8768

193

MT DURBAN DR —FROM 4700 MT CASAS DR NORTHEAST

ZIP CODE 92117
4701 No Return
4704 Parker Chas G ◎ 279-2393
4714 Johnson Edw M ◎ 278-2291
4724 Sinfield Leonard S ◎ 279-6582
4725★Slimak Venise A ◎ 560-6803
4734 Wall Clyde F ◎ 278-2196
4744 Ashley Mark L ◎ 278-2384
4745 Boyce Milford R ◎ 278-0548
4754 Dahl David ◎ 565-2801
4755 Mc Leese J Kenneth ◎ 278-2032
4764 Mersereau Isabella M Mrs ◎ 277-2880
4765 Genzler Fred ◎ 292-5788
4774 Torbert Al ◎ 565-7290
4775★Green Charlie ◎
4784 Hunter Robt A ◎ 278-9318
4785 Taylor Datha D Mrs ◎
4804 Butler Thos ◎ 565-2256
4805 Zorn J Vincent ◎ 560-1379
4814 Davis Wm H ◎ 278-9613
4815★Wilson Victor
4824 Hoover Charles L ◎ 278-2288
4825 Crockwell Dental Laboratory 560-1350
Crockwell Frank L 560-1350
4834 Rymer Harry A ◎ 278-1573
4835 Jones Raymond L Jr ◎ 565-1583
4844 Begley Fred ◎
4845 Vacant
4854 La Rosa Leonard ◎ 277-7669
4855 Burgie Robt J ◎ 279-9195
4864 Schaper Norvin H ◎ 279-6219
4865 Baney Richd L ◎ 277-6641
4875 Watson Tom B ◎ 278-5891
4876 Vacant
4885★Thomas Wayne B 560-5206
4888 Newman Bruce F ◎
MT CULEBRA AV INTERSECTS
4903 Bristow Wm A ◎ 277-7317
4904 Luckey Connie 278-2089
4923★Thomas Michl
4924 Torres Frank ◎ 560-0169
4943 Whiting Dave 292-7865
4944 Salgado Victor ◎ 279-9605
4963 Holt Alice K Mrs 278-0357
Holt Roy C ◎
4964 Lindsay Grant M ◎ 279-0409
4973 Hritz James E ◎ 277-7294
4974 Perez Jose S ◎ 277-8435
4983 Whitehill Paul H ◎ 278-5208
4984 Flores Oscar ◎ 278-5340
5003 Daniels Charles H ◎ 279-3384
5004 Sabo John ◎ 565-8218
5013 Allan Lewis E ◎ 277-4394
5014 Kemmerer Michl P 279-9624
5023 Schwatzer Ralph ◎
5024 No Return
5033 Tuttle Glenn M 277-7837
5034 Carter Smith L ◎
5043 Ciardi Louis F ◎
5044 Free Joe E ◎ 279-4518
5053 Nelson Florence E Mrs ◎
5054 Vacant
5063 Jones Kenneth E ◎ 277-7327
5064 Harper Theresa R Mrs
5073★Daggett Ronald ◎ 277-6222
5074 Holmes Claude W 278-5520

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MT ELBRUS CT —FROM 4900 MT ELBRUS DR SOUTH

ZIP CODE 92117
4307 Watring James E ◎ 277-0762
4315 Eldridge Albert L ◎ 279-5471
4325 Dorian Mark F ◎ 278-3942
4330 Henry Michl L ◎ 565-1760
4337 Gruner Oskar ◎ 279-2341
4338 Romine Onus M ◎ 277-8762
4345 Lemasters Max E ◎
4346 Hart S L 565-2855
4353 Nelson John F ◎ 292-4503
4354 Pratt Jerry A 292-1507

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MT ELBRUS DR —FROM WEST OF 4500 MT FORAKER AV EAST

ZIP CODE 92117
4802 Vacant
4807 Bell L Barclay ◎ 277-1722
4810 Mc Kenzie Donald J 277-9098
4817 Laughead K ◎ 279-2619
4818 Strang Michl B ◎ 279-9148
4825 Morgan Sherman M ◎
4826 Kendig Frank P ◎ 571-0042
4833 Snyder Frank J ◎ 277-3034
4834 Arledge G Edw ◎ 278-5397
4843 No Return
4844★Krysinski Joseph J ◎ 278-3361
4853 Mc Quaid Robt W ◎ 279-5827
4854 Johnson Norman F ◎ 279-1252
4864 No Return
4874 Johnson Steven O 277-2773
4884 Mendenhall Kathleen F Mrs 292-5747
4885 Blackburn Gerard S ◎ 277-8827
4894★Watson D A 279-8377
MT FORAKER AV BEGINS
4901★Bradberry Sara
4911 Graham-Marr David R ◎ 268-8044
4912★Mc Laughlin Geo ◎ 279-6547
4920 Salisbury Sherman C ◎ 560-5867
4921 Cooper Allan G ◎ 277-9725
MT ELBRUS CT BEGINS
4928 Dowdle Herbert E ◎ 560-9038
4931 Vacant
4936 Daigle Robt E ◎ 292-5061
4941 Haack Richd J ◎ 278-2126
4944 No Return
4951 Christiansen Arnold M ◎ 277-8807
4952 Frost Philip S ◎ 278-2649
4962 Grover Michl R 279-5235
MT FOSTER AV INTERSECTS
4971 Gardner Josephine ◎
4972 Farrell John H ◎ 278-0876
4981 Burner Michl A ◎
4982★Nation Jacques E 569-0726
4991 Taylor W Noel ◎ 277-5115
4992 Leonard Roger J ◎ 279-0095

493

MT ETNA DR —FROM 4500 MT HERBERT AV EAST

ZIP CODE 92117
4618 Degraef Hendrik ◎ 571-0466
4630 Stites Larry J ◎
4644 Hersey Wm B ◎ 292-1469
4658 Smith Vincent W ◎ 292-5806
4670 Aschbrenner Rod M ◎ 277-1826
4684 Rossetti Jack M ◎ 278-9192
4702 Whitacker Larry L ◎ 277-3638
4714 Merrill Robt M ◎ 279-6460
4728 Cabral Ruby Mrs ◎
4740 Smith Sidney E ◎
4741 North Clairemont Little League youth club
4752★Segall Michl 277-5336
4764 Stewart Clarence E ◎ 278-6553
4776★Hofmann Robt ◎
4788 Rolla Edna V Mrs ◎ 278-4473
4802★Hamrer Sue 569-1432
4811 Reorganized Church Of Jesus Christ L D S 279-6974
4812 Oro Max A ◎ 278-3668
4822 No Return
4831 Francis Dean E ◎ 278-4268
4832 Nichols Reginald J ◎
4841 Aitken Jacqueline M Mrs ◎ 279-4675
4842 Vacant
4851 Colton Dorothy M Mrs ◎ 278-5481
4852 Vacant
4861★May Patricia
4862 Hoyt Gloria A Mrs ◎
MT FORAKER AV INTERSECTS
4901 Burgess Donald E ◎ 277-5247
4902 Riegle Bryan D ◎ 277-5027
4911 Person Kenneth ◎
4912 Branch Madeline R Mrs ◎ 278-9554
4921 Steinfort Richd ◎ 278-1619
4922★Chanan Sanya 571-7360
4931 Kurtz Frank J ◎ 279-8141
4932 Clift John W ◎ 278-5826
4941 Edmonson Charles A Jr ◎ 277-8651
4942 Earner Cath R Mrs ◎ 278-9899
4951 Ingersoll Geo W ◎ 278-0183
4952★Romero Oscar ◎ 277-2483
4961 Mc Laughlin Clarence L ◎ 278-0422
4962 Vacant
4971 Mickelson Helen L Mrs ◎ 277-0131
4972 Dipietro Amy Mrs 268-3186
4981★Johnson Arth L ◎ 279-7792
4982★Patio Manuel ◎ 278-8073
4991 Tomaiko Steve J ◎ 278-0421
4992★Tinker Calvin R ◎ 268-0650
MT DAVIS AV INTERSECTS
5002 Hubert Steven M ◎ 278-0220
5012 Sheldon Robt M ◎ 571-5490
5022★Brindell Chas ◎ 571-8979
5032★Loussia Michl ◎ 277-3422
5042★Jonte Sandra ◎
5052 Powell Ulner G ◎
5062 Lee Curtis S ◎ 292-8824
5072 Mead Claude F ◎
MT EVEREST BLVD INTERSECTS
MT CASTLE AV INTERSECTS
5255 Clairemont Community Hospital 278-8100

195

MT EVEREST BLVD —FROM 3400 MT ARMOUR DR NORTH

ZIP CODE 92111
3402 Bertelsen Thos A ◎
3406 Page Richd R ◎ 279-0675
3412★Defarcy Dave
3416 Renick Richd D ◎ 277-8982
3422 Crane Grant ◎ 279-3293
3425 No Return
3426 Shelby Robt I 278-8996
3432 Heyligers Eug A ◎ 277-5777
3433 Berney Robt T ◎ 268-3493
3436 Hauss Philip J ◎ 277-3689
3439 De Corse Henry A ◎ 278-5957
3442 Hays Frederick J ◎
3445★Kuiper Wm ◎ 278-9426
3446 Vacant
3452 Vacant
3453 No Return
3456 Ashby Dennis A ◎ 278-4673
3461 Vacant
3462 Ashton Steven D ◎ 571-0248
3465 Gianquinto Mary E
Allen Frank Ronald
3466 Long John D ◎ 279-6750
3471 Russell Lucy R Mrs
3472 Ridenour Christine M Mrs ◎ 292-7651
3475 Bourgeois Clifford J ◎ 279-6669
3476★Kirvin Marvin D 571-1651
3481 Ratta Everett E ◎ 279-7926
3482 Schmitz Gerda M Mrs ◎ 292-5050
3485 Torrance Wm L ◎
3486 Reynolds Richd G ◎ 279-8803
3491 Vacant
3492★Ture Ken M ◎ 560-8873
3495 Dolan Geo W Jr 292-4444
3496 Bickler Raymond M
MT ARMOUR PL INTERSECTS
3504 White Charles 560-1072
3510 Moses Brad 277-9252
3513 Casper James ◎
3516 Mc Leod Carl ◎ 279-2817
3519 Gongora Danl 560-1454
3522 Dyson Stanley C ◎ 279-6521
3525 No Return
3528 Frude Jerald ◎
3531 East S A ◎ 565-2713
3534 No Return
3537 Reynolds Ila R Mrs ◎ 279-3342
3540 Guise Frankie 560-1828
3543 Payton John J ◎ 279-2160
3546 Fitzmorris Bob H ◎ 277-9063
3549 Pierson Frank D ◎ 278-6296
3552 No Return
3555 Crane Crim D ◎
3558 Gaines Mindy S
3561 Marshall Jo Ann ◎ 278-1067
3564 O'Rorke Carole Ms ◎ 277-9096
3567 Beals James H 279-3076
3570★Williamson Gale ◎ 279-9865
3573★Hendrix James 279-0748
3576 Haas Ray A ◎ 277-5148
3579 No Return
3584 Vargas Frank ◎ 571-0447
3587 Urias Gonzalo T ◎ 279-1989
MT BLACKBURN AV INTERSECTS
3601 Perry Tom A ◎ 278-9078
3617 Boyd Jerry A
3625 Van Stelle Jack ◎ 279-3812
3633 Livingston Brenda M 279-9991
3640 Sliwa Raymond J 277-4088
3645 Clemens Maurine P Mrs ◎ 277-6322
3657 Pate James T ◎ 279-1374
3660 Camba Taurino O ◎ 278-1049
3669 Pamaran Ricardo C ◎ 279-5118
3681★Gelbart Enrique 571-6182
3689 Downhill W J ◎ 278-0930
3697 Lewis James C 292-4068
MT ASHMUN DR INTERSECTS
3701 Cole Calvert G ◎ 278-8560
3710 Beyersdorf Althea N Mrs 277-3004
3717 Mullen Ronald ◎ 279-7547
3718 Delconte Emidio ◎ 560-5962
3725 Pond Wm R ◎ 277-4721
3726 Lampkins Gerald W ◎ 278-0373
3735 No Return
3736 Anding Michl
3745 White Erwin
3746 Patterson Duncan W ◎ 278-6247
3755 Norgard Geo ◎
3756★Ernst Richd W 292-1237
3765 Whiteley Ross R ◎ 278-4986
3766 Walery Kenneth F ◎ 565-1017
3775 Sturre Gerald K ◎ 279-1026
3776 Vacant
3785 Davis Jack W ◎ 279-7608
3786 Kokes Cecile M Mrs ◎ 278-2726
3795 No Return
3796★Lane R R ◎
MT ARARAT DR INTERSECTS
3801 Elias Justin J ◎ 277-3350
3813 Di Stefano Robt O ◎ 292-1527
3814 Harpin Normand A ◎ 278-8020
3825 Boysen James C 279-6906
3826★De Shon Tom 569-1418
3838★Raftery M G 278-3299
3839 Stephens Oscar L ◎ 279-4694
3850 Teigen Gary A ◎ 279-8450
3855 Woodward Billye C ◎ 278-2709
3867 Wahl Edw R ◎ 278-5478
3874 Bancroft Glenn W ◎ 277-4004
3883 Whittum Harold E ◎ 292-0108
3886 Chiappi Wm ◎ 278-4593
3906 Zeiss Elliott R 277-8194
3907 Sarvis Robt W ◎ 277-9515
3920 Ferguson Everett C ◎
3921 Antczak Arth J ◎ 279-1285
3934 No Return
3935 Stecker Linwood M ◎ 278-3403
3948 Powell Ridgely W ◎ 278-8495
3949★Cohen Nettie S ◎ 277-1314
3955 Lux Mary G Mrs ◎ 278-4368
3956 Logsdon Paul ◎
3961 Toennessen John M ◎ 279-7988
3964 Koch Arnold C ◎ 278-4799
3967 Palmer Nancy D ◎
3972 Warb Viola
3973 Leonard Barbara Mrs
3979★Natison Michael 571-5142
3980 Rotnour Dorothy T Mrs ◎ 278-9394
3987 Fahnestock A J ◎ 277-2027
3988 Rothstein Oscar D ◎
3995 Anderson James A ◎ 278-4536
3996 Burksaze Phil F ◎ 278-6006
MT BLANCA DR INTERSECTS
4001★Maldonado C F 569-1234
4002 Steed G M ◎
4009 Lakin James A ◎ 278-0515
4010 Stepanik Lawrence G ◎ 278-9367
4017 Hennings Gerald E ◎ 292-9420
4018 Merritt Brooks P ◎ 565-8331
4025 Ingle Harry B ◎ 565-4229
4026 Hageman Walter F ◎ 278-0107
4033 Marshall Larry ◎ 292-5431
4034 No Return
4041 No Return
4042 Blake K C ◎ 277-8723
4047 No Return
4048 Kawamura Ikunosuke ◎ 279-1690
4053 Adams Delno W ◎ 279-3465
4054 No Return
4059★Acciani Tobias ◎ 292-9966
4060 Colston James D ◎ 278-3302
4065 Schrank Stanley D ◎ 565-6449
4066 Antilla Aurie A ◎ 292-5816
4071 No Return
4072 Cook Arth J Jr ◎ 277-0763

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SAN DIEGO, CALIFORNIA 92111
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MOUNT EVEREST BLVD 1980

MT EVEREST BLVD—Contd
4077 Walsh Martin G ◎
4078 Vitolo
4083 Menches Le Roy G ◎ 278-0488
4084 No Return
4089 Hornback Ron L ◎
4090 Sewell Kathryn E Mrs ◎ 565-1898
4095 Kassis Thero W ◎
4096 Fagan Rosemary M Mrs ◎ 277-3573

495
MT ALIFAN DR INTERSECTS
4101 Fisher Ronald R ◎
4102★Ferguson L L Mrs 277-9996
4111 Parcanica Richd J 571-1351
4112 Falkner Joseph E Rev ◎ 565-7541
4121 Sanders Jack L ◎ 279-4174
4122 Paskowicz Camille ◎ 279-4207
4131 Harkness James L ◎ 277-8995
4132 Brinkerhoff Mildred M Mrs 277-0490
4141 Potts Gerald L ◎ 279-0850
4142 Mac Donald C E ◎
4151 Bonifas James D ◎
4152 Meitl Craig 279-6790
4161 Holland Danl E ◎ 277-1332
4164 Merritt Clifford M ◎ 278-2953
4171 No Return
4176 Schneid Thos R 268-0391
4181 Schunemann Jurgen 560-4610
4190 Palmestry Entertainment palm reader 571-7881
★Marks Roy ◎ 571-7881
4191 Koch Fred F ◎ 278-0180

493
ZIP CODE 92117
BALBOA AV INTERSECTS
4241 Dehn Lawrence F ◎ 277-0824
4261 Jardim Frank S ◎ 560-4060
MT DURBAN DR INTERSECTS
4301 Almeleh Morris ◎
4311 Rutland Oscar B ◎ 278-2011
4321 Lundquist Paul G 277-8840
4331 Burton Richard A ◎
4341 Wells Thornley W 278-8578
4350 Wiggin Kate Douglas School 277-9091
4351 Bozzo Vincent J ◎
4361 Blais Raymond C ◎ 278-1479
4371 Dill Wm G ◎ 278-4715
4381 No Return
MT ETNA DR INTERSECTS
4401 No Return
4409 Pena Julian A ◎ 278-5384
4417 Christiansen Robt J ◎ 278-2007
4425 Hoyle Frank E ◎ 277-7323
MT FRIZZEL DR INTERSECTS
4433 Zims Richd ◎ 278-1252
4441 Shepard Ralph J ◎
4449 Herrick Leota M Mrs ◎ 279-6674
MT GAYWAS DR INTERSECTS
4453 Curley Fredk R ◎ 278-4633
4461 Mattenklodt Hans ◎ 277-3403
4467 Mc Kinney Wm B Jr ◎ 278-2242
4473 Leisinger B L 279-6196
4476★Rosario Luisito Del 268-8635
MT HAY DR INTERSECTS
4481 Chalmers Burl E ◎
4489★Mc Cullough Patricia ◎
4490 Lucas John H ◎ 565-0923

193
MT FORAKER AV —FROM 4900 MT ELBRUS DR NORTHEAST

ZIP CODE 92117

493
4551 Hertig Wm S ◎ 279-5576
4561 Tripp Donald L gdnr 277-2088
4571 Carey Richd ◎
4581 Bettenhausen Alice H ◎

193
MT FORDE AV —FROM 4200 MT VOSS DR NORTH

ZIP CODE 92117
4601 Mc Cleary James R ◎ 278-8737
4602 Mc Crary Gary W ◎ 278-2368
4611 Geiger Charles E Jr 278-9735
4621 Book Danny M 278-1946
4631 Martin Marvin R Rev ◎ 278-2317
4641 Hill C A & Assocs Inc mfrs rep 560-6368
Hill Charles A 560-6368

193
MT FOSTER AV —FROM 2400 MT DAVIS AV NORTHEAST

ZIP CODE 92117
4251 Palmer Derek J 292-0350
4252 Campbell Melvin R ◎ 278-5037
4261 Doyle Patrick J ◎ 279-3641
4262 Anderson Harold A ◎
4274 Thomas Janet L ◎
4286 Relyea Richd E ◎ 278-2823
MT DAVIS AV INTERSECTS
4302 La Vaut Mary M Mrs ◎ 279-1890
4308 Vacant
4309 York Paul C ◎ 279-1273
4314 Lewis Marjorie C ◎ 278-2822
4315 Hachten Raymond C ◎ 278-2121
4320 Walbaum Donald D ◎ 279-0757
4321 Sandoval Santiago K 277-0973
4326 Hohnhaus Geo W ◎ 278-2448
4327 Floersch Albert A ◎ 279-6614
4332 Smith Marcus E ◎ 278-2449
4333 Delaney Terance E ◎ 279-9644
4338 Hall Richd K ◎ 277-6803
4339 Sullivan Ronald D 560-0866
4344 Ybarra Richd S ◎ 560-6717
4345 Stoyanow Norma F Mrs
4350 Palmer Elmore C ◎
4351 Callahan Margt S Mrs ◎
4356 Torbett Wm H ◎ 277-2799
4357 Moren C R 277-3962
4362★Meisenback Lee 569-0147
4363 Ibarra Rogelio M ◎ 277-1150

493
MT FRISSELL DR —FROM 4500 MT GAYWAS DR SOUTHEAST

ZIP CODE 92117
4501 No Return
4509 Finley Ray ◎
4517 Suter Lester J ◎ 279-0608
4524★Woodson Chas E 560-1922
4525★Roache Miriam H 277-8273
4542 Mull Dazel J ◎ 279-2459
MT HERBERT AV INTERSECTS
4661 Ziehl Wm A ◎ 278-5947
4664 Mc Gee Walter T ◎ 277-0414
4671 Goodrum Gerald W ◎ 278-3400
4678 Pince Joseph R ◎ 278-7077
4681 Hutchinson Richd L ◎ 278-4496
4689 Vacant
4690★Evans John
4697 Scarpa Philomena E Mrs ◎ 277-2656
4701 Arreguin F R ◎ 277-3157
4702★Glasen Wm ◎
4714 No Return
4715 Maynard Paul H ◎ 279-9330
4726 Christian Rita A ◎ 277-0467
4727 Dickinson Bill C ◎
4738 Cochrane Theo Jr ◎ 278-5224
4739 Garcia Leo D ◎ 565-9706
4750 Norm's Delivery Service 292-1819
Carvalho S ◎ 292-1819
4751 Mc Elheny Donald 560-2005
4762 Rolecki Alex A ◎
4763 Ball Ned R ◎ 278-5196
4774 Wagner Anne Mrs ◎ 277-5262
4775 Parker Robt C ◎ 277-6314
4786 Winter Joseph E ◎
4787 Forsythe J A ◎ 277-6340
4825 Rey Thos ◎
4826 Crandall Richd A ◎ 565-0335
4835 Herney Ruth E Mrs ◎ 277-8959
4836 Nakamua Kiochi ◎
4845 Dolphin Geo ◎ 277-7511
4846 Post Edwin C ◎ 279-2118
4855 Wolske Gordon H ◎ 277-0961
4856 Sanford Jerry L ◎ 279-0454
4865 Denson Joanne M Mrs ◎ 277-2091
4866 Bishop Marlene L Mrs ◎ 277-7610
4875 Olimb Carl A ◎ 278-5117
4876 Cullinar Joseph V ◎
4885 Hegan N W ◎
4886 No Return
MT FORAKER AV INTERSECTS
4901 Beitz Ronald E ◎ 278-0869
4902 Quinn Richd A ◎ 278-7219
4911 Shiraishi Toru ◎ 277-7508
4912 Hoover Betty R Mrs ◎ 278-1859
4921 Pratt Robt W Rev ◎ 560-1463
4922 O'Bryon Raymond ◎ 560-5112
4931 Mumford J Le Roy ◎ 277-0836
4932 Albrecht Wm ◎ 278-5425
4941 Yauney Richd L ◎ 279-3033
4942 Mann R F Mrs ◎ 571-0387
4951 Baker Gary L ◎ 565-9660
4952★Ring Steve 569-1960
4961 Morales Frank ◎ 292-0718
4962 No Return
4971 No Return
4972 Winchester Wm A ◎ 277-2533
4981 Fetters Leon J ◎ 277-6826
4982★Allred Anthony ◎
5001 Vacant
5002 Michaels Patk 279-3680
5011 No Return
5012 Rosales Armando P ◎ 278-6096
5023 Grider Dorothy D Mrs ◎ 279-9575
5024★Bruce Clint ◎
5035 Clow Harold 560-4839
5036 Teague Roy W ◎ 277-7071
5045 Kimura Saml H ◎ 278-7810
5048 David Luther W ◎ 278-0427
5055 Jensen Fredk H ◎ 277-7527
5060 Kostecki Thos W ◎ 565-2250
5063 Greenlee Edgar M ◎ 277-1912

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MT GAYWAS DR —FROM 4500 MT FRISSELL DR EAST THEN SOUTHEAST

ZIP CODE 92117
4502 Newman Lawrence W ◎ 279-5734
4511 Jones Phillips S ◎ 268-3052
4512 No Return
4522 Stout James ◎
4523 Wingert Paul S ◎
4532 Steen Lester W ◎ 565-0357
4535 Jacobson Merrill S ◎ 278-3513
4542★Sellers John ◎ 571-1458
4552 Nguyen Tong ◎ 292-7257
4562★Maniquis Juan D ◎ 277-0064
4602★Garcia Fermin
4605 Wheeler James ◎ 277-6912
4612★Dieckhoff Robt C 279-9995
4615 Kenny Francis W ◎ 277-2947
4622 Fox Robt T Jr ◎ 277-7295
4625★Dupuis Leo
4632 Emmerich Harold W ◎ 278-2548
4635 Khambata Noshir K ◎ 277-9381
4642 Alfrets Gerald R ◎ 279-5968
4645 Purrier Leland S ◎ 277-4354
4652 Auiler Irving M ◎ 277-1428
4655 Bradbury Frank H ◎ 277-3899
4662 Rogers Barbara Mrs ◎ 278-2574
4672 Welichko J C Mrs ◎
4675 Smith Henry A ◎ 277-0355
MT HERBERT AV INTERSECTS
4709 Struhar Aug K ◎ 277-4797
4712 Johnson Lawrence J ◎ 560-1953
4717★Zitek Thos F ◎
4722★Presser Judy ◎ 277-0732
4725★Gross Jay 560-5947
4731 Wendt George ◎
4732★Haga Ethel ◎
4741 Jordan Nathan T ◎ 277-5251
4742 Trahan Felix ◎ 277-7690
4751 Campbell Craig M ◎ 565-2434
4752 Granger La Verne C ◎ 279-8371
4761 Van Derheyden Jon D ◎ 292-5489
4762 Costello John J ◎ 560-9740
4771★Davis Wm ◎
4772 Gee Warren F ◎
4781 Rhodes Jack D ◎ 277-5051
4782 Robinson Foster A ◎ 278-7363
4791 Jabaay Chris J ◎ 292-9538
4792 Hanson Dale R ◎
4801 Crawford Joseph J ◎ 278-2344
4802 Stargell Guy L ◎ 277-0169
4817 Weed Robt C ◎
4818★Stislow Vince B 279-6463
4831 Thiebaut M Vern ◎ 560-8850
4832 No Return
4847 Shafer Paul L 279-8584
4848 Rose Joyce Mrs ◎ 279-8607
4861 Tatum Wilma H Mrs ◎ 277-9439
4862 Evans Wm A ◎ 565-6993
4875 Salter Clifford G ◎ 278-5407
4876 Housgard Margt M Mrs ◎ 277-0695
4887 Mayor Robt E ◎
4888 Vacant
MT FORAKER AV INTERSECTS
4901 Reynolds Dean W ◎
4902 Anderson Charles H Jr ◎ 277-6920
4915 Grano
4916 Greaton Shoni Mrs ◎ 565-2059
4929 Meyer Ed
4930★Young Frank ◎
4943 Gerry Ed 292-1641
4944 Zombek Juliana Mrs ◎ 277-1554
4957 Lizano Alvaro ◎
4958 Kreinkamp D W ◎ 277-9848
4971 Flahan Cynthia A Mrs ◎ 278-6210
4972 Courington Ida E Mrs ◎ 277-6532
4985 Gallo Pauline F Mrs ◎ 279-5213
4986★Klett Collin ◎
5001 Howland Doris M Mrs ◎ 278-7698
5002 Strand Glenn S ◎ 279-8605
5017 Bracken Jay P ◎ 277-2422
5018 Williams Charlotte E Mrs ◎ 279-3506
5033★Henly Drema 278-1162
5034 Vacant
5049 Castillo Teresita Mrs ◎
5050 Markley Patk D ◎ 279-2689
5061 Sassano Lois M Mrs ◎ 279-4229
5062 Robertson Gary W ◎ 565-9218
5073 Marcus Mark L ◎ 565-6800
5086 Mc Cafferty Joseph E ◎ 277-7832
5087 Oram Sydney F acct ◎ 277-6512

493
MT HARRIS DR —FROM 4500 BLK MT HERBERT AV EAST

ZIP CODE 92117
4701 Carlsen Gregg J ◎
4702 Williams Leslie C II ◎ 571-0688
4714★Coltran Thos ◎
4715 Page Jan ◎ 277-1633
4726 Wood Ernie ◎ 277-7866
4727 Reeve James A ◎ 277-5779
4738★Geer Jonathan P ◎ 278-1624
4739 Licari Anthony C ◎ 278-4486
4751 Jessup Wm C ◎ 279-3260
4752★Hayes Ray ◎ 569-1924
4763★Buffington Todd A ◎ 571-1364
4764 Dickey Myron D ◎ 279-2442
4775 Johnson Leslie A ◎ 565-9508
4776★Bolton Randy 571-5507
4787 Teel Roy C ◎ 277-7609
4788 Kelly O B ◎
4801 Van Gerpens Donald R ◎ 565-2658
4802 Fox Jessie M Mrs ◎ 277-2744
4815 Ryan John W ◎ 278-6459
4816 Thrower Oscar
4829★Thornburgh Nancy 277-1375
4830 Mercer Leonard K ◎ 278-7259
4843 Barnett Lily R ◎
4844 Ferst Richd W ◎
4857 Dearmont Richd E ◎ 565-6346
4858 Hechanova Antonio ◎
4871★Galarza Marisa
4872 Salsman Norbet M ◎ 292-0498
4885 No Return
4886 Jones Bea I ◎ 279-8582
MT FORAKER AV INTERSECTS
4901 Haden Areah Sue ◎ 571-0406
4902★Bradford Wm ◎ 569-1796
4914 Starzy James A 565-4683
4915 Poulos Christopher J ◎ 278-1908
4926 Heck Karl ◎ 278-3720
4927 Skillman Guy R ◎ 278-4795
4939 Vacant
4940 Anthony John D ◎ 279-8278
4951 Barnett Douglas O ◎ 278-4666
4952 Hechanova Antonio J Jr ◎ 277-1685
4963 Wells Clarence W ◎ 277-3402
4964 Schwenn Donald F ◎ 277-1204
4975 Wheeldon Geo N ◎ 277-7530
4976 Hudnall Richd C ◎ 279-6633
5002★Phillips Edw A ◎
5003 Spear John M ◎ 565-8758
5014 Samuels Joan Mrs ◎ 292-7692
5015 Gillson Gerald G ◎ 277-7794
5026★Simon Mary ◎
5027★Stremlau Frank 277-9940
5038★Bradford James D ◎
5039 Villaluz Ricardo V ◎ 277-2451
5051★Frauman Robt C ◎ 277-6555
5052 Williams Jerry C ◎ 279-4869
5064 Porlas Conrad A ◎
5071 Wigginton Cyril ◎ 277-0806
5076 Heimbach Ora R ◎ 278-5857
5090 Marx Earl F ◎

493
MT HAY DR —FROM 4500 BLK MT HERBERT AV EAST

ZIP CODE 92117
4714 Hogue Edmon H ◎ 292-0469
4715 Reynolds Richd C ◎ 268-8076
4726 Cerveny Geo E ◎ 277-6901
4727★Kuykendall Billy 571-5380
4738 Krauss Fredk K ◎
4739 Bennett Jack H ◎ 278-3688
4750 Shields Alan L ◎ 565-7352
4751 Mc Laughlin Judy Mrs ◎
4762 Tesch John D ◎ 292-1840
4763 Lewis Robt A ◎ 278-4896
4774 Livingston Geo E ◎ 279-6026
4775 Fiegehen Donald L ◎ 278-5483
4786 Chappelle Donald L ◎ 279-3837
4787 Gangloff Lee A ◎ 278-5167
4803 Johnstone Sam A ◎
4804 Corbett Roxana M Mrs 560-1268
4819 Freeby Anna M 278-7759
4820 Kikla Richd ◎ 571-0891
4833 Vacant
4834 Dohm Dudley D ◎ 278-4429
4849 Moody John K ◎ 277-2912
4850 Dimeo Victor V ◎ 565-1666
4863★Crowley Michl 279-3970
4864 R L & R Masonry Contractors 277-1456
Lunsford Jess C ◎ 278-3362
4877 Greany Edw J ◎ 278-1381
4878 Ensign Ronald W ◎
4889 Mendenhall Robt
4890 Burton Barbara Mrs ◎ 279-1488
MT FORAKER AV INTERSECTS
4903 Montgomery Ruth I ◎ 279-0040
4904 Ellis Edmund H ◎ 279-8909
4917 Hoofard Wilber C ◎
4918 Roed Olif J ◎ 278-9626
4931 Bryant James L ◎
4932 Clark Mae M Mrs ◎
4945 Duggan Mary E ◎
4946 Christian Wm J ◎ 279-4567
4959 Sanphy Thos M ◎ 277-1668
4960 Pelles Victor T ◎ 278-7859
4973★Mc Cann J R ◎ 279-3014
4974 Fayers Nora Mrs ◎ 278-8924
4987 Zink Monte W ◎ 278-7328

SEE PAGE 13, BUYERS' GUIDE
714-268-3441
WESTERN RADIO ELECTRONICS

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

Balboa Ave 1975

BALBOA AV—Contd
43 M Y O Functional Therapy 292-0788
44 De Reeder Peter phys 278-4620
51 Bell L Barclay phys 278-2600
52 Walter Joseph F phys 563-4353
52a Clairemont Physical Therapy Center 278-1330
53 Fort Milton L phys 279-0250
54 Otto Evan L M D Inc 279-2151
6th Fl Brownsberger Donald E phys 565-6666
6th Fl Dinenberg Lawrence A phys 565-6666
6th Fl Fish Deane L phys 565-6666
6th Fl Trees Carl A phys 565-6666
6th Fl Balboa Medical Clinic 565-6666
71 Gardner Jerry D dentist 279-1900
71 Goehl Robt R dentist 279-1900
71 Heath Wayne L dentist 279-1900
71 Wiersma Dennis J dentist 279-1900
73 Wentzel Goetz M phys 278-0551
74 Harris Joseph C dentist 277-5141
5252 Balboa Tower ofc bldg
Suites
101 Taurus Steak & Lobster House restr 560-5188
103 Balboa House Liquors 279-9050
200 Vacant
301 S & A Management Services accounting & tax serv 292-9150
302 Vacant
304 Doctor's Credit Service 560-1281
306 Lindora Medical Clinic investment consultants 560-1484
400 Pacific Telephone & Telegraph Co
402 Hemophilia Association Of San Diego County non profit orgn 560-8373
404 Alarms Unlimited burglar alarm 292-4555
404 Vacant
405 Bean Martin & Associates adv agcy 278-5590
407 Stilwell Benj W phys 277-3153
500 Vacant
501 Vacant
502 Schwarz Michl J acct 278-8772
504 Vacant (Suite 504-508)
509 Ducker Realty 565-4855
510 Lindley Edw business broker 560-0256
Gibbens Co Inc ins 565-6656
600 Tanower Inc chem marketing 279-8240
604 Clairemont Hosp (Conference Rm)
700 Security Mutual Life Of Nebraska ins 292-4282
703 Quality Building Maintenance Co 278-8730
704 Campbell Patk D lwyr 278-3200
704 Evatt Timothy G lwyr 278-3200
704 Smith Mary L lwyr 278-3200
704 Smith Timothy N lwyr 278-3200
705 Sherrard Lee Realty 560-9819
706 Professional Management California Inc consultants 278-7178
707 Davis & Baker Advertising 279-6940
708 Vacant
709 Vacant
800 Franklin Insurance Service Corp ins brokers 278-2000
800 Upton M G & Co Inc financial advisor 279-0323
801 Great West Auto Dealers Services Inc ins broker 292-9494
802 B H T Associates property management 279-1920
802 Balboa Tower (Ofc) 279-1920
805 Texas Instruments Inc electronics mfr 279-2622
9th Fl P R C Technical Applications systems eng 278-6273
10th Fl Mason Towne Engineering consulting engs 278-7324
10th Fl Planning Research Corp consultants 278-3352
10th Fl General Analysis Inc civ engs 565-2006
10th Fl Voorhees Allan M Inc traffic consultants 278-3363
STREET CONTINUED
BALBOA WAY INTERSECTS
5314 Balboa Hobby & Crafts (Instruction Rm)
5316 Colony Bookkeeping & Tax Service 278-9850
5338 San Diego Gas & Electric Co (Br Ofc) 232-4252
5342 Vacant
5344 State Farm Insurance Co's 277-1772
5346 Balboa Hobby & Craft Shop 277-1312
5350 Century Twenty-One Peirce & Northcutt Real Est
5354 Household Finance Corp 278-5361
5358 Vacant
5360 California Federal Savings 560-0112
Bank Of America Natl Tr & Sav Assn
5361 Schultz Milton H ◎ 277-9476
5363 Woods Raymond B ◎ 279-1121
5365 Sutter Lester ◎
5367 Kronemeyer Sylvia M ◎ 278-8999
5369 Gorham Robt D 279-0706
5371 Mc Kittrick N 277-0313
5373★Guess Katie L Mrs 560-1714
5375 Horn John K 279-0549
5377 Sodikoff Barny H ◎ 278-0241
5379★Lynch Wm D ◎
5381 Kuhn Jeanne G Mrs 277-1235
5383 Solomon Roy 279-9159
5385 Batzler Wm E ◎ 565-1647
BALBOA WAY BEGINS
5387 Bitters Floyd D 278-8294
5389★Ferguson John E 565-6429
5391 Mc Quaid Robt W 279-5827
5393 Vacant
5395★Baker Charlie C
5397★Cuckovich Saml 279-1223
5399 Vacant

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ZIP CODE 92111
GENESSEE AV INTERSECTS
5401 Balboa Mesa Shopping Center
Holmberg's Don Chevron Service 279-1010
5404 Stag And Hound restr 279-2390
5405 Callender Marie Pies 279-6604
5407 Security Pacific National Bk 279-0767
5430 Windy's Flowers ret 279-5963
5432 Fed Mart Pharmacy ret 278-9141
5454 Fed Mart discount dept store 278-9141
Vitalich Edw J optom 278-9141
Key Korner Inc key shop-locksmith 279-0215
5501 Baskin-Robbins Thirty One Ice Cream Stores 278-4341
5502 Olson Forest E Inc real est 565-8151
5504 Vacant
5505 Grant W T Co dept store 278-4640
Grant's Bradford House restr 278-4640
Keepsake Portraits photog 560-6744
5508 Imperial Savings & Loan Assn 278-4060
5511 Winchell's Donut House No 261 278-1642
5522 United California Bank (Balboa-genesee Ofc) 279-5982
5530 Fed Mart Car Wash 278-7880
5555 Von's Market 279-4661
5607 Mister Fish & Chips 279-2641
5611 Straw Hat Pizza Palace restr 277-7992
Italian Restaurant Corp 277-7992
5613 Clairemont Vacuum & Sewing Center 277-8667
5615 Jupiter Records musical records & tapes 278-3251
5617 Iron Maiden Cocktail Lounge 279-2033
5621 Genesee Pet Clinic hosp small animals 278-1575
5631 Maggie's Washboards self serv lndry 279-9926
5635 Moriarty John F podiatrist 277-3838
5639 Red Carpet Realtors 779-8500
5643 Local Loan Co 278-3430
5647 Pleasant House Of Natural Foods health foods 278-5853
5651 Coiffure Chic 277-3780
5653 Crown House Barber Shop 279-9943
5657 Balboa Cleaners 278-1171
5661 Double Up Fashions women's clo 277-5900
5663 Fun Fashions women's clo 279-0060
5667 Kirby's Shoe Store (Br) 277-9137
5671 Stationers Balboa Mesa 278-6240
5675 Yardage Town yd gds ret 279-5270
5685 Long's Drug Stores 279-2753
5790 Hansen's Union Service 278-3550
5808 Fotomat Corp photo developing 565-8313
5810 Balboa Texaco Service 279-1541
5825 Home Federal Savings & Loan Assn (Clairemont Ofc) 565-8262
5851 Bank Of America (Balboa-genesee Ofc) 294-2154
5901 Farmers Insurance Group 560-7544
5909 Commercial Credit Plan Inc loans collateral & salary 292-5820
5911 Anthony Schools Of San Diego real est 560-6511
5915 Allstate Insurance Co 279-1200
5917 Advance Mortgage Corp 560-4551
5921 Chief Travel Of San Diego Inc travel agcy 560-1488
5923 Rene's Coiffures beauty shop 279-3650
5925 Postal Instant Press prntrs 292-7226
5927 Marcy Homer K chiropractor 560-8022
5933 Western California Insurance Agency 565-6511
5937 Grubb & Ellis Residential Realty Inc 277-1095
5941 See's Candy Shops Inc 279-0260
5945 Yardage City dry gds 292-5525
5947 Pernickity I women's clo 277-7751
5949 Torgerson Duane R optom 278-8043
Rex Richd M optom 278-8043
5951 Romero Cesar Ltd men's clo 565-6433
5953 Pantry The clo 560-8633
5955 Bob's Big Boy Restaurant 560-0877
5980 Ricky's Family Restaurant 565-1475
6050 Seaside Buick Inc sls & serv 565-1911
6055 Mel's Shell Service 279-4072
6066 Jack's Auto Center gas sta 279-2062
MT ALIFAN DR ENDS
ABERNATHY DR BEGINS
6125 Gooslin Exxon Service Center 278-3900
6130 Melton's Arco Service 560-6411
6133 Nicolosi's Italian Restaurants 278-9191
6135 Balboa Crest Shopping Center
International House Of Pancakes restr 277-4791
6137 Dean's Photo Service photo fnshrs 279-2931
6139 Crest Balboa Liquor 277-4500
6143 Jerusalem Restaurant 560-1012
6147 Pixie Ceramic Studio & Gift Shop 565-1234
6155 Radio Shack 279-5041
6159 Balboa Crest Veterinary Clinic 277-3665
6163 Balboa Music Center musical instruments 279-5152
6167 Morris Plan Co Of California loans-salary & collateral 279-6675
6171 San Diego Dental Lab Inc 277-7785
Gietzen Robt dentist 277-7785
Thompson Ferris dentist 277-7785
6175 Pantorium The clo mens 277-5676
6179 Shoe Market The 279-9947
6181 Fashion Conspiracy womens clo 292-4192
6185 Golden State Fabrics dry goods 278-8072
6391 One Hour Martinizing clo clns & lndry 277-4565
6393 Yutaka Imports gifts 292-4494
6395 Coin-Op Service gas sta
6397 Puppy World Aquarium Pet Center pet shop 279-7152
MT RIAS PL ENDS
6401 Burger King Corp restr 279-2734
6545 Wells Fargo Bank 238-6415
6555 Balboa Avenue Alliance Church 278-6266
6565 Balboa Mesa Dental Building bldg ofc & pub
Horn Dennis E dentist 279-2122
Horn Jayne F Mrs dentist 279-2122
Reid Culmer B dentist 565-1959
Zielinski Frank K dentist 279-2226
Balboa Mesa Dental Lab 279-2226
Apartments
C★Reid Culmer B 565-1959
D Reynolds Kathleen Mrs
E★Taylor C M
F Vacant

369

MT ALBERTINE AV ENDS
CANNINGTON DR BEGINS
6991 Schweitzer Albert School 278-7470
HATHAWAY ST ENDS
CHARGER BLVD BEGINS

659

INTERSTATE 805 CROSSES
7637 Reuben's Plank House restr 278-7373
7647 Rossi Louis Shell Service gas sta 277-0905
7727 Gemco Pharmacy 292-5535
7731 Gemco Membership Department Store 292-1660
Gemco Service Station 292-0232
RUFFNER RD INTERSECTS
7737 Tom's Texaco Service gas sta 565-1782
U-Haul Co trailer rentals 565-1782
Garden Care Center lawnmowers 565-1782
7766 Cameron Bros Construction Co Inc genl contr 278-3050
7777 Thrifty Oil Co gas sta 277-9851
7786 Beeson Floyd Chevron Station 279-2533
CONVOY ST INTERSECTS
7804 Jack-In-The-Box-Drive-Thru restr 277-9661
7807 Bakken Paul Union Service gas sta 277-0204
7815 Taco Bell No 117 restr 278-1190
7820 Jolly Jug liquors 279-1080
7827 Kearney Mesa Yamaha Inc motorcycles sls & serv 292-5454
7840 Sir George's Smorgasbord 277-0411
7841 Mesa Professional Building Rooms
101 Scientific Devices scientific instruments 279-6642
102 Interdata mini computer mfr 565-0602
103 Action Employment 279-2293
104 Qualtronics electronics 560-8955
105 Vacant
106 Vacant
107 D'Agnessa Insurance Agency 279-5955
107 Kearny Mesa Insurance Agency 292-1261
108 Thompson Insurance Associates 279-5951
110 Colony Charter Life Insurance Co 565-7861
201 Vacant
202 Durco Construction Co Inc genl contrs 279-9450
203 Vacant
204 Steckling Adrian E publs rep 278-4541
205 Saetta Leonard J pub acct 292-4020
206 Vacant
210 Square D Co electronic equip mfr & whol 279-8650
211 Vacant
215 Schott Keith & Associates cookware & cutlery sls 279-0585
STREET CONTINUED
7853 Burks Electonics electronic sub contrs 279-6010
7860 Mutual Leasing Corp automobile leasing 565-9191
Mercedes Benz Of San Diego autos 279-7202
7865 C & I Div Of Conic Corp telemetry mfrs 279-8370
7903 Patrick G D Enterprises electronic mfrs 279-8856
7905 San Diego Tile Co contr 278-6300
7915 San Diego Engineering Inc communications contr 278-3374
7915-b Multi-Media Systems electronics mfg 292-5313
7917 Burnett Electronics Laboratory Inc equip sup 278-6370
7931 Balboa Veterinary Hospital 279-0425
7935 Bay-Mor Transmission Service automatic trans repr 560-7266
7945 Carriage House cocktail lounge 278-2597
7947 Friar Tuck's Pantry restr 279-1520
7959 Barbecue Pit restr 278-1620
7961 Kearney Mesa Lodge (Loyal Order Of Moose) 278-1938
7973 Custom Bronze & Aluminum Corp aluminum products mfrs 278-5400
7993 Graham Automotive Inc used cars 277-4371
Graham Imports autos 277-4371
8009 Renzulli J W Inc (Stge)
8011 Vacant
8015 Renzulli J W Inc mech contrs 279-1220
8027 Shamrock Inn restr 277-9120
8039 Hamilton Jim Towing Service 277-8038
A B C Wheel & Frame Service truck & auto repr 277-8038
Jalisco Body Shop auto repr 278-0030
8039½ Kolbeck J Farris ◎ 278-7504
8063 Kearny Mesa Radiator Brake & Air Conditioning 277-2030
8081 Scheib Earl Auto Painting 565-1182
MERCURY ST INTERSECTS
ZIP CODE 92123
CABRILLO FREEWAY INTERSECTS

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KEARNEY VILLA RD INTERSECTS
8611 Honeywell Information Systems Inc peripheral equip for computers 565-6000
Honeywell Control Systems (San Diego Sales Office) 565-6000
Honeywell Incorporated (D P O Div) 565-6000
Honeywell Incorporated (Marine Systems Div) 565-6000
Kyocero International Incorporated ceramic electronic mfg 279-8310

Balboa Ave 1975

BALBOA AV—Contd
Rohr Industries Incorporated Marine Systems Div 560-8008
8615 Digital Development Corporation memory sys for computers 278-9920
8650 Teledyne Ryan Aeronautical Co (Plant)
8775 County-Public Administrator & Guardian 565-5494
County-Central Duplicating 278-9200
County Offices-Mail Room 278-9200
8797 Burndy Of California Inc electronic parts mfr 278-7131
Kierulff Electronics Inc 278-2112
Kierulff Electronics Inc (Metermaster Div) 278-2112
8799 Celtec Co electronic parts mfr 279-7961
Lu Elco (Div Of Celtec Co electronic distr 279-7961
8808 Solitron Devices Inc electronics mfr 278-8780
8835 Montgomery Field Industrial Park Office Building
Suites
A Saratoga Development Corp land developers 292-9330
A Westcoast General Corp land developers 292-4980
B Shelter Insurance Services Inc 565-8011
C Vacant
D Dass Construction Co Inc genl contr 292-4330
D Mark Homes Limited land developers 292-4332
D Star Corporation genl contr 292-4330
D Triple-K Development Inc genl contr 292-4330
E D P A Printing Inc offset printers 565-7494
F Spectral Dynamics (Plant 1)
8855 Office Building
Suites
A Vacant
B Vacant
C Barrett & Colwell sls & marketing training 277-1210
D R S Construction Co genl contr 565-4191
E Senior Design Corp Of California mech engs 565-2594
H Senior Design Corp (Ofcs)
8859 Office Building
SUITES
A Fayco Construction Co contr-genl 566-0445
A Lee Pharmaceutical Co drugs whol 292-1410
B Isley Electric Co contrs 277-1291
C Lesair Incorporated plastic injection moudling 279-6531
D Vacant
E H B & W Co closed circuit telev sys-equip 292-4800
8861 Office Building
SUITES
A Bry Nor Mfg Inc arc wldg equip mfrs 292-1535
B Omni Media Systems Inc audio visual computer sys 560-4561
C R-Squared Parts mach shop 565-7118
D Fidelis Security Inc alarm sys 279-1043
E Roberts E V & Associates (Div Evra Inc) mfrs agts (electronics) 565-4535
8863 Office Building
SUITES
A Polar Glass Co custom injection molding 279-6953
E Cubic Corp (Mach Shop)
8865 Office Building
SUITES
A Big Red's restr 277-7575
E Vacant
F K C E Corporation mfrs rep (electronics) 278-7640
G Universal Enterprises aerospace hdw 278-0234
H Ohm Spun Electronics mfrs agts (electronics) 277-6230
8869 Office Building
SUITES
A Picker Medical Products med equip sls & serv 279-2172
B Vacant
C Haskel Engineering & Supply Co indus hydraulic mfrs & distrs 279-1685
D Precision Tool & Die mach 278-0950
E Terry Craft Enterprises wood products mfr 277-0707
8871 Office Building
SUITES
A Vacant
B Vacant
C Vacant
D Radio Systems Technology avionic equip mfr 277-1917
E Speedy Mail & Messenger Service delivery serv 565-4141
8873 Air Vehicle Corp aerodynamic eng research 279-3325
Technology R & D Corporation sht mtl shop 279-3325
8888 Union Carbide Corp (Crystal Prods Matl Sys Div) 279-4500
8911 Spectral Dynamics Corp environmental test equip mfrs 278-2501
9020 Conic Corp research & development 279-0411
Terra Com Division Of Conic Corp telemetry mfrs 279-0411
9045 Wavetek 279-2200
9106 Jet Products Corp mach shop 278-8400
9110 Maxwell Laboratories Inc (Plant)
9150 Mc Kesson & Robbins Inc (Drug Division) 278-7121
Gentec Hospital Supply Co 560-0822
PONDEROSA AV BEGINS
9212 Humphrey Inc electro mech instruments 565-6631
9233 Cubic Corp electronics mfrs 277-6780
9244 Maxwell Laboratories Inc research laby 279-5100
9284 U S National Oceanographic Instrumentation Center 293-6169
9330 Foodmaker Inc 279-1300
Continental Restaurant Systems restr oprs 279-1300
RUFFIN RD INTERSECTS
9404 Antelline Fred F air conditioning eng 278-1880
Antelline Fred F Inc air conditioning contr 278-1880

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BALBOA ARMS DR —FROM 4200 MT ABERNATHY AV EAST

ZIP CODE 92111
5150 Fiesta Apartments 292-4323
A1 Vacant
A2★Ottenweller John
A3★Kissner Rita
A4★Trujillo Donna 560-5975
A5★Spearman Valerie
A6★Mercado Sonny R 560-7689
A7 Vacant
A8★Garrido B
B1★Spielman Phillip 560-6029
B2 Vacant
B3★Walton Merle
B4★Jackson John 279-9226
B5★Lokensgard Brent C 292-1175
B6★Anderson David J 278-2652
B7★Gaines Simon
B8★O'Rourke Cheryl 278-2389
C1★Roy Donald P Jr 278-2496
C2★Winterberger Ralph
C3★Sellers Geo 560-1689
C4★Sanderman Sally
C5★Moore John
C6★Condy Marian E Mrs 565-4888
C7★Fair James 279-1254
C8★Saito Frank 565-6959
D1 Vacant
D2★Vetica Alex R 560-1425
D3 Vacant
D4★Becker Barbara
D5★Deirdorff Tom
D6 Vacant
D7★Reh Frank 560-5339
D8★Jackman Norman F 560-6052
D9★Wileman Gretton M 560-9318
D10★Carlin Jerry
D11★Maleska C J
D12 Vacant
E1★Chandler Geo 278-6591
E2★Yanz Hai Taur
E3★Autry Jerry
E4★Weisberg Bari 279-8022
E5★Flanagan Michl
E6★Bair Carl J 278-6973
E7★Mack David 277-0321
E8★Recker Douglas 560-0202
E9 Vacant
E10★Croman James 560-8176
E11★Burr Frank
E12★Watson Robt 278-6285
F1★Krawcyk Judy
F2★Strauss Fred 279-9152
F3 Vacant
F4★Jamro Ronnie D 560-0796
F5★Skivers Evelyn
F6★Fieck Thos 279-3154
F7 Vacant
F8★Dierdorff Steve 278-0878
F9★Bob Nancy 560-5489
F10★Artindale Allan
F11★Ahumada Oscar
F12★Avants Beverly A 279-7156
F13★Weaver Michl
F14★Bouie Mabel Mrs
F15★Candland Sharon L 560-9359
F16★Kroesch Michl
F17★Bolger David
F18★O'Neil Terrance 565-2793
F19★Walter Joseph
F20★Wilkerson Lucille
G1★Stewart Sandra
G2★Becker Richd A 560-1646
G3 Sonnabaum Jack 292-9746
G4 Hill Gerald L 565-0892
G5★Gissendanner John M 565-0609
G6 Berlin Ruth 277-1038
G7★Sakarellos Constantine 560-0892
G8★Salvo Dennis C 560-6216
G9★Moore Susan 278-8765
G10★Smith Geo H 565-8402
G11★Hoff Bernadine 278-5819
G12★Marier Cheryl A 565-9005
5188 Park Place Apartments 279-1455
A1★Smith Guy 277-4386
A2 Stolk Olga Mrs 277-8031
A3 Vacant
A4★Belbey Jay
A5★Hargrove James
A6★Gore Maureen J Mrs 278-3949
A7★Leiski Mark
A8★Dale Gifford
A9★Hicks Nattie D Mrs 292-1897
A10★Dickson Earl
A11★Wagner Todd
A12 Allman Gary A 565-2702
B1★Poole Janet Mrs
B2★Roberts Debbie L 560-9037
B3★Kotkowski Greg 277-5998
B4★Arnold Burt
B5★Flight Betty Mrs
B6★Ortiz Carlita Mrs
B7★Smith H B
B8★Bache Bertha Mrs 292-4270
B9★Contreras Robt 278-0736
B10★Guzman Martin
B11★Tromburg Dennis
B12★Maloney Kenneth
C1★Small Geo 565-2261
C2★Nix Terry L 277-2759
C3★Campbell Dean H 560-4731
C4 Doyle Mary C Mrs 560-9603
C5★Hall Norman D 279-2569
C6★Malcomb Veronica Mrs
C7★Higgs Charlene
C8★Henry Paul W
C9 No Return
C10★Johnston Arth
C11 Vacant
C12★Euler Judith
C13★Gray Dorothy
C14★Parker Christine
C15★Todd Loralie Mrs
C16★Yamamoto Russell
D1★Young Patty Mrs
D2★Thomas Carolyn F Mrs 279-9317
D3★Noel Edw
D4★Hannon Wm F 279-1933
D5★Thornbrugh De Forest C 277-2588
D6★Gaistang Robt E 278-6457
D7★Anderson Carl 292-9728
D8★Johnson Frank 278-2084
D9 Montour Josette Mrs 292-7629
D10 Vacant
D11★Avants Joe
D12★Karin Danl 277-5104
5252 Sun'n Dale Apartments 277-3562
★Armstrong Douglas
101★Coleman Anthony H 279-4110
102★Berkshire Raymond
103★Ellis Patricia Mrs 279-8895
104★Harrison Wm G 560-7235
105★Peterson Janet
106★Loussia Bernardos P 560-9217
107★Ott John Jr
108★Peterson John C
109★Belchez Susan 565-0221
110★Odom Dennis R 277-1506
111★Quinn Deborah Mrs
112★Ludwig Robt E 279-3105
113★Curry Gaylene Mrs 278-2638
114 Younger Cheryl A Mrs 560-9835
115★Hall Leonard K 277-8310
116★Cross Armand
117 Desono Felix 560-1636
118★North Junior E 277-3482
119★Hartman Gene A 560-9273
120★Carter Robt C 565-8440
121★Rettig Lorraine Mrs
122★Miles Janice Mrs
123 Ray Joanne Mrs 278-3336
124★Wilson Julia A 565-2745
125★Barker Nancy A 277-5231
126★Sperber Diane G Mrs 277-5504
127★Smith Frances
128 Buckley John M 565-2005
129★Rose Andrew D 279-8535
130★Schiefer Frank T 277-1910
131★Hared Roni 279-1183
132★Crawford Eula
133★Honey Fredk J 278-1159
134★Dickens Lonnie C 565-0577
135 Vacant
136★Tait John F 279-7250
137★Becksfort Scott W 279-9389
138★Fortina Sharon
139★Clark Joe
140★Waleh Jeralyn Mrs
141★Ringo Alvin 277-1625
142★Ciaravino Gail 279-5972
143★Majerak Stephen F 560-5079
144★Hargreaves Nanette D Mrs 560-1779
145★Summers Kenneth G 560-9237
146★Kloceman Fredk 565-0192
147★Meaux Chris
148★Hayward Donald
149★Emery Sheila
150★Stewart Larry
151★Shein Sona
152★Derson Mark
153★Cyborowski Kirk R 278-7037
154 Vacant
155★Kennedy Ruth H 565-6820
156★Thornton J W
157★Bush Michl 278-9803
158★Key Kenneth
159★Nelson Wm D 279-8973
160★Mize Lessa R
161★Bennett Carolyn A
162★Simmons Cecile J 560-8756
163★Register Zelma Mrs 279-0212
164★Henderson Jim
165★Hechingson Richd
166★Soper Dan B 560-7310
167★Burkett David W 560-7529
168 Escario Anastacio A 279-1558
169 Burkland Kris 560-1684
170★Stock Glen
171★Arthur Marilyn A
172★Gross Wm T 278-9219
173★Tozn Randall L
174 Howlson Mark R 560-9268
175★Ohno Mekio 277-2677
176★Sipherd Marc
177★Johnson Evelyn
178★Baker James 565-6344
179 Miller Pamela A 565-1792
180★Mc Laughlin Jay 292-9320
181★Ball Newton E 560-7386
182 Drew Inez M 292-7479
183 Vacant
184★Underwood Ann 292-7315
185★Barbachano John 278-1729
186★Kaufman Jon K
187 Armstrong Raymond M 292-7654
188★Elwell Jack B 278-6791
189★Johnson Cary L 279-8512
190★Nagle Todd 277-8999
191★Campbell Leonard O Jr 279-4332
201★Miles Thelma
202★Isaac Richd
203★Pecjak Dale J 279-6396
204★Distor Saturnino
205★Bauer Edw 279-1339
206★Sholtz Ralph
207★Shaw Deborah
208★Mowry Robt W 560-5013
209★Patmon Lynda 279-8215
210 Daniels Terry Mrs 560-8316
211★Park Khee 278-5538
212★Diaz Edwardo
213★Catmull Donald R 279-7226
214★Piatkowski Kaz 279-7351
215★Leonard Edw A 277-5167
216★Lombrado Donna 292-0709
217★Gaebler Milton W 292-7942
218★Ravelomantsoa Jean L 565-0310
219★Matina Wm 560-8017
220 Elliot Robt N 279-2216
221★Beeley Ronald L 277-5072
222★Hall Daniels 279-6508
223★Marina Jose
224★Reed Anthony
225★Allard Richd
226★Howard Alice Mrs 292-7511
227★Voss Adam J 279-9155
228★Steid Marie
229 Clark Robt R 560-8765
230★Wickizer Margt M Mrs 565-4014
231 Vacant
232 Rodgers Richd L 565-4524
233★Banks Audrey Mrs
234★Tichenor Wm F 279-7718
235★Williams Hilda Mrs 279-4381
236★Bullock Marianne Mrs
237★Singh Promilla G Mrs 278-3547
238 Kaneaster Juanita Mrs 278-4135

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

Balboa Ave 1975

BALBOA ARMS DR—Contd
239★Kuck Dennis
240★Kardela Henry S 279-2415
241 Koozin Frank 565-6675
242★Mitchell Diane
243 Cunningham Susan D Mrs 292-5476
244 Vacant
264★Pollak John 560-4069
265 Vacant
266★Randant Martin F 278-9577
267★Cates Richd F 277-5438
268 Vacant
269★Phillips Mary
270★Soria Pamela J 565-8860
271★White Greg
272★Masters Pat 278-8227
273★Folkerson David 560-4107
274★Miller Cris R
275★Ballard Theresa 565-6960
276★Jerrigan David 560-7300
277★Angus Michl
278 Vacant
279 Epstein Anne Mrs 292-4581
280★Yingling K Alan
281★Hidenshield Virginia
282★French Richd
283 Wilkins Joseph L 565-2297
284★Purtle Jack 560-0763
285★Samuelson Terry
286★Byas Donald 277-4542
287 Garner Richd T 278-6367
288★Lydon Colleen 279-1410
289★Snyder Danl Jr 565-4149
290★Pischinger Dave
291★Kogut Sharon L 278-4367

5402 Apartments
301 No Return
302★Wallenbeck Fredk
303★Horning Joe
304★Donovan Christopher T 560-6298
305★Washington Eleanor Mrs 565-6972
306★Leonard Jay 565-7528
307★Killinger Wm 560-4678
308★Brown Ray
309★Brown Dixie 560-4094
310★Ralston Robt F 279-2514
311★Stepanski Wm P 560-5990
312★Tomyoy Eliz
313★Farmer Paul E 279-0451
314 Schlife Earl
315★Stuckey Regina
316★Williams Doris
317★Whittom Robt
318★Vesper Mike
319★Veeder Geo II
320 Bailey James S 277-8967
321★Crespo Santos
322★Walker Wm
323★Clark Sandra L Mrs 278-1806
324★Sanders Leroy
325★Huddleston Bernice Mrs
326 Wyatt Joanne
327★Sperl Raymond 277-0739
328★Blevins Donald L 565-8544
329 Romney M Wallis 565-9951
330 Jacobson Richd G 565-2615
331 Hertig Wm S 278-9246
332★Lartoni D Anthony
333★Wood Geo
334★Mc Pherson Jim F 560-6607
335 Dean Barbara Mrs 279-4180
336★Durnen David
337★Chamberlain Geo H 277-5825
338★Gatsis Geo 560-9875
339★Nygren Magne 279-5980
340★Hook James M 560-4950
341★Brady Carolyn Mrs
342 Vacant
343 Suttles J L
344★Byrd Dave
345★Ryan Michl
346★Sekishiro Victor 279-9227
347★Windeguth Richd B 560-7441
348 Guse Carol J Mrs 565-4787
349★Mangone Nola M 565-8631
350★Dixon Dwight
401★Frick David E
402★Obladen Michl W 565-1481
403★Sharpe Steph T 277-8085
404★Gilmore Marilou L Mrs 279-6557
405★Gadson Clenest E
406★Sheffer Thos J 279-4531
407★Fox Dennis M 277-1296
408★Leask Charles A 565-7608
409★Roethel John 565-7817
410★Young June 279-8341
411★Campana Peter J 565-2329
412★Shaw Phillip
413★Verbanic David 560-8016
414★Rice Gary 560-4017
415★Bitanga Edw C 279-0709
416★Tangen Beverly J Mrs 560-9847
417★Yang Hai-Teh 277-3425
418 Vacant
419★Farahvar A Mohammad 277-0117
420★Strandstra Linda J Mrs 565-2369
437★Castillo Vincent
438★Guenther Joanne 560-4301
439 Dessau Marie O Mrs
440 Moore Jean R Mrs 565-6903
441★Carreathers Ron 277-0145
442★Westendorf Linda J 279-3354
443★Jones Willetta R 278-1406
444★Mechling Wayne W 565-7092
445★Pogue Lonnie C 565-6519
446★Tomlinson Patk K 278-0372
447★Robinson Ray
448★Mc Donald Joyce
449★Bussey Steven
450★Cleveland Linda

5404 Apartments
319★Veeder Peggy A Mrs 565-2520
351 Vacant
352★Skok Anthony J
353 Erwin Linda K 278-5633
354★Riedel Charles T 560-6719
355 Bennett Glenda J 560-0681
356 Pappacosta John D 292-4164
357★Clark Jerry
358 Vivian Warren 278-0949
359★Roberts Ozzie
360★Beard Gary 565-2744
361★Moore David E 279-8319
362★Wirkler Darcy
363★Steadman Walter
364★Curtis Edw B 278-5417
365★Shaw Eliz M 278-6478
366★Edwards Robt
367 Flitton James H 565-7062
368★Armstrong Evelyn 565-6503
369 Whitamore Patricia D V 277-2048
370 Gillilan James S 278-4038
371★Miller Bill
372★Lowry Patk
373 Vacant
374★Caovette Helen R 279-1126
375★Hardin Morris L 278-1124
376 Golden Paul D 278-4773
451★Brookins York A 279-3697
452★Leatherhuff Gladys
453 Cowin Larrissa E 292-9388
454 Vacant
455★White Barnard
456★Torres Edw
457★Griffin Hank
458★Murphy Gerald E 277-8749
459★Perovich Dennis M 279-7013
460★Andre Kim 277-6349
461★Mc Ahren Laurence
462★Mooney Paul J 560-5751
463 Lacey Leo 560-9019
464★Cooke Mark
465 Marino Stephanie
466★Cutter Kevin
467 Hemstreet Randy 277-6312
468 Vacant
469 Ortega Blanquita
470★Peters Craig A 279-4904
471★Baltazar Willie 278-7567
472★Astor David M
473★Fulton Kathleen A 560-1025
474★Pellow Sidney 565-0057
475★Wilson Remo 565-6444
476 November Saml 292-1957

5544 Garden Apartments apts 278-5862
1★Howells Garnet
2★Herm Mary F Mrs 279-2083
3★Trent Janet M 560-9934
4★Birdsong James 560-9157
5★Jacobs Nancy Mrs
6 Vacant
A7★Armstrong Sharon 279-5356
8★Carroll John E 279-8115
9 Davis Greg
10★Lewis Brenda
1★Martin Luther 565-6183
2★Verduzco Gleason H 278-8094
3★Brown Michele
4★Westerhold John
5★Lightner Marsha 278-5069
6 Cary Robt C 279-6723
7★Maw James 277-2536
8★Moriarty Marlene 292-5610
9★Miller Paul L 560-1331
11★Rasaka Julie
12★Wynan Herbert
1★Ricaud Eliz Mrs 278-3633
2 Sack King H 292-9159
3★Lewis Ronald
4 Vacant
5★White Kenneth 560-4994
6★Peterson John A 565-0690
7★Williams Charles 560-4715
8★Le Blanc James
9★Pratl Bob
C10★Benson Lynn
11★Timms Orda 560-6925
12★Gilmore Mary
13 Clune Birdie F Mrs 292-9576
14★Millard Shirley Mrs 279-2028
15 Senko Christine M Mrs 279-5583
16★Donez Steve
17 Vacant
C18★Gibb Kathleen Mrs
19★Buck Charles
20★Turner Ruth
1★Pope Geo
2 Boyle Benj
3★Meyers Ernie
4★Woods Casandra
5 Smith Bruce 277-1573
D6★Sack Terrence J 560-4788
7★Kelso Millie Mrs
8★Farmer Francis
D9★Curneen Colleen 279-1979
D10★Contra Susan
11 Moniz Ernest A 560-9635
12★Cuff Robt
1★Miller Michl E 279-0886
2★Cohea James W 278-1080
3★Potter Jeri Mrs
4 Whalen Jean L Mrs 560-6515
5★Smith Ginger Mrs 278-6472
6 Vacant
7★Kelley Kevin D 565-1107
8 Vacant
9★Arneson Kris Mrs 277-5097
10★Nenn Manfred 560-7349
11★Farrell Diane Mrs
12★Arave Nelson E 292-9138
13★Deering Georgia Mrs 560-6381
14★Newcomb Sandy Mrs
15★Kirkbride Bob
16 Vacant
17★Gross Dale
18★Carroll Douglas
19 Vacant
20 Vacant
F1 Vacant
F2★Osinski Harvey
F3★Kidd Harriett Mrs
F4★Nobles Deaine L Mrs 560-9735
F5★Beauchamp Michl
6★Brady Patk N 279-2952
7★Pruett Howard G 565-7317
F8★Tatsuno Yoshitaka 279-1412
F9★Bumbardo James T 560-1498
F10★Moran Kenneth N 279-2053
F11★Salas Michl
12★Young James
F13★Harter Debbie Mrs
F14 Schwartz Matt 565-8728
F15 Mc Christy David D 292-1391
F16★Lewis Donald
17★Stafford Martha G Mrs 279-6256
18★Trickey Richd 292-4491
19★Schieferstein Charles
F20★Rice Sandra Mrs
21★Hoff Gloria Mrs
22★Williams Mike

STREET CONTINUED
5550 Chateau The apts 279-6420
1★Haraughty Wm 565-6747
2 Dawson Connie Mrs 560-9292
3★Salisbury Twala Mrs
4 Cutrone Alex 279-9161
5★Fuson Guy 560-5026
6★Reynolds Nancy
7 Promenchenkel Ed 279-6420
8★White Susan Mrs
9★Mede Emilie Mrs
10 Andersen Penny J Mrs 277-7469
11★Hansen Marie 292-1960
12★Seroy Merrill W 292-4319
13★Loyce James 279-2859
14★Zingg Jerome R 292-4579
15 Apple Margt J 279-6288
16★Gosnell Yvonne 277-7057
17 Cappasso Vincent J 292-9858
18★Hudson Stanley S 279-4325
19★Christie Alex 278-9072
20★Carslon Wayne D 279-4053
21★Davis Steve
22 Simpson Warren G 278-1272
23★Bricker Robt J 278-9610
24★Canas Jerry A 565-9908
25★Norwood Linda Mrs
26★Lechtenberger James 560-4431
27★Firebee Nancy B 560-8847
28★Metleer Helen Mrs
29 Gronwald Kurt 292-7950
30 Leister Andrew J 292-9047
31★Mc Kinney Carol
32★Riley Marsha Mrs
33★Hintz Robt M 277-2288
34★Brook Flora Mrs
35★Hoffman Bruce 279-6058
36 Hinton Frank E Jr 278-9076
37★Reiter Dennis A 292-9491
38 Bjorklund Archie O
39★Casola Luigi 277-7315
40 Braswell Amy L Mrs 560-6287
41 Engelbretson Alan C 279-6913
42 Higginbotham Lois Mrs 278-3463
43★Smalley Halley Jr 279-9717
44★Chatman Michl
45 Ross Claudia Mrs 565-0846
46 Hobbs Gloria Mrs
47 Driscoll John A 292-1481
48★Wilson Ava
49★Baer Sandra Mrs
50 Nelson Jerry
51★Watson Fredk 279-4689
52★Hamilton Lucille
53★Small B F 279-3848
54★Barton Kath
55★Harris Arvie
56★Schoenhofer Susan Mrs 560-0590
57★Rickard Priscilla Mrs 277-7940
58★Lupo Kathy M 565-9310
59 Hillberry James M
60★Ellis Jerri
61★Loucks Joyce Mrs
62★Morgan Donald L 565-6816
63★Marthey Harold L 292-9162
64★Olson Fred W 277-3491
65 Haugland Richd 277-8968
66★Oswalb Judith Mrs
67★Cale John
68 Skubski Bernice Mrs 560-8744
69★Helgeson Clarence
70★Charles Penny Mrs
71★Hamel Robt A 565-6335
72★Sinfeld Arth 277-4058
73 Salazar Guillermo 278-9562
74★Totty Delbert 560-0369
75 Pickett Wm
76★Sorlie Barbara A 560-4896
77★Plescher Geo 565-7754
78 Vacant
79 Condy Wm L 278-1077
80★Conaway Howard
81 Davis Richd L 292-7707
82 Campbell Donna Mrs
83 Firle Bernice L Mrs 292-0472
84 Iraci Joseph 565-2310
85 Lippy Evelyn E Mrs 277-2762
86★Cortez Miguel 277-4351
87 Van Duren Mark 565-1059
88★Ogden Rick
89★Fall Diana M Mrs 292-9763
90★Fleming Richd T 279-2465
91★Constantino Carl Jr 560-7763
92★Hill John
93★Raskin Michl N 565-7488
94★Gudelj Steven 279-5585

STREET CONTINUED
5690 Pacific Telephone & Telegraph Co (operations ofc)

105

BALBOA CT —FROM 2735 OCEAN FRONT WALK EAST

ZIP CODE 92108
715 Katz Louis S ◎
718 Moore Linda J 488-5202
720 Gallagher Mike B
721 Leadbetter Clayton C ◎ 488-4621
722★Muther L A 448-6029
723★Breunig Robt A 488-5403
727★Walker Theo J
730 Vacant
731 Manwaring Helen E Mrs ◎ 488-8075
734 Lange Bob L ◎ 276-9866
735 Vacant
737 Vacant
738 Vasquez Patricia A Mrs 488-0953
739★Matson Melissa
740 Vacant
741★Howell D Sherry 488-2718
743 Vacant
MISSION BLVD INTERSECTS
800★Wyatt Patterson ◎ 488-6661
805★Krause Lee 488-7301
806 Carlson Robt D ◎ 488-5688
806½★Carlson Mary D Mrs ◎ 488-5674
808★Madison Ken 488-8117
810★Filimon Gary 276-0891
811 Earnest Ronald C 488-6662
812 Vacant
814★Moebius Dick 488-6106
815 Brunberg Mamie Mrs 488-0261
818 Horrell John A ◎ 488-3293
821 Nagy Peter A ◎ 488-7493
822★Moffson Allen M 488-5753
824 Vecchione Frank T ◎ 488-6234
825 Crawford Gary D ◎ 488-8775
828★Glass Ray
829 Lynch Donovan R ◎ 276-9033
829½ Vacant
830★Sefly Paul 488-5786
831★Ironhill Stephen 488-0128
836★Gross Dave 488-1855
839 Vacant

GENESEE AVE 1975

GEARING DR—Contd
2719★Martinez Ysidoro Jr 222-3210
2721★Hager James W 225-9059
2722 De Guzman Ildefonso 222-3212
2723★Harper Danl
2724★Ketchum Geo 224-1986
2725★Chiles Jesse H 222-0964
2726 Vacant
2727★Dioquino Floro 222-3251
2728 Vacant
COLE DR INTERSECTS
2801★Mc Cormick J
2802 Shore Danny J 222-0146
2803★Flores Roberto 223-0491
2804 Chance James W 222-7026
2805★Turner Richd E
2806★Skinner Justin 222-3204
2807 Vacant
2808★Armagost Arth
2811★Asido Abelardo 222-5850
2812★Benjamin Angelito 225-8290
2814★Fitzpatrick Arwood 224-0570
2815★Robinson Charles T 224-4575
2816 Vacant
2817 Camito Robt D 222-1207
2818★Orrison Wayne 223-2808
2819 Brown Wm C 224-3898
2821 Clark Russell Jr 224-0030
2822 Lopez Antonio V 222-8556
2823 Thatcher Jerry L 222-3978
2824 Vacant
2825★Gilmore Charles
2826 Vacant
2827★Lumpkin John
2828★Bulatao Rustico 224-6685
2832 Dearman Benj
2834★Sunglao Crisosstomo 224-8357
2838★Balderas Paulino G 224-5567
2842★Paris Manuel M 223-6484
2844★Cena Edmund G 225-8374
2846★Palmer David L 224-2571
2848★Senn Neil

171
GEDDES DR —FROM 4400 HUERFANO AV EAST

ZIP CODE 92117
3241 Smith Mary M Mrs ◎ 272-0524
3247★Savelli Joseph F ◎ 270-3960
3248 Gabele John L ◎ 272-5794
3253 Ross Donald E ◎ 270-3267
3254 Sumner Clive ◎
3259 Fogel Aaron ◎ 273-4549
3260 Vacant
3265 Shirley Bobby ◎ 272-2757
3266 Bennett Louis 272-8843
3271 Voorkamp Leo A ◎ 274-6067
3272 Talley Newton L ◎ 273-6097
3279 Willan Robt F ◎ 273-3596
3282 Mc Quade Mary E Mrs ◎ 273-1035
3285 Eaton Ted H ◎
3291 Lincavage Leonard J ◎ 273-6658
3297 Bringas Salvador ◎ 273-5483
KAMLOOP AV INTERSECTS
3301 Crabtrey Odis O ◎ 274-6104
3311 Mc Fadden Robt D ◎ 273-5699
3323 Walter Joseph L ◎ 273-6422
3337 Gutierrez Mildred S Mrs
3351★Williams P Gregg cpa ◎ 274-9674
3369 Osborne Maurice J ◎
3381 No Return

243
GEM LAKE AV —FROM 7600 FLAG LAKE DR NORTH

ZIP CODE 92119
6402 Myers Robt W Jr ◎ 463-2261
6414 Carnevale James ◎ 461-3374
6426 Jacobs Irvin H ◎ 469-4317
6429 Campbell Martha M Mrs ◎ 460-3015
6438 Papitto Albert A ◎ 462-2521
6441★Peterson Thos D ◎
6450 Simpson Lear E ◎ 465-6594
6453★Luitjens Robt H 461-9462
6465 Kniebbe Roy T ◎ 465-1179
LAKE ADLON DR INTERSECTS

275
GEMINI AV —FROM 10900 HYADES WAY EAST

ZIP CODE 92126
9025 Johnson Allen D ◎ 566-2146
9035 Stepek C W 566-2116
9045★Trapasso Joseph P ◎ 566-5539
9055★Repaci Edw L ◎
9065 Vacant
9069 Vacant
9073★Killpack Russell K ◎ 271-5514
9077★Galleto Nicarnor Jr ◎ 566-3471
9081 Vacant
9087 Vacant
9093 Vacant
PEGASUS AV BEGINS
9109 Vacant
9123★Aspacio Procopio ◎ 566-4027

197
GENESEE AV —FROM 2750 KEARNY VILLA RD WEST THEN NORTHWEST

ZIP CODE 92123

139
ZIP CODE 92111

695
4089 Checker Auto Parts Inc auto parts 278-0444
4091 Seven-Eleven Food Store gro & meats 292-1161

495
ZIP CODE 92111
4101 Salazar Taco Shop restr 292-7710
4102★Zetz James M ◎ 565-4817
4104 Knox Danl G ◎ 278-8928
4106 Sutter Bernice Mrs
4108 Mc Mullin Terry R ◎ 279-9742
4110 Wu Ayako 279-8217
4112 Siembieda Wm J ◎ 278-1657
4114 Josserand Richd G ◎ 277-4009
4116 Starnes Carl V ◎ 278-5578
4118★Du Charme Geo W ◎ 560-9958
4130 Straub Wm E Jr ◎ 277-9426
4132 Freter L Ernest ◎ 277-7798
4134 Rice Floyd H
4136 Henderson Andy
4138 Sanders Eug C ◎ 277-5021
4140 West Raymond R ◎ 279-3957
4142 Beard Donna D Mrs ◎ 279-8257
4144★Hardie John D 278-6689
4146 Wilson Peter B
4160 Somers Howard B ◎ 279-2018
4162 Bury Joseph J ◎ 277-4246
4164★Carson J D
4166 Shea Dorothy ◎ 292-0458
4168★Knute Richd J ◎
4170★Campbell Gerard
4172 Rikhof Sophus ◎ 279-4938
4174 Faber H Douglas 278-8875

493
ZIP CODE 92117
BALBOA AV INTERSECTS
4200 Block H & R Inc income tax serv 279-1780
4202 Balboa Genesee Professional Bldg Rooms
Vacant (1st-3d Fls)
401 Clairemont Anesthesia Physicians Medical Group Inc 278-1900
402 Weisman Morton P phys 279-0500
403 Executive Tax Service (Div H & R Block Co) 292-0402
404 Hofflund Anne M Mrs csp 278-5190
404 Hofflund Paul csp 279-2801
404 Jackstadt Nina R csp 279-2801
405 Vacation Samaritans (priv ofcs)
406 Vacation Samaritans non profit orgn 279-6861
407 Neary Walter E Rev ofc 560-9944
408 Vacant
409 Radio Corp Of America Solid State Div electronis equip sls 279-0421
410 Radio Corp Of America Mobile Communications inter communicationequip & sys 565-6833
411 Vacant
412 University Professional Placement Agency emp agcy 278-1361
413 Vacant
STREET CONTINUED
4204 Gordon Saml S optom
4206 Poor Henry's Beauty Salon
4210 Cabrillo Television & Appliance Co sls & serv 279-4031
4225 Southern California First Natl Bk (Clairmont Ofc) 294-4471
4243 Fed-Mart Furniture Shop furn 278-5220
4251 Bicycles N Stuff bicycles 565-6522
4255 Pants Plant The mens clo 560-4595
4267 Berek's Hallmark Shoppe greeting cards 560-8101
4269 House Of Fabrics dry goods 278-0311
4271 Other Woman The womens clo 560-6484
4275 Fashion Town womens clo 560-7707
4277 Picnic'n Chicken prepared foods 565-6755
4279 Vacant
4283 United Sporting Goods 560-1262
4299 Vacant
MT ETNA DR INTERSECTS
4302 Larry's Service Center gas sta 277-1800
4303 Genesee Shell Service gas sta 292-7410
4385 Thrifty Oil Co gas sta 279-9996
DERRICK DR BEGINS
4411 Balboa Plaza shopping center Jimbo's Liquor & Deli 278-6440
4415 Mr Best One Hour Cleaners clo clns 278-1050
4417 Beneficial Finance Co loans 278-4261
4421 Ice Cream Factory The 279-0797
4423 Sample Factory womens clo 565-0605
4425 Rose's Balboa Beauty Salon 277-1251
4427 Balboa Center Barber Shop 278-3281
4429 Berko's Dance Studio 292-0750
4433 Genessee Self Service Laundry self serv 277-9980
4439 Sav-On Drugs Inc 278-6310
4441 Safeway Stores Inc gro

191
CHICASAW CT ENDS
SAUK AV BEGINS
4801 Childers Charles ◎
4802 Commons Horace J ◎ 276-7528
4811 Stoike Florence E ◎
4812 Krueger Albert R ◎
4821 Matthews L R 276-5340
BANNOCK AV INTERSECTS
4850 Lawrence Benard L 272-2309
4852★Hanas Benedict
4860 Goossens Rudolf 274-5321
4862 Vacant
MIRAMAR RD INTERSECTS
MANITOU WAY INTERSECTS

567
CLAIREMONT MESA BLVD INTERSECTS
CONRAD AV INTERSECTS
4921 Weathers Terry A ◎ 274-4382
4930 Whittemore Arth G ◎ 274-3861
4931 Mc Hardy Donald D ◎ 273-1523
4940 Mc Crackin Robt H III Rev ◎ 274-0968
4941★Nolan James P
4950 Kovacevich Paul F ◎ 272-7615
4951 Cook Phyllis ◎ 272-4279
4960 Hucke Lynne C Mrs ◎
4961 Hallfarth Walter H ◎ 273-8860
4970 Heath Herbert C ◎ 276-6388
4971 Ballard Russell R ◎
4980 Paterson Richd R ◎
4981★Colbert Wm A 270-3893
5001 Crow Glenn R ◎ 273-6305
5002 Vacant
5011 No Return
5012 Smith Wm K ◎ 274-6027
5021 Gray John D ◎
5022 Kachkowski Sandra Mrs
5031 Cote John M real est appraiser 273-3375
5032 Reddick Donald V ◎ 273-6421
5041 Davey Donald E ◎
5042 Mc Girr Robt W ◎ 273-1837
5051 Vacant
5052★Esquer J M ◎ 273-4298
5062 Prince Clyde E ◎ 276-6452

167
SAN CLEMENTE CANYON FRWY INTERSECTS

169
GOVERNOR DR INTERSECTS

269
ZIP CODE 92123
DECORO ST ENDS
JARDIN CT BEGINS
NOBEL DR ENDS

101
6366 All Saints Lutheran Church 453-3595
All Saints Nursery School 453-5340
GOVERNOR DR INTERSECTS
MIRAMAR RD INTERSECTS
THE FOLLOWING EVEN NUMBERS ARE IN LA JOLLA
ZIP CODE 92037
9490 La Jolla Country Day School 453-3440
REGENTS RD INTERSECTS
THE FOLLOWING ODD NUMBERS ARE IN SAN DIEGO
ZIP CODE 92121
9771★Shepherd Lemuel 453-6816
9773 Hewette Amber Y 453-1169
9775★Nealey Celeste
9777 Alexander Edw C ◎ 453-7287
9781★Barmatz Jesse 453-7118
9783★Malcolm David L ◎ 453-5139
9785 Sexton Perry S ◎ 453-7467
9787★Magnuson Donald P 452-1130
9791 Berkenfield J Alan 453-5574
9793★Durbin Greg 453-3446
9795★Nelson Harold J
9801 Goulart Paul R ◎ 453-8917
9803 Miller Mona L Mrs ◎ 453-4205
9805 Matthews Ronald ◎
9807★Fox James
9809 La Jolla Vista Assn social club
9813 Vacant
9815 Vacant
9817 Fernandes Arnold J ◎ 453-3168
9819 Watson Blain H ◎ 453-4889
9821 Vacant
9823 Aurand Henry S Jr ◎ 453-3781
9825★Kurz Janet 453-3143
9827★Bonvillain F D 453-7847
9829★Littlejohn Ellen V ◎
9831 No Return
9833 Kreutz Edw C ◎ 453-6779
9835 Yamaguchi Tad ◎
9837 Gellatly R Neil ◎ 453-8028
9839 Gonzales M Louise ◎ 453-1854
9841 With Jere L 453-3927
9843★Henley Jan
9844 Scripps Medical Arts Center ofc bldg Suites
100 Blank Alan M phys 453-0753
100 Brenner Paul H phys 453-0753
100 Lischke Jon H phys 453-0753
100 Rich Michl J phys 453-0753
100 North County O B-Gyn Medical Group Inc 453-0753
101 Physical Group Facility med laby 453-5333
109 Froeb Herman F phys 453-5366
109 Hanson James C phys 453-5366
109 Kim Byong-Mok phys 453-5366
114 Ritt Donald J phys 453-6280
114 Roseman David M phys 453-6280
115 Boughton Robt M phys 453-5944
115 Coast Urology Medical Group Inc 453-5944
115 Flynn Vincent J phys 453-5944
115 Mc Ilroy Richd H Jr phys 453-5944
116 Bethard Wm F phys 453-8250
116 Spong Fredk W phys 455-9460
116 Mende Christian W phys 453-9460
116 Mayhew Steph H phys 453-9460
117 Cobb Norman L phys 453-2622
121 Pathology Medical Group Inc 453-3141
200 Smith David A dentist 453-5050
201 Kielty Michl G phys 453-1553
202 Bolch Oscar H Jr phys 453-8400
202 Baylor Joseph P phys 453-8400
202 University City Ob-Gyn Medical Group Inc 453-8400
207 Capozzi Joseph A phys 452-8282
207 Hoffman I Kenneth phys 452-8282
211 Merdinger Walter F phys 459-2658
214 Jones Whitney A dentist 453-5525
214 Strand Dale M dentist 453-5525
217 Hall Richd L phys 453-2973
220 San Diego Thoracic Surgery Medical Group Inc 453-8430
220 Gibbons Glen A phys 453-8430
221 Coast Urology Medical Group Inc (Business Ofc)
224 Psychiatry Centers At San Diego Inc psychiatrists 453-9344
224 Feicher John P psychiatrist 453-5320
224 Flanagan Thos A psychiatrist 453-5320
224 Meredith Charles H psychiatrist
224 Sparrow Wm T psychiatrist
225 Majure O Lamar phys 452-0133
300 Orthopedic Specialists Medical Group Inc phys 453-9400
300 Forney Harold J phys 453-9400
300 Green Thos J phys 453-9400
300 Perlman Richd D phys 453-9400
300 Thompson Joseph M phys 453-9400
301 Taylor Marshall B phys 453-8500
303 Pediatric Medical Group Inc phys 566-4444
303 Heller Ronald J phys 453-1204
303 De Genaro Frank Jr phys 453-1204
312 Bercovitz Zacharia phys 453-9020
315 Han Wha-Shim phys 453-4061
315 Smith R Philip phys 453-4061
315 Vandenberg Gary phys 453-3813
316 Cherry John K phys 453-2733
319 Richards Harold J phys 453-8800
321 Nelson James R phys 453-3842
321 Silver Dee E phys 453-3842
400 Specialty Medical Clinic Inc 453-9200
400 Beary F Donald phys 455-7200
400 Black Paul L phys 455-7200
400 Carmichael David B phys 455-7200
400 Carson John C phys 455-7200
400 Jensen Walter L phys 453-9200
400 Pund Ernest E Jr phys 455-7200
400 Jordan James C phys 455-7200
400 Shean Fredric C phys 455-7200
400 Mc Call John C Jr phys 455-7200
400 Mc Neill Christopher J phys 455-7200
400 Shively Harold H phys 455-7200
400 Trombold John S phys 455-7200
STREET CONTINUED
9845 Mc Comb Maria I Mrs ◎ 453-8748
9847 Hootman Marcia Mrs ◎
9849 Ward Quitman E 453-6210
9853 Shaw Wm ◎ 452-8254
9855 Allen Fred H ◎ 453-2437
9859 Webb Pauline P Mrs
9861 Webb Jack P 452-8709
9863★Barnes L E 452-8693
9865 Stevens Constance A 453-1379
9867★Bon James K 453-6127
9869 Berdot Claudie M ◎ 453-0988
9871 Ferguson B Copeland ◎ 453-1914
9873★Hendrick Sam
9888 Scripps Memorial Hospital 453-3400
GREEN TREE LA INTERSECTS
9900 Torrey Pines Medical Center ofc bldg
9900a1 Thompson Robt J opthalmologist 755-1169
9900a2 Ash Edmund S phys 453-8742
9900b Lewis Carson M phys 453-8484
9900c Colwell Clifford W Jr phys 453-5060
Laughlin Thos T Jr phys 453-5060
Mohlenbrock Wm C phys 453-5060
9900d North Coast Surgeons Medical Group Inc phys 452-0306
Baker David H phys 452-0306

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

MOUNT CASTLE AVE 1975

MT BURNHAM DR—Contd
5365 Mackerley Edw A ◎ 277-8559
5377 Arnold Dixon J ◎ 278-5070
5397 Johnson J D ◎ 292-4532
5404 Crabb Ronald L 279-4044
5417 Wenger Justin H ◎ 279-1070
5418 Vacant
5432 Milch Theo M ◎ 277-9910
5446 Forward Harvey J ◎ 277-8620
5451 Langton Charles E ◎ 279-8355

195
MT BURNHAM PL —FROM 5300 MT BURNHAM DR SOUTH

ZIP CODE 92111
ZIP CODE 92111
3460 Dunn Woodrow M 277-3907
3461★Harris J M
3470 Cates Donley B 560-9385
3471 Finley Don L ◎ 278-4433
3480 Vacant
3481 Carlin Robt B 292-4095
3490★Beech Jeri
3491 Harvey Wm J ◎ 292-0924

695
MT CAROL DR —FROM 5650 TAMRES DR NORTH

ZIP CODE 92111
3108★Moyce Paul R ◎ 279-6849
3109 Tokunaga Sam ◎
3118 Vacant
3119 Ferguson Edwin R 292-4788
3128★Uzdavines Andrew J Jr ◎
3129★Santiano Arth ◎ 277-6407
3138 Pallotta James N ◎ 292-0401
3139 Adler Max 279-7124
3148 Flower Dorr L ◎ 279-3580
3149 Burns Jack R ◎ 277-5756
3158 Montgomery Wm W ◎ 279-0370
3159 Gontkon Albert A ◎ 279-0477
3204 Pierce Wm L ◎ 277-2940
3205 Peil Forest W ◎
3212 Flint Kenneth R ◎ 292-7270
3213★Calverley Roderick K ◎ 279-3663
3222 Couch Wm E 277-0786
3223★Hill A L ◎ 560-5392
3232 Nelson Alan
3233 Pippitt Robt G ◎ 278-0350
3242 Meyer Max L ◎ 277-3164
3243 Batte J Thos ◎
3252 Atwell Lawrence G 278-8854
3253★Anseln Edwin ◎ 278-1995
3262 Mowry Wm R 278-6491
3263 Olson Ralph L ◎
3273 Hawes James A ◎ 277-7587
3276 Luxford Harry
3283 Smith Fred E ◎ 292-9563
3286 Kabci John 278-5307
3293★Dungan Harold ◎ 560-1602
3304 Armijo Theo ◎
3307 Schurr Wilson E ◎ 279-0828
3314 Mc Cormick Thos J ◎ 277-8888
3317 Fenn Ronald S 278-7235
3324 Heath Frank J ◎ 278-6718
3327 Manuel Robt M ◎ 277-4190
3334 Thompson Wm R ◎ 277-5174
3337 Tevis Lee K ◎
3344 Peterson David
3347 Vacant
3354 Hoffman Wm C ◎
3357 Vacant
3364 Airhart Leslie F ◎ 277-2936
3367 Flynn Parker G ◎ 278-8879
3374 Mc Gucken Paul M ◎ 278-1996
3377 Morrison Emery W ◎ 279-3343
3384 Palmus Peter R ◎ 277-7619
3387 Vacant
MT ACONIA WAY INTERSECTS
3405 O'Toole Jerry D ◎ 278-1489
3410★Coe Anthony L ◎ 279-6377
3415★Brill Virginia M 277-7181
3420 Vacant
3425 Coller Richd R ◎ 279-9062
3430 Vacant
3435 Rawlings Cletus W ◎ 279-1608
3440★Naugle Alvin B ◎ 278-3634
3445 Nolan Maurice J ◎ 277-3291
3450 Morton Earl F ◎ 277-1468
3455 Gagne Raymond E ◎ 279-1040
3460 Henry Myron B 565-2315
3465 Marnane Michl J ◎ 279-4577
3470 Maw Dale M Rev ◎ 279-0327
3475★Adams Elaine L Mrs 560-4569
3480 Adsit Patricia K Mrs ◎ 278-7257
3485 Baumgartner Merle ◎ 292-5914
3502 Sturdivant Robt M ◎ 279-6594
3505 Mc Cann Paul A Jr ◎ 279-5019
3512 No Return
3515 Vacant
3518★Giamanco Andrew ◎ 565-0979
3524 Duron Saml C ◎ 565-1336
3525 Collingwood L L ◎ 277-5805
3530★Dinkin Le Roy
3536★Simon Honesto ◎ 565-2583
3542★Weeks Herman
3548 Clarke Wm E 278-0201

193
MT CASAS CT —FROM 4700 MT CASAS DR SOUTHWEST

ZIP CODE 92117
4201 Whalen Edw A ◎ 278-2136
4220 Lambrou Peter P ◎ 278-1567
4221 Willcutt Ward E ◎ 278-1471
4240 Larghey Peter J ◎ 278-8060
4241 Solotwinsky Steven ◎ 278-1033

193
MT CASAS DR —FROM 4700 MT DURBAN DR EAST

ZIP CODE 92117
4730★Graves Jeffrey R ◎ 279-6873
4743 Gauntz Melvin J C ◎ 560-1890
4746 Wilcox Ronald C ◎ 565-0273
4753 No Return
4760 Streeter Theo G Mrs ◎ 565-0362
4763 Kulick S Herbert ◎ 279-3351
4772 Thomas Edgar A ◎ 278-1493
4773 Keatinge Robt J 560-7192
4782 Scott Robt E ◎ 278-2393
4783 Casey Herman L ◎ 278-7596
4792 Serafin John 279-1335
4793 Prue Kenneth P II ◎ 279-6891
4802 Larson Eug S ◎
4803 Richardson Carol Mrs 565-0484
4812 Harrington Joyce H Mrs ◎ 278-0213
4813 Vacant
4822 Knox Wesley J ◎ 278-1461
4823 Hurst Charles E ◎ 292-9878
4832 No Return
4833 Vick Ella M ◎ 278-7553
4842 Oatman C Geo ◎ 277-6474
4843 Jamieson Dale W ◎ 277-3109
4852 Lovejoy Paul ◎
4853 Ingoldt Kit S Mrs ◎ 279-3768
4862 Greene Robt J ◎ 278-4768
4863 French Wm N ◎ 279-5184
4872 Hale Everett W ◎ 279-1585
4873 Thomas James E ◎ 278-1391
4882 Schneider James W ◎ 279-0208
4883 Jones Dale
4892 Ames Larry A ◎
4893 Anthony Ruth W Mrs ◎ 278-1237
MT CULEBRA AV INTERSECTS
4910 Engbrenghof Lew C ◎ 278-3716
4911★Sumner Robt E ◎ 277-9047
4923 Merlo Santo V ◎
4924 Phillips Frank R ◎
4937 Ragnanese Antonio ◎
4938 Lee Francisco Q ◎ 278-8194
4949 Tappe Maynard E ◎
4950 No Return
4961 Parrent Claude R ◎ 278-0152
4962 Rollins Saml L ◎ 565-2578
4971 Nadahara Nobuo ◎ 565-2134
4972 No Return
4981 Wylie Emmie T Mrs ◎ 279-3883
4982 No Return
5001 Tanner Arlo C ◎ 279-4702
5002 Wilbourn Pierce W ◎ 277-7337
5011 Anderson Richd D ◎ 277-7333
5012★Mc Daniel Lawrence M ◎ 565-9082
5021 Henning Wm O ◎ 292-5908
5022 Pierson John R ◎ 279-7522
5031 Shephard Sam ◎
5032 Stevenson John C Jr ◎ 277-7336
5041 Palmer Ruth Mrs ◎ 277-9831
5042 Hoermon Frank ◎
5051 Roche Joseph E ◎ 277-8860
5052 Schleif Dean E ◎ 277-1523
5061 Kelly Leroy J ◎ 278-0378
5062 Medeiros Joseph F ◎
5071 Adams Francis J ◎ 277-6925
5072 Berkos Paul ◎ 277-8884

493
MT CASTLE AV —FROM 4200 MT EVEREST BLVD EAST THEN NORTH

ZIP CODE 92117
4201★Wood Carol A 565-2125
4210 Mc Stay Robt D ◎ 278-1204
4215 Fugatt Lloyd V ◎ 278-0993
4227 Henderson Larita L Mrs ◎ 279-0918
4239 Shadley Jacques J ◎ 277-7435
4240 Westbrook Thos D ◎
4251 Fujisaki Tetsuo ◎ 278-2936
4256 De Boef Robt E ◎ 279-0733
4263 No Return
4303 Denson Eug G ◎ 277-7562
4304 Hill Dale W ◎ 277-5354
4313 Lee Roy G ◎ 277-7408
4314 No Return
4323★Tooker Geo T ◎ 277-7433
4324 Langworthy Charlie
4333 Telfer Clifford A ◎ 277-2383
4334 Spieker Ferdinand B ◎ 277-7418
4343 O'Rourke Charles L ◎ 277-7405
4344 Lachmann Doris M ◎
4353 Stelzner Raymond R ◎ 277-3833
4354 Garner Gordon L ◎
4363★Apostoli Jeanne Mrs 279-3662
4364 Garver Arth S ◎ 279-9034
4373 Roguz Mary Mrs ◎ 279-0496
4374 Ganoe James T ◎
4383 No Return
4384 Stevens Fredk C ◎
MT ETNA DR INTERSECTS
4401★Knowles Wayne ◎ 279-6939
4402 Rieger Henry G ◎ 278-4426
4407 Cyr Marie M Mrs ◎ 277-7436
4408 Brisebois Germain A ◎ 277-5877
4413 No Return
4414 Board Lloyd ◎ 277-7413
4419 Mead James G ◎ 279-2884
4420 Wadley Joseph D ◎ 277-7023
4425 Ramberg Arnold T ◎ 277-7603
4426 Edwards David W ◎ 292-0538
4431 No Return
4432 Pickle Kenneth G
4437 Snyder John W ◎ 278-0395
4438★De Bernardis A R ◎
4443 Ankeney Clem W ◎ 277-8316
4444 Jackson Margt R Mrs ◎ 278-2209
4449 Knight Wm H ◎ 279-6363
4450 Poff Emory G ◎ 278-2815
4455 Robertson John M 565-8958
4456 Groot Thos N ◎ 565-4437
4461★Salarzon Anacleto C ◎ 279-7829
4462 Clark Donald L ◎ 277-7424
4467 Kazyaka John Illustrating Service tech illustration consultant 279-5783
★Kazyaka John P ◎ 279-5783
4470 Mc Killip Keith W ◎ 278-8323
4473 No Return
4479 Murton Wilbur C real est appraiser ◎ 278-0671

191
MT CERVIN DR —FROM 4800 BOXWOOD AV NORTHEAST

ZIP CODE 92117
4708 Hanna Wm C ◎ 277-5896
4709 Wylie Wm L ◎ 278-8930
4716★Deinlein James B 565-7838
4717 No Return
4724 Lavigne Edmund G ◎ 565-7328
4725 Harris Gladys Mrs ◎ 277-5029
4732 Telles James T ◎ 278-3104
4733 Aguirre Armando S 277-7903
4740 Romero Renan S ◎ 279-3245
4741 Nicely Russell E ◎ 292-7936
4749 Ortiz Louis ◎ 277-1036
4750 Le Moine Richd J 279-5758
4757 Whipp Douglas P ◎ 277-2274
4758 Michel E John
4765 Maska Karl L 279-3154
4766 Josephson Jerry T ◎ 279-7717
4773 Fahlstrom Edw J ◎
4781 Smith Pete ◎ 278-6632
4789★Morrison Claude D 565-8290
4797 Crandall Geo H ◎ 278-1616

191
MT CRESTI DR —FROM 4750 MT ST HELENS DR NORTH

ZIP CODE 92117
4742 Schaner Fredk L ◎ 292-1838
4745 No Return
4750★Georgion T W ◎ 560-1895
4758★Harrington Russell L
4759 Covert Madaline Mrs ◎ 278-3874
4766★Houston C 278-7322
4767 Duffy Dorothy Mrs 279-4068
4774★Neverman Ronald H 277-1669
4775 Kucynski Edw H ◎
4782 Denniston Earl W ◎ 277-3796
4785 Young Charles W ◎ 279-3527
4792 Curry Joseph ◎

193
MT CULEBRA AV —FROM 4900 MT ALIFAN DR NORTH

ZIP CODE 92117
4260 Diaz Jack H ◎
4265 Berry John W ◎ 278-1705
4268 Lacuyer Romeo ◎ 278-7519
4273 Wolcott V E ◎ 277-9315
4276★Schott Laurence F 279-5366
4281 Southard Conard B ◎
4284 Blackington Kenneth J ◎ 277-6664
4289 Yates Warren W ◎

495
BALBOA INTERSECTS

4
MT CULEBRA CT —FROM BALBOA AV SOUTH 1 NORTHWEST OF MT BAGOT AV

ZIP CODE 92111

1
MT DAVIS AV —FROM 4300 MT FOSTER AV NORTHEAST

ZIP CODE 92117
4201 Murphy James L ◎ 278-1796
4202 Maltman Donald J ◎ 292-9569
4214 Mason James S ◎ 278-3540
4215 Palmer Norval L ◎ 277-0772
4227 Vincent Richd L ◎ 560-9720
4230 Gallagher James V ◎ 278-5623
4241 Bryant Ruth E Mrs 277-7573
4255 Powell G W ◎ 277-6375
4267 Clemons Ralph K 278-3671
4270 Doyle Patrick J ◎ 279-3641
4271 Stenberg Kent ◎ 292-1751
4285 Kelly Richd L 279-2883
4286★Mathews Wm ◎
MT CULEBRA AV INTERSECTS
4302 Simmons James R ◎ 278-0480
4307 No Return
4308 Turner Harriet B Mrs ◎ 565-8430
4313 Campbell Ervin O ◎ 278-3187
4314★Berndes Jon ◎ 565-0240
4319 Cumper Wm G ◎
4320 Greenhalgh Robt J ◎ 279-3176
4325 Knight Charles ◎
4326 Sowers Roy D ◎ 278-8896
4331 Buckley James P ◎ 278-0272
4332 Sherman Ray W ◎ 277-5600
4337 Tenneson Donald A ◎ 278-5059
4338 Tevis Edwin E ◎ 278-3401
4341 Campbell Sharon L ◎ 279-8127
4344 Anderson Carl W ◎ 279-8853
4345 Danner Constance R Mrs ◎
4348 Hensel Donald E ◎ 278-3673
4349 Smith Marvin D ◎ 277-8850
4355 Palestini Louis A ◎ 279-7773
4361 Rodriguez Raymond J ◎ 279-3769
4371 Dysart Noel K ◎ 279-1628
4381 Kehew Geo M ◎ 278-4175
4391 Benstead Roy E ◎

19
MT DURBAN DR —FROM 4700 MT CASAS DR NORTHEAST

ZIP CODE 92117
4701 No Return
4704 Janowitz Sam ◎ 279-3642
4714 Johnson Edw M ◎ 278-2291
4724 Sinfield Leonard S ◎ 279-6582
4725 Gaillard Robt J ◎ 279-3785
4734 Wall Clyde F ◎ 278-2196
4744 Ashley Mark L ◎ 278-2384
4745 Boyce Milford R ◎ 278-0548
4754★Van Daele Ronald ◎
4755 Mc Leese J Kenneth ◎ 278-2032
4764 Mersereau Isabella M Mrs ◎ 277-2880
4765 Genzler Fred ◎ 292-5788
4774 Hotchkiss Ronald W ◎ 279-9094
4775 Fifer Eliz S Mrs ◎ 278-6256
4784 Hunter Robt A ◎ 278-9318
4785 Taylor Datha D Mrs ◎
4804 Butler Thos ◎ 278-1043
4805 Podgurski Bennie Jr ◎ 279-6359
4814 Davis Wm H ◎ 278-9613
4815 Wilson Victor E ◎
4824 Hoover Charles L ◎ 278-2288
4825 Powers Edw L ◎
4834 Rymer Harry A ◎ 278-1573
4835 No Return
4844★Begley Fred ◎
4845 Bryant Wayne ◎ 279-1153
4854★La Rosa Leonard ◎ 277-7669
4855 Burgie Robt J ◎ 279-9195
4864 Riordan John P ◎ 278-2418
4865 Baney Richd L ◎
4875 Watson Tom B ◎ 278-5891
4876 Gimbel John P ◎ 278-4803
4885 Markoskie John V ◎ 278-2917
4888 Newman Bruce F ◎
MT CULEBRA AV INTERSECTS
4903 Bristow Wm A ◎ 277-7317
4904 Luckey O Charles ◎ 278-2089
4923 Uomoto Hiroshi
4924 Torres Frank ◎ 560-0169
4943 Greenman Kenneth J ◎ 277-5409
4944 Agosta Joseph P ◎ 278-5346
4963 Holt Roy C ◎ 278-0357
4964 Lindsay Grant M ◎ 279-0409
4973 Hritz James E 277-7294
4974 Perez Jose S ◎ 277-8435
4983 Whitehill Paul H ◎ 278-5208
4984 Flores Oscar ◎ 278-5340
5003 Daniels Charles H ◎ 279-3384
5004 Sabo John ◎ 565-8218
5013 Allan Lewis E ◎ 277-4394

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

MOUNT ETNA DR 1975

MT DURBAN DR—Contd
5014 Quintero Elida F Mrs 565-7767
5023 Switzer Ralph G ◎
5024 No Return
5033 Tuttle Glenn M 277-7837
5034 Carter Smith L ◎ 278-4453
5043 Ciardi Louis F ◎
5044 Free Joe E ◎ 277-7328
5053 Nelson Walter A ◎
5054 Alexander Harry N ◎
5063 Jones Kenneth E ◎ 277-7327
5064 Harper Alf D ◎ 278-4387
5073 Williams Wm L ◎
5074 Holmes Claude W 278-5520

193

MT ELBRUS CT —FROM 4900 MT ELBRUS DR SOUTH

ZIP CODE 92117
4307 Watring James E ◎ 277-0762
4315 Eldridge Albert L ◎
4325★Dorian Mark 278-3942
4330 Vacant
4337 Gruner Oskar ◎ 279-2341
4338 Romine H 277-8762
4345 Lemasters Max E ◎
4346 Walker David M Rev 278-4615
4353★Schiller Maurice L ◎ 560-0967
4354 Curtis Carroll A 560-9453

193

MT ELBRUS DR —FROM WEST OF 4500 MT FORAKER AV EAST

ZIP CODE 92117
4802 Alexander Perry C Jr
4807 Bell L Barclay ◎ 277-1722
4810 Mc Kenzie Donald J 277-9098
4817 Young Fredk J ◎ 279-2619
4818 Swanke John W ◎ 277-8024
4825 Morgan Sherman M ◎
4826 Springer Harold L ◎ 279-0266
4833 Snyder Frank J ◎ 277-3034
4834 Arledge G Edw ◎ 278-5397
4843 Burkhart Richd L ◎ 279-7711
4844 Phillips Wm L ◎ 278-1062
MT FORAKER AV BEGINS
4853 Ryan L D ◎ 279-1081
4854 Johnson Norman F ◎ 279-1252
4864 Forst John C 560-0414
4874 Power John F 278-9711
4884 Mendenhall Robt E 292-5747
4885 Blackburn Gerard S ◎ 277-8827
4894 Rasmus Alf A ◎ 565-0148
MT ELBRUS CT BEGINS
4901★Robinson Sarah B 278-2688
4911 Lauritzen Wilber L ◎ 278-7274
4912★Schurmann Wm G ◎ 560-6910
4920 Brierton Thos J ◎ 278-5243
4921 Cooper Allan G ◎ 277-9725
4928★Dowdle Herbert E ◎ 560-9038
4931 Mc Dowell Geo A ◎ 279-5422
4936 Clarke Arth E ◎ 277-8475
4941 Haack Richd J ◎ 278-2126
4944 No Return
4951 Christiansen Arnold M ◎ 277-8807
4952 Frost Philip S ◎ 278-2649
4962 No Return
MT FOSTER AV INTERSECTS
4971 Gardner Robt B ◎
4972 Farrell John H ◎ 278-0876
4981 Burner Michl A ◎
4982★Lint Ronald 277-5629
4991 Taylor W Noel
4992 Leonard Roger J ◎ 279-0095

493

MT ETNA DR —FROM 4500 MT HERBERT AV EAST

ZIP CODE 92117
4618 Prim Janie A Mrs ◎ 278-3027
4630★Lowry Jack F ◎ 277-3966
4644 Hersey Wm B ◎ 292-1469
4658 Smith Vincent ◎
4670 Peterson James C ◎
4684 Rossetti Jack M ◎ 278-9192
4702★Whitacker Larry L ◎ 277-3638
4714 Merrill Robt M ◎ 279-6460
4728★Cabral John
4740 Smith Sidney E ◎
4741 North Clairemont Little League youth club
4752★Loper Michl J 279-4448
4764 Stewart Clarence E ◎ 278-6553
4776 No Return
4788 Rolla Edna V Mrs ◎ 278-4473
4802 Sepin Lauren S ◎ 279-8288
4811 Reorganized Church Of Jesus Christ L D S 279-6974
4812 Beath Paula P Mrs ◎ 278-5851
4822★Smith Jack J 278-5494
4831 Francis Dean E ◎ 278-4268
4832 Nichols Reginald J ◎
4841 Aitken Wm W ◎ 279-4675
4842 Beck Roman E ◎ 279-0471
4851 Colton Dorothy M Mrs ◎ 278-5481
4852★Perrin Virginia Mrs ◎ 560-9710
4861 Miller Jack Jr 279-9068
4862 Hoyt Edwin P ◎ 277-8603
MT FORAKER AV INTERSECTS
4901 Burgess Donald E ◎ 277-5247
4902 Wright Ina J Mrs 278-0262
4911 Pasquill Donald ◎ 277-0606
4912 Branch Kenneth ◎ 278-9554
4921 Mc Williams Gerald E ◎ 565-2650
4922 Jacobs Theresa S Mrs ◎ 560-9658
4931 Kurtz Frank J ◎ 279-8141
4932 Clift John W ◎ 278-5826
4941 Edmonson Charles A Jr ◎ 277-8651
4942 Earner Cath R Mrs ◎ 278-9899
4951 Ingersoll Geo W ◎ 278-0183
4952 Romero Oscar B ◎ 277-2483
4961 Mc Laughlin Clarence L ◎ 278-0422
4962 Rayspis Emma I Mrs ◎ 278-3371
4971 Mickelson Helen L Mrs ◎ 277-0131
4972★Copeland Donald R
4981 Stoll Edgar C ◎
4982 Courtney Bernard C Jr ◎ 278-2646
4991 Tomaiko Steve J ◎ 278-0421
4992 Herrick Donald E
MT DAVIS AV INTERSECTS
5002★Campbell Edw L ◎ 277-4734
5012 Sheldon Robt M ◎ 277-8642
5022 Vacant
5032★Loussia Manuel P 278-9991
5042 Morgan Ernest L ◎ 277-8063
5052 Powell Ulner G ◎
5062★Knouse Frank E ◎ 277-2967
5072 Meade Claude ◎
MT EVEREST BLVD INTERSECTS
MT CASTLE AV INTERSECTS
5255 Clairemont Community Hospital 278-8100

195

MT EVEREST BLVD —FROM 3400 MT ARMOUR DR NORTH

ZIP CODE 92111
3402 Bertelsen Thos A ◎
3406 Vacant
3412★Kimler Peter N ◎ 560-1197
3416 Renick Richd D ◎ 277-8982
3422 Crane Grant ◎ 279-3293
3425★Lofftedt Hakan N
3426★Rose Ramon L ◎ 565-7481
3432 Heyligers Eug A ◎ 277-5777
3433 Kelly Dennis F ◎ 292-9740
3436 Hauss Philip J ◎ 277-3689
3439 De Corse Henry A ◎ 278-5957
3442 Wilson Vivian R Mrs ◎ 277-8414
3445★Hudson Dale L
3446★Owens John 279-4118
3452 Skelly Domenic ◎
3453 Rife Norvel L ◎ 292-1479
3456 Ashby Dennis A ◎ 278-4673
3461 Altig Charles A ◎ 279-0892
3462 Gonzalez Herman ◎ 277-3615
3465 Allen Ron F ◎
3466★Long John D ◎ 279-6750
3471 Vacant
3472 Ridenour Ronald R ◎ 292-7651
3475 Bourgeois Clifford J ◎ 279-6669
3476★Pollard James
3481 Ratta Marcia L Mrs ◎ 279-4591
3482 Schmitz Gerda F Mrs ◎ 292-5050
3485 Torrance Wm L ◎
3486 James Glenn R ◎ 278-0414
3491★Robison A 565-1348
3492★Kohnke Fred 277-9420
3495 Dolan Geo W Jr 292-4444
3496 Bickler Raymond M 278-4340
MT ARMOUR PL INTERSECTS
3504 Leaverton Stanley 292-9984
3510 Lessley Merrill J ◎ 560-8150
3513 Casper James J ◎ 278-3473
3516 Godwin Joseph R ◎ 278-0157
3519 Randazzo Randy ◎
3522 Harris Clayton I ◎
3525 Mori Takecski ◎ 278-6789
3528 Frude Jerald 279-4167
3531 Howard John P ◎ 277-8198
3534 Myers Willis C ◎ 278-6259
3537 Reynolds Waldon K ◎ 279-3342
3540★Mundling Linder J 560-4068
3543 Fields Vernon A ◎ 278-0634
3546 Fitzmorris Bob H ◎ 277-9063
3549 Pierson Frank D ◎ 278-6296
3552 Fisher Eug L ◎
3555 Crane Crim D ◎
3558★Schoon Marvin J ◎ 279-1370
3561 Marshall Wm V ◎
3564 Morrison Wesley A ◎ 278-5187
3567 Beals James H 279-3076
3570 Alexander Mildred Mrs ◎
3573 Vacant
3576 Haas Ray A ◎ 277-5148
3579 Bristol Daryled J ◎ 279-6809
3584 Vargas Frank ◎ 278-1663
3587 Urias Gonzalo T ◎ 279-1989
MT BLACKBURN AV INTERSECTS
3601 Perry Tom A ◎ 278-9078
3609 Ruth Donald C ◎
3617★Boyd Jerry A 565-2070
3625 Van Stelle Jack ◎ 279-3812
3633 Barber Beulah G Mrs ◎ 278-4405
3640 Vacant
3645 Clemens Maurine P Mrs 277-6322
3657 Pate James T ◎ 279-1374
3660 Camba Taurino O ◎ 278-1049
3669 Pamaran Ricardo C ◎ 279-5118
3681 Vacant
3689 Schweiger Vince ◎
3697★Walashek Michl ◎ 565-7013
MT ASHMUN DR INTERSECTS
3701 Cole Calvert G ◎ 278-8560
3709★Horsfall G T ◎
3710★Lindberg C R
3717 Fish John F ◎ 278-3466
3718★Daly Mary L Mrs ◎ 279-8987
3725 Rasmussen Howard E ◎ 279-4259
3726 Lampkins Gerald W ◎ 278-0373
3735★Roberts Robt D
3736 Anding Leonard O ◎ 279-1643
3745 White Erwin J ◎
3746 Patterson Duncan W ◎ 278-6247
3755 Norgard Geo ◎
3756 Pringle Jean L Mrs ◎ 277-9039
3765 Whiteley Ross R ◎ 278-4986
3766 Walery Kenneth F ◎ 565-1017
3775 Sturre Gerald K ◎ 279-1026
3776 Gardenhire Theo F
3785★Davis Jack W ◎ 279-7608
3786 Kokes Cecile M Mrs ◎ 278-2726
3795 Foster Jack E ◎
3796 Sharpe Kenneth A ◎ 278-2350
MT ARARAT DR INTERSECTS
3801 Elias Justin J ◎ 277-3350
3813 Di Stefano Robt O 292-1527
3814 Harpin Normand A ◎ 278-8020
3825 Boysen James C 279-6906
3826 Dauve Paul H ◎ 277-1933
3838★Botts Charles R 292-1480
3839 Stephens Oscar L ◎ 279-4694
3850 Vacant
3855 Woodward Billye C ◎ 278-2709
3862★Smith Joseph M 560-5652
3867 Wahl Edw R ◎ 278-5478
3874 Bancroft Glenn W ◎ 277-4004
3883 Kent James L ◎ 278-4772
3886 Chiappi Wm ◎ 278-4593
3906★Zeiss Elliott R 277-8194
3907 Sarvis Robt W ◎
3920 Ferguson Everett C ◎
3921 Antczak Arth J ◎ 279-1285
3934 Adams John C
3935 Stecker Linwood M ◎ 278-3403
3948 Powell Ridgely W ◎ 278-8495
3949 Farschon James W ◎ 292-9180
3955 Lux Fordyce G Jr ◎ 278-4368
3956 Logsdon Paul ◎
3961 Toennessen John M ◎ 279-7988
3964 Koch Arnold C ◎ 278-4799
3967 Douglas Nancy J ◎ 278-4764
3972★Ward Viola M Mrs
3973 Vacant
3979 Vacant
3980 Rotnour Dorothy T Mrs 278-9394
3987★West Robt C
3988 Rothstein Oscar D ◎ 278-0407
3995 Anderson James A ◎ 278-4536
3996 Bloom Martin S ◎ 277-2275
MT BLANCA DR INTERSECTS
4001★Rudd Dora J Mrs
4002★Steed G M 560-7950
4009 Lakin James A ◎ 278-0515
4010 Stepanik Lawrence G ◎ 278-9367
4017 Hennings Gerald E ◎ 292-9420
4018★Marritt Brooks P ◎
4025 Ingle Harry B ◎ 565-4229
4026 Hageman Walter F ◎ 278-0107
4033★Rupe Frances 278-2781
4034 Cook Handley N Jr ◎ 277-9422
4041 Swaringen Albert A Jr ◎ 278-4915
4042★Stoven Steven
4047 Vacant
4048 Vacant
4053 Adams Delno W ◎ 279-3465
4054 Mc Vay Francis E ◎ 278-0458
4059 Nava L L 279-0629
4060★Colston James D ◎ 278-2536
4065 Schrank Stanley D ◎ 565-6449
4066 Antilla Aurie A ◎ 277-7148
4071 Vacant
4072 Cook Arth J Jr ◎ 277-0763
4077 Walsh Martin G ◎
4078★Parker Louis
4083 Barker Lawrence C 278-0488
4084 Vacant
4089 Hornback Ron L ◎
4090 Sewell Kathryn E Mrs ◎ 565-1898
4095 Kassis Thero W ◎ 278-3072
4096 Fagan Rosemary M Mrs ◎ 277-3573

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MT ALIFAN DR INTERSECTS
4101 Fisher Ronald R ◎ 277-1873
4102★Taylor Robt ◎ 565-7359
4111 Mizzles Laura Mrs ◎
4112 Falkner Joseph E Rev ◎ 565-7541
4121 Sanders Jack L ◎ 279-4174
Sanders Patricia A
4122 Pasko Camille ◎ 279-4207
4131 Harkness James L ◎ 277-8995
4132 Brinkerhoff Mildred M Mrs 277-0490
4141 Potts Gerald L ◎ 279-0850
4142 Mac Donald Clare E ◎
4151 Boniface James ◎
4152 Florence Ronald T ◎ 565-0641
4161 Holland Danl E ◎ 277-1332
4164 Merritt Clifford M ◎ 278-2953
4171 Vacant
4176★Temnick Joseph W 277-8584
4181 Vacant
4190 Pagano R N
4191 Koch Fred F ◎ 278-0180

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ZIP CODE 92117
BALBOA AV INTERSECTS
4241 Dehn Lawrence F ◎ 277-0824
4261★Fleisher Mark R ◎ 560-8969
MT DURBAN DR INTERSECTS
4301 Vacant
4311★Rutland Oscar B ◎ 278-2011
4321 Piccolo Franklin L ◎ 279-2292
4331 Burton Richard A ◎ 277-7322
4341★Harrington Donald E 565-0463
4350 Wiggin Kate Douglas School 277-9091
4351 Bozzo Vincent J ◎
4361 Lorenz Henry J Jr ◎ 278-0438
4371 Dill Wm G ◎ 278-4715
4381 Fujisaki Hiromi ◎ 279-9196
MT ETNA DR INTERSECTS
4401 Cariola Roy E ◎
4409 Pena Julian A ◎ 278-5384
4417 Eaton Geo W ◎ 277-7504
4425 Hoyle Frank E ◎ 277-7323
4433 Zims Richd ◎ 278-1252
4441 Shepard Ralph J ◎
4449 Herrick Duane A ◎ 279-6674
MT GAYWAS DR INTERSECTS
4453 Curley Fredk R ◎ 278-4633
4461 Mattenklodt Hans ◎ 277-3403
4467 Mc Kinney Wm B Jr ◎ 278-2242
4473 Lynds Fred P ◎ 279-2832
4476 Bertram Raymond W ◎ 277-7101
MT HAY DR INTERSECTS
4481 Chalmers Burl E ◎
4489 Adams James D Jr ◎ 277-3989
4490★Fries John H 560-1579

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MT FORAKER AV —FROM 4850 MT ELBRUS DR NORTHEAST

ZIP CODE 92117

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4551 Hertig Wm S ◎ 279-5576
4561 Tripp Donald L gdnr 277-2088
4571★Carey Richd ◎
4581 Danielson Raymond C ◎ 279-2816

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MT FORDE AV —FROM 4200 MT VOSS DR NORTH

ZIP CODE 92117
4601★Evola Barbara L Mrs 278-4913
4602 Mc Crary Gary W ◎ 278-2368
4611 Geiger Charles E Jr 278-9735
4621 Book Mac ◎ 278-1946
4631 Martin Marvin R Rev ◎ 278-2317
4641 No Return

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MT FOSTER AV —FROM 2400 MT DAVIS AV NORTHEAST

ZIP CODE 92117
4251★Rapp Robt J 565-9390
4252 Campbell Melvin R ◎ 278-5037
4261 Webb David E ◎ 277-7601
4262 Anderson Harold A ◎ 277-7154
4274 Thomas John E ◎
4286 Relyea Richd E ◎ 278-2823
MT DAVIS AV INTERSECTS
4302 La Vaut Mary M Mrs ◎ 279-1890
4308 Black Carl
4309 Lea John F
4314 Lewis Wilfred I ◎ 278-2822
4315 Hachten Raymond C ◎ 278-2121
4320 Walbaum Donald D ◎ 279-0757
4321★Mickels Cole ◎
4326 Hohnhaus Geo W ◎ 278-2448
4327 Floersch Al A ◎ 279-6614
4332 Smith Marcus E ◎ 278-2449
4333 Delaney Terence E ◎ 279-9644
4338 Baby Steve C ◎ 277-5107
4339 Smith David V 279-9005

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

MOUNT FRISSELL DR 1975

MT FOSTER AV—Contd
4344 Ybarra Richd S ◎
4345 Stoyanow Norma F Mrs 278-5788
4350 Palmer Elmore C ◎ 278-5519
4351 Callahan Margt S Mrs ◎ 278-2445
4356 Torbett Wm H ◎ 277-2799
4357 No Return
4362★Mabie Wayne P 279-7853
4363 Ibarra Rogelio M ◎ 277-1150

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MT FRISSELL DR —FROM 4500 MT GAYWAS DR SOUTHEAST

ZIP CODE 92117
4501 Ross Eug F ◎ 277-6531
4509★Palmer Boyce A ◎
4517 Suter Lester J ◎ 279-0608
4524★Jay James J
4525 Coffey Thos E ◎ 279-0068
4542★Mull Dazel J ◎ 279-2459
MT LINDSEY AV INTERSECTS
MT HERBERT AV INTERSECTS
4661 Ziehl Wm A ◎ 278-5947
4664 Mc Gee Walter T ◎ 277-0414
4671 Goodrum Gerald W ◎ 278-3400
4678 Pince Joseph R ◎ 277-7937
4681 Hutchinson Richd L ◎ 278-4496
4689 Steele Dorothy M Mrs ◎ 277-4385
4690 Paradise James B ◎ 279-8051
4697 Scarpa Philomena E Mrs ◎ 277-2656
4701 Arreguin F R ◎ 277-3157
4702 No Return
4714★Wilkerson Robt E 277-4337
4715 Maynard Paul H ◎ 279-9330
4726 Christian Jack L ◎ 277-0467
4727 Dickinson Bill C ◎ 277-5434
4738 Cochrane Theo Jr ◎ 278-5224
4739 Garcia Leo D ◎ 279-0938
4750★Buck Cecil F ◎ 560-6507
4751 Smith Michl L ◎ 279-4775
4762 Rolecki Alex A ◎
4763 Ball Ned R ◎ 278-5196
4774 Wagner John E ◎ 277-5262
4775 Parker Robt C ◎ 277-6314
4786 Winter Joseph E ◎
4787 Soland Leslie L ◎ 278-9757
4825 Ray Thos ◎
4826 Tinsley Randy D ◎ 279-6252
4835 Herney Francis A ◎ 277-8959
4836 No Return
4845 Dolphin Geo ◎ 277-7511
4846 Post Edwin C ◎ 279-2118
4855 Wolske Gordon H ◎ 277-0961
4856 Sanford Jerry L ◎ 279-0454
4865 Denson Joanne M Mrs ◎ 277-2091
4866 Bishop Marlene L Mrs ◎ 277-7610
4875 Olimb Carl A ◎ 278-5117
4876 Vacant
4885★Den Herder Walter
4886 Hensler Lawrence R ◎
MT FORAKER AV INTERSECTS
4901 Beitz Ronald E ◎ 279-7629
4902 Vacant
4911 Shiraishi Toru ◎ 277-7508
4912 Hoover Betty R Mrs ◎ 278-1859
4921 Mountain Robt ◎
4922 Mueller Edw ◎ 279-7485
4931 Mumford J Le Roy ◎ 277-0836
4932 Ricketts Dennis I ◎
4941 Yauney Richd L ◎ 279-3033
4942 Mann Ruth F Mrs ◎ 278-0643
4951 Hanger Wilbur L ◎ 277-7117
4952★Cavender Thos H 560-0476
4961 Morales Frank ◎ 292-0718
4962 Pippin Muriel G Mrs ◎ 277-4971
4971 Rampage Roger H ◎
4972 Winchester Wm A ◎ 277-2533
4981 Fetters Leon J ◎ 277-6826
4982 Pierson Michl E 565-6019
5001 Gay Donald L 565-7388
5002 Fletcher Charles L ◎ 279-6229
5011 Star John C ◎
5012 Rosales Armando B ◎ 278-6096
5023 Grider Geo W ◎ 279-9575
5024★Klimetz Donald J ◎ 277-2728
5035 Barat Zuhair 277-4730
5036 Teague Roy W ◎ 277-7071
5045 Kimura Saml H ◎ 278-7810
5048 David Luther W ◎ 278-0427
5055 Jensen Fredk H ◎ 277-7527
5060★Kostecki Thos W ◎ 565-2250
5063 Greenlee Edgar M ◎ 277-1912

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MT GAYWAS DR —FROM 4500 MT FRISSELL DR EAST THEN SOUTHEAST

ZIP CODE 92117
4502★Fiorello Thos M 277-8319
4511 Steinberger Kenneth L Jr 278-7830
4512 Moroney John D ◎ 278-3560
4522 Stout James ◎
4523 Wingert Paul S ◎
4532★Mauro Michl P ◎ 277-1697
4535 Jacobson Merrill S ◎ 278-3513
4542 Shattuck Thos R ◎ 278-8471
4552 Dean Gerald L ◎
4562 Dorrel Gary O ◎ 279-5699
4602 Vacant
4605 Wheeler James ◎ 277-6912
4612 Hedgpeth James R ◎ 278-2956
4615 Kenny Francis W ◎ 277-2947
4622 Fox Robt T Jr ◎ 277-7295
4625 Wade Raymond W Jr ◎ 565-2137
4632 Zeller Roger J ◎ 278-3019
4635 Khambata Noshir K ◎ 277-9381
4642 Alfrets Gerald R ◎ 279-5968
4645 Purrier Leland S ◎ 277-4354
4652 Auiler Irving M ◎ 277-1428
4655 Bradbury Frank H ◎ 277-3899
4662 Rogers Barbara Mrs ◎
4672 Welichko J C Mrs ◎
4675 Smith Henry A ◎ 277-0355
MT HERBERT AV INTERSECTS
4709 Struhar Aug K ◎ 277-4797
4712 Powell Rue E ◎
4717 Ley Carl F ◎ 277-5069
4722 Sorenson Richd E ◎ 278-9066
4725 Barton Gaylard
4731 Davison Roger W ◎ 278-2630
4732 Carroll Bernard J ◎ 278-1023
4741 Jordan Nathan T ◎ 277-5251
4742 Jiho Ramon F
4751 Sheriff Davd G ◎
4752 Granger La Verne C ◎ 279-8371
4761 Van Derheyden Jon D ◎ 292-5489
4762★O'Dell James M ◎ 277-6049
4771 Manson Roger A ◎ 277-4977
4772★Gee Warren F ◎
4781 Rhodes Jack D ◎ 277-5051
4782 Robinson Foster A ◎ 278-7363
4791 Jabaay Chris J ◎
4792 Hanson Dale R ◎ 278-0994
4801 Crawford Joseph J ◎ 278-2344
4802 Stargell Guy L ◎ 277-0169
4817 Weed Robt C ◎ 277-5930
4818 Broce Bill F ◎ 565-9240
4831 Theibout Martin V
4832★Mc Kinney Wm B ◎ 278-8376
4847★Minkler James A ◎ 279-1916
4848 Vacant
4861 Tatum Virgil ◎ 277-9439
4862★Evans Wm A ◎ 565-6993
4875 Salter Clifford G ◎ 278-5407
4876 Housgard Margt M Mrs ◎ 277-0695
4887 Stacey Robt E ◎ 279-3953
4888 No Return
MT FORAKER AV INTERSECTS
4901 Reynolds Dean W ◎
4902 Anderson Charles H Jr ◎ 277-6920
4915 Sherrow Bobby L
4916 Greaton Dwight ◎ 565-2059
4929★Newman Edw P 565-6109
4930 Still James D ◎ 277-5155
4943 Davis Paul ◎
4944 Zombek Juliana Mrs ◎ 277-1554
4957 Coughran Dewey L ◎ 560-9852
4958 Kreinkamp D W ◎ 277-9848
4971★Flahan C Mark ◎ 278-6210
4972 Courington Ida E Mrs ◎ 277-6532
4985 Gallo Alphonse W ◎ 279-5213
4986 Wagoner Wm E 277-7242
5001 Howland Doris M Mrs ◎ 278-7698
5002★De Haven David E 279-6874
5017 Bracken Jay P ◎ 277-2422
5018 Williams Leo H ◎ 279-3506
5033 Luther Glendon C ◎ 279-6814
5034 Nunley Wesley O ◎ 278-4347
5049★Castillo Teresita Mrs ◎ 560-5376
5050★Claycomb Leonard R ◎
5061 Sassano Ronald M
5062 Spencer Walter R ◎ 277-0120
5073★Marcus Mark L ◎ 565-6800
5086 Mc Cafferty Joseph E ◎ 277-7832
5087 Oram Sydney F ◎ 277-6512

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MT HARRIS DR —FROM 4500 BLK MT HERBERT AV EAST

ZIP CODE 92117
4701 Carlsen Gregg J ◎
4702★Marshall Gene 560-5277
4714★Harris James L ◎ 278-7112
4715★Nickalson Barbara J Mrs ◎ 565-1695
4726 Vacant
4727 Reeve James A ◎ 277-5779
4738★Nealson Kenneth H ◎ 560-7403
4739 Licari Anthony C ◎ 278-4486
4751★Jessup Wm C ◎ 279-3260
4752 No Return
4763 No Return
4764 Dickey Myron D ◎ 279-2442
4775 Montgomery Douglas J ◎ 565-8192
4776★Ashcraft James G ◎ 279-7137
4787 Teel Roy C ◎ 277-7609
4788 Kelly O B ◎
4801★Van Gerpen Donald ◎ 565-2658
4802★Fox Elmer W ◎ 277-2744
4815 Ryan John W ◎ 278-6459
4816 Osborn Wm P ◎ 292-1464
4829 Richardson Delroy M ◎ 279-6928
4830 Mercer Leonard K ◎ 278-7259
4843★Barnett Archie R ◎ 277-1819
4844★Ferst Richd W ◎ 278-5456
4857★Schmitt Stuart ◎
4858 Channel Gerald G ◎ 278-0746
4871 Boland Robt F ◎
4872 Salsman Norbet M ◎ 292-0498
4885★Sain Charles H ◎ 279-7827
4886 Jones Bea
MT FORAKER AV INTERSECTS
4901★Roth Kenneth D 277-8776
4902 Brabant Betty E Mrs ◎ 279-9616
4914 Vacant
4915 Cason G Rex ◎ 292-7146
4926 Heck Karl ◎ 278-3720
4927 Skillman Guy R ◎ 278-4795
4939 Auld Harvey F Jr ◎ 292-0717
4940 Miller Geraldine Mrs 292-1792
4951 Barnett Douglas O ◎ 278-4666
4952 Hechanova Antonio J Jr ◎ 277-1685
4963 Wells Clarence W ◎ 277-3402
4964 Schwenn Donald F ◎ 277-1204
4975 Wheeldon Geo N ◎ 277-7530
4976 Hudnall Richd C ◎ 279-6633
5002 Marcoux Gil A ◎ 279-7705
5003 Spear John M ◎ 278-7991
5014★Crawford Willard H ◎
5015 Gillson Gerald G ◎ 277-7794
5026 Lantinga Charles ◎ 277-3616
5027 No Return
5038★Sellers Billy B ◎
5039 Villaluz Ricardo V ◎ 277-2451
5051 Frajman Robt C ◎ 277-6555
5052 Wilson Kenneth ◎
5064 Porlas Conrad A ◎
5071 Wigginton Cyril ◎ 277-0806
5076 Heimbach Ora R ◎ 278-5857
5090 Marx Earl F ◎ 279-7989

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MT HAY DR —FROM 4500 BLK MT HERBERT AV EAST

ZIP CODE 92117
4714★Pritchard Patricia H Mrs ◎ 278-2034
4715 Spring Carol Mrs ◎
4726 Cerveny Geo E ◎ 277-6901
4727 Neal Richd A ◎ 279-6630
4738 Krauss Fredk K ◎ 277-5371
4739 Bennett Jack H ◎ 278-3688
4750★Shields Alan L ◎ 565-7352
4751 Mc Laughlin Gary L ◎ 278-3676
4762 Knott Thos A ◎ 279-5682
4763 Lewis Robt A ◎ 278-4896
4774 Livingston Geo E ◎ 279-6026
4775 Fiegehen Donald L ◎ 278-5483
4786 Chappelle Donald L ◎ 279-3837
4787 Wintch James W 277-7382
4803 Johnstone Saml A III ◎ 279-1431
4804★Griffin Charles L
4819 Freeby Wyman J Jr ◎ 278-7759
4820 Walker Elmer E ◎ 277-3378
4833 No Return
4834 Dohm Dudley D ◎ 278-4429
4849 Moody John K ◎ 277-2912
4850 Di Meo Victor V ◎ 565-1666
4863★Crane Thos G 277-3092
4864 R L & R Masonry Contractors 277-1456
Lunsford Jess C ◎ 279-5175
4877 Greany Edw J ◎ 278-1381
4878★Ensign Ronald W ◎
4889 Bohri Sabah J
4890 Burton Carlos P ◎ 279-1488
MT FORAKER AV INTERSECTS
4903 No Return
4904 Ellis Edmund H ◎ 279-8909
4917 Hoofard Wilber C ◎
4918 Roed Olif J ◎ 278-9626
4931 Bryant James L ◎
4932 Clark Mae M Mrs ◎ 277-0765
4945 Wellens Grace Mrs 277-3744
4946 Christian Wm J ◎ 279-4567
4959 Sanphy Thos M ◎ 277-1668
4960 Pelles Victor T ◎ 278-7859
4973 Vacant
4974 Fayers Philip R ◎ 278-8924
4987 Zink Monte W ◎ 278-7328
4988 Bosley John T ◎
5004 Bingen Russell M ◎ 277-7104
5005 Mc Grew Billy L ◎
5024 Griffin Charles M 278-0351
5025 Ernissee Nancy C Mrs ◎ 277-1466
5044 Dick's Aqua Jet mobile homes washing & waxing 292-4168
Tichenor Richd E ◎ 292-4168
5045 Richeson Kenneth W ◎
5064 Wriedt Harold G ◎ 277-1519
5065 Fong David ◎

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MT HENRY AV —FROM 4500 MT HUBBARD AV NORTH

ZIP CODE 92117
4202 Bianchi Michl ◎ 277-7022
4210★Turnbull Walter J 565-4073
4217 Dale Donald B ◎ 560-1730
4218 Moore Terry D ◎ 277-4428
4225 No Return
4226★Searle Donna Mrs
4233 Tool Darrell T ◎ 278-1632
4234 Hansen Russell H ◎ 278-5596
4241 Hatler Harry G M Jr ◎ 278-1217
4242 Fisher James L
4247 Thomas Jean T Mrs ◎ 565-0503
4250 Bamford Wayne G ◎ 277-8320
4253 Stoner Alice M Mrs ◎
4258 Zigrang Roy J ◎ 279-4740
4259 Gellar Ronny L ◎ 565-4368
4265 Kodadik A ◎
4266 Dilley Eileen C Mrs ◎ 278-7093
4271★Winn D M 560-0294
4274 No Return
4277★Wolf Peter T 560-9970
4283 Garey Walter F ◎ 279-2331
4284 Skoglund Stuart J ◎ 278-1213
4287 Kahl Eric ◎ 278-8979
4295★Bute Larry D
4296 Parker Paul D ◎ 279-2249
MT HENRY WAY INTERSECTS
4302 Brown Roy A ◎ 277-5043
4310★Wilson Milous L ◎ 279-0942
4311 Spurlock Don R ◎ 277-3768
4316 O'Brein Bonnie ◎
4317 Rhodes Steve
4323 Vacant
4324★Miller David L ◎
4329 Reed Paul E ◎ 277-1984
4330 Foose James D ◎
4335★Wantz R ◎ 277-5202
MT HENRY PL ENDS
4341 Peterson Haruko Mrs ◎ 278-1187
4347 Nelsen James B ◎ 278-2110
4352 Kauffman Don D ◎ 279-7879
4353 Sage Lowell J ◎ 278-9064
4358 Vacant
4359 Worthen Eules K ◎ 277-8676
4365★Hoffman Terry L ◎ 565-1693
4366 Oyama Rodney T ◎ 279-1971
4373★Nogata S ◎ 560-6295
4374★Tobin Wm E 560-8160
4379 Dunn Vernon J ◎ 277-2450
4380 Norm's Carpet Service sls & serv 560-0833
Langevin Norman R ◎ 292-4109
4385 Irvine Harry F ◎ 277-4526
4386 No Return
4393 Hoffman Mary R Mrs ◎ 277-9747
MT HIGHPINE PL BEGINS
MT KING DR INTERSECTS

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4401 Parcells Norman M ◎ 279-6522
4402★Zaeckler Frank 279-4632
4406 Smith Wm A ◎
4407 Stafford May F Mrs ◎ 277-2631
4412 Nicholson John E ◎ 279-3983
4413 Booth Frank D ◎ 279-6385
4418★Morgan Kenneth ◎
4419 Hansler Erwin E ◎ 277-2045
4424 Thompson Ray C ◎ 279-3051
4425 Clum Fredk J ◎
4438★Wright H Morton 277-2855
4439 Rader Phillip ◎ 277-3223
4444 Brown Albert L Jr ◎ 278-5546
4445 Gustin Earl M ◎ 279-5269
4450 Kokun Michel ◎ 279-4172
4451 Elliott Bill J ◎ 279-1888
4456 Holmes Daisy M Mrs
4457 Goerres Rainer A ◎ 279-5887
4462 Piranio John ◎ 277-3451
4463 Coleman Michl ◎ 279-4037
4468 Spire Alan G ◎ 278-8310
4469 De Lise Peter L ◎ 277-2272
4474 Cunningham Robt H ◎ 277-1282
4475 Dougherty Fred L ◎
4480 Parrol Jose J ◎
4481 Carnathan Fred H ◎ 278-1055
4486★Pawlak Henry D ◎ 560-1731
4487 Oster Robt L ◎ 277-7627
4492 Jackson Allan R ◎
4493 Todd Jack W ◎ 277-4789
4498 Divers Harry C ◎ 565-7963
4501 Ermeloff Arth ◎
4502 Kelly Helen M Mrs ◎ 278-4302
4509 Zawadzki Steph J ◎ 278-0946
4510 Williams Farrell L ◎
4517★Mc Cabe Charles F ◎
4518 Knight Walter L ◎
4525 Schmiedecke Charles M ◎ 565-0408
4526 Hanke Hans J ◎ 278-6200
4534 Donner John ◎ 279-4679

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

GENESEE AVE 1966

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GAYWOOD ST (PO IMPERIAL BEACH)-FROM CORONADO AV S 1 E OF 15TH (FOR OCCUPANTS SEE SUBURBAN DIRECTORY)

27

GEARING DR -FROM BARNETT AV NORTH

2601 OUTRAM CLOYCE W
2603 RAYNOR JOHN L
2605 STEARRETT THOS W
2607 LEWIS J C
2611 NEWKIRK ROBT H 223-7634
2615 VACANT
2617 SWISTOK WM P
2619 SANDIFER RICHD W 223-8764
2701 VACANT
2703 HORSEY CORNELL W
2705 EMERSON GEO G
2707 LEE HUBERT J
2711 VACANT
2712 SCHUMAKER WM V
2714 STEVENS THOS L 222-4314
2715 GREENE CHARLES T 222-5418
2716 SEYBOLD DELBERT E
2717 DYDASCO FELIX M 222-5413
2701 BURRELL RICHD
2719 JESPERSON WALTER M
2721 COOLEY JOHN D
2722 ESTEVE GERARD J
2723 AQUINO ARTURO R 224-1009
2724 UDAN JAMES C
2725 VACANT
2726 CHISOLM JAMES L 223-1557
2727 HENDERSON WILLIE C
2728 NIFONG MICHL T
2801 CANNAM ROBT M
2802 HOGAN ROBT E 222-1349
2803 BOONE LEONARD
2804 KEAHEY HENRY C
2805 HOOD ROY E
2806 BROOKS CHARLES W
2807 BUTLER REUBEN Z 222-9087
2808 CORWIN FRANK E
2811 HUGHES QUINCY E
2812 ADAIR DALE
2814 MILLER HOWARD 223-0996
2815 PETTERSON EUG O
2816 VACANT
2817 BALL J D
2818 GIBBS EARL C
2819 CHANDLER MARK
2821 GEORGE MARSHALL
2822 LOPEZ JOSE F
2823 VACANT
2824 ARNOLD MARLIN G 222-6562
2825 SISTENA GUALBERTO A 223-8353
2826 BLOMGREN IVAN A
2827 VACANT
2828 VACANT
2832 SCHMIDT WM J
2834 SLACK LUTHER B
2836 CHURCH JOHN
2838 GOLDSMITH WM C 222-7174
2842 NATIVIDAD ROMEO G
2844 BLAS DAVID
2846 VAUGHAN LEROY M
2848 EWY CHARLES B

147

GEDDES DR -FROM HATTERAS AV SOUTHWEST 2 SOUTH OF OAK GLENN LA

3241 SMITH JEROME F ● 273-8176
3247 O'BRIEN GEO P ● 273-6189
3248 LEFEBURE JOE F ● 273-4323
3253 ROSS DONALD E ● 274-4987
3254 SUMNER CLIVE ●
3259 FOGEL AARON ● 273-4549
3260 STEPHENS ROBT ● 273-5361
3265 LAUFER FERRIE C ● 274-5399
SWITZER KATE MRS
3266 KELLER DAN A ● 273-6916
3271 VOORKAMP LEENDERT ● 274-6067
3272 TALLEY NEWTON L ● 273-6097
3279 KERESZTURY FRANCIS ● 273-6312
3282 MC QUADE DONALD ● 273-1035
3285 EATON TED H ●
3291 LINCAVAGE LEONARD J ● 273-6658
3297 BRINGAS SALVADOR ● 273-5483
3301 WIERZBICKI JEROME J ● 273-2387
3311 MC FADDEN ROBT D ● 273-5699
3323 WALTER JOSEPH L ● 273-6422
3337 FOGG FRANK H ● 273-3613
3351 MANCILLAS MANUEL JR 274-3319
3369 MC FADDEN RICHD L ● 273-4206
3381 BENTLEY RICHD C ● 273-7845

246

GEM LAKE AV -FROM LAKE ADLON DR SOUTH 6 WEST OF COWLES MOUNTAIN BLVD

6402 WILSON FRED G ● 465-1973
6414 WILLIAMS RONALD B 460-1866
6438 PAPITTO ALBERT ● 463-4269
6450 UNDER CONSTN
6465 VACANT

69

GENESEE AV -FROM BALBOA AV NORTH & SOUTH

4102 VACANT (4102-4174)
4168 NEVILL STANLEY R ●
4202 BALBOA GENESEE PROFESSIONAL BLDG
ROOMS
302 BALBOA BUSINESS & TAX SERVICE BOOKKEEPING SERV 278-9187
303 MILLER & EVATT LWYRS 278-3200
304 STERLING ADJUSTMENT SERVICE INC COLLN AGCY 277-4511
306 CLUFF JOHN B PHYS 278-1900
306 HOROWITZ MELVIN S PHYS 278-1900
WEISMAN MORTON P PHYS 278-1900
307 VACANT
309 SAN DIEGO COLLECTION SERV COLLN 277-4511
311 WOOLLEY JOHN D CSP 278-2250
312 RUDICK LEVIN & PLATT LWYRS 278-1672
401 AUTOMATED BIOCHEMISTRY CHEMISTRY LABY 278-8140
404 BROWN EICHLER CO INVESTMENT CO 278-6150
406 MASRY DAVID & PRANTE LWYR 278-2100
412 PLANNING RESEARCH CORP COMPUTER PROGRAMMER CONSULTANT 278-3352
4204 BALBOA BARBERS 277-1631
4206 RALPH'S HAIR STYLISTS 278-2621
4210 CABRILLO TELEVISION & APPLAINCE CO SLS & SERV 278-4030
4240 VACANT
4302 BROADBENT JIM SERVICE CENTER GAS STA 277-1800
4303 BALBOA SHELL SERVICE 278-8613
4411 TROLL HOUSE COFFEE SHOP 278-6131
4415 ONE HOUR MARTINIZING CLNRS 278-1050
4417 BENEFICIAL FINANCE CO LOANS 278-4261
4425 ROSE'S BALBOA BEAUTY SALON 277-1251
4427 BALBOA CENTER BARBER SHOP 278-3281
4429 CHICKEN-A-GO NO 10 RESTR 278-5100
4433 GENESSEE SELF SERVICE LAUNDRY 277-9980
4441 SAFEWAY STORES INC GRO
SAFEWAY STORES INC (DIST OFC) GROS 279-0150
SAFEWAY SUPER STORE GENL MERCHANDISE 278-6310

265

---CHICASAW CT INTERSECTS
---GAUK AV INTERSECTS
---BANNOCK AV INTERSECTS
4801 SCHWARTZ IRWIN ●
4802 COMMONS HORACE J ● 273-4788
4811 STOIKE FLORENCE E MRS ●
4812 KRUEGER FRED O ● 273-4598
4821 MALONE SAM ● 273-4231
---MANITOU WAY INTERSECTS
4850 VACANT
4852 LA ROCHE WM H 273-0597
4860 CONDRON RONALD
4862 SKALSKY CLARENCE G 273-1934
4870 MERCIER MAURICE Z 273-4579
4880 MURRAY FLOYD M
4881 MYERS JAMES B 274-1088
4883 VACANT

267

---CLAIREMONT MESA BLVD INTERSECTS
4901 VACANT
4902 SINCLAIR WM G
4904 COTTRELL HARRY M ●
4921 WINDISCH COLE G ●
4930 WHITTEMORE ARTH G ● 274-3861
4931 MC HARDY DONALD D ● 273-1523
4940 MC CRACKIN ROBT H REV ● 274-0968
4941 HILL ELMER O ● 274-1913
4950 SUMMERVILLE THOMPSON E ● 273-2067
4951 PERKINS MARION F ● 274-8054
4960 MOSS FRANK ● 273-1764
4961 HARDEBECK H 273-9834
4970 HEATH HERBERT C ● 273-6383
4971 VACANT
4980 SHIWANOV ERNEST ● 273-3496
4981 TROYER DOUGLAS E
5001 CROW GLENN R ● 273-6305
5002 TAYLOR EUG J ● 273-0624
5011 MASON GEO F ● 273-0297
5012 UMBERGER WM T ● 273-6360
5021 GRAY JOHN D ● 273-0317
5022 ELLIS JOHN P ● 273-4628
5013 BURNS WM F
5032 REDDICK DONALD V 273-6421
5041 DAVEY DONALD E ●
5042 VACANT
5051 WEAVER CHESTER C ● 274-4161
5052 GRIFFITH BILLY ● 273-4491
5062 RIMMER GERALD L ● 273-7017

139

GENESEE ST -FROM WESTMORELAND WEST 1 SOUTH OF CHESTERTON DR

60

GENESTA ST -FROM 4900 DEATON DR NORTH 1 WEST OF DAFTER DR

1921 WISNIEWSKI ANTHONY J ● 264-1887
1930 GORDON CHARLES R ● 262-7440
1931 LANDIN ARVID B ● 262-2208
1940 FINNEY CONRAD G REV 264-5836
1941 VACANT
1951 MIDDAG HAROLD K ● 264-7286

64

GENEVA AV -FROM 1100 ELWOOD EAST 1 NORTH OF HILLTOP DR

5118 WOLF JOE R JR ● 262-8284
5120 VACANT
5121 GUAJARDO ROBT E ● 262-1582
5125 GARZA JOHN ● 263-1194
5140 HATCHETT JOHN
5142 HENRY DE ETTA MRS 264-3038
5144 NO RETURN
5146 VACANT
5148 WRIGHT EMMETT 264-7058
5150 WISE RICHD M 264-8264
5152 HALL JAMES 264-3363
5211 MOORE TOM P 262-6797
5214 ARAGON CANDIDO T ● 262-7636
5221 CLARK WILMER C 262-1230
5226 AMANSEC E A
5231 GILLASPIE CHARLES E ● 262-5764
5234 VACANT
5236 BRADSHAW ONNYE A MRS
5244 VACANT
5301 FLAX TOMMIE L ● 262-0907
5326 VACANT
5341 THOMPSON PRESTON C JR ● 264-5942
5367 WALLIS ELIAS W ● 264-4512
5406 BUTLER GEO L
5413 JONES COOLEDGE 262-6412
5415 VACANT
5416 VACANT
5419 GALVAN BERNARD F ● 262-6140

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

MOUNT CASTLE AVE 1966

MT CASAS DR--CONTD

4950 RUSSELL BEVERLY J MRS ● 278-1188
4961 PARRENT CLAUDE R ● 278-0152
4962 HOOVER BERLYN D
4971 SAGE RICHD S ● 278-9533
4972 SANDERS GILBERT ●
4981 WILSON GORDON REV ● 278-5248
4982 MURNANE LENORD F 277-5706
5001 BROWN ROBT J 277-4475
5002 WILBOURN PIERCE W ● 277-7337
5011 ANDERSON RICHD D ● 277-7333
5012 ALFORD GERALD D ●
5021 ALBRIDGE ART ●
5022 VACANT
5031 EFFIE BERNARD L ● 277-7525
5032 STEVENSON JOHN C JR ● 277-7336
5041 PALMER RUTH MRS ● 277-9831
5042 WILLIS JAMES A ● 277-8007
5051 ROCHE JOSEPH E ● 277-8860
5052 SCHLEIF DEAN E 277-1523
5061 KELLY LEROY J 278-0811
5062 RIDDLE LULA MRS ● 277-7403
5071 ADAMS FRANCIS J 277-6925
5072 SCHAFFER ADAM ● 278-0683

265

MT CASTLE AV -FROM MT EVEREST BLVD NORTH 1 SOUTH OF BALBOA AV

4201 SMITH JAMES R ●
4210 MC STAY ROBT D ● 278-1204
4215 RICHARDSON PAUL B ● 277-7924
4227 HENDERSON LARITA L MRS ● 279-0918
4239 SHADLEY JACQUES J ● 277-7435
4240 WESTBROOK THOS D ● 277-7526
4251 FUJISAKI TETSUO ● 278-2936
4256 DE BOEF ROBT E ● 279-0733
4263 WEST RICHD H ● 277-8863
4303 VACANT
4304 NO RETURN
4313 LEE ROY G ● 277-7408
4314 NOREK JACK ● 277-5917
4319 VACANT
4323 TOOKER GEO T ● 277-7433
4324 VACANT
4334 SPIEKER FERDINAND B ● 277-7418
4343 O'ROURKE CHARLES L ● 277-7405
4344 GAUTIERI JOHN R 277-0681
4353 STELZNER RAYMOND R ● 277-7500
4354 BARBER ROXEY L ● 277-2836
4363 ALEXANDER LUTHER A ● 278-1424
4364 STOCKHAM TERRY L ● 278-1198
4373 SARASON RAY W ● SARASON BARBARA A
4374 MINTZ NANCY J MRS ●
4383 PRICE EUG C JR ● 277-0755
4384 STEVENS FREDK C ● 288-0397
4401 LOGAN JAMES W ● 278-8415
4402 RIEGER HENRY G ● 278-4422
4407 CYR HENRY C ● 277-7436
4408 LAWRENCE RONAL L ● 277-7409
4413 GARCIA BILL ●
4414 BOARD LLOYD ● 277-7413
4419 MEAD JAMES G ● 279-2884
4420 WADLEY JOSEPH D 277-9555
4425 RAMBERG ARNOLD T 277-7603
4426 VENSAND RICHD H ● 277-7410
4431 FAUST ROBT B 279-3353
4432 ARNOLD DAVID C ●
4437 SNYDER JOHN W ● 278-0395
4438 LEWIS RALPH E ● 279-2515
4443 ANKENEY CLEM W ● 277-8316
4444 VACANT
4449 SEAMSTER JAMES 278-2880
4450 TREXEL JOHN E ● 277-7427
4455 MILLER RONALD C ● 277-7764
4456 PETERS CARL F ● 277-7429
4461 BEAUHULD ELBRIDGE ● 277-7789
4462 CLARK DONALD L ● 277-7424
4467 PRINCIPE LOUIS G ● 277-7417
4470 BROWNSBERGER DONALD
4473 RILEY EDNA MRS ● 277-7406
4479 MURTON WILBUR C ● 278-0671

265

MT CERVIN DR -FROM 4800 BOXWOOD AV NORTHEAST 2 NORTH OF CHATEAU DR

4708 BONNER THOS J ● 278-3995
4709 VACANT
4716 BOWES JOE ● 279-2499
4717 HENRICKSON COMBLY H ● 277-7075
4724 ROUILLARD GARETH G ● 278-5214
4725 BUCK CHARLES T ● 277-6044
4732 MEDINA ERNEST R ● 278-3416
4733 ESPINOSA CARLOS ● 278-8807
4740 ROMERO RANAN S 279-3245
4741 CORRIGAN JAMES ● 278-3274
4749 ORTIZ LOUIS ● 277-1036
4750 NO RETURN
4757 WHIPP DOUGLAS P ● 277-2274
4758 VACANT
4765 WEBBER CARLOS A 277-7913
4766 VACANT
4773 CRAWFORD LLOYD B ● 277-7312
4781 RHODES WM M ● 277-2787
4789 NAVASCO MARIANO V ● 277-1798
4797 VACANT

265

MT CRESTI DR -FROM MT ST HELENS DR NORTH 3 WEST OF MT CERVIN DR

4742 SHOEMAKER EDW J ● 279-0076
4745 ROMEO JOSEPH F ● 279-0452
4750 SPEITEL EUG W ● 279-2642
4758 HYMER RAY ●
4759 COVERT LEONARD A ● 278-3874 REYNOLDS LOIS M MRS 278-3874
4766 LEHTO DONALD D ● 277-7438
4767 VACANT
4774 MC.CARTER WM S ● 279-2639
4775 KUCYNSKI EDW H ● 279-3447
4782 VACANT
4785 VACANT
4792 DANES DONALD A ● 279-0991

265

MT CULEBRA AV -FROM MT DAVIS AV SOUTH 1 WEST OF MT EVEREST BLVD

4260 DIAZ JACK H ● 278-4074
4265 BERRY JOHN W ● 278-1705
4268 LACUYER ROMEO ●
4273 SIDERIS SPYRIDON N 277-1894
4276 VACANT
4284 BLACKINGTON KENNETH J ● 277-6664
4289 BIGADZA GERGORY R ● 278-5443

69

---BALBOA INTERSECTS

69

MT CULEBRA CT -FROM BALBOA AV SOUTH 1 NORTHWEST OF MT BAGOT AV

265

MT DAVIS AV -FROM ETNA DR SOUTH

4201 BUBEN GEO ● 278-8321
4202 CRIHFIELD RAYMOND L 278-4635
4214 MASON JAMES S ● 278-3540
4215 PALMER N L 277-0772
4227 MULLIGAN THOS F ● 278-5792
4230 GALLAGHER JAMES V ● 278-5623
4241 CARRUTHER DAVID G 277-4598
4255 HASKELL JOHN N JR ● 278-2183
4267 MILLS JOSEPH M ● 278-3671
4270 SPENCER DEAN G ● 278-7626
4271 NO RETURN
4285 WAGNER ROBT C 277-0850
4286 VACANT
4302 BARBER MANNING H ● 278-6388
4307 MAGNUSON DONALD P 278-0749
4308 NO RETURN
4313 CAMPBELL ERVIN O ● 278-3187
4314 LITZNER RICHD ● 278-3286
4319 LOWE GLORIA MRS ●
4320 LAYS HAROLD W ● 278-3183
4325 CARROLL ROBT D ● 279-0181
4326 SMITH SIDNEY 279-3066
4331 DIEHL ROBT W J
4332 SHERMAN RAY W ● 278-3182
4337 TENNESON DONALD A 278-1414
4338 TEVIS EDWIN E ● 278-3401
4341 TOMAIKO KAREN MRS
4344 CARROLL ROBT E 278-3181
4345 DANNER FRED E JR
4348 HENSEL DONALD E ● 278-3673
4349 SMITH MARVIN D ● 477-8850
4355 MURPHY HENRY A
4361 RODRIGUEZ RAYMOND ● 279-3769
4371 SCOTT MAJOR ●
4381 KEHEW GEO M ● 278-4175
4391 BENSTEAD ROY ●

265

MT DURBAN DR -FROM DEAD END 2 WEST OF MT EVEREST DR NORTH

4704 JANOWITZ SAM ●
4714 JOHNSON EDW M ● 278-2291
4724 VACANT
4725 RUSKIN ARNOLD P ● 277-9828
4734 WALL CLYDE F ● 278-2196
4744 ASHLEY MARK L ● 278-2384
4745 ROSE LARRY F ● 277-8105
4754 INGRAHAM LANDON S ● 278-1562
4755 MC LEESE J KENNETH ● 278-2032
4764 MERSEREAU ISABELLA M 277-2880
4765 FASSETT HAROLD S JR 278-7846
4774 VACANT
4775 FELSENTHAL NORMAN A ● 278-1532
4784 HUNTER ROBT A ● 278-9318
4785 TAYLOR NORMAN L ●
4804 JOHNSON CHARLES F ● 278-1043
4805 BOOP FOSTER C ● 279-0906
4814 HILBERT WM H ● 278-1285
4815 TARKINGTON DEWEY H ● 278-2397
4824 HOOVER CHARLES L ● 278-2288
4825 MORIARTY JOSEPH E ● 279-0907
4834 RYMER HARRY A ● 278-1573
4835 MATSON ROSE M MRS
4844 VACANT
4845 BRYANT OLEN E 277-7547
4854 RILEY EDW G ●
4855 ROGERS HENRY A ● 278-2354
4864 CERVENKA ALAN J ● 278-1910
4865 LINN DAVID O ● 278-0071
4875 TEMPLETON FELIX E ● 279-2694
4876 TRAVER DEAN ●
4885 KLADOURAS SPIRO K ● 278-2540
4888 NEWMAN BRUCE F ● 279-1682
4903 BRISTOW WM A ● 277-7317
4904 LUCKEY CHARLES O ● 278-2089
4923 BORING JAMES H 279-1159
4924 MOORE DON
4943 KOTT BRUCE E ● 278-2371
4944 AGOSTA JOSEPH P ● 278-5346
4963 HOLT ROY C 278-0357
4964 CARR EDWIN J ● 277-7329
4973 HUSTON WM A 278-6784
4974 DANIEL CHARLES J ● 277-2636
4983 WHITEHILL PAUL H ● 278-5208
4984 FLORES OSCAR ● 278-5340
5003 DANIELS CHARLES H ● 279-3384
5004 MERRIAM MARSHALL F ● 278-7882
5013 NICKLES ROBT E 277-7470
5014 INGRAHAM ARTH 278-2570
5023 SWITZER RALPH G ● 277-7158
5033 TUTTLE GLENN M ● 277-7837 LAKEN MARY MRS
5034 SHILTS EVERETT L ● 278-9047
5043 CIARDI LOUIS F ● 277-7572
5044 FREE JOE E ● 277-7328
5053 NELSON WALTER A
5054 SCHUSTER DEL A ● 278-7534
5063 JONES KENNETH E ● 277-7327
5064 HARPER ALF D ● 277-7325
5073 NICHOLS ROY A 278-6469 NICHOLS ROY D
5074 WILLIAMS WM L ● 278-0267

265

MT ELBRUS CT -FROM MT ELBRUS DR SOUTH

4307 CZARNECKI JOHN ● 278-1574
4315 ELDRIDGE ALBERT L ● 278-3943
4325 DORIAN MARK F ● 278-3942
4337 CAIN FRED ● 277-8081
4338 ROMINE ONUS M ● 277-8762
4345 LEMASTERS MAX ● 278-4893
4346 MEYERS ROBT H ● 277-6867
4353 NORDREHAUG JOHN ● 287-8771
4354 EMMETT JOSEPH E JR MUSICIAN ● 278-2444

265

MT ELBRUS DR -FROM MT DAVIS WEST

4802 BELL ELSIE D MRS ● 279-1595

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

MOUNT ETNA DR 1966

MT ELBRUS DR--CONTD

4807 BELL L BARCLAY ● 277-1722
4810 VACANT
4817 LAUGHEAD JOANNE MRS ● 279-2619
4818 VACANT
4825 MORGAN SHERMAN M ● 276-0503
4826 JENNINGS NANCY E MRS ● 278-4360
4833 SNYDER FRANK J ● 277-3034
4834 RAWLINGS JOHN G ● 278-7695
4843 LEE ALBERT ●
4844 PHILLIP'S ELECTRIC CONTRS 278-1062
PHILLIPS WM L ● 278-1062
---MT FOSTER AV INTERSECTS
4853 ODELL HARVEY G ● 278-3876
4854 DAY JAMES W ● 278-0885
4864 POTTER PAUL F 278-0784
4874 HARE JAMES W ● 277-1602
4884 MOREAU JOSEPH W 277-4741
4885 BLACKBURN GERARD S ● 277-8827
4894 WILLIAMS DONALD R ● 278-0815
---MT ELBRUS CT INTERSECTS
4901 ROBINSON BAYARD T ●
4911 GLOVER ROBT B JR ●
4912 BARNES RICHD J ● 276-7967
4920 VACANT
4921 COOPER ALLEN G ● 277-9725
4928 GIBALDI WATHENA MRS
4931 KEENAM HARRY S ● 279-3586
4936 CLARKE ARTH E ● 277-8475
4941 COLLINGWOOD RAYMOND M 278-4729
4944 OLIVER JACK R ● 277-1515
4951 CHRISTIANSEN ARNOLD M ● 277-8807
4952 FROST PHILIP S ● 278-2649
4962 COWING WM C ● 279-2528
---MT FORAKER AV INTERSECTS
4971 GARDNER ROBT
4972 FARRELL JOHN H ● 278-0876
4981 CASH EUG J ● 278-8517
4982 RAGAN GILBERT G ● 278-0877
4991 PEVEHOUSE JAY D ● 279-0996
4992 LEONARD ROGER J ● 279-0095

265

MT ETNA DR -FROM MT CASTLE AV NORTHWEST

4618 ELLIS DAVID L 278-3027
4630 MC CARTNEY FABER W 277-6046
4644 STEIN CARL J
4658 FIFE SAMMY W ● 277-2938
4670 DAVIS LEON V ● 277-5868
4684 ROSSETTI JACK M ●
4702 REINHARDT JOHN L ● 277-5345
4714 WARING CHARLES W
4728 SHARPE TERRY C 278-6955
4740 SMITH SIDNEY E ● 279-2689
4752 VACANT
4764 OWENS HOSEA 279-1894
4776 NO RETURN
4788 ROLLA EDNA V MRS ● 278-4473
---MT EVEREST BLVD INTERSECTS
4802 DRALLE CAROLE MRS 278-4713
4812 VACANT
4822 WELLER W PATK ● 277-8568
4831 HINMAN KENNETH R ● 277-8744
4832 NICHOLS REGINALD J ●
4841 FREEBERN CHARLES L ● 278-3013
4842 REEL LELAND S ● 278-6948
---MT DAVIS AV INTERSECTS
4851 COLTON DOROTHY M MRS ● 278-5481
4852 WOODS FRANK ●
4861 MILLER JACK ●
4862 HOYT EDWIN P ● 277-8603
---MT FOSTER AV INTERSECTS
4901 BURGESS DONALD E ● 277-5247
4902 WRIGHT WM O ● 278-0262
4911 KORSKI FAITH MRS ●
4912 BRANCH KENNETH ● 278-9554
4921 BIRSE ALAN M ● 277-8606
4922 WASHBURN DONALD L ● 277-7677
4931 LOWE GERALD W 278-0280
4932 DICKMAN JERRY A 279-0487
4941 EDMONSON CHARLES A JR ●
4942 MEREDITH JOHN 278-9359
---MT FORAKER AV INTERSECTS
4951 INGERSOLL GEO W ● 278-0183
4952 ROMERO OSCAR R ● 277-2483
4961 MC LAUGHLIN CLARENCE L ● 278-0422
4962 RAYSPIS HUGO C ● 278-3371
4971 MICKELSON SANFORD G ● 277-0131
4972 KOVARICK FRANK ●
4981 STOLL EDGAR C ●
4982 COURTNEY BERNARD C JR ● 278-2646
4991 TOMAIKO STEVE J ● 278-0421
4992 HANSON WARREN 278-5520

5002 NO RETUIN
QUORTRUP ERLING 277-9023
5012 REDWOOD WM G ● 278-0411
5022 BROWN ROBT G MUSICIAN 278-6119
5032 SMITH JOE ● 278-8335
5042 MORGAN ERNEST L ● 277-8063
5052 WILLIAMS JOHN A 278-6453
5062 PRENDERGAST RICHD J 278-0308
5072 SALY DAVID H 277-1068
5255 CLAIREMONT GENERAL HOSPITAL 278-8100

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MT EVEREST BLVD -FROM DEAD END SOUTH OF MT BLANCA DR NORTH

3402 BERTELSEN THOS A ● 278-2272
3406 ENGEBRETSEN EUG ● 277-7679
3412 KELLY WM E ● 278-0862
3422 BLANCK JAMES A ● 278-2473
3425 LEE LENARD L ● 277-7269
3426 WILDMAN RICHD
3432 SUYCOTT DONALD ●
3433 MILTON BILLY 278-0512
3436 WEAVER MARY A MRS ● 278-9988
3439 DE CORSE HENRY A ● 278-5957
3442 WILSON VIVIAN R MRS 277-8414
3445 GILMORE GARY
3446 BINKHUYSEN ERNST ● 278-5486
3452 SKELLY DOMENIC ● 277-5173
3453 ENGLAND LENNIS ● 278-0356
3456 ASHBY DENNIS A ● 278-4673
3461 NORTH GEO W JR 278-0173
3462 FALKENTHAL HARRY R ● 277-2095
3465 HARRINGTON DAVID ● 278-5594
3466 LIEBELT CHARLES G 279-3297
3471 COATES ALAN S 278-2619
3472 DOBSON JOHN P ● 277-8404
3475 BOURGEOIS CLIFFORD ● 278-9008
3476 HOY ALLEN L ● 278-4196
3481 COLLIER M WAYNE ● 279-1247
3482 WETTIG FRED ● 278-6340
3485 TORRANCE WM L ● 278-0556
3486 JAMES GLENN R ● 277-6195
3491 BRAUN ROMAN A ● 278-6078
3492 COSTA ROBT P ● 277-8261
3495 DOXSTADER ROY E ● 278-8391
3496 JENKINS WALTER ● 279-0424
3504 VELASQUEZ THEO I ● 278-6989
3510 REED GARY D ● 277-2946
3513 RYLE DOAN ●
3516 SOLOMONSEN PETER O ● 277-5548
3519 TAYLOR WM R ● 279-0423
3522 PATTERSON JAMES ● 277-9747
3525 RASMUSSEN DONALD ● 278-6789
3528 CLEMONS DONALD E ● 277-3963
3531 RODGERS RALPH E ●
3534 VACANT
3537 REYNOLDS WALDON K ●
3543 FIELDS VERNON A ● 278-0634
3546 FITZMORRIS BOB H ● 277-9063
3549 PIERSON FRANK D ● 278-6296
3552 OLDHAM JAMES K ● 278-6884
3555 CRANE CRIM D ● 278-3531
3558 BERNHARD C E ● 277-5412
3561 SPENCER IRA J ● 277-0286
3564 DUCLO JACK F ● 278-3126
3567 HUNT WM C JR ● 277-3141
3570 KENNINGTON JOHN D 278-8817
3573 SHORT FRED M MRS ● 277-4602
3576 HAAS RAY A ● 277-5148
3579 PARHAM HAL C JR ● 278-7415
3584 DRESCHER JAY T ● 277-4198
3587 MONSTRONEN LARRY J ●
---MT BLACKBURN AV INTERSECTS
3601 CHRISTIAN JAMES A ● 278-9078
3609 JURUS LOUIS J III ● 277-7302
3617 BONN ROBT S ● 278-9379
3625 RUBY ROBT E ● 278-6981
3633 BARBER MANNING ● 278-4405
3640 DIAS DONALD P ● 279-2553
3645 FRY ARMOND A ● 278-9586
3657 SODERQUIST WM E ● 278-9096
3681 HASTINGS FRANK C ● 277-6208
3689 CATALINO JOSEPH ● 278-3329
3697 NO RETURN
3701 COLE CLAVERT G ● 278-8560
3709 EVANS MARTIN S ● 278-4983
3710 CONWAY GEO A ● 278-6831
3717 TARTRE DONALD V ● 278-2355
3718 VACANT
3725 RASMUSSEN HOWARD ● 277-6970
3726 LAMPKINS GERALD W ● 278-5608
3735 TAYLOR WM P ● 278-3245
3736 ANDING LEONARD O ● 279-1643
3745 WHITE ERWIN J ● 277-9630
3746 PATTERSON DUNCAN W ● 278-6247
3755 NORGARD GEO 277-8285
3756 BLAIR R GENE ●
3765 WHITELEY ROSS R ● 278-4986
3766 WALERY KEN F ● 277-7876
3775 KNOLL RAYMOND A ● 277-2327

3776 LOMAC JOHN M ● 277-1433
3785 FLEMINGER ABRAHAM ● 278-5647
3786 CATER MICHL C ● 278-5961
3795 FOSTER JACK E ● 278-3106
3796 SHARPE KENNETH A ● 278-2350
3801 ELIAS JUSTIN J ● 277-3350
3813 NO RETURN
3814 HARPIN NORMAN A ● 278-5066
3825 MC LEOD KARL
3826 TURMAN EARL S ● 277-9562
3838 MALOWNEY HENRY R ● 278-0913
3839 LOWENSTEIN CARL
3850 WOMACK DONALD
3855 WOODWARD BILLYE C ● 278-2709
3862 SMITH GEORGEA F MRS 279-3348
3867 WAHL EDW R ● 278-5478
3874 BANCROFT GLENN W ● 277-4004
3883 DANIELS JOHN K ● 277-7481
3886 STUCKEY ROBT J ● 279-3542
---BALBOA AV INTERSECTS
3906 ZEISS ELLIOT R ● 277-8194
3907 SARVIS ROBT W ● 278-8958
3920 FERGUSON EVERETT C ●
3921 RILEY WM E 278-1796
3934 BARNETT GENE A ● 277-7287
3935 STECKER LINWOOD M ● 278-3403
3948 POWELL ROBT W ●
3949 FRASE MARY A MRS ● 277-8324
3955 LUX FORDYCE G JR ● 278-4368
3956 LOGSDON PAUL ● 278-5830
3961 VACANT
3964 KOCH ARNOLD C ● 278-4799
3967 DOUGLAS IVAN H ● 278-4764
3972 VOIGHT WILSON ● 277-8399
3973 VACANT
3979 COOPER L ELINOR MRS ● 278-0134
3987 DILKEY STANLEY 278-5530
3980 NEWCOMB CHARLES ● 278-8646
3988 ROTHSTEIN OSCAR D ● 278-0407
3995 ANDERSON JAMES A ● 278-3014
3996 STUCKEY DONALD J 277-1637
---MT CASA DR INTERSECTS
4001 COLBORNE WAYNE K ● 278-9273
4002 HASTINGS ELMER C ● 278-0798
4009 LAKIN JAMES A ● 278-0515
4010 STEPANIK LAWRENCE G ● 278-9367
4017 JONES WM ● 278-2797
4018 WEST HOWARD E ● 278-0468
4025 HEINECKE HAROLD R ● 277-7992
4026 HAGEMAN WALTER F ● 278-0107
4033 MALLOY STEVE ●
4034 COOK HANDLEY ●
4041 COPELAND THELMA MRS ● 278-2041
4042 GRAHAM CHARLES W 279-2438
4047 BRANDT JACK R ● 278-0170
4048 GUENGERICH ARTH H ● 278-0474
4053 ADAMS DELNO W ● 279-3465
4054 MC VAY FRANCIS E ● 278-0458
4059 ASHTON ANTHONY M 278-7388
4060 ANGEL ANGELO J ● 279-1527
4065 ROACH TED J ● 279-2918
4066 WINNARD SYDNEY 278-3482
4071 KRAJEWSKI JOSEPH S 278-4420
4072 COOK ARTH J JR ● 277-0763
4077 WALSH MARTIN G ● 278-0145
4078 GRESKO LAWRENCE S ● 278-2465
4083 MENCHES LE ROY G JR ● 278-0488
4084 GEISLER RICHD ●
4089 CHAN EMILIO
4090 STEWART CLIFFORD L ● 278-0158
4095 KASSIS THERO W ● 278-0465
4096 AVERY GABRIEL L
4101 MENDENHALL RICHD A ● 277-2420
4102 BALFOUR CLAIRE H 278-0428
4111 CORE ROBT C
4112 LOFTIN JESS E ● 278-0446
4121 SCHIELL MARILLA B MRS 278-5013
4122 HUMPHREY JAMES E ● 277-8009
4131 HARKNESS JAMES L ● 277-8995
4132 PAFFORD BILLY E 277-0490
4141 BURKE EDW F ● 278-5590
4142 MAC DONALD CLARE E ●
4151 O'NEIL WM C 278-8422
4152 FLORENCE RONALD T ● 279-3278
4161 HOLLAND DANL E ● 277-1332
4164 MERRITT CLIFFORD M ● 278-2953
4171 ABRAMS BRAEDON J ● 278-0184
4176 ARENA JOHN E ● 278-0218
4181 TERRY KELLAND D 278-7057
4190 MORRIS KENT D 277-5369
4191 KOCH FRED 278-0180

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---BALBOA AV INTERSECTS
4241 DEHN LAWRENCE F
4261 HUBBARD MILTON J ● 277-8747
4301 GONZALES BERTHA C MRS ●
4311 POLLARD JAMES O ● 277-7137
4321 PICCOLO FRANKLIN L ● 279-3381
4331 BURTON RICHD A ● 277-7322

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

MOUNT EVEREST BLVD 1966

MT EVEREST BLVD--CONTD

4341 SMITH NORMAN 279-1675
4350 WIGGIN KATE DOUGLAS SCHOOL 277-9091
4351 BOZZO VINCENT J ●
4361 LORENZ HENRY J JR ● 278-0438
4371 DOYLE THOS A ● 277-2249
4381 BRANDT HANS E JR ● 279-3558
4401 CARIOLA ROY E ● 277-6415
4409 PENA JULIAN A ●
4417 EATON GEO W ● 277-7504
4425 HOYLE FRANK E JR ● 277-7323
4433 SMITH KENNETH ● 279-3479
4441 SHEPARD RALPH J ● 277-4209
4449 IRION JOHN W JR 277-1687
4453 WOEHL PAUL J 277-5729
4461 MATTENKLODT HANS ● 277-3403
4467 MC KINNEY WM B ● 278-2242
4473 HAGERTY GENE P 278-9300
4476 VACANT
4481 MOSCATO JAMES D 278-3099
4489 FRANKLIN RICHD N ● 277-8309
4490 HAWKINS VICTOR A

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MT FORAKER AV -FROM MT FRISSELL DR NORTHEAST 1 WEST OF MT EVEREST BLVD

4551 HERTIG WM S ● 278-0725
4561 TRIPP DONALD L ● 277-0278
4571 STEWMON CLARENCE E 277-2035
4581 BROWN JAMES L ● 277-0942

265

MT FORDE AV -FROM MT HERBERT AV SOUTH 1 EAST OF MT HUBBARD AV

4602 MC CRARY GARY W ● 278-2368
4609 DONNELL ED ●
4611 MOORE NATHAN J ● 278-1283
4621 BOOK MAC ● 278-1946
4631 MARTIN MARVIN R ● 278-2317
4641 HILL CHARLES A JR ● 277-3630

265

MT FOSTER AV -FROM MT ELBRUS SOUTHWEST 2 WEST OF MT EVEREST BLVD

4251 GERTZ ROBT M 278-5760
4252 CAMPBELL MELVIN R ● 278-5037
4261 WEBB DAVID E ● 277-7601
4262 MILDICE JAMES W ● 278-2825
4274 THOMAS JOHN E ●
4286 RELYEA RICHD E ● 278-2823
4302 LA VAUT THOS O ● 278-2693
4308 BLACK CARL
4309 SLOCUM STANLEY ● 278-7866
4314 LEWIS WILFRED I ● 278-2822
4315 HACHTEN RAYMOND C ● 278-2121
4320 JONES JOSEPH F 278-1528
4321 ALEXANDER ROBT L ● 278-2446
4326 HOHNHAUS GEO W ● 278-2448
4327 REID RICHD R ● 278-2820
4332 SMITH MARCUS E ● 278-2449
4333 MC KAY BRUCE B ● 278-0737
4338 BROWN CHARLES R ● 278-3477
4339 HAYDEN JACK
4344 YBARRA RICHD S ● 278-3889
4345 BRINKERHOFF MILDRED MRS 278-0533
4350 PALMER ELMORE C ● 278-5519
4351 CALLAHAN CLIFFORD R ● 278-7445
4356 TORBETT WM H ● 277-2799
4357 STIYANOW NORMAN F MRS
4362 KAHN DAVID C ● 278-9688
4363 BROWN REX

265

MT FRISSELL DR -FROM MT GAYWAS DR EAST 1 NORTH OF MT LINDSEY PL

4501 ROSS EUG F ● 277-6531
4509 BAKER DONALD A 278-4358
4517 BROWN CARL R ● 277-1942
4524 REYNOLDS DUANE ●
4525 SHARPE J WM 278-7790
4542 GOODRUM GERALD W ● 278-3400
4661 ZIEHL WM A ● 278-5947
4664 MC GEE WALTER L ● 277-0414
4671 NESS HUGH W ● 277-6251
4678 PINCE JOSEPH R ● 277-7937
4681 SANDERS NORBERT L ● 277-6250
4689 STEELE SIDNEY ● 277-4385
4690 MILLER GEO A 279-3654
4697 SCARPA BARTHOLOMEW P ● 277-2656
4701 ARREGUIN F R ● 277-3157
4702 ESPINOZA JOSEPH ●
4714 GITHENS WM H ● 278-2948
4715 COUSINS HARRY R ● 279-2537
4726 CHRISTIAN JACK L ● 277-0467
4727 DICKINSON BILL C ● 277-5434
4738 THRELKELD DALE ● 277-5676
4739 MEADOWS BILLIE R ● 279-1459
4750 MOSS MERLE R ● 277-5450
4751 MEYERS L J ● 279-1427
4762 ROLECKI ALEX A ●
4763 BALL NED R ● 278-5196
4774 HONEA RALPH ●
4775 PARKER ROBT C ● 277-6314
4786 WINTER JOSEPH E ●
4787 SOLAND LESLIE L ● 278-9757
4825 HERNEY GREGORY S ● 278-9889
4826 CLARK RICHD ● 278-3906
4835 HERNEY FRANCIS A ● 277-8959
4836 KOENIG DONALD F REV ● 277-6876
4845 DOLPHIN GEO ● 277-7511
4846 POST EDWIN C ● 279-2118
4855 WOLSKE GORDON H ● 277-0961
4856 NORTHUP ROBT L ● 278-0188
4865 DENSON EUG G ● 277-2091
4866 BISHOP JAMES M ● 277-7610
4875 OLIMB CARL A ● 278-5117
4876 DURHAM BRYAN C PHYSICAL THERAPIST 278-1330
4885 HABERLAND THEO E 277-1024
4886 HENSLER LAWRENCE R ● 277-6879
4901 HOTKA GEO W 279-0917
4902 CHAPMAN JAMES D ● 277-7509
4911 SHIRAISHI TORU ● 277-7508
4912 HOOVER BETTY R MRS ● 278-1859
4921 BARMORE THOS J 278-5352
4922 MUELLER EDW C ● 277-7506
4931 MUMFORD J LE ROY ● 277-0836
4932 RICKETTS DENNIS I ●
4941 YAUNEY RICHD L 279-3033
4942 MANN E FLOYD ● 278-0643
4951 HANGER WILBUR L ●
4952 PAUL DENNIS D
4961 COTT WM M
4962 PIPPIN MURIEL G MRS 277-4971
4971 HARRIS CHARLES R ● 277-0774
4972 WINCHESTER WM A ● 277-2533
4981 GRIFFIN CHARLES M ● 278-0351
4982 KING JOYCE D MRS ● 277-0753
5001 PEDERSEN BRUCE H ● 278-6631
5002 SULLIVAN DENNIS T ● 277-3915
5011 STAR JOHN ● 279-2326
5012 MAKOSKE S MARIE MRS ●
5023 DUFF DEAN S ● 278-9097
5024 ALLARD LA VERNE MRS ● 277-9863
5035 DAVIDSON GEO M ● 277-7593
5036 TEAGUE ROY W ● 277-7071
5045 VACANT
5048 DAVID LUTHER W ● 278-0427
5055 JENSEN FREDK H ● 277-7527
5060 BARRETT JAMES L ● 277-8780
5063 GREENLEE EDGAR M ● 277-1912

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MT GAYWAS DR -FROM MT FRISSELL DR EAST THEN SOUTHEAST 1 NORTH OF MT LINDSEY PL

4502 SIMMONS WM E
4511 THEBUS FERD I ● 277-6899
4512 VACANT
4522 STOUT JAMES L ●
4523 PADDOCK MINNIE I ● 277-8363
4532 HANNA NORMA MRS ● 277-5942
4535 JACOBSON MERRILL S ● 278-3513
4542 ROGERS JOHN A 278-4579
4552 FELBER RICHD A 278-2998
4562 SAINT PETER CLAYTON 278-3974
4602 ROTHBERG RICHD M 277-2468
4605 WHEELER JAMES 277-6912
4612 HENSLE HAROLD R 278-0544
4615 KENNY FRANCIS W ● 277-2947
4622 FOX ROBT T JR 277-7295
4625 ARTHUR HARRY L 277-5831
4632 ZELLER ROGER J ● 278-3019
4635 KHAMBATA NOSHIR K ● 277-9381
4642 LENTZ CHARLES M 277-5284
4645 PURRIER LEE S ● 277-4354
4652 AUILER IRVING M ● 277-1428
4655 VALLEE EDNA L MRS ● 277-3899
4662 LEWIS ALVIN L ●
4672 WILSON ROY E ● 278-0460
4675 SMITH HENRY A ● 277-0355
4709 STRUHAR AUG K ● 277-4797
4712 POWELL RUE E ● 277-5858
4717 LEY CARL F ● 277-5069
4722 HENDRICKS EDW C ● 277-5661
4725 VACANT
4731 HURRELL WALTER G ● 278-6863
4732 GOLDSMITH SAML A ● 277-4711
4741 JORDAN NATHAN T ● 277-5251
4742 QUINLAN JAMES B 278-3818
4751 BALES GARY W ● 279-3128
4752 THOMAS ROBT G 277-0429
4761 BELZER ROBT K ● 278-1046
4762 POLLARD BILL G ● 277-5013
4771 MANSON ROGER A ● 277-4977
4772 BAKER CHARLES T 277-1781
4781 RHODES JACK D ● 277-5051
4782 ROBINSON FOSTER A ● 278-7363
4791 HYDE WM O
4792 NO RETURN
4801 CRAWFORD JOSEPH J ● 278-2344
4802 STARGELL GUY L ● 277-0169
4817 WEED ROBT C ● 277-5930
4818 HINSON A ALEXANDER 278-2057
4831 RHODES WM A ●
4832 MOORE JOHN C ● 279-2041
4847 MILLIKAN DONALD H REV ● 278-4615
4848 ROSE HERBERT W ● 277-3547
4861 TATUM VIRGIL ● 277-9439
4862 WILLIAMS DONALD R ● 278-9181
4875 WOLEVER WM L ● 277-1803
4876 HOUSGARD ROBT L ● 277-0695
4887 ASTOR PETER P ● 277-1336
4888 CLARK DOROTHY J MRS ● 277-1783
4901 REYNOLDS DEAN W ● 277-2048
4902 ANDERSON CHARLES H JR ● 277-6920
4915 VEDOVA JAMES C 277-8592
4916 MODGLIN LLOYD B ● 277-2252
4929 WILLIAMS HAROLD L 277-8222
4930 EVANS THOS B ● 279-3541
4943 DAVIS PAUL A ● 277-5340
4944 ZOMBEK WALTER S ● 277-1554
4957 SANFORD D BRUCE ● 277-2743
4958 KREINKAMP D W ● 277-9848
4971 WILLIAMSON ROLLA
4972 COURINGTON THOS C ● 277-6532
4985 ANDERSON LOUIS 278-0402
4986 WAGONER WM E ● 277-7242
5001 HOWLAND JOHN A ● 278-7698
5002 STAGER JAMES F 279-2160
5017 MUNSON S RAY 279-1042
5018 QUESENBERRY EDW G
5033 LUTHER GLENDON C ● 278-2638
5034 NUNLEY WESLEY O ● 278-4347
5049 SHAPIRO SANFORD 278-8269
5050 HOSKINS FRANK 278-6448
5061 VACANT
5062 SPENCER WALTER R ● 277-0120
5073 BOCK MIRIAM S JR ● 277-8298
5086 MC CAFFERTY JOSEPH E ● 277-7832
5087 ORAM SYDNEY F ● 277-6512

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MT HARRIS DR -FROM MT HERBERT AV EAST 1 NORTH OF MT GAYWAS DR

4701 STEIB THOS J ● 278-0216
4702 LAWS FRED R 277-9830
4714 PLANTZ ELSIE R MRS ● 278-3648
4715 HAWKINS TERRY P ● 278-7987
4726 HARRISON JAMES B 277-2757
4727 BOSSARD JAMES E ●
4738 HUNDLEY TOM ● 279-1149
4739 LICARI ANTHONY C ● 278-4486
4751 JOLLIFF W HARVEY ● 278-3462
4752 TORP ERIC V ● 277-2992
4763 BUFFINGTON ALBERT P ● 278-7581
4764 DICKEY MYRON D ● 279-2442
4775 FITZGERALD DONALD E ● 279-0568
4787 TEEL ROY C ● 277-7609
4788 KELLY O B ● 277-4660
4801 WALKER DON L ● 278-4389
4802 MERGENS RICHD V ● 278-9501
4815 SCHWARTZ SEYMOUR 277-6649
4829 SMITH JAMES P
4830 PAXTON RICHD W ● 277-7737
4843 OLSON CARROLL 277-0127
4844 DUNCAN ROGER L JR ●

NW 1. 80, ALPINE 443-4WW

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MOUNT ETNA DR 1961

MT CASTEL AV—Contd
4426 Vensand Richd H ◎ BR7-7410
4431 Gough Melvin N ◎ BR8-5062
4432 Brantz Emanuel E ◎ BR7-2044
4437 Snyder John W ◎ BR8-0395
4438 Cameron Allan E ◎ BR7-6228
4443 Ankeney Clem W ◎ BR7-8316
4444 Herz Eric ◎ BR7-7421
4449 Steel Robt B ◎ BR7-7437
4450 Trexel John E ◎
4455 Miller Ronald C ◎ BR7-7764
4456 Peters Carl F ◎ BR7-7429
4461 Beauhuld Elbridge ◎ BR7-7789
4462 Clark Donald L ◎ BR7-7424
4467 Principe Louis G ◎ BR7-7417
4470 McKillip Keith W ◎ BR7-7425
4473 Riley John H ◎ BR7-7406
4479 Murton Wilbur C ◎ BR8-0671

69
MT CULEBRA COURT—From Balboa av south, 1 northwest of Mt Bagot av

265
MT DAVIS AV—From Etna dr south
4337 Vinson Maurice D BR7-3650
4341 Rogers Theo B BR7-0666
4348 Hensel Donald E
4361 Jackson Roy S ◎ BR7-8746
4371 Roddis Richd S L ◎
4381 Vacant
4391 Vacant

265
MT DURBAN DRIVE—From dead end, 2 west of Mt Everest dr north
4725 Levy Lee I ◎ BR8-1650
4774 Motto John BR8-2859
4903 Merkin Donald ◎ BR8-2450
4904 Luckey Chas O ◎ BR8-2089
4923 Leisy Chas R BR8-2548
4924 Vacant
4943 Kott Bruce E ◎ BR8-2371
4944 Vacant
4963 Holt Chas ◎ BR8-0357
4964 Carr Edwin J ◎ BR7-7329
4973 Strubb Allen F ◎ BR7-7222
4974 Daniel Chas J ◎ BR7-2636
4983 Whitehill Paul H ◎ BR8-5208
4984 Patterson Donald E ◎ BR8-0127
5003 Daniels Chas H ◎ BR7-7478
5004 Evans Donald C ◎ BR7-7332
5013 Allan Lewis E ◎ BR7-7690
5014 Greene Wallace Rev BR7-3358
5023 Switzer Ralph G ◎ BR7-7158
5024 Heiberg Jas E ◎ BR7-6982
5033 Tuttle Glenn M ◎ BR7-7837
5034 Bell Dalton A ◎ BR7-7054
5043 Ciardi Louis F ◎ BR7-7572
5044 Free Joe E ◎ BR7-7328
5053 Wilson Robt D ◎ BR7-5633
5054 Pietsch Harold E ◎ BR7-5350
5063 Jones Kenneth E ◎ BR7-7327
5064 Harper Alf D ◎ BR7-7325
5073 Haak Donald K ◎ BR7-8394
5074 Williams Wm L ◎ BR8-0267

265
MT ELEBRUS COURT—From Mt Elbrus dr south
4307 Barney Wm C jr ◎ BR7-3754
4315 Eldridge Albert L ◎ BR8-3943
4325 Dorian Mark F ◎ BR8-3942
4337 Reed Richd I ◎ BR7-8757
4338 Romine Onus M ◎ BR7-8762
4345 Baker C L ◎
4346 Kallen Geo H BR7-7179
4353 Nordrehaug John ◎ BR7-8771
4354 Benham Henry ◎ BR8-3379

265
MT ELEBRUS DRIVE—From Mt Davis west
4802 Whitehead Stanley ◎ BR8-0894
4807 Heath Wayne L ◎ BR7-3388
4817 Laughead Robt E ◎ BR7-8737
4818 Cox O Wade ◎ BR7-7416
4825 Morgan Sherman M ◎ BR6-0503
4826 Hill Malcolm W ◎ BR7-3011
4833 Jackson Sidney C ◎
4834 Simonds Ronald W ◎ BR8-0898
4843 Houston Adam C ◎ BR7-9771
4844 Phillips Wm L ◎ BR8-1062
Mt Foster av intersects
4853 Odell Harvey G ◎ BR8-3876
4854 Day Jas W ◎ BR8-0885
4864 Farmer B G BR8-5048
4874 Richardson Leo F ◎ BR7-8755
4884 Petrich Richd D ◎ BR7-3008
4885 Blackburn G S ◎ BR7-8827
4894 Williams Donald R ◎ BR8-0815
Mt Elbrus ct intersects
4901 Robinson Bayard T ◎
4911 Glover Robt B jr ◎ BR8-0825
4912 Hocutt Morris G ◎ BR8-0826
4920 Brierton Thos J ◎ BR7-9459
4921 Cooper Allen G ◎ BR7-9725
4928 Gibaldi Thos ◎
4931 Montgomery Donald J ◎ BR8-0933
4936 Clarke Arth E ◎ BR7-8475
4941 Whistler Ralph N ◎ BR8-4449
4944 Oliver Jack R ◎ BR7-1515
4951 Christiansen Arnold M ◎ BR7-8807
4952 Taylor J E BR8-0205
4962 Clarke Walter L ◎ BR8-0887
Mt Foraker av intersects
4971 Brown Stuart L ◎ BR7-1671
4972 Farrell John H ◎ BR8-0876
4981 Leonard John D ◎ BR7-2083
4982 Ragan Gilbert G ◎ BR8-0877
4991 Pevehouse Jay ◎ BR7-9424
4992 Fortis Nicholas A ◎ BR8-0820

265
MT ETNA DRIVE—From Mt Castle av northwest
4618 Johnson Payne E ◎ BR7-6072
4630 Greenbaum Sidney ◎ BR7-3969
4644 Wood James R ◎ BR7-8974
4658 Fife Sammy W ◎ BR7-2938
4670 Davis Leon V ◎ BR7-5868
4702 Reinhardt John L ◎ BR7-5345
4714 Burhans John H BR8-5066
4728 Rookstool Chas M BR8-3099
4740 Harris Dorance C ◎ BR7-8882
4752 Eddy Chas L ◎ BR7-4950
4764 Willis Kathleen E Mrs ◎ BR8-1530
4776 Lindsay Thurman E ◎ BR8-2073
4778 Sutherlin John C ◎ BR8-1139
Mt Everest blvd intersects
4802 Johnson Chas E ◎ BR7-9483
4812 McClintock Wm B ◎ BR7-7524
4822 Weller W Patk ◎ BR7-8568
4831 Hinman Kenneth R ◎ BR7-8744
4832 Nichols Reginald J ◎
4841 Freebern Chas ◎ BR8-3013
4842 Reel Leland ◎ BR8-6948
Mt Davis av intersects
4851 Colton Dorothy M Mrs BR8-5481
4852 Vacant
4861 Miller Jack jr ◎ BR8-0703
4862 Hoyt Edwin P ◎ BR7-3603
Mt Foster av intersects
4901 Burgess Donald E ◎ BR7-5247
4902 Wright Wm O ◎ BR8-0252
4911 Korski Victor E ◎
4912 Heimann Jock H ◎ BR8-0340
4921 Birse Alan M ◎ BR7-8506
4922 Wilson Jack D ◎ BR8-0420
4931 Lowe Gerald W BR8-0280
4932 Welch Byron ◎ BR8-3241
4941 Edmonson Chas A jr ◎ BR7-8651
4942 Burich Jos H ◎ BR8-0303
Mt Foraker av intersects
4951 Ingersoll Geo W ◎ BR8-0183
4952 Romero Oscar B ◎ BR7-2483
4961 McLaughlin Clarence L ◎ BR8-0422
4962 Rayspis Hugo C ◎ BR8-3371
4971 Mickelson S G ◎ BR7-0131
4972 Petrie Roland A ◎ BR8-3588
4981 Stevenson Ray H ◎ BR7-8941
4982 Courtney Bernard C jr ◎ BR8-2646
4991 Tomaiko Steve J ◎ BR8-0421
4992 Hislop Art Q ◎ BR8-3868
5002 Davies Ernest E ◎ BR7-8617
5012 Redwood Wm G ◎ BR8-0411
5022 Luna Emile ◎ BR7-8743
5032 Smith Joe ◎ BR8-0238
5042 Morgan Ernest L ◎ BR7-8063
5052 Kennedy Douglas S ◎ BR7-7000
5062 Pendergast Richd J ◎ BR8-0308
5072 Mead Claud ◎ BR8-2133

69
MT EVEREST BLVD—From dead end, 1 south of Mt Blanca dr north
3681 Hastings Frank ◎ BR7-6208
3689 Catalino Jos BR8-3329
3697 Davis Geo W ◎ BR7-9720
3701 Campbell Jack E BR7-9671
3709 Evans Martin S ◎ BE8-4983
3710 Moore Lyle E ◎ BR7-5580
3717 Tartre Donald V BR8-2355
3718 Testa Rudolph BR7-0510
3725 Farley Jack C ◎ BR7-9611
3726 Lampkins Gerald W ◎ BR8-5608
3735 Rich Richd ◎ BR7-7687
3736 Runge Reginald R BR8-8366
3745 White Erwin J ◎ BR7-9630
3746 Patterson Duncan W BR8-0727
3755 Norgard Geo BR7-8285
3756 Vacant
3765 Whiteley Ross R BR8-4986
3766 Walery Ken F ◎ BR7-7876
3775 Knoll Raymond A BR7-2327
3776 Lomas John M ◎ BR7-1433
3785 Fleminger Abr ◎ BR8-5647
3786 Zink Stewart T ◎ BR8-4359
3795 Foster Jack E ◎ BR8-3106
3796 Sharpe Kenneth A ◎ BR8-2350
3801 Elias Justin J ◎ BR7-3350
3813 Arnett Wm V ◎ BR7-9561
3814 Hunt Ronald L ◎ BR8-3408
3825 Fouty Wm J ◎ BR7-9568
3826 Turman Earl ◎ BR7-9562
3838 Malowney Henry R ◎ BR8-0913
3839 Hackbusch Chas M ◎ BR7-7464
3850 White Robt ◎ BR7-9098
3855 Woodward Billye C ◎ BR8-2709
3862 Scott Richd Y ◎ BR7-9585
3867 Elledge R Reeves ◎ BR7-2288
3874 Bancroft Glenn W ◎ BR7-4832
3883 Staples John V ◎ BR8-2801
3886 Stuckley Robt J ◎ BR8-4903
Blaboa av intersects
3906 Zeiss Elliot R ◎ BR7-8194
3907 Nelson Keith B ◎ BR8-0662
3920 Ferguson Everett ◎
3921 Zak David D ◎ BR7-7798
3934 Barnett Gene A ◎ BR7-7287
3935 Stecker Linwood M ◎ BR8-3403
3948 Powell Robt W ◎
3949 Vacant
3955 Vacant
3956 Vacant
3961 Vacant
3964 Jahn Ernest F ◎ BR8-7382
3967 Vacant
3972 Greycloud Arth BR8-5818
3973 Perry Alf ◎ BR7-3738
3979 Cooper Glenn J ◎ BR8-0134
3980 Beeman Geo E ◎ BR8-3765
3987 Prior Barry W ◎ BR8-0439
3988 Rothstein Oscar D ◎ BR8-0407
3995 Anderson Jas ◎ BR8-3014
3996 Glaeser Harold R ◎ BR7-8857

265
Mt Casa dr intersects
4001 Pierson L Lee ◎ BR7-0893
4002 Hastings Elmer C ◎ BR8-0798
4009 Lakin Jas A ◎ BR8-0515
4010 Root Carl E ◎ BR8-0347
4017 Balata Jose F ◎ BR8-0464
4018 West Howard E ◎ BR8-0468
4025 Heinecke Harold R ◎ BR7-7992
4026 Hageman Walter F ◎ BR8-0107
4033 Jones Jas M ◎ BR7-7959
4034 Cook Handley N jr ◎ BR7-9422
4041 Vacant
4042 Brockman Robt R ◎ BR8-3795
4047 Brandt Jack R ◎ BR8-0170
4048 Guengerich Arth H ◎ BR8-0474
4053 Trogdon Robt D ◎ BR8-2391
4054 McVay Francis E ◎ BR8-0458
4059 Allen Kay W
4060 Vacant
4065 Beers John ◎ BR8-0489
4066 Head Norman E ◎ BR8-0367
4071 Ramon Marcelo D ◎ BR7-7520
4077 Cook Arth J ◎ BR7-0763
4077 Walsh Martin G ◎ BR8-0145
4078 Elliott Nelson W ◎
4083 Menches L G jr ◎ BR8-0488
4084 Geisler Richd ◎
4089 Corum Fred E ◎ BR7-9849
4090 Stewart Clifford L ◎ BR8-0158
4095 Kassis Thero ◎ BR8-0465
4096 Wilson Fremont N ◎ BR8-0477
4101 Mendenhall Richd A ◎ BR7-2420
4102 Balfour Claire H ◎ BR8-0428
4111 Badela Casimer M ◎ BR8-0485
4112 Loftin Jesse B ◎ BR8-0446
4121 Copin Raymond J ◎
4122 Humphrey Jas E ◎ BR7-8009
4131 Harkness Jas L ◎ BR7-7967
4132 Vacant
4141 Burke Ed D ◎ BR8-5590
4142 MacDonald Clare N ◎ BR8-0177
4151 O'Neil Wm C ◎ BR8-0148
4152 Growdon Wm A ◎ BR8-5377
4161 Holland Danl E ◎ BR7-1332
4164 Merritt Clifford N ◎ BR8-2953
4171 Abrams Braedon J ◎ BR8-0184
4176 Arena John E ◎ BR8-0218
4181 Walton LaVern E ◎ BR8-1058
4190 Driscoll Keith F ◎ BR8-0434
4191 Koch Fred F ◎ BR8-0180

MOUNT EVEREST BLVD 1961

MT EVEREST BLVD—Contd

4241 Bennett Floye C Mrs
4261 Hubbard Milton J ◎ BR7-8747
4301 Gonzales Jos G ◎ BR8-0496
4311 Migdal Philip N ◎ BR7-0703
4321 Pratt Hugh S ◎ BR7-8006
4331 Burton Richd A ◎ BR7-7322
4341 Osterloh Paul ◎ BR7-8622
4350 Wiggin Kate Douglas Sch BR7-9091
4351 Bozzo Vincent J ◎
4361 Lorenz Henry J jr ◎ BR8-0438
4371 Stringfellow Geo S ◎ BR7-7318
4381 Lamoreaux Torrence C ◎ BR8-0456
4401 Cariola Roy E ◎ BR7-6415
4409 Coleman Robt W ◎ BR8-0487
4417 Eaton Geo W ◎ BR7-7504
4425 Duhamel Muriel A Mrs ◎ BR7-7323
4433 Lorenz Mat C
4441 Curry Leroy J ◎ BR7-0727
4449 Vacant
4453 Hood Thos C ◎ BR7-7502
4461 Eggert Alan L ◎ BR8-2395
4467 Adams Harry E ◎ BR8-1412
4473 Hibbert John G BR8-0534
4476 Bertram Raymond W ◎ BR7-7101
4481 Meigs Milton L ◎ BR7-0713
4489 Franklin Richd N ◎ BR7-8309
4490 Morgan Clifford T ◎

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MT FORAKER AV—From Mt Frissell dr northeast, 1 west of Mt Everest blvd

4551 Vacant
4561 Walling Dan M ◎ BR7-0278
4571 Jellison Robt K ◎ BR7-5399
4581 Brown Jas L ◎ BR7-0942

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MT FRISSELL DRIVE—From MtGaywas dr east, 1 north of MtLindsey pl

4501 Ross Eug F ◎ BR7-6531
4509 Hail Warren D ◎
4517 Brown Carl R ◎ BR7-1942
4524 Pitts Edw C ◎ BR7-2061
4542 Herzog Donald R ◎ BR7-1058
4661 Knight Clarence C ◎ BR7-6223
4664 Vacant
4671 Ness Hugh W ◎ BR7-6251
4678 Pince Jos R ◎ BR7-7937
4681 Sanders Norbert L ◎ BR7-6250
4689 Steele Sidney ◎ BR7-4385
4690 Vasquez Lester ◎ BR7-2280
4697 Scarpa Bartholomew P ◎ BR7-2656
4701 Arreguin F R ◎ BR7-3157
4702 Rumble Gerould M jr ◎ BR7-7139
4714 Baeta Rodney O ◎ BR7-0264
4715 Cofano Angelo P ◎ BR7-6114
4726 Christian Jack L ◎ BR7-0467
4727 Dickinson Bill C ◎ BR7-5434
4738 Threlkeld Dale BR7-5676
4739 Rojek Thaddeus J ◎ BR7-4187
4750 Fallon Wm P ◎ BR7-0628
4751 Brindamour Roger C ◎ BR7-5922
4762 Rolecki Alex A ◎
4763 Collier Terry M ◎ BR8-3151
4774 Edwards Jack W ◎ BR7-5303
4775 Parker Robt C ◎ BR7-6314
4786 Winter Jos E ◎
4787 Soland Leslie L ◎ BR7-9627
4825 Auerbach Henry ◎ BR7-5473
4826 Kerr Donald A ◎ BR7-0808
4835 Herney Francis A ◎ BR7-8959
4836 Cope Alf L ◎ BR8-2661
4845 Dolphin Geo ◎ BR7-7511
4846 Conger Fred M ◎ BR7-0825
4855 Wolske Gordon H ◎ BR7-0961
4856 Northup Robt L ◎ BR8-0188
4865 Denson Eug G ◎
4866 Bishop Jas M ◎ BR7-7610
4875 Olimb Carl ◎ BR8-5117
4876 Gill Harry E ◎ BR7-7018
4885 Martens Carl ◎ BR7-8008
4886 Hensler Lawrence R ◎ BR7-6879
4901 Lincoln Clarence E ◎ BR7-3170
4902 Chapman Jas D ◎ BR7-7509
4911 Shiraishi Toru ◎ BR7-7508
4912 Hoover Betty R Mrs ◎ BR8-1859
4921 Taylor Wayne D ◎ BR7-9781
4922 Mueller Edw C ◎ BR7-7506
4931 Mumford J LeRoy ◎ BR7-0836
4932 Orr Wm ◎ BR8-4633
4941 Fogleman Sam F ◎ BR8-1272
4942 Mann E Floyd ◎ BR8-0643
4951 Hanger Wilbur L ◎ BR7-7117
4952 Carrico Bill J BR8-8357
4961 Webster Hugh T ◎ BR7-6401
4962 Pippin Henry C ◎ BR7-4971
4971 Harris Chas R ◎ BR7-0774
4972 Winchester Wm A ◎ BR7-2533
4981 Riedinger Maxwell L ◎ BR7-7514
4982 King Jesse W ◎ BR7-0753
5001 Ruscigno Harry G ◎ BR7-6339
5002 Sullivan Dennis T ◎ BR7-3915
5011 Johnson Chas F ◎ BR8-2424
5012 Makoske Robt M ◎
5023 Herrmann Chas R ◎ BR7-6936
5024 Allard Dane R ◎ BR7-9863
5035 Davidson Geo M ◎ BR7-7593
5036 Teague Roy W ◎ BR7-7071
5045 Lancaster Leonard M ◎ BR7-2200
5048 David Luther W ◎ BR8-0427
5055 Jensen Fredk H ◎ BR7-7527
5060 Barrett Jas L ◎ BR7-8780
5063 Greenlee Edgar M ◎ BR7-1912

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MT GAYWAS DRIVE—From Mt Frissell dr east, then southeast, 1 north of Mt Lindsey pl

4502 Newman Lawrence W ◎ BR7-1836
4512 Nealey Ivan F ◎ BR7-3966
4522 Johnson Lloyd P ◎ BR7-5329
4523 Paddock Minnie I ◎ BR7-8363
4532 Hanna Philip M ◎ BR7-5942
4535 Jacobson Merrill S ◎ BR8-3513
4542 Peck Chester J ◎ BR8-2237
4552 Lewis Herbert G ◎ BR7-5096
4562 Butter Roy E ◎
4602 Vacant
4605 Brownell Jas R BR7-0269
4612 Tyler Chas H ◎ BR7-3419
4615 Kenny Francis W ◎ BR7-2947
4622 Cobb John R ◎ BR7-0017
4625 Alvares Donald J ◎ BR7-2682
4632 Finlayson Stanley W ◎ BR7-2493
4635 Rowley Geo R ◎ BR7-2395
4642 Vacant
4645 Stern Jos A ◎ BR7-6082
4652 Auiler Irving M ◎ BR7-1428
4655 Vallee Lucian J ◎ BR7-3899
4662 Lewis Alvin L ◎
4672 Keith Cyrus W ◎ BR7-4558
4675 Vacant
4709 Struhar August K ◎ BR7-4797
4712 Powell Rue E ◎ BR7-5858
4717 Ley Carl F ◎ BR7-5069
4722 Hendricks Edw C ◎ BR7-5661
4725 Coombe Donald E ◎ BR7-4481
4731 Feagin Fredk K ◎ BR7-4657
4732 Shinkle Carl E ◎
4741 Jordan Nathan T ◎ BR7-5251
4742 Curtis Richd E ◎ BR7-7974
4751 Herman Robt O ◎ BR7-6886
4752 Bausback Richd F ◎ BR7-6977
4761 Buchan Robt J BR8-8706
4762 Pollard Bill G ◎ BR7-5013
4771 Manson Roger A ◎ BR7-4977
4772 Miller Louis ◎ BR7-7099
4781 Rhodes Jack D ◎ BR7-5051
4782 McIntyre John P ◎ BR7-6620
4791 Foresee Dwight L ◎ BR8-0052
4792 Miner Jack B ◎ BR7-5161
4801 Crawford Joseph J ◎ BR8-2344
4802 Robak Edw ◎ BR7-6578
4817 Weed Robt C ◎ BR7-5930
4818 Bray Rodney D ◎ BR7-4574
4831 Weber Wm B ◎ BR7-5143
4832 Story Edwin J ◎ BR7-6326
4847 Vacant
4848 Rose Herbert W ◎ BR7-3547
4861 Bulthuis Raymond J ◎ BR7-4685
4862 Branson Eug C ◎ BR7-0749
4875 Wolever Wm L ◎ BR7-1803
4876 Cook John S ◎ BR7-1697
4887 Lowry Elnora L Mrs ◎ BR7-1336
4888 Clark Philip B ◎ BR7-1783
4901 Reynolds Dean W ◎ BR7-2048
4902 Reed Everett G ◎ BR7-1215
4915 Klein Edw W ◎
4916 Modglin Lloyd B ◎ BR7-2252
4929 McGaughy Chas L BR8-6791
4930 Gorman John R jr ◎ BR7-1779
4943 Davis Paul A ◎ BR7-5340
4944 Zombek Walter S ◎ BR7-1554
4957 Sanford Bruce D ◎ BR7-2743
4958 Kreinkamp D W ◎ BR7-9848
4971 Boyle Jas B ◎
4972 Courington Thos C ◎ BR7-6532
4985 Jefferis Allen S ◎ BR7-2984
4986 Wagoner Wm E ◎ BR7-7242
5001 Selby Howard K ◎ BR7-3828
5002 Clark Richd G ◎ BR7-0414
5017 Laying Geofrey G ◎ BR8-1497
5018 Williams Leo H ◎ BR7-7020
5033 Devlin Harry E ◎ BR7-6350
5034 Vacant
5049 Choppin Elvin T BR7-6048
5050 Klingenstein Jas J ◎ BR7-8052
5061 Smith Jas D ◎ BR7-3108
5062 Spencer Walter R ◎ BR7-0120
5073 Bock Miriam S jr ◎ BR7-8298
5086 McCafferty Jos E ◎ BR7-7832
5087 Oram Sydney F. ◎ BR7-8395

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MT HARRIS DRIVE—From Mt Herbert av east, 1 north of MtGaywas dr

4701 Cole Ben V ◎ BR8-0155
4702 Currier Norman ◎ BR8-2120
4714 Vacant
4715 Burkhouse Frank F ◎ BR7-6363
4726 Karge Orville B ◎ BR8-1644
4727 Kozleuchar Louis L ◎ BR7-7938
4738 Gamble Chas ◎ BR8-5915
4739 Gordon Clark B ◎ BR7-4859
4751 Stewart Chas F ◎ BR8-5354
4752 Torp Eric V ◎ BR7-2992
4763 Pochel R Eug ◎ BR8-1730
4764 Boykin Jas O ◎ BR7-7750
4773 Sawyer Richd H ◎ BR8-8258
4776 Schoonover Roy E ◎ BR7-7602
4787 Teel Roy C ◎ BR7-7609
4788 Kelly O B ◎ BR7-4660
4801 Walker Don L ◎ BR8-3123
4802 Ackley Richd T BR8-3533
4815 Lino Norman J ◎ BR7-7517
4816 Pardee Irving E ◎ BR7-7195
4829 Olthoff Ned L ◎ BR7-7522
4830 Paxton Richd W ◎ BR7-7737
4843 Moore Walter R ◎ BR7-2336
4844 Duncan Roger L jr ◎
4857 Haynes Al B BR8-2396
4858 Cantor John J ◎ BR7-7537
4871 Reed Wm G ◎ BR7-7997
4872 Kaapke Robt K ◎ BR7-7784
4885 Peck Geo W ◎ BR7-3651
4886 Birts Bobby J ◎ BR7-0265
4901 Desseyn Maurice H ◎ BR8-0209
4902 Snow Carol Mrs ◎ BR7-4862
4914 Fenley David L ◎ BR8-3847
4915 Vacant
4926 Heck Karl ◎ BR8-3720
4927 Skillman Guy R ◎ BR8-4795
4939 Anderson Stewart ◎ BR7-7528
4940 Waters David E BR7-6686
4951 Barnett Douglas D ◎ BR8-4666
4952 Roberts John A ◎ BR7-7820
4962 Wells Clarence ◎ BR7-3402
4964 Eckardt Everett ◎ BR7-8386
4975 Wheeldon Geo N BR7-7530
4976 Hauser Donald L ◎ BR7-7802
5002 Shanahan Thos E ◎ BR7-0065
5003 Grossbohlin Howard W ◎ BR7-7892
5014 Picht Donald H ◎ BR7-1380
5015 Fox Elmer W ◎ BR7-7457
5026 Conkling Harold E ◎ BR7-7529
5027 Shepard Eug P ◎ BR7-8492
5038 Krager Norvyn ◎ BR7-7523
5039 Villaluz Ricardo V ◎ BR7-2451
5051 Atkin Kenneth C ◎ BR7-7536
5052 Torian Lena R Mrs ◎ BR8-1405
5064 Chamberlain Don W ◎ BR7-7539
5071 Wigginton Cyril ◎ BR7-0806
5076 Kegans Leo W ◎ BR7-6815
5090 Frasier E Lewis ◎ BR7-7516

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MT HAY DRIVE—From Mt Foraker av east and west, 1 north of MtGaywas dr

4714 Nelson Ralph D ◎ BR7-5639
4715 Bradly Walter L ◎ BR8-8619
4726 Cerveny Geo E ◎ BR7-6901
4727 Galant Eug E ◎ BR7-5496
4738 Krauss Fredk K ◎ BR7-4361
4739 Birchard Dale W ◎ BR7-6904
4750 Madden Joseph H ◎ BR7-5794
4751 Roley Aubrey E ◎ BR7-7748
4762 Cooke Geo D ◎ BR8-1593
4763 Delicath Raymond C ◎ BR7-5582
4775 Vermilyea Earl J ◎ BR7-5681
4786 Ray Chas H ◎ BR7-5327
4787 Leahy Danl M ◎ BR7-5444
4803 Parry Frank W ◎ BR8-1916
4804 Sisneros Peter ◎ BR7-7579
4819 Harris Walter T
4820 Carl J Geo ◎ BR7-4507
4833 Hummel Geo J BR8-2234
4834 Burnett John D ◎ BR7-1446
4849 Moody John K ◎ BR7-2912
4850 Vacant
4863 Inman Bruce P ◎ BR7-1482
4864 Lunsford Jessie C ◎ BR7-1945
4877 Greany Edw J ◎ BR8-1381
4878 Morris Harry B ◎ BR7-2872
4889 Laswell Wm E ◎ BR7-1167
4890 Wiltse Royal C ◎ BR7-5142
4903 McGuire Oakley ◎ BR8-0794
4904 Ellis Edmund H ◎ BR7-4263
4917 Daniel Donald G ◎ BR7-1290
4918 Chandler Robt C ◎ BR8-1919
4932 Clark Cecil E ◎ BR7-0765
4945 White Lyle D ◎ BR7-1486
4946 Moore Harry F ◎ BR7-8259
4959 Hansen Geo E ◎ BR7-8343
4960 Fagan Richd S ◎ BR7-1289
4973 Renolds Truman ◎
4974 Garland Thos H ◎ BR7-1337
4987 Feenstra Ronald M ◎
4988 Medlin Jas N ◎ BR7-4712
5004 Bingen Russell M ◎ BR7-7104
5005 Ross Wm E ◎ BR7-6288
5024 Seltzer Montgomery
5025 McClearen Jas H ◎
5044 Traegde Edw H ◎ BR7-4735
5045 Inman Malcolm H ◎ BR7-1096
5064 Wriedt Harold G ◎ BR7-1519
5065 Flahive Thos J ◎ BR7-8273

5225 Mt. Etna Dr.

5225 Mt. Etna Dr.

San Diego, CA 92117

Inquiry Number: 5578947.3

March 04, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

03/04/19

Site Name:	Client Name:
5225 Mt. Etna Dr.	Ninyo & Moore
5225 Mt. Etna Dr.	5710 Ruffin Rd
San Diego, CA 92117	San Diego, CA 92123
EDR Inquiry # 5578947.3	Contact: Adrian Olivares

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Ninyo & Moore were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # CE5A-4752-85CA

PO # NA

Project 108768001

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: CE5A-4752-85CA

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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5225 Mt. Etna Dr.

5225 Mt. Etna Dr.

San Diego, CA 92117

Inquiry Number: 5578947.8

March 04, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

03/04/19

Site Name:

5225 Mt. Etna Dr.
5225 Mt. Etna Dr.
San Diego, CA 92117
EDR Inquiry # 5578947.8

Client Name:

Ninyo & Moore
5710 Ruffin Rd
San Diego, CA 92123
Contact: Adrian Olivares

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1996	1"=500'	Flight Date: September 30, 1996	USGS
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: September 06, 1990	USDA
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: February 24, 1985	USDA
1979	1"=500'	Flight Date: January 27, 1979	EDR Proprietary Landiscor
1970	1"=500'	Flight Date: March 06, 1970	EDR Proprietary Landiscor
1966	1"=500'	Flight Date: November 02, 1966	USGS
1964	1"=500'	Flight Date: April 08, 1964	USDA
1953	1"=500'	Flight Date: April 14, 1953	USDA
1949	1"=500'	Flight Date: February 16, 1949	USDA

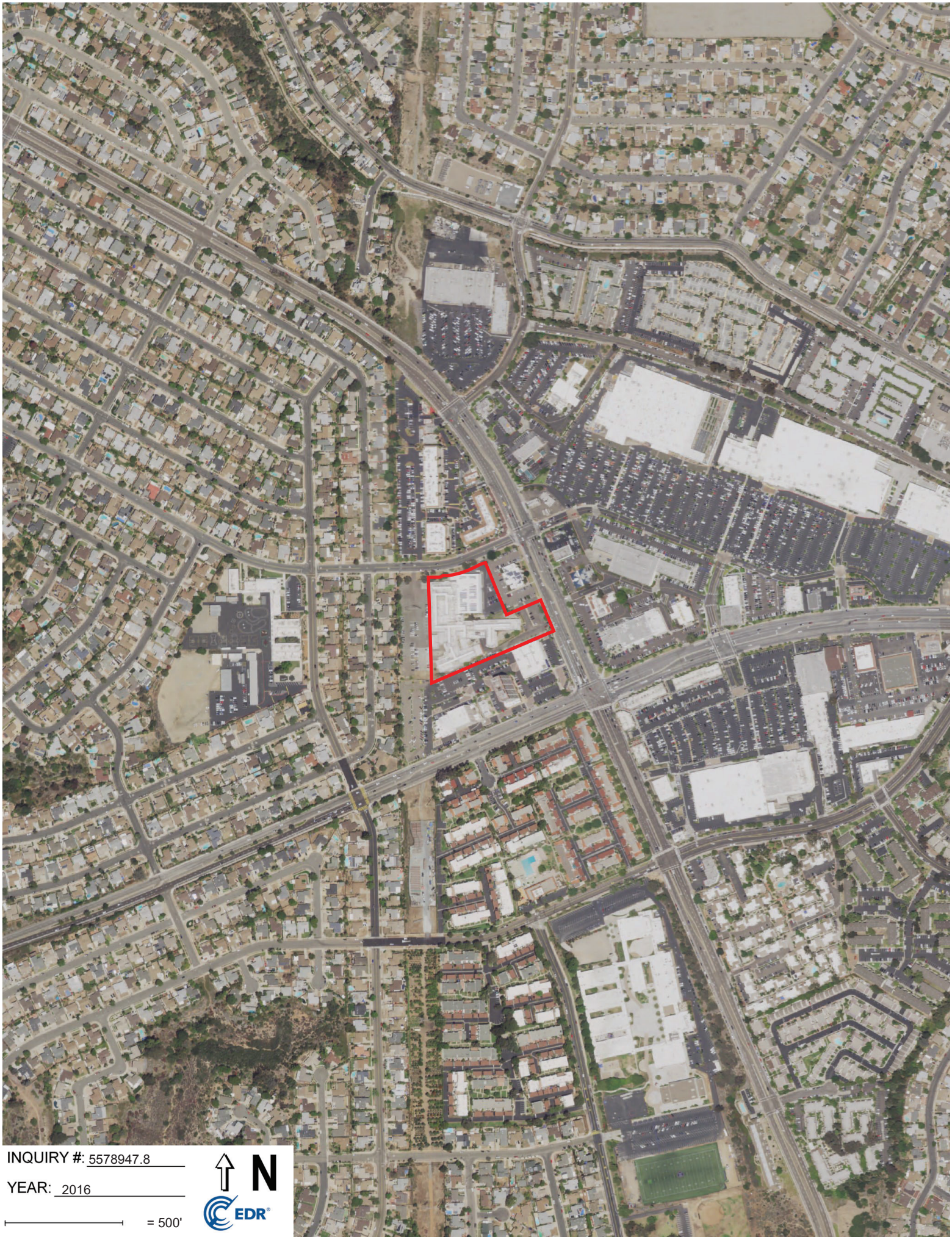
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INQUIRY #: 5578947.8

YEAR: 2016

= 500'

N

EDR



INQUIRY #: 5578947.8

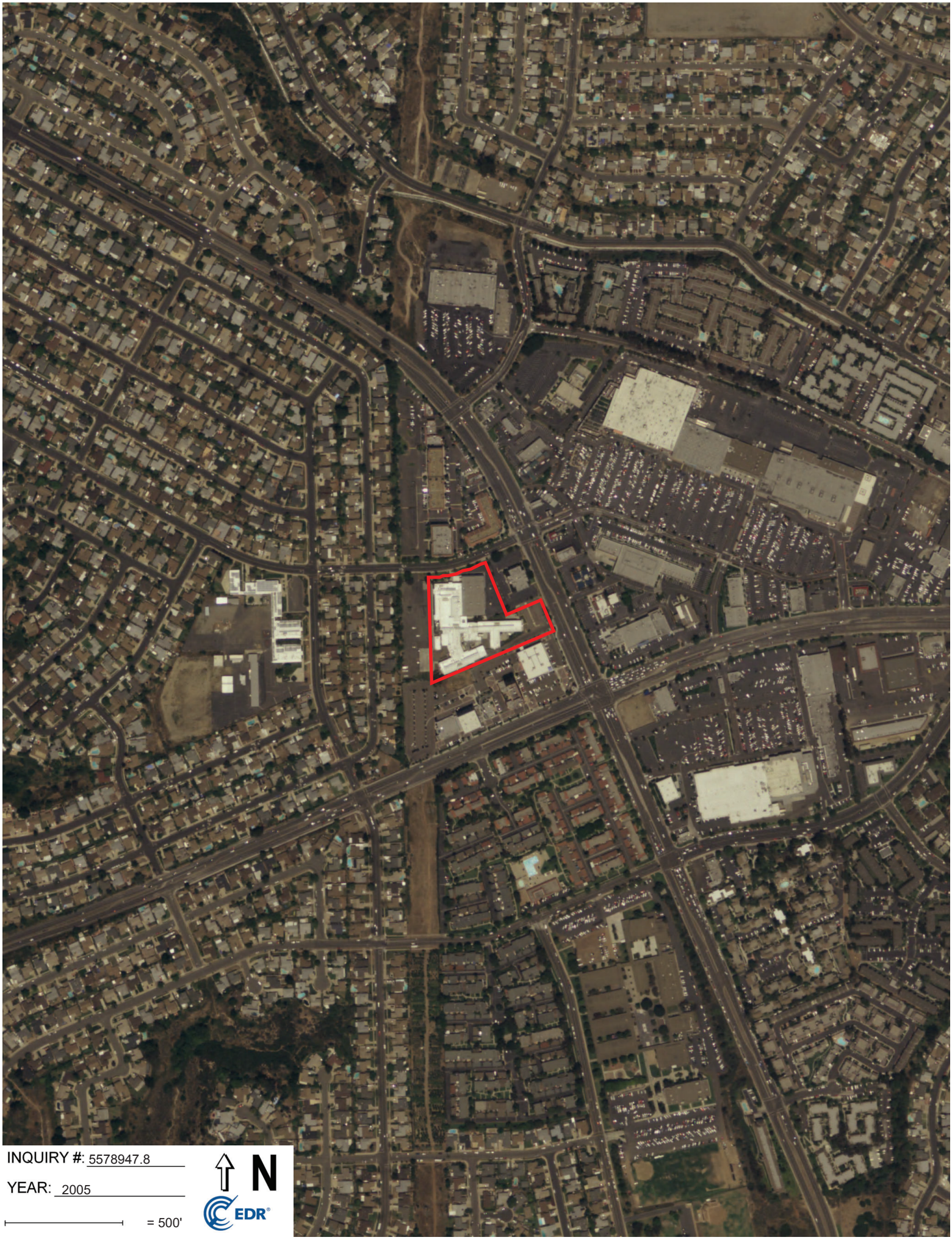
YEAR: 2012

= 500'

N

EDR


INQUIRY #: 5578947.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 5578947.8
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 5578947.8
YEAR: 1996
= 500'
N
EDR



INQUIRY #: 5578947.8

YEAR: 1994

= 500'

N

EDR



INQUIRY #: 5578947.8

YEAR: 1990

= 500'

N

EDR



INQUIRY #: 5578947.8

YEAR: 1989

= 500'

N

EDR


INQUIRY #: 5578947.8
YEAR: 1985
= 500'
N
EDR



INQUIRY #: 5578947.8

YEAR: 1979

= 500'

N

EDR



INQUIRY #: 5578947.8

YEAR: 1970

= 500'

N

EDR



INQUIRY #: 5578947.8

YEAR: 1966

= 500'

N

EDR



INQUIRY #: 5578947.8

YEAR: 1964

= 500'

N

EDR



INQUIRY #: 5578947.8

YEAR: 1953

= 500'

N

EDR



INQUIRY #: 5578947.8

YEAR: 1949

= 500'

N

EDR

5225 Mt. Etna Dr.

5225 Mt. Etna Dr.

San Diego, CA 92117

Inquiry Number: 5578947.4

March 04, 2019

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
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EDR Historical Topo Map Report

03/04/19

Site Name:	Client Name:
5225 Mt. Etna Dr.	Ninyo & Moore
5225 Mt. Etna Dr.	5710 Ruffin Rd
San Diego, CA 92117	San Diego, CA 92123
EDR Inquiry # 5578947.4	Contact: Adrian Olivares

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Ninyo & Moore were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	NA	**Latitude:**	32.820295 32° 49' 13" North
Project:	108768001	**Longitude:**	-117.183697 -117° 11' 1" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	482805.08
		UTM Y Meters:	3631380.06
		Elevation:	367.65' above sea level

Maps Provided:

2012
1996
1975
1967
1953
1943
1930
1903

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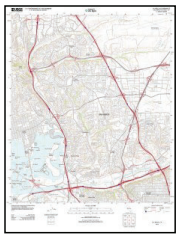
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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



La Jolla

7.5-minute, 24000

1996 Source Sheets



La Jolla

7.5-minute, 24000
Aerial Photo Revised 1996

1975 Source Sheets



La Jolla

7.5-minute, 24000
Aerial Photo Revised 1975

1967 Source Sheets



La Jolla

7.5-minute, 24000
Aerial Photo Revised 1966

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1953 Source Sheets



La Jolla

7.5-minute, 24000
Aerial Photo Revised 1950

1943 Source Sheets



La Jolla

7.5-minute, 31680

1930 Source Sheets



La Jolla

15-minute, 62500

1903 Source Sheets

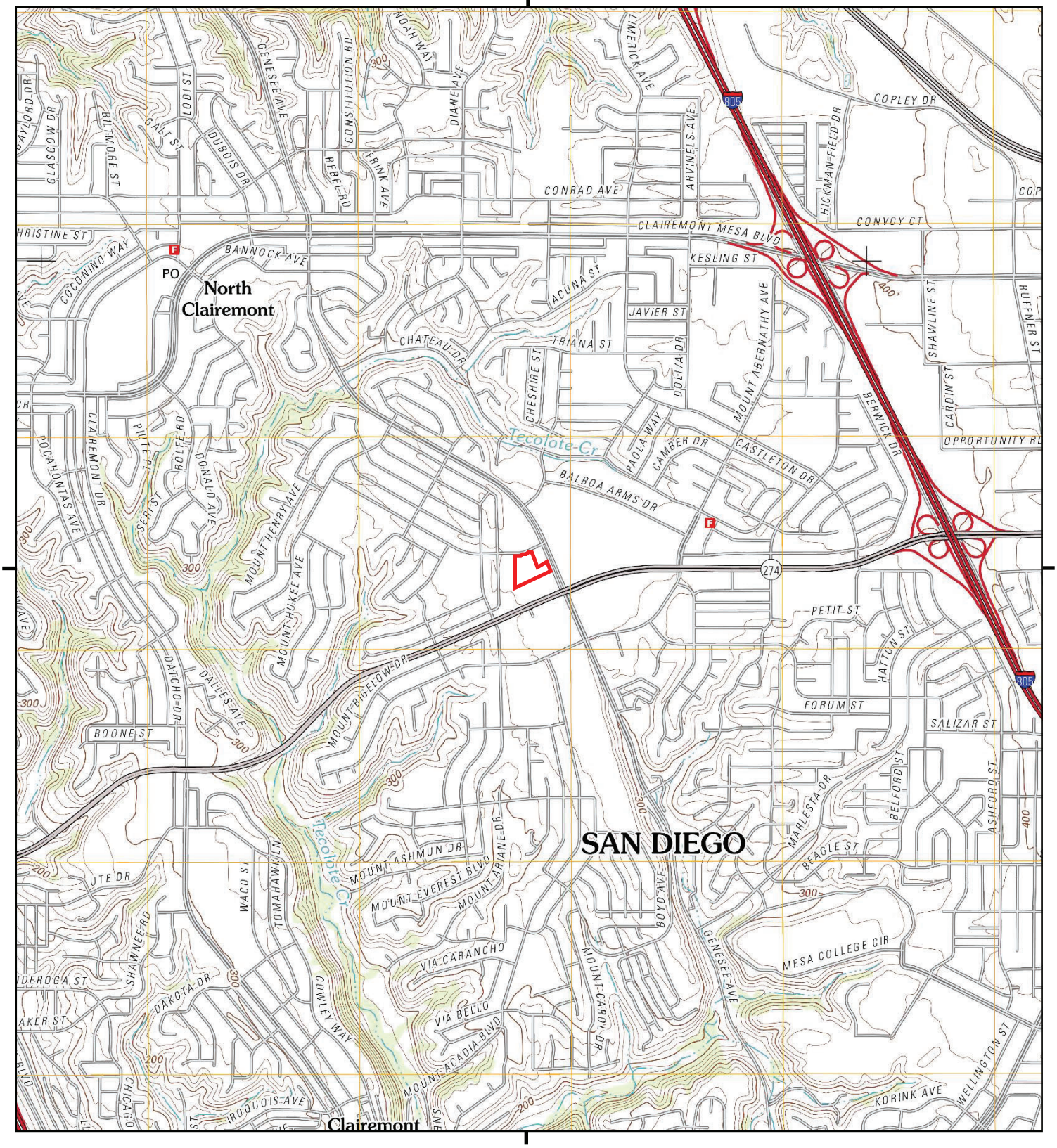


La Jolla

15-minute, 62500

Historical Topo Map

2012



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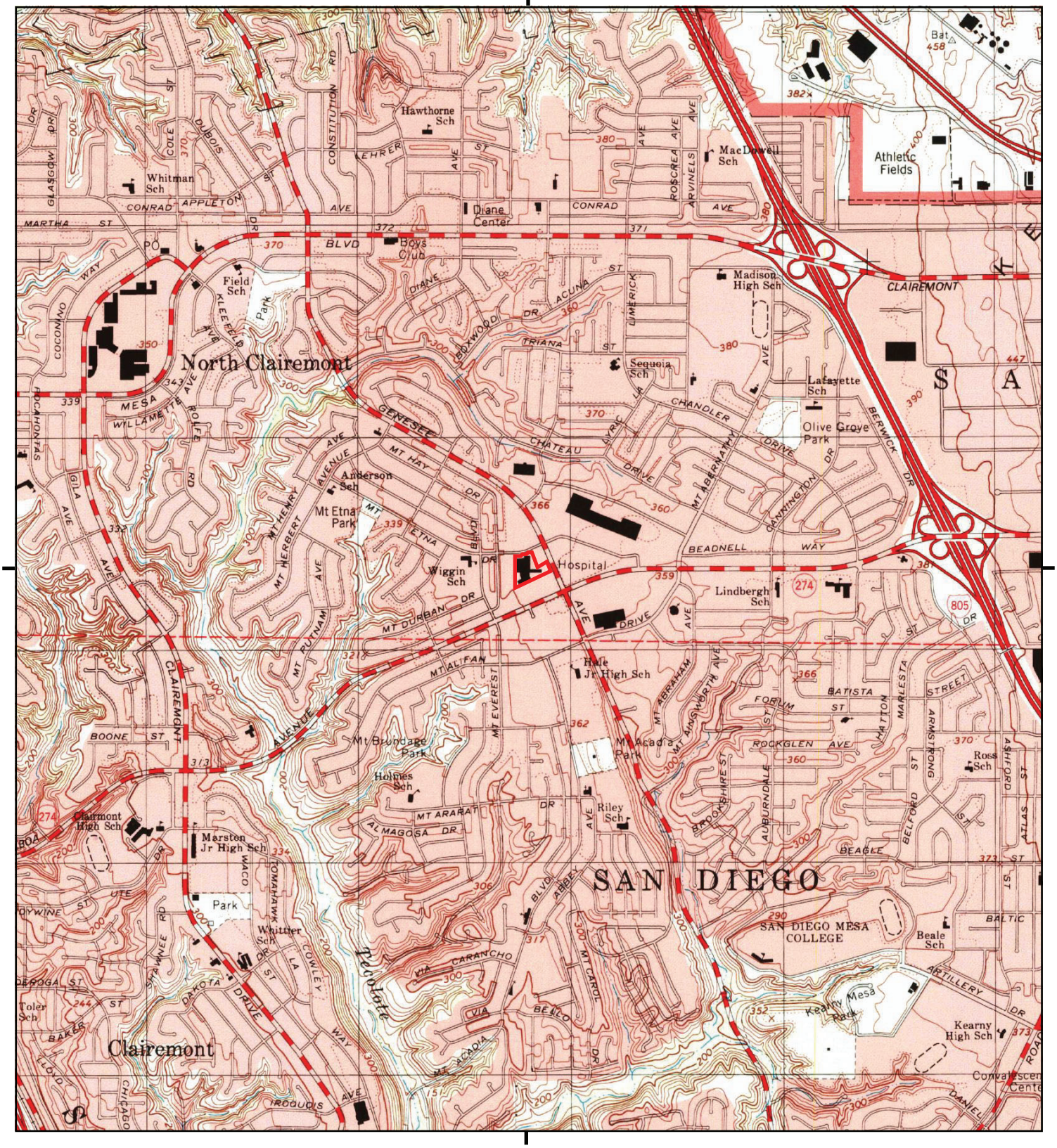
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, La Jolla, 2012, 7.5-minute

SITE NAME: 5225 Mt. Etna Dr.
ADDRESS: 5225 Mt. Etna Dr.
San Diego, CA 92117
CLIENT: Ninyo & Moore

N



This report includes information from the following map sheet(s).

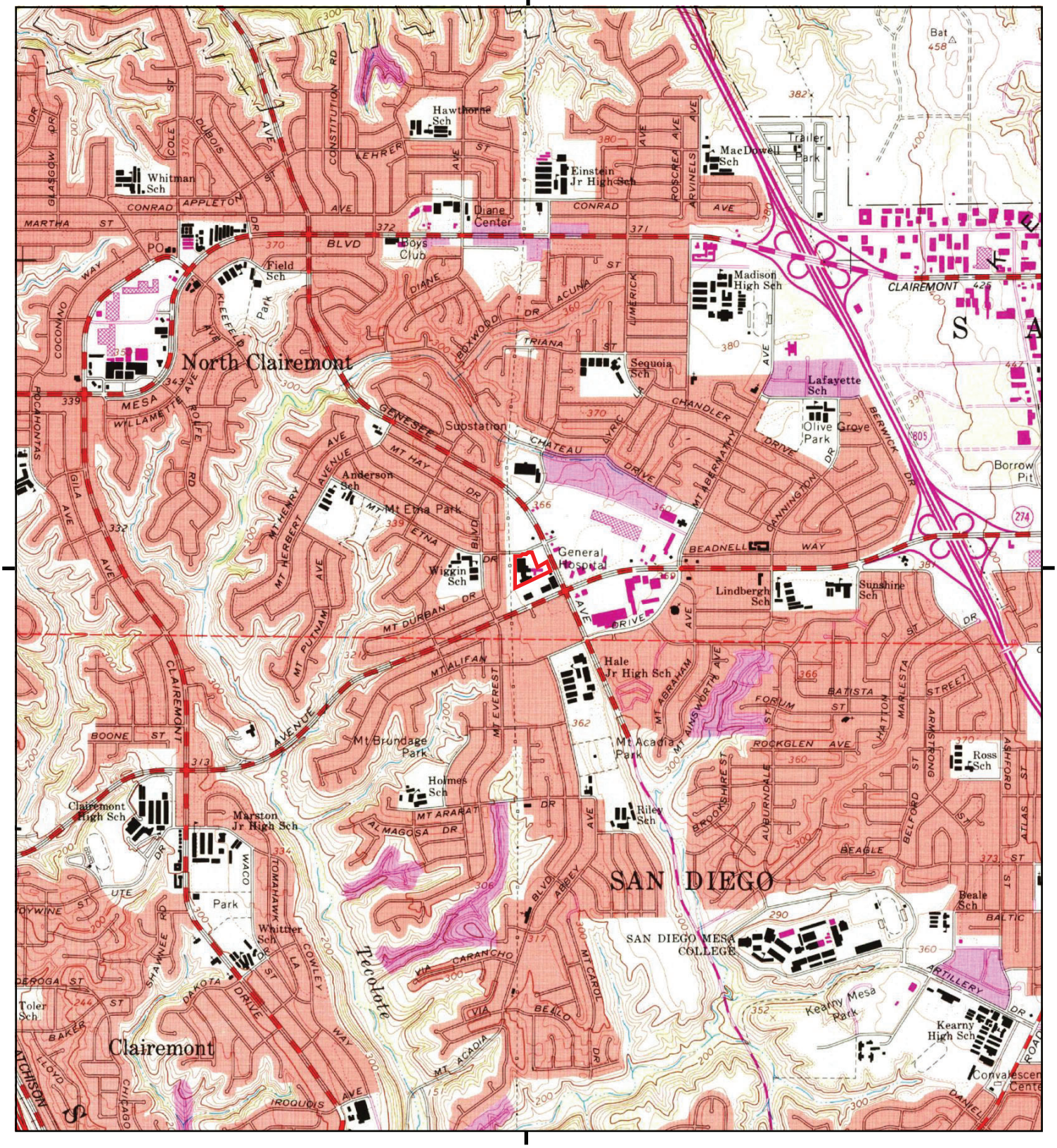
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, La Jolla, 1996, 7.5-minute

SITE NAME: 5225 Mt. Etna Dr.
ADDRESS: 5225 Mt. Etna Dr.
San Diego, CA 92117
CLIENT: Ninyo & Moore

N



This report includes information from the following map sheet(s).

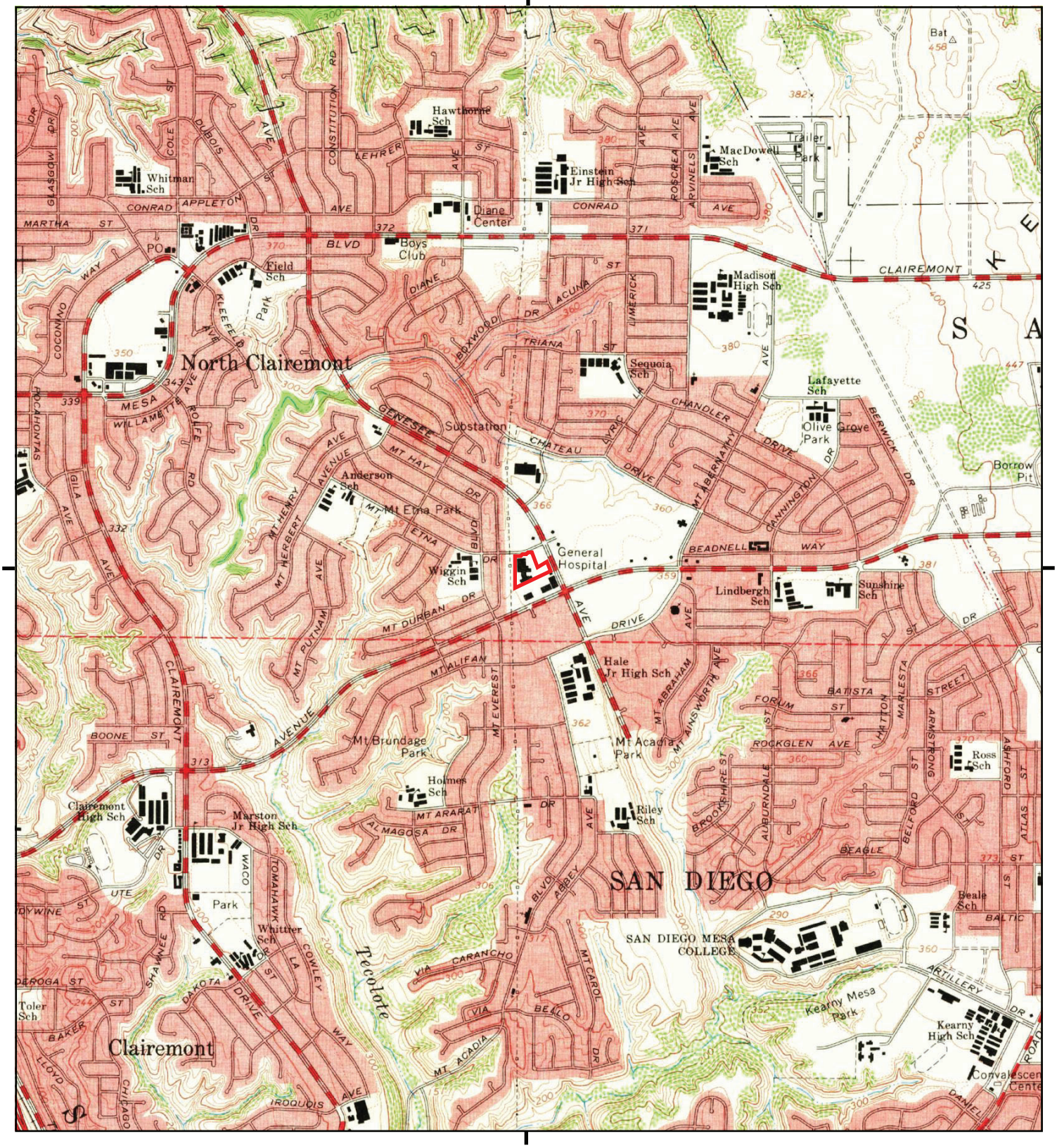
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, La Jolla, 1975, 7.5-minute

SITE NAME: 5225 Mt. Etna Dr.
ADDRESS: 5225 Mt. Etna Dr.
San Diego, CA 92117
CLIENT: Ninyo & Moore

N

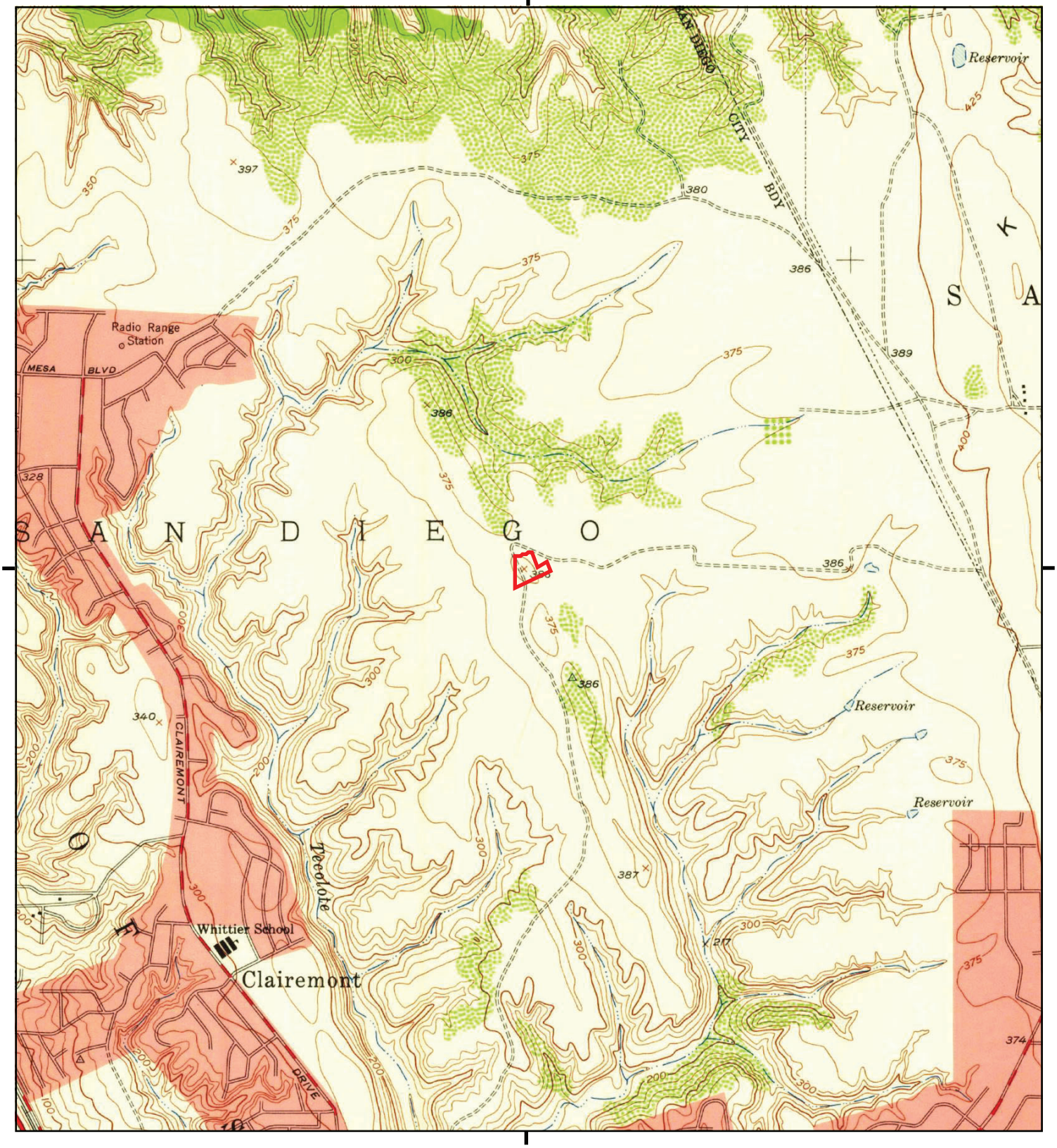


This report includes information from the following map sheet(s).

NW N NE
W E
SW S SE

TP, La Jolla, 1967, 7.5-minute

SITE NAME: 5225 Mt. Etna Dr.
ADDRESS: 5225 Mt. Etna Dr.
San Diego, CA 92117
CLIENT: Ninyo & Moore



This report includes information from the following map sheet(s).

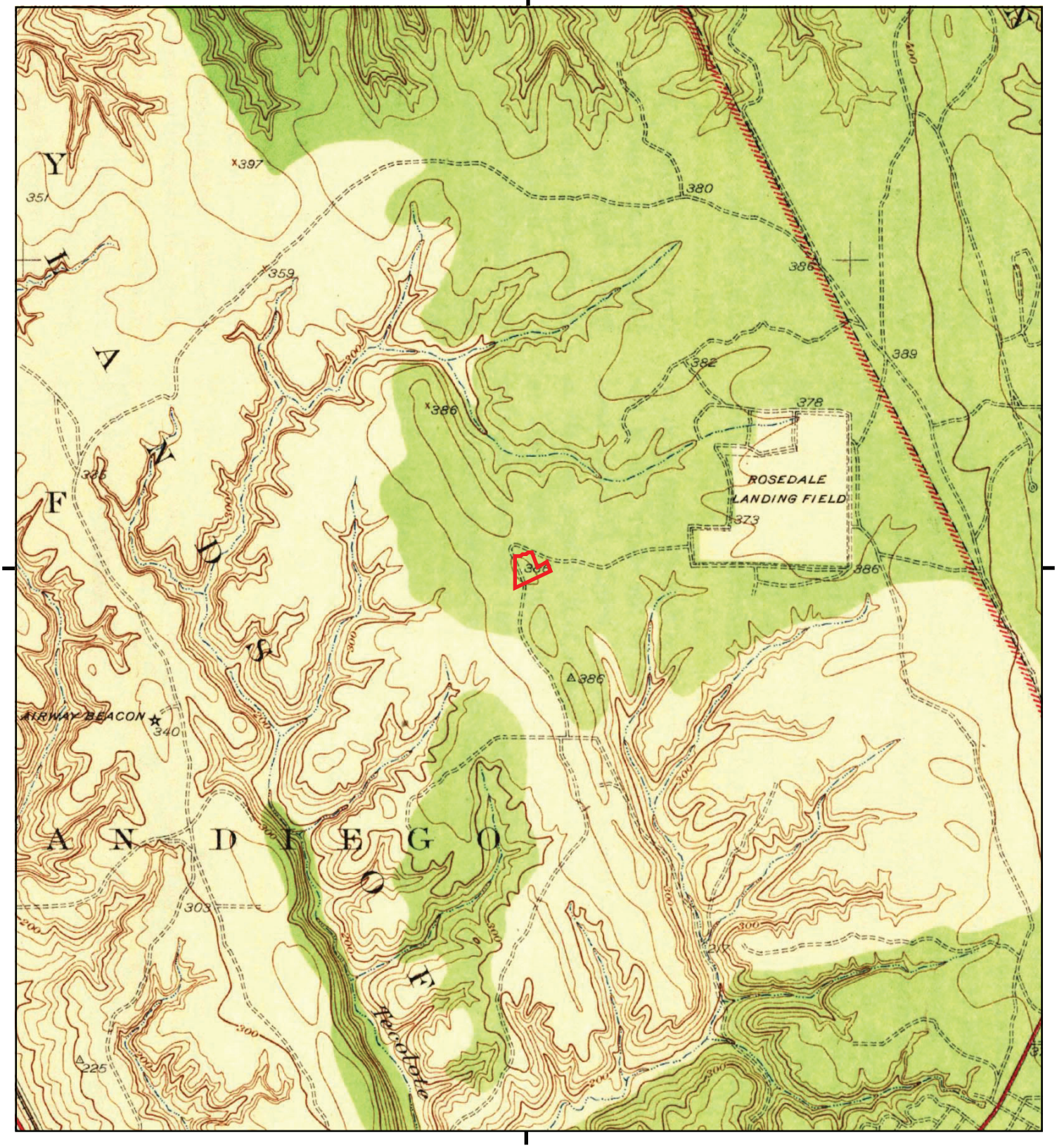
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, La Jolla, 1953, 7.5-minute

SITE NAME: 5225 Mt. Etna Dr.
ADDRESS: 5225 Mt. Etna Dr.
San Diego, CA 92117
CLIENT: Ninyo & Moore

N



This report includes information from the following map sheet(s).

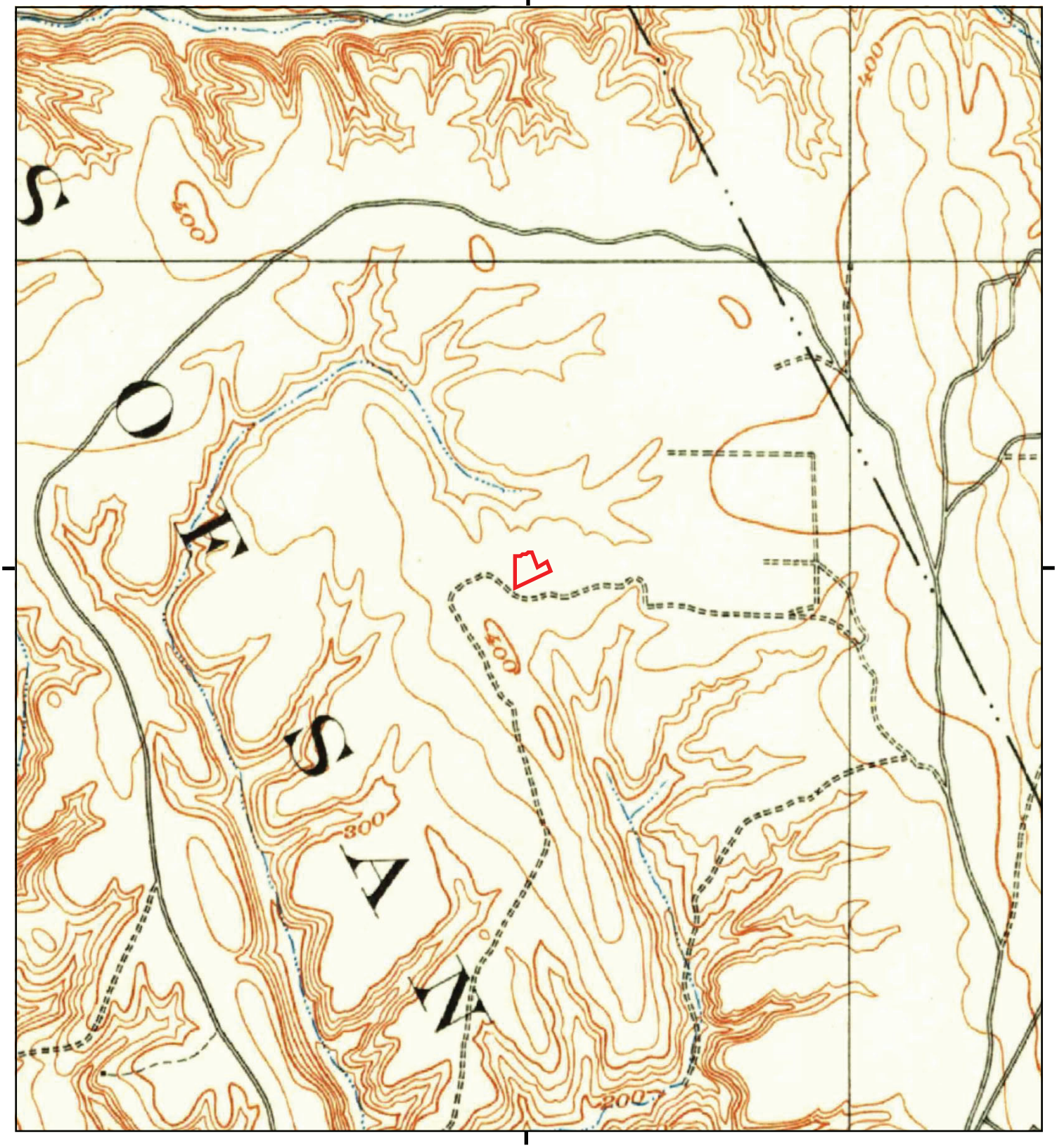
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, La Jolla, 1943, 7.5-minute

SITE NAME: 5225 Mt. Etna Dr.
ADDRESS: 5225 Mt. Etna Dr.
San Diego, CA 92117
CLIENT: Ninyo & Moore

N



This report includes information from the following map sheet(s).

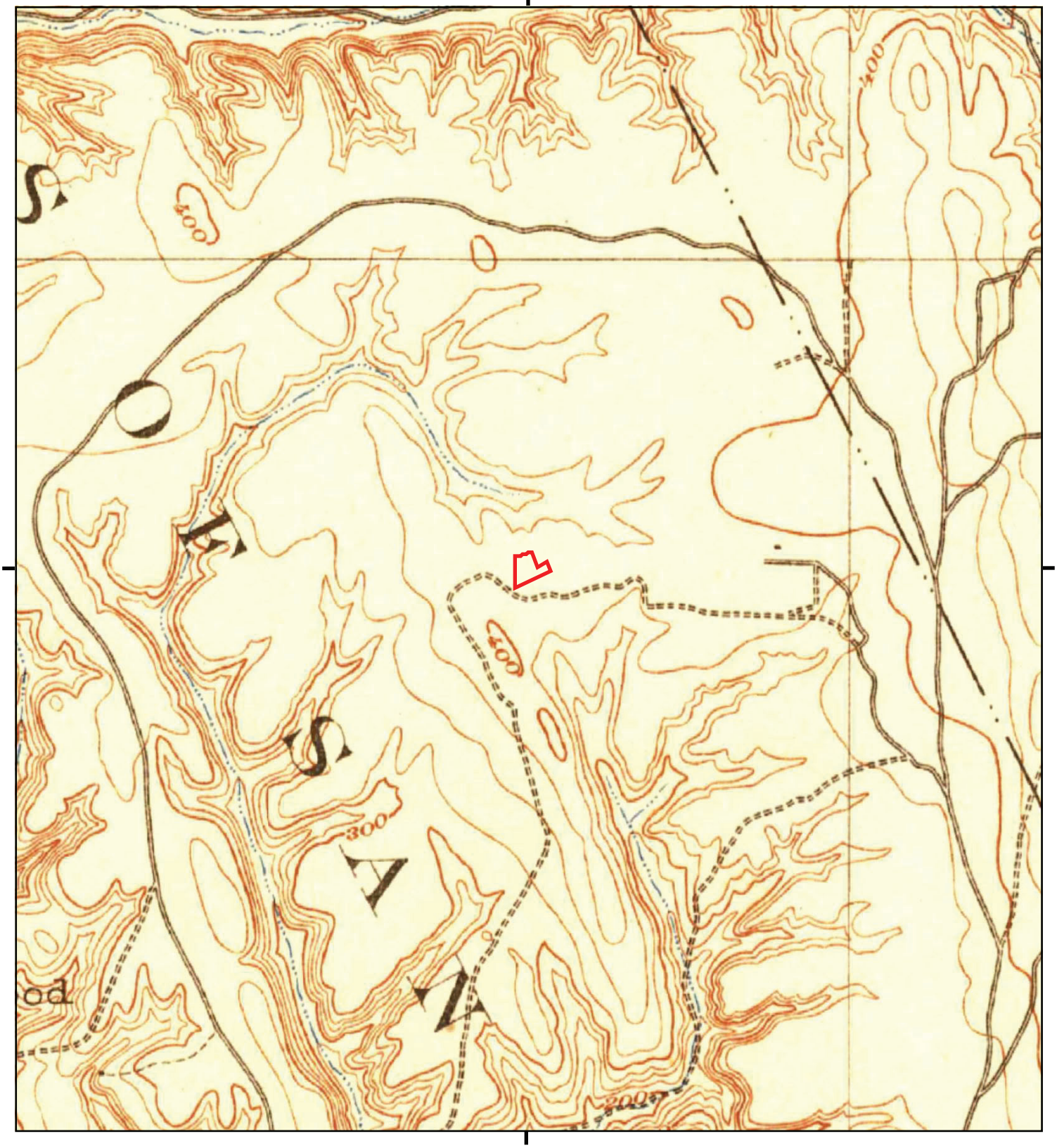
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, La Jolla, 1930, 15-minute

SITE NAME: 5225 Mt. Etna Dr.
ADDRESS: 5225 Mt. Etna Dr.
San Diego, CA 92117
CLIENT: Ninyo & Moore

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, La Jolla, 1903, 15-minute

SITE NAME: 5225 Mt. Etna Dr.
ADDRESS: 5225 Mt. Etna Dr.
San Diego, CA 92117
CLIENT: Ninyo & Moore

N

APPENDIX F

Vapor Encroachment Screening Matrix

Phase I ESA Vapor Encroachment Conditions (VEC) matrix includes a (1) Search Radius Test, (2) Chemicals of Concern Test (COC), and (3) a Critical Distance Test [1].

(1) Search Radius Test: Are there any known or suspect contaminated properties in the primary area of concern within the corresponding search radii?

☒ Yes ☐ No — If ***No***, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If ***Yes***, then:

(2) Chemicals of Concern Test: Are COC likely to be present within the area of concern for those known or suspect contaminated sites identified based on the Search Distance Test?

☒ Yes ☐ No — If ***No***, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If ***Yes***, then:

(3) Critical Distance Test: A plume test to determine whether or not COC in the contaminated plume(s) may be within the critical distance.

☒ Yes ☐ No — (3a) Is information related to the contaminated(s) plume available (i.e., isoconcentration maps, site drawings, etc.)?

(3b) If ***No***, then a VEC cannot be ruled out; check ***Yes*** in #4 below indicating it is likely a VEC exists. If ***Yes***, then:

☐ Yes ☒ No — (3c) Is the site less than 100 feet to the nearest edge of a contaminated [non-petroleum hydrocarbon] plume(s)? If ***Yes***, then check ***Yes*** in #4 below indicating it is likely a VEC exists.

☐ Yes ☒ No — (3d) Is the site less than 30 feet to the nearest edge of a dissolved petroleum hydrocarbon plume(s)? If ***Yes***, then check ***Yes*** in #4 below indicating it is likely a VEC exists.

If the distance from the nearest edge of a contaminated plume to the nearest existing or planned structure on the site is less than 100 feet for non-petroleum hydrocarbon COC, or less than 30 feet for dissolved petroleum hydrocarbons, then it is presumed that a VEC *currently* exists beneath the site. If the distance from the nearest edge of the contaminated plume is greater than or equal to 100 feet for non-petroleum hydrocarbons, or 30 feet for dissolved petroleum hydrocarbon chemicals of concern, then it is presumed unlikely that a VEC *currently* exists beneath the site.

(4) Is it likely that a VEC *currently* exists beneath the site?

☐ Yes ☒ No — If ***No***, then the VEC screening is complete and no further investigation is recommended at this time. If ***Yes***, Ninyo & Moore recommends performing additional assessment, such as a Tier 2 VEC assessment according to ASTM E 2600-15.

[1] Based on guidance presented in the ASTM E 2600-15 Standard.

APPENDIX G

Qualification of the Environmental Professionals

ADRIAN OLIVARES

SENIOR PROJECT ENVIRONMENTAL SCIENTIST

EDUCATION

M.P.H., Environmental Health Concentration, 2016, San Diego State University

B.S., Environmental Studies, 2002, University of California Santa Barbara

REGISTRATIONS AND CERTIFICATIONS

40-Hour OSHA HAZWOPER Certification (with annual updates)

CPR / First Aid Certification

EXPERIENCE HIGHLIGHTS

City of San Diego, As-Needed Environmental Services Site Assessment and Mitigation Process Contract

City of San Diego, As-Needed Environmental Consultant Services for Brownfield Assessment Project

County of San Diego, Cedar and Kettner Development Project

Cajon Valley Union School District, Magnolia Elementary School

PROFESSIONAL AFFILIATIONS

San Diego Association of Environmental Professionals

As a Senior Project Environmental Scientist for Ninyo & Moore, Mr. Olivares manages and conducts Phase I and Phase II Environmental Site Assessments (ESAs), underground storage tank unauthorized release case investigations, human health risk assessments, indoor air quality studies, Caltrans Initial Site Assessments (ISAs), and California Environmental Quality Act (CEQA) hazardous materials technical studies (HMTS) for Environmental Impact Reports (EIRs). Mr. Olivares performs all phases of environmental investigations, coordinates and observes subsurface drilling activities, conducts investigations of subsurface contamination and logging of exploratory borings, conducts groundwater monitoring utilizing a variety of methods, authors reports, and interfaces with regulatory agencies.

REPRESENTATIVE PROJECT EXPERIENCE

City of San Diego, As-Needed Environmental Services Site Assessment and Mitigation Process Contract, San Diego, California: Project Manager for two, five-year contracts awarded to Ninyo & Moore, which includes conducting environmental site assessments at contaminated, City-owned properties throughout the County of San Diego. Scope of services include: work plan and health and safety plan preparation, field investigations (drill, sample, analytical testing), remediation, human health risk assessments, groundwater monitoring and sampling, and report preparation including corrective action plans and site conceptual models. The purpose of the contract is to assist the City of San Diego in obtaining regulatory agency closure of its properties that have been affected by unauthorized releases from underground storage tanks (USTs).

City of San Diego, Successor Agency to the Redevelopment Agency, As-Needed Environmental Consulting Services, Brownfields Assessment Project, San Diego, California: Project Manager for this three year contract awarded to Ninyo & Moore, which includes conducting Phase I and II ESAs at various brownfield sites within redevelopment areas of City Heights, Central Imperial, and Southeastern San Diego. Work was performed as part of a United States Environmental Protection Agency (USEPA) community-wide grant program. Ninyo & Moore's scope of services included developing a program-level Quality Assurance Project Plan (QAPP) and site-specific, Phase I ESAs, Field Sampling Plans, Phase II ESAs, human health risk assessments, and participating in community outreach efforts. The contract also includes preparation of remedial plans and estimates. The purpose of the contract is to assist the City and other stake holders with assessment of brownfield sites to support redevelopment efforts in the community.

County of San Diego, Cedar and Kettner Development Project, San Diego, California: Project Manager for the Cedar and Kettner Development Project, which was performed as part of a five-year contract awarded to Ninyo & Moore by the County of San Diego DGS. The site was historically occupied by Hercules Oil Refining Company and an automotive repair facility. Scope of services included: pre-characterization of soil; preparation of a Soil and Groundwater Management Plan (SGMP), Community and Contractor Health and Safety Plans; and construction field support involving implementation of the SGMP, community monitoring, and worker monitoring.

Cajon Valley Union School District, Magnolia Elementary School, El Cajon, California: Project Manager performed an indoor air quality (IAQ) study, soil vapor survey, and human health risk assessment at Magnolia Elementary School located in El Cajon, California. The project was initiated in response to concerns that indoor air may be impacted with chlorinated hydrocarbons as a result of groundwater contaminants from an adjacent aerospace/electronics facility migrating into the school buildings via the vapor intrusion pathway. The Department of Toxic Substances Control (DTSC) provided regulatory oversight.

REPRESENTATIVE PROJECT EXPERIENCE (continued)

City of Chula Vista, Sweetwater Union High School District Property, Chula Vista, California: Project Manager for this Phase II ESA project, which was performed as part of a USEPA community-wide grant program. Ninyo & Moore's scope of services included: preparation of a sampling and analysis plan; collection of soil and soil vapor samples to evaluate contaminants associated with underground storage tanks (USTs) and fueling areas, maintenance areas, and a paint shop; and preparation of a Phase II ESA report. The purpose of the project was to assist the City and District with the assessment of a brownfield site to support redevelopment efforts.

Miramar Pipeline Relocation, 17 Miles from Naval Base Point Loma to Marine Corps Air Station Miramar, San Diego, California: Project Environmental Scientist for an environmental assessment related to the relocation of portions of an existing 17-mile fuel pipeline. Ninyo & Moore's scope included: 1) preparation of an HMTS to document potential releases of hazardous materials or wastes from historical activities along the project alignment; 2) preparation of an SGMP to assist the contractor in the excavation, notification, monitoring, segregation, characterization, handling, and reuse and/or disposal of waste that may be encountered during earthwork activities; and 3) soil sampling and analytical testing to provide a screening evaluation of the environmental condition of existing soils along the proposed alignment.

City of San Diego, Southeastern San Diego Community Plan Update, San Diego, California: Project Manager for the preparation of an HMTS for the comprehensive update of the Southeastern San Diego Community Plan. The purpose of the HMTS was to document the presence of properties, which may have been impacted by hazardous materials or wastes, and to document the significance of impacts from the project area with respect to CEQA, and to discuss measures that can be implemented to reduce or mitigate the potential impacts.

Otay Truck Route, San Diego, California: Project Manager prepared an ISA for the Otay Truck Route Improvement Project in San Diego County, California. The area evaluated for this ISA was generally bounded by Siempre Viva Road to the north, Customhouse Court to the east, the international border to the south, and Britannia Boulevard to the west in the community of Otay Mesa. The purpose of the project was to provide the construction of additional travel lanes to the existing truck route for truck traffic entering the Otay Mesa Border Crossing Port of Entry and to provide a travel lane for Border Patrol and emergency vehicles. The ISA involved evaluation of properties within the boundaries of the project area and off-site properties, which have the potential to negatively impact the project area.

Metropolitan Transit System, 13th Street Light Rail Vehicle Maintenance Facility and Newton Avenue Taxi Inspection Facility San Diego, California: Project Manager for the implementation of the facility's Storm Water Pollution Prevention Plan (SWPPP). The project included monthly inspections, sampling, an annual inspection for the comprehensive site compliance evaluation for potential pollutant sources, and reporting to comply with the facility's Regional Water Quality Control Board industrial storm water permit requirements.

NCTD Sorrento Valley Double Track Project, ISA, San Diego, California: Project Environmental Scientist for an ISA for the Sorrento Valley Double Track Project. The project consists of construction of a second rail track extending the railroad double tracks from Sorrento Valley Station at MP 248.9 northwest approximately 1 mile to MP 247.8. The purpose of the ISA was to document potential environmental concerns related to hazardous materials and/or hazardous wastes including oil/water separators, waste oil, polychlorinated biphenyls, asbestos- containing material, lead-based paint, aerially-deposited lead, and railroad related hazards.

University Avenue Pipeline, San Diego, California: Project Environmental Scientist performed an HMTS for the University Avenue Pipeline Replacement Project located in San Diego, California. The purpose of the HMTS was to document the presence of properties and areas of potential environmental concern, which may have been impacted by releases of hazardous materials and/or wastes within the project area, which have the potential to impact the project, in order to assist with project planning and preliminary design.

West Vista Way Sewer Project, Vista California: Project Environmental Scientist for an environmental and geotechnical evaluation for the West Vista Way Sewer project in Vista, California. The project included the installation of a 15- to 16-inch diameter sewer pipeline along West Vista Way and a 12-inch diameter sewer pipeline from Huff Street to Grapevine Road. Of particular concern was a section of sewer crossing beneath Emerald Drive where a shallow groundwater table and potential contamination was suspected due to the presence of nearby unauthorized releases from several gas stations.

RANDY L. WHEELER
SENIOR GEOLOGIST

EDUCATION

B.A., Geology, 1988, California State University, Sacramento

REGISTRATIONS

Certified Environmental Manager 2127 (Nevada)

EXPERIENCE HIGHLIGHTS

Santa Clara Valley Water District
USEPA Brownfield Assessments
Bridge District Infrastructure Project
Former Sugar Processing Facility
Former Union Pacific Redevelopment Property
Multiple Commercial Property Transfer
City of West Sacramento RDA

PROFESSIONAL AFFILIATIONS

Association of Environmental Professionals - Superior California Chapter

As Senior Geologist, Mr. Wheeler conducts Phase I Environmental Site Assessments and assists with the planning and implementation of Phase II soil, soil gas, and groundwater investigations. Past project types have included single-family residential developments, large-scale commercial and industrial facilities, city redevelopment areas, and large scale agricultural lands.

REPRESENTATIVE PROJECT EXPERIENCE

Santa Clara Valley Water District (SCVWD), Linear Phase I Environmental Site Assessments, Santa Clara County, California: Ninyo & Moore provided environmental services as a subconsultant to Overland, Pacific & Cutler, Inc. on behalf of the SCVWD. As Senior Project Manager, provided project coordination and implementation, field reconnaissance oversight, report preparation and oversight, project invoicing and client interactions. The project consists of conducting Phase I ESAs of approximately 140 properties along Upper Llagas Creek, which the SCVWD is proposed to purchase portions of for implementing flood protection measures.

Former Union Pacific Redevelopment Property, West Sacramento, California: Project Manager for a Phase I Site Assessment of an 8.8-acre Union Pacific Railroad property. The intent of the investigation was to support the redevelopment of the property into residential development known as Ironworks at the Triangle. Components of the Phase I Site Assessment included characterization of the former railroad tracks, including the removal of the railroad slag ballast, and metals contaminated soil associated with the railroad tracks.

Port of Sacramento Collateral Property West Sacramento, California: Managed and conducted a Phase I Site Assessment on 240 acres of partially developed/undeveloped land for the City of West Sacramento Redevelopment Agency. The developed portions of the site included the W.G. Stone navigational Locks, Government owned land, and waterfront areas. The Stone Lock District consists of over 200 acres of publicly-owned waterfront property with 4 miles of continuous, direct waterfront. The investigation was conducted as part of a due diligence study on behalf of the Redevelopment Agency.

Former Speckles Sugar Facility, Woodland, California: Project Manager for the completion of a Phase I Environmental Site Assessment of a former sugar processing facility. The investigation was conducted as part of a due diligence to identify environmental liabilities prior to purchasing the property. Planned redevelopment activities included reclaiming several acres of the waste lime fields and demolishing portions of the processing facility. Mr. Wheeler compiled a list of Recognized Environmental Conditions that warranted resolution or further assessment. Two of these issues related to the prior use, and questionable abandonment, of seven previous fuel underground storage tanks. A Phase II subsurface assessment of the former UST area was completed and identified residual petroleum hydrocarbon impacts to soil and groundwater. Further Phase II assessment activities of the former UST areas were completed. A No Further Action Report was submitted to the Regional Water Quality Control Board for closure.

Stockton Waterfront Brownfield Redevelopment, Stockton, California: Managed the Phase I Environmental Site Assessment of a former industrial property for a local developer. The assessment identified several areas of potential contamination. The resulting follow up investigations are being managed by the City of Stockton under the direction of the California Regional Water Quality Control Board. Site assessment and remediation activities are being coordinated under U.S. EPA grant funding.

REPRESENTATIVE PROJECT EXPERIENCE (continued)

Brownfields Assessment Grant Study, City of West Sacramento, California: Managed and conducted assessments on over 290 parcels located in the City's central corridor, West Capitol Avenue, as part of the City's revitalization efforts of this area. The resulting Area Wide Assessment report has won the praise of both the Client and the USEPA for its format, content, and layout that documented the environmental conditions of these parcels. The City established as a priority updating the current land uses and perceived image of West Capitol Avenue from an outdated and outmoded highway commercial boulevard to a vibrant and modern central business district.

Bridge District Grant Program, West Sacramento, California: Managed the environmental work of this project, which was part of a $23 million Proposition 1C Infill Incentive Grant awarded to the City of West Sacramento. Services included conducting an Environmental Conditions Assessment (ECA), Phase II soil sampling, and reviewing various soil/groundwater/dust management plans that were used by follow-on contractors during the roadway construction activities. This waterfront redevelopment area encompasses 125 net developable acres bounded by the Sacramento River on the east, former S.R. 275 on the north and U.S.50/Business 80 Capital City Freeway on the south. The purpose of the ECA was to evaluate the proposed Bridge District street alignment corridors for possible surface and/or subsurface contamination that may have impacted the proposed street alignments. Based on the results of the ECA, follow up Phase II investigations were recommended at six areas. The purpose of the Phase II sampling was to provide a screening-level assessment of potentially contaminated soil and/or groundwater sites identified during the ECA that may be encountered during construction of infrastructure improvements. Phase II soil sampling was conducted in six areas. Results of the Phase II sampling resulted in Area-specific cleanup goals for the contaminants of concern. A detailed Soil and Dust Management Plan was prepared for two of the six areas.

Community-Wide Assessment West Capitol Avenue – West End: Project Manager for the implementation of the Community Wide Assessment for West Capitol Avenue. Responsibilities included managing and implementing a USEPA Brownfield Assessment Grant, which included conducting a Community Wide Assessment of approximately 133 individual parcels within the study area. Services included compiling a list of street addresses provided by the City of West Sacramento, cross referencing the provided addresses with their respective Assessor's Parcel Number (APN), and the APN-listed property address for the respective parcel number, in order to identify which parcels were within the "Study Area" boundary. The parcel inventory database was the basis for conducting the Community Wide Assessment. Based on the parcel inventory, Mr. Wheeler conducted the Community Wide Assessment and performed all site reconnaissance fieldwork, historical research, agency database research, and color photography of each parcel. Site-specific data, along with historical research information was compiled into various data tables. Specific sites were ranked according to redevelopment potential, degree of suspected contamination, and environmental condition.

422-424 C Street, West Sacramento, California: Project Manager for the completion of a Phase I Environmental Site Assessment/All Appropriate Inquires Report (AAI) of the 422-424 C Street property for the City of West Sacramento Grants and Community Development Department. Results of the AAI report revealed the site was initially developed for use as residential property and then re-developed for use as an automobile service station sometime prior to 1950. The AAI also noted that four USTs were removed from the site in 1987. Although the site is considered "closed" by Yolo County, no soil or groundwater samples were collected at the time the USTs were removed. Given the historical use of the site as an automotive repair facility, a Phase II environmental site assessment was conducted to assess the soil and groundwater from beneath the removed USTs, investigate two existing automobile lifts to assess if the soil beneath and around the lifts has been impacted by hydraulic fluid contamination, and, collect soil samples from beneath and around an oil/water separator to evaluate the presence of waste oil contamination. The Phase II sampling was conducted in accordance with an approved Sampling and Analysis Plan (SAP). The results of the Phase II investigation indicated detectable levels of petroleum hydrocarbons, and metals below regulatory limits. Based on these findings, no further action was recommended.

Ninyo & Moore

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Appendix H
Noise Appendix

ESA

Project: Mt Etna Affordable Housing Project

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				ST-1					ST-2				
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Site Preparation and Demolition													
Demo/Grading					**71**	***69***				**67**	***64***		
Excavator	3	81	40%	150	71	67	70	5	320	65	61	64	5
Concrete Saw	1	90	20%	250	71	64	67	5	420	67	60	63	5
Dozer	2	82	40%	350	63	59	62	5	520	60	56	59	5
Site Preparation					**66**	***67***				**62**	***62***		
Generator Sets	1	81	50%	150	66	63	66	5	320	60	57	60	5
Graders	1	85	40%	250	66	62	65	5	420	62	58	61	5
Roller	1	80	20%	350	58	51	54	5	520	55	48	51	5
Rubber Tired Loader	1	79	40%	350	57	53	56	5	520	54	50	53	5
Scrapers	1	84	40%	450	60	56	59	5	620	57	53	56	5
Tractor/Loader/Backhoe	2	80	25%	450	59	53	56	5	720	55	49	52	5
Grading/Excavation					**70**	***69***				**64**	***63***		
Front End Loader	4	79	40%	150	70	66	69	5	320	64	60	63	5
Excavator	1	81	40%	250	62	58	61	5	420	58	54	57	5
Graders	1	85	40%	350	63	59	62	5	520	60	56	59	5
Compactor (ground)	2	83	20%	450	62	55	58	5	620	59	52	55	5
Roller	1	80	20%	100	69	62	65	5	720	52	45	48	5
Rubber Tired Loader	1	79	40%	350	57	53	56	5	520	54	50	53	5
Tractor/Loader/Backhoe	2	80	25%	350	61	55	58	5	520	58	52	55	5
Drainage/Utilities/Trenching					**67**	***66***				**63**	***61***		
Air Compressor	1	78	40%	150	63	59	62	5	320	57	53	56	5
Front End Loader	2	79	40%	250	63	59	62	5	420	59	55	58	5
Excavator	1	81	40%	450	57	53	56	5	420	58	54	57	5
Forklift	1	75	10%	100	64	54	57	5	420	52	42	45	5
Compactor (ground)	2	83	20%	250	67	60	63	5	420	63	56	59	5
Rubber Tired Loader	1	79	40%	350	57	53	56	5	520	54	50	53	5
Tractor/Loader/Backhoe	2	80	25%	350	61	55	58	5	520	58	52	55	5
Community Plan Amendment and Rezone													
Foundations/Concrete Pour					**68**	***64***				**62**	***58***		
Compactor (ground)	1	83	20%	150	68	61	64	5	320	62	55	58	5
Pumps	1	81	50%	250	62	59	62	5	420	58	55	58	5
Tractor/Loader/Backhoe	1	80	25%	250	61	55	58	5	420	57	50	53	5
Building Construction					**63**	***61***				**58**	***55***		
Air Compressor	1	78	40%	150	63	59	62	5	320	57	53	56	5
Cranes	1	81	16%	250	62	54	57	5	420	58	50	53	5
Forklift	1	75	10%	250	56	46	49	5	420	52	42	45	5
Vacuum Street Sweeper	1	82	10%	350	60	50	53	5	520	57	47	50	5
Paving					**75**	***70***				**69**	***64***		
Concrete Saw	1	90	20%	150	75	68	71	5	320	69	62	65	5
Graders	1	85	40%	250	66	62	65	5	420	62	58	61	5
Paver	1	77	50%	350	55	52	55	5	520	52	49	52	5
Other Equipment	1	85	50%	350	63	60	63	5	520	60	57	60	5
Roller	1	80	20%	350	58	51	54	5	520	55	48	51	5
Vacuum Street Sweeper	1	82	10%	350	60	50	53	5	520	57	47	50	5
Architectural Coating					**63**	***59***				**57**	***53***		
Air Compressor	1	78	40%	150	63	59	62	5	320	57	53	56	5
Maximum Noise Level (Overlapping Phases)						***71***					***65***		

Building Construction/Paving/Architectural Coating

Source for Ref. Noise Levels: LA CEQA Guides, 2006 & FHWA RCNM, 2005

Project: Mt Etna Affordable Housing Project

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	8	Daytime hours (7 am to 7 pm)
	0	Evening hours (7 pm to 10 pm)
	0	Nighttime hours (10 pm to 7 am)
Leq to L10 factor	3	

				ST-3					ST-4					LT-1				
				Site Preparation and Demolition														
Construction Phase **Equipment Type**	**No. of Equip.**	**Reference Noise Level at 50ft, Lmax**	**Acoustical Usage Factor**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**	**Distance (ft)**	**Lmax**	**Leq**	**L10**	**Estimated Noise Shielding, dBA**
Demo/Grading					**70**	***68***				**64**	***61***				**71**	***69***		
Excavator	3	81	40%	175	70	66	69	5	450	62	58	61	5	150	71	67	70	5
Concrete Saw	1	90	20%	275	70	63	66	5	550	64	57	60	5	250	71	64	67	5
Dozer	2	82	40%	375	63	59	62	5	650	58	54	57	5	350	63	59	62	5
Site Preparation					**65**	***66***				**59**	***59***				**66**	***67***		
Generator Sets	1	81	50%	175	65	62	65	5	450	57	54	57	5	150	66	63	66	5
Graders	1	85	40%	275	65	61	64	5	550	59	55	58	5	250	66	62	65	5
Roller	1	80	20%	375	57	51	54	5	650	53	46	49	5	350	58	51	54	5
Rubber Tired Loader	1	79	40%	375	56	53	56	5	650	52	48	51	5	350	57	53	56	5
Scrapers	1	84	40%	475	59	55	58	5	750	55	51	54	5	450	60	56	59	5
Tractor/Loader/Backhoe	2	80	25%	575	57	51	54	5	850	53	47	50	5	550	57	51	54	5
Grading/Excavation					**69**	***67***				**61**	***61***				**70**	***68***		
Front End Loader	4	79	40%	175	69	65	68	5	450	61	57	60	5	150	70	66	69	5
Excavator	1	81	40%	275	61	57	60	5	550	55	51	54	5	250	62	58	61	5
Graders	1	85	40%	375	62	59	62	5	650	58	54	57	5	350	63	59	62	5
Compactor (ground)	2	83	20%	475	61	54	57	5	750	57	50	53	5	450	62	55	58	5
Roller	1	80	20%	575	54	47	50	5	850	50	43	46	5	550	54	47	50	5
Rubber Tired Loader	1	79	40%	275	59	55	58	5	550	53	49	52	5	250	60	56	59	5
Tractor/Loader/Backhoe	2	80	25%	375	61	54	57	5	650	56	50	53	5	350	61	55	58	5
Drainage/Utilities/Trenching					**66**	***65***				**56**	***58***				**67**	***66***		
Air Compressor	1	78	40%	175	62	58	61	5	450	54	50	53	5	150	63	59	62	5
Front End Loader	2	79	40%	275	62	58	61	5	550	56	52	55	5	250	63	59	62	5
Excavator	1	81	40%	475	56	52	55	5	650	54	50	53	5	450	57	53	56	5
Forklift	1	75	10%	100	64	54	57	5	750	46	36	39	5	100	64	54	57	5
Compactor (ground)	2	83	20%	275	66	59	62	5	850	56	49	52	5	250	67	60	63	5
Rubber Tired Loader	1	79	40%	375	56	53	56	5	550	53	49	52	5	350	57	53	56	5
Tractor/Loader/Backhoe	2	80	25%	375	61	54	57	5	650	56	50	53	5	350	61	55	58	5
				Community Plan Amendment and Rezone														
Foundations/Concrete Pour					**67**	***63***				**59**	***56***				**68**	***64***		
Compactor (ground)	1	83	20%	175	67	60	63	5	450	59	52	55	5	150	68	61	64	5
Pumps	1	81	50%	275	61	58	61	5	550	55	52	55	5	250	62	59	62	5
Tractor/Loader/Backhoe	1	80	25%	275	60	54	57	5	550	54	48	51	5	250	61	55	58	5
Building Construction					**62**	***60***				**55**	***53***				**63**	***61***		
Air Compressor	1	78	40%	175	62	58	61	5	450	54	50	53	5	150	63	59	62	5
Cranes	1	81	16%	275	61	53	56	5	550	55	47	50	5	250	62	54	57	5
Forklift	1	75	10%	275	55	45	48	5	550	49	39	42	5	250	56	46	49	5
Vacuum Street Sweeper	1	82	10%	375	59	49	52	5	650	55	45	48	5	350	60	50	53	5
Paving					**74**	***69***				**66**	***62***				**75**	***70***		
Concrete Saw	1	90	20%	175	74	67	70	5	450	66	59	62	5	150	75	68	71	5
Graders	1	85	40%	275	65	61	64	5	550	59	55	58	5	250	66	62	65	5
Paver	1	77	50%	375	54	51	54	5	650	50	47	50	5	350	55	52	55	5
Other Equipment	1	85	50%	380	62	59	62	5	550	59	56	59	5	350	63	60	63	5
Roller	1	80	20%	480	55	48	51	5	650	53	46	49	5	450	56	49	52	5
Vacuum Street Sweeper	1	82	10%	480	57	47	50	5	650	55	45	48	5	450	58	48	51	5
Architectural Coating					**62**	***58***				**54**	***50***				**68**	***64***		
Air Compressor	1	78	40%	175	62	58	61	5	450	54	50	53	5	150	68	64	67	0
Maximum Noise Level (Overlapping Phases)						***70***					***62***					***69***		

Building Construction/Paving/Architectural Coating

Source for Ref. Noise Levels: LA CEQA Guides, 2006 & FHWA RCNM, 2005

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Haul Trucks
Source of Traffic Volumes:

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
Trips on Genessee Avenue	Hard	45	45	40	35	21	10	0	55.7
Trips on Balboa Avenue	Hard	45	45	40	35	21	10	0	55.7

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

Existing + Project		CNEL (dBA)			
Roadway Segment	**Existing Land Uses Located Along Roadway Segment**	**Existing**	**Existing with Project**	**Project Increment**	**Exceed Threshold?**
		(A)	**(B)**	**(B-A)**	
Genessee Avenue					
n/o Clairemont Mesa Boulevard	Residential/Commercial	71.9	71.9	0.1	No
between Clairemont Mesa Boulevard and Bannock Avenue	Residential/Commercial	71.4	71.4	0.1	No
between Bannock Avenue and Chateau Drive	Residential	71.6	71.7	0.1	No
between Chateau Drive and Mount Herbert Avenue	Residential	71.5	71.6	0.1	No
between Mount Herbert Avenue and Derrick Drive	Residential/Commercial	71.3	71.4	0.1	No
between Derrick Drive and Mount Etna Drive	Commercial	71.6	71.8	0.2	No
between Mount Etna Drive and Balboa Avenue	Commercial	71.7	71.9	0.3	No
between Balboa Avenue and Mount Alifan Drive	Residential/Commercial	71.1	71.1	0.1	No
s/o Mount Alifan Drive	Residential/Commercial/Educational	72.0	72.1	0.1	No
Mount Everest Drive					
s/o Mount Alifan Drive	Residential	62.2	63.9	1.7	No
Balboa Avenue					
between Clairemont Drive and Mount Everest Boulevard	Residential	73.1	73.1	0.1	No
between Mount Everest Boulevard and Genesee Avenue	Residential/Commercial	72.6	72.6	0.0	No
between Genesee Avenue and Shopping Center Driveway	Commercial	72.8	72.9	0.1	No
between Shopping Center Driveway and Mount Abernathy Avenue	Commercial	73.2	73.3	0.1	No
between Mount Abernathy Avenue and Cannington Drive	Residential/Commercial	73.7	73.8	0.1	No
between Cannington Drive and Charger Boulevard	Residential/Educational	73.9	74.0	0.1	No
between Charger Boulevard and I-805 Southbound Ramps	Residential/Religious	74.8	74.9	0.1	No
between I-805 Southbound Ramps and I-805 Northbound Ramps	Freeway Overpass	74.4	74.4	0.0	No
e/o I-805 Northbound Ramps	Commercial	74.6	74.6	0.0	No

Existing + Near Term (2021) Project		CNEL (dBA)			
Roadway Segment	**Existing Land Uses Located Along Roadway Segment**	**Future**	**Future with Project - 2021**	**Project Increment**	**Exceed Threshold?**
		(A)	**(B)**	**(B-A)**	
Genessee Avenue					
n/o Clairemont Mesa Boulevard	Residential/Commercial	71.9	72.0	0.1	No
between Clairemont Mesa Boulevard and Bannock Avenue	Residential/Commercial	71.4	71.5	0.1	No
between Bannock Avenue and Chateau Drive	Residential	71.7	71.8	0.1	No
between Chateau Drive and Mount Herbert Avenue	Residential	71.5	71.7	0.1	No
between Mount Herbert Avenue and Derrick Drive	Residential/Commercial	71.4	71.5	0.1	No
between Derrick Drive and Mount Etna Drive	Commercial	71.7	71.9	0.2	No
between Mount Etna Drive and Balboa Avenue	Commercial	71.8	72.0	0.3	No
between Balboa Avenue and Mount Alifan Drive	Residential/Commercial	71.6	71.7	0.1	No
s/o Mount Alifan Drive	Residential/Commercial/Educational	72.2	72.2	0.1	No
Mount Everest Drive					
s/o Mount Alifan Drive	Residential	62.2	63.9	1.7	No
Balboa Avenue					
between Clairemont Drive and Mount Everest Boulevard	Residential	73.2	73.3	0.1	No
between Mount Everest Boulevard and Genesee Avenue	Residential/Commercial	72.7	72.7	0.0	No
between Genesee Avenue and Shopping Center Driveway	Commercial	73.0	73.2	0.1	No
between Shopping Center Driveway and Mount Abernathy Avenue	Commercial	73.4	73.5	0.1	No
between Mount Abernathy Avenue and Cannington Drive	Residential/Commercial	74.0	74.1	0.1	No
between Cannington Drive and Charger Boulevard	Residential/Educational	74.1	74.2	0.1	No
between Charger Boulevard and I-805 Southbound Ramps	Residential/Religious	75.2	75.3	0.1	No
between I-805 Southbound Ramps and I-805 Northbound Ramps	Freeway Overpass	74.4	74.5	0.0	No
e/o I-805 Northbound Ramps	Commercial	74.6	74.6	0.0	No

Existing + Horizon (2050) Project		CNEL (dBA)			
Roadway Segment	**Existing Land Uses Located Along Roadway Segment**	**Future**	**Future with Project - 2050**	**Project Increment**	**Exceed Threshold?**
		(A)	**(B)**	**(B-A)**	
Genessee Avenue					
n/o Clairemont Mesa Boulevard	Residential/Commercial	73.0	73.0	0.0	No
between Clairemont Mesa Boulevard and Bannock Avenue	Residential/Commercial	72.0	72.1	0.1	No
between Bannock Avenue and Chateau Drive	Residential	72.2	72.2	0.1	No
between Chateau Drive and Mount Herbert Avenue	Residential	71.9	72.0	0.1	No
between Mount Herbert Avenue and Derrick Drive	Residential/Commercial	71.8	71.9	0.1	No
between Derrick Drive and Mount Etna Drive	Commercial	72.2	72.4	0.1	No
between Mount Etna Drive and Balboa Avenue	Commercial	72.4	72.6	0.2	No
between Balboa Avenue and Mount Alifan Drive	Residential/Commercial	71.7	71.7	0.1	No
s/o Mount Alifan Drive	Residential/Commercial/Educational	72.7	72.7	0.1	No
Mount Everest Drive					
s/o Mount Alifan Drive	Residential	63.4	64.8	1.4	No
Balboa Avenue					
between Clairemont Drive and Mount Everest Boulevard	Residential	73.7	73.7	0.1	No
between Mount Everest Boulevard and Genesee Avenue	Residential/Commercial	73.5	73.5	0.0	No
between Genesee Avenue and Shopping Center Driveway	Commercial	73.4	73.5	0.1	No
between Shopping Center Driveway and Mount Abernathy Avenue	Commercial	73.7	73.8	0.1	No
between Mount Abernathy Avenue and Cannington Drive	Residential/Commercial	74.1	74.2	0.1	No
between Cannington Drive and Charger Boulevard	Residential/Educational	74.1	74.2	0.1	No
between Charger Boulevard and I-805 Southbound Ramps	Residential/Religious	75.0	75.1	0.1	No
between I-805 Southbound Ramps and I-805 Northbound Ramps	Freeway Overpass	74.5	74.5	0.0	No
e/o I-805 Northbound Ramps	Commercial	74.8	74.8	0.0	No

Cumulative - 2021		CNEL (dBA)			
Roadway Segment	**Existing Land Uses Located Along Roadway Segment**	**Existing**	**Future with Project - 2021**	**Project Increment**	**Exceed Threshold?**
		(A)	**(B)**	**(B-A)**	
Genessee Avenue					
n/o Clairemont Mesa Boulevard	Residential/Commercial	71.9	72.0	0.2	No
between Clairemont Mesa Boulevard and Bannock Avenue	Residential/Commercial	71.4	71.5	0.2	No
between Bannock Avenue and Chateau Drive	Residential	71.6	71.8	0.2	No
between Chateau Drive and Mount Herbert Avenue	Residential	71.5	71.7	0.2	No
between Mount Herbert Avenue and Derrick Drive	Residential/Commercial	71.3	71.5	0.2	No
between Derrick Drive and Mount Etna Drive	Commercial	71.6	71.9	0.2	No
between Mount Etna Drive and Balboa Avenue	Commercial	71.7	72.0	0.4	No
between Balboa Avenue and Mount Alifan Drive	Residential/Commercial	71.1	71.7	0.6	No
s/o Mount Alifan Drive	Residential/Commercial/Educational	72.0	72.2	0.2	No
Mount Everest Drive					
s/o Mount Alifan Drive	Residential	62.2	63.9	1.7	No
Balboa Avenue					
between Clairemont Drive and Mount Everest Boulevard	Residential	73.1	73.3	0.3	No
between Mount Everest Boulevard and Genesee Avenue	Residential/Commercial	72.6	72.7	0.1	No
between Genesee Avenue and Shopping Center Driveway	Commercial	72.8	73.2	0.4	No
between Shopping Center Driveway and Mount Abernathy Avenue	Commercial	73.2	73.5	0.3	No
between Mount Abernathy Avenue and Cannington Drive	Residential/Commercial	73.7	74.1	0.4	No
between Cannington Drive and Charger Boulevard	Residential/Educational	73.9	74.2	0.4	No
between Charger Boulevard and I-805 Southbound Ramps	Residential/Religious	74.8	75.3	0.5	No
between I-805 Southbound Ramps and I-805 Northbound Ramps	Freeway Overpass	74.4	74.5	0.1	No
e/o I-805 Northbound Ramps	Commercial	74.6	74.6	0.1	No

Cumulative - 2050		CNEL (dBA)			
Roadway Segment	**Existing Land Uses Located Along Roadway Segment**	**Existing**	**Future with Project - 2050**	**Project Increment**	**Exceed Threshold?**
		(A)	**(B)**	**(B-A)**	
Genessee Avenue					
n/o Clairemont Mesa Boulevard	Residential/Commercial	71.9	73.0	1.2	No
between Clairemont Mesa Boulevard and Bannock Avenue	Residential/Commercial	71.4	72.1	0.7	No
between Bannock Avenue and Chateau Drive	Residential	71.6	72.2	0.6	No
between Chateau Drive and Mount Herbert Avenue	Residential	71.5	72.0	0.5	No
between Mount Herbert Avenue and Derrick Drive	Residential/Commercial	71.3	71.9	0.6	No
between Derrick Drive and Mount Etna Drive	Commercial	71.6	72.4	0.7	No
between Mount Etna Drive and Balboa Avenue	Commercial	71.7	72.6	1.0	No
between Balboa Avenue and Mount Alifan Drive	Residential/Commercial	71.1	71.7	0.7	No
s/o Mount Alifan Drive	Residential/Commercial/Educational	72.0	72.7	0.7	No
Mount Everest Drive					
s/o Mount Alifan Drive	Residential	62.2	64.8	2.5	No
Balboa Avenue					
between Clairemont Drive and Mount Everest Boulevard	Residential	73.1	73.7	0.7	No
between Mount Everest Boulevard and Genesee Avenue	Residential/Commercial	72.6	73.5	0.8	No
between Genesee Avenue and Shopping Center Driveway	Commercial	72.8	73.5	0.7	No
between Shopping Center Driveway and Mount Abernathy Avenue	Commercial	73.2	73.8	0.6	No
between Mount Abernathy Avenue and Cannington Drive	Residential/Commercial	73.7	74.2	0.5	No
between Cannington Drive and Charger Boulevard	Residential/Educational	73.9	74.2	0.4	No
between Charger Boulevard and I-805 Southbound Ramps	Residential/Religious	74.8	75.1	0.3	No
between I-805 Southbound Ramps and I-805 Northbound Ramps	Freeway Overpass	74.4	74.5	0.2	No
e/o I-805 Northbound Ramps	Commercial	74.6	74.8	0.3	No

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Existing
Source of Traffic Volumes: Chen Ryan, 2019

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,280	47	24	71.9
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,032	42	21	71.4
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,165	45	22	71.6
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,090	43	22	71.5
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,008	41	21	71.3
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,168	45	22	71.6
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,184	45	23	71.7
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	1,901	39	20	71.1
s/o Mount Alifan Drive	Hard	45	45	40	35	2,373	49	24	72.0
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	379	8	4	62.2
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	2,972	61	31	73.1
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	2,680	55	28	72.6
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	2,791	58	29	72.8
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,056	63	32	73.2
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,470	72	36	73.7
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,578	74	37	73.9
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,431	91	46	74.8
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,010	83	41	74.4
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,192	86	43	74.6

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Existing + Project
Source of Traffic Volumes:

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,313	48	24	71.9
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,079	43	21	71.4
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,215	46	23	71.7
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,143	44	22	71.6
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,059	42	21	71.4
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,248	46	23	71.8
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,325	48	24	71.9
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	1,938	40	20	71.1
s/o Mount Alifan Drive	Hard	45	45	40	35	2,407	50	25	72.1
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	566	12	6	64
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,023	62	31	73.1
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	2,680	55	28	72.6
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	2,882	59	30	72.9
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,147	65	32	73.3
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,558	73	37	73.8
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,667	76	38	74.0
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,519	93	47	74.9
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,056	84	42	74.4
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,236	87	44	74.6

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Existing (Alternative 2)
Source of Traffic Volumes: Chen Ryan, 2019

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,303	47	24	71.9
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,060	42	21	71.4
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,195	45	23	71.7
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,121	44	22	71.5
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,039	42	21	71.4
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,213	46	23	71.7
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,255	47	23	71.8
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	1,924	40	20	71.1
s/o Mount Alifan Drive	Hard	45	45	40	35	2,393	49	25	72.1
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	469	10	5	63.1
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,002	62	31	73.1
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	2,685	55	28	72.6
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	2,848	59	29	72.9
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,110	64	32	73.3
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,522	73	36	73.8
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,631	75	37	73.9
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,483	92	46	74.8
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,037	83	42	74.4
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,219	87	43	74.6

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Existing (Alternative 3)
Source of Traffic Volumes: Chen Ryan, 2019

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,303	47	24	71.9
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,060	42	21	71.4
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,195	45	23	71.7
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,121	44	22	71.5
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,039	42	21	71.4
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,212	46	23	71.7
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,233	46	23	71.8
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	1,924	40	20	71.1
s/o Mount Alifan Drive	Hard	45	45	40	35	2,392	49	25	72.1
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	448	9	5	62.9
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,002	62	31	73.1
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	2,702	56	28	72.6
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	2,848	59	29	72.9
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,110	64	32	73.3
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,522	73	36	73.8
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,631	75	37	73.9
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,483	92	46	74.8
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,037	83	42	74.4
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,219	87	43	74.6

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Near Term 2021
Source of Traffic Volumes:

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,330	48	24	71.9
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,069	43	21	71.4
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,201	45	23	71.7
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,126	44	22	71.5
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,044	42	21	71.4
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,209	46	23	71.7
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,232	46	23	71.8
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	2,151	44	22	71.6
s/o Mount Alifan Drive	Hard	45	45	40	35	2,451	51	25	72.2
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	379	8	4	62.2
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,101	64	32	73.2
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	2,749	57	28	72.7
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	2,956	61	30	73.0
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,191	66	33	73.4
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,688	76	38	74.0
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,808	79	39	74.1
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,906	101	51	75.2
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,085	84	42	74.4
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,213	87	43	74.6

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Near Term + Project 2021
Source of Traffic Volumes:

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,363	49	24	72.0
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,116	44	22	71.5
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,250	46	23	71.8
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,179	45	22	71.7
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,095	43	22	71.5
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,289	47	24	71.9
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,373	49	24	72.0
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	2,180	45	22	71.7
s/o Mount Alifan Drive	Hard	45	45	40	35	2,485	51	26	72.2
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	566	12	6	63.9
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,153	65	33	73.3
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	2,749	57	28	72.7
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	3,047	63	31	73.2
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,282	68	34	73.5
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,776	78	39	74.1
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,896	80	40	74.2
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,971	103	51	75.3
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,130	85	43	74.5
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,256	88	44	74.6

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Near Term + Project 2021 (Alternative 2)
Source of Traffic Volumes:

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,352	49	24	72.0
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,097	43	22	71.5
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,231	46	23	71.8
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,157	44	22	71.6
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,075	43	21	71.4
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,253	46	23	71.8
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,303	47	24	71.9
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	2,170	45	22	71.6
s/o Mount Alifan Drive	Hard	45	45	40	35	2,472	51	25	72.2
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	469	10	5	63.1
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,131	65	32	73.3
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	2,754	57	28	72.7
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	3,013	62	31	73.1
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,246	67	33	73.4
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,740	77	39	74.1
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,861	80	40	74.2
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,950	102	51	75.3
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,112	85	42	74.5
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,239	87	44	74.6

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Near Term + Project 2021 (Alternative 3)
Source of Traffic Volumes:

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,352	49	24	72.0
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,097	43	22	71.5
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,231	46	23	71.8
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,157	44	22	71.6
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,075	43	21	71.4
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,252	46	23	71.8
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,280	47	24	71.9
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	2,170	45	22	71.6
s/o Mount Alifan Drive	Hard	45	45	40	35	2,471	51	25	72.2
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	448	9	5	62.9
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,131	65	32	73.3
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	2,771	57	29	72.8
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	3,013	62	31	73.1
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,246	67	33	73.4
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,740	77	39	74.1
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,861	80	40	74.2
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,950	102	51	75.3
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,112	85	42	74.5
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,239	87	44	74.6

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Horizon Year 2050
Source of Traffic Volumes:

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,949	61	30	73.0
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,367	49	24	72.0
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,444	50	25	72.2
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,309	48	24	71.9
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,280	47	24	71.8
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,493	51	26	72.2
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,600	54	27	72.4
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	2,183	45	23	71.7
s/o Mount Alifan Drive	Hard	45	45	40	35	2,765	57	29	72.7
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	495	10	5	63.4
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,414	70	35	73.7
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	3,259	67	34	73.5
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	3,201	66	33	73.4
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,444	71	36	73.7
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,793	78	39	74.1
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,812	79	39	74.1
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,656	96	48	75.0
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,132	85	43	74.5
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,423	91	46	74.8

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Horizon Year + Project 2050
Source of Traffic Volumes:

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,982	61	31	73.0
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,413	50	25	72.1
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,494	51	26	72.2
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,361	49	24	72.0
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,331	48	24	71.9
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,573	53	27	72.4
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,740	57	28	72.6
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	2,219	46	23	71.7
s/o Mount Alifan Drive	Hard	45	45	40	35	2,798	58	29	72.7
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	681	14	7	64.8
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,466	71	36	73.7
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	3,259	67	34	73.5
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	3,292	68	34	73.5
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,535	73	36	73.8
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,881	80	40	74.2
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,900	80	40	74.2
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,721	97	49	75.1
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,178	86	43	74.5
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,467	92	46	74.8

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Horizon Year + Project 2050 (Alternative 2)
Source of Traffic Volumes:

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,971	61	31	73.0
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,395	49	25	72.1
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,474	51	26	72.2
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,340	48	24	72.0
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,311	48	24	71.9
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,538	52	26	72.3
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,670	55	28	72.5
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	2,205	45	23	71.7
s/o Mount Alifan Drive	Hard	45	45	40	35	2,785	57	29	72.7
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	585	12	6	64.1
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,444	71	36	73.7
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	3,264	67	34	73.5
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	3,258	67	34	73.5
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,498	72	36	73.8
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,845	79	40	74.2
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,864	80	40	74.2
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,700	97	48	75.1
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,159	86	43	74.5
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,449	92	46	74.8

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

TRAFFIC NOISE ANALYSIS TOOL

Project Name: SD Crime Lab Affordable Housing
Project Number: D150334.00
Analysis Scenario: Horizon Year + Project 2050 (Alternative 3)
Source of Traffic Volumes:

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
Genessee Avenue									
n/o Clairemont Mesa Boulevard	Hard	45	45	40	35	2,971	61	31	73.0
between Clairemont Mesa Boulevard and Bannock Avenue	Hard	45	45	40	35	2,395	49	25	72.1
between Bannock Avenue and Chateau Drive	Hard	45	45	40	35	2,474	51	26	72.2
between Chateau Drive and Mount Herbert Avenue	Hard	45	45	40	35	2,340	48	24	72.0
between Mount Herbert Avenue and Derrick Drive	Hard	45	45	40	35	2,311	48	24	71.9
between Derrick Drive and Mount Etna Drive	Hard	45	45	40	35	2,537	52	26	72.3
between Mount Etna Drive and Balboa Avenue	Hard	45	45	40	35	2,648	55	27	72.5
between Balboa Avenue and Mount Alifan Drive	Hard	45	45	40	35	2,205	45	23	71.7
s/o Mount Alifan Drive	Hard	45	45	40	35	2,784	57	29	72.7
Mount Etna Drive									
s/o Mount Alifan Drive	Hard	25	30	30	30	564	12	6	63.9
Balboa Avenue									
between Clairemont Drive and Mount Everest Boulevard	Hard	45	45	40	40	3,444	71	36	73.7
between Mount Everest Boulevard and Genesee Avenue	Hard	45	45	40	40	3,282	68	34	73.5
between Genesee Avenue and Shopping Center Driveway	Hard	45	45	40	40	3,258	67	34	73.5
between Shopping Center Driveway and Mount Abernathy Avenue	Hard	45	45	40	40	3,498	72	36	73.8
between Mount Abernathy Avenue and Cannington Drive	Hard	45	45	40	40	3,845	79	40	74.2
between Cannington Drive and Charger Boulevard	Hard	45	45	40	40	3,864	80	40	74.2
between Charger Boulevard and I-805 Southbound Ramps	Hard	45	45	40	40	4,700	97	48	75.1
between I-805 Southbound Ramps and I-805 Northbound Ramps	Hard	45	45	40	40	4,159	86	43	74.5
e/o I-805 Northbound Ramps	Hard	45	45	40	40	4,449	92	46	74.8

Model Notes:
The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).
The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.
Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.
Noise propagation greater than 50 feet is based on the following assumptions:
For hard ground, the propagation rate is 3 dB per doubling the distance.
For soft ground, the propagation rate is 4.5 dB per doubling the distance.
Vehicles are assumed to be on a long straight roadway with cruise speed.
Roadway grade is less than 1.5%.

Appendix I
Traffic Appendix

ESA

I-1 Traffic Impact Study

Transportation Impact Study

Mt. Etna – Clairemont Mesa Community Plan Amendment and Zone Change

Prepared for:

ESA

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May 2019

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Executive Summary

ES.1 Study Purpose and Project Description

The purpose of this Transportation Impact Study (TIS) is to identify and document potential transportation related impacts associated with the proposed county-initiated Clairemont Mesa Community Plan Amendment and Zone Change (Proposed Project), as well as to recommend mitigation measures, as necessary.

The Proposed Project would allow for the redevelopment the existing County's Crime Lab site, located at 5255 Mt Etna Drive, San Diego, CA 92117, into a maximum of 448 multi-family units of which 100 percent would be affordable. In addition, a minimum of 1,500 square foot portion of the Proposed Project is expected to allow for community support services would also be permitted under the Clairemont Mesa Community Plan Amendment (CPA) and Zone Change Project. Additionally, the community support services could potentially be used for retail, so 10,000 square feet of neighborhood supporting retail was included in the analysis. While it's likely that the retail would not be built to that full extent, it provides a more conservative analysis, and the transportation impacts might be slightly overstated. Demolition of the existing and vacated Crime Lab building and associated landscaping and utilities is a part of the Proposed Project, as is rough grading of the project site following demolition. The project requires a CPA to re-designate the site from Community Commercial to Residential-High (45-73 dwelling units/acre) and propose a zone change from CO-1-2 to RM-3-9. This TIS presents a worst-case analysis of a future residential development project that would be allowed by the Community Plan Amendment and Zone Change.

Although currently unknown, the project is expected to take access via a single driveway located along Mt Etna Drive.

ES.2 Project Trip Generation, Distribution and Study Methodology

The Proposed Project trip generation estimates were derived utilizing the trip generation rates outlined in *Table 1* of the *City of San Diego Land Development Code – Trip Generation Manual 2003*. Due to the commercial component of the Project, the driveway rates and cumulative rates were both used to derive the Project's total trip generation to reflect the commercial's pass-by trips. The driveway rate for the commercial use was applied to the project driveway, as well as roadways and intersections immediately adjacent to the project site (i.e. intersections 6 and 7 in Figure 1-2). Cumulative rates were applied to all other study roadways and intersections.

Additionally, trip reductions from the City's Traffic Impact Study Manual were applied to the residential trip estimates:

Mixed-Use Land Uses Reductions

For developments that include several different types of land use, such as the Proposed Project that has residential units and community supporting retail, it is likely that a resident would utilize the retail uses in lieu of leaving the site, resulting in a reduction in trips generated. Furthermore, the Project site is located immediately adjacent to the largest commercial retail center in

Clairemont Mesa. Large businesses such as Target, Kohls, Sprouts, and Walgreens as well as restaurant dining and banking are all located within walking distance (i.e. less than ¼ a mile) of the project site location. A mixed-use reduction, also known as trip internalization, would reduce the number of trips to the site compared to the trips generated by uses in an isolated situation.

Given the Project's mixed uses and the extremely close proximity to other mixed-use developments, the following reductions were applied:

- Daily = 10%
- AM Peak Hour = 8%
- PM Peak Hour = 10%

Transit Reductions
The Project is located in a Transit Oriented Development (TOD) area, with high frequency transit services immediately adjacent to the site on Genesee Avenue. Bus Route # 41 is serviced along Genesee Avenue operating with 15-minute headways during peak hours and bus route #27 is serviced along Balboa Avenue operating with 30-minutes headways during peak hours. Transit stops for Bus Routes #41 and #27 are each within 400 feet of the Project site. Consequently, the following transit reductions were applied to account for residents using transit in lieu of driving:

- Daily = 5%
- AM Peak Hour = 9%
- PM Peak Hour = 6%

The Proposed Project is anticipated to generate a total of 3,485 daily trips, including 228 (65-in / 163-out) AM peak hour trips and 335 (207-in / 128-out) PM peak hour trips using driveway rates. These estimates were added onto the project driveway, as well as the roadways and intersections immediately adjacent to the project driveway.

The Proposed Project is anticipated to generate a total of 3,005 daily trips, including 209 (53-in / 156-out) AM peak hour trips and 283 (181-in / 102-out) PM peak hour trips using cumulative rates. These estimates were added to the study roadways and intersections within in the study area, not immediately adjacent to the project driveway.

Based on Traffic Impact Study Guidelines for the City of San Diego, a Select Zone analysis is required for trip distribution if the Proposed Project generates more than 2,400 average daily trips. Since the Proposed Project is anticipated to generate more than 2,400 daily trips, the trip distribution for the Proposed Project was developed based on a SANDAG Series 13 Transportation Forecast Select Zone Assignment. This model was developed and is being used for the on-going Clairemont Community Plan Update. Additionally, the Project's traffic analysis zone (TAZ) land use was updated to include the proposed land uses.

Based on the project trip assignment and the standards set by the City of San Diego's Traffic Impact Study Guidelines, the facilities included within the Project's key study area are listed below:

The following 20 key study area roadway segments were analyzed in this study:

1. Genesee Avenue between Appleton Street & Clairemont Mesa Boulevard;
2. Genesee Avenue between Clairemont Mesa Boulevard & Bannock Avenue;
3. Genesee Avenue between Bannock Avenue & Chateau Drive;

4. Genesee Avenue between Chateau Drive & Mount Herbert Avenue;
5. Genesee Avenue between Mount Herbert Avenue & Derrick Drive;
6. Genesee Avenue between Derrick Drive & Mount Etna Drive;
7. Genesee Avenue between Mount Etna Drive & Balboa Avenue;
8. Genesee Avenue between Balboa Avenue & Mount Alifan Drive;
9. Genesee Avenue between Mount Alifan Drive & Genesee Court;
10. Mount Everest Boulevard between Mount Etna Drive & Balboa Avenue;
11. Mount Etna Drive between Mount Everest Boulevard & Genesee Avenue;
12. Balboa Avenue between Clairemont Drive & Mount Everest Boulevard;
13. Balboa Avenue between Mount Everest Boulevard & Genesee Avenue;
14. Balboa Avenue between Genesee Avenue & Shopping Center Driveway;
15. Balboa Avenue between Shopping Center Driveway & Mount Abernathy Avenue;
16. Balboa Avenue between Mount Abernathy Avenue & Cannington Drive;
17. Balboa Avenue between Cannington Drive & Charger Boulevard;
18. Balboa Avenue between Charger Boulevard & I-805 Southbound Ramps;
19. Balboa Avenue between I-805 Southbound & I-805 Northbound Ramps; and
20. Balboa Avenue between I-805 Northbound Ramps and Ruffner Street.

The following eighteen (18) key study area intersections were analyzed in the study:

1. Genesee Avenue & Clairemont Mesa Boulevard (Signal);
2. Genesee Avenue & Bannock Avenue (Signal);
3. Genesee Avenue & Chateau Drive (Signal);
4. Genesee Avenue & Mt Herbert Avenue (Signal);
5. Genesee Avenue & Derrick Drive (Signal);
6. Mt Everest Boulevard & Mt Etna Drive (All-Way Stop Controlled);
7. Genesee Avenue & Mt Etna Drive (Signal);
8. Clairemont Drive & Balboa Avenue (Signal);
9. Mt Everest Boulevard & Balboa Avenue (Signal);
10. Genesee Avenue & Balboa Avenue (Signal);
11. Shopping Center Driveway & Balboa Avenue (Signal);
12. Mt Abernathy Avenue & Balboa Avenue (Signal);
13. Cannington Drive & Balboa Avenue (Signal);
14. Charger Boulevard & Balboa Avenue (Signal);
15. I-805 Southbound Ramps & Balboa Avenue (Signal);
16. I-805 Northbound Ramps & Balboa Avenue (Signal);
17. Genesee Avenue & Mt Alifan Drive (Signal); and
18. Project Driveway & Mt Etna Drive (Side-Street Stop Controlled).

It should be noted that the Proposed Project would not contribute enough traffic (150 peak hour trips in a single direction) to require analysis of Interstate 805 (I-805) freeway.

ES.3 Project Impacts and Mitigation Measures

Based on the significance criteria contained in the *City of San Diego Significance Determination Thresholds,* (January 2011), the timing of the required mitigation measures associated with the development of the Proposed Project was analyzed under the following three scenarios:

- Existing Plus Project Conditions
- Near-Term Base (Year 2021) Plus Project Conditions
- Horizon Year 2050 Base Plus Project Conditions

Existing Plus Project

Under this scenario, the Proposed Project's traffic volumes were added to the existing traffic volumes. This scenario is required for the environmental assessment of substantive land use or roadway network modifications and provides decision-makers and the public with development impacts referenced to an "observable" baseline.

This hypothetical scenario isolates the potential impacts of the Project by eliminating the impacts from both ambient growth and other Proposed Projects. Therefore, the Existing Plus Project analysis is presented for informational purposes only.

Near-Term Year 2021 Plus Project (Direct Impacts)

Based upon the significance criteria presented in Section 2.5 of this report, the addition of project traffic would cause a significant direct impact to three (3) roadway segments, four (4) intersections, and no ramp meters under Near-Term Year 2021 (project opening year) Plus Project conditions. The following mitigation measures would be required to mitigate the project impact to less than significant:

Roadways:

These roadways are currently built to their ultimate classifications (classification designation in the adopted Community Plan) and anticipated to operate at LOS E or F with the addition of the Proposed Project's trips. The arterial level of service and/or the connecting intersections of these segments are also anticipated to operate at unacceptable LOS E or F conditions. Consequently, the following three (3) roadways are considered to have a significant direct impact:

Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue

- Provide additional right-of-way and widen the roadway from a 2-Lane Collector to a 2-Lane Collector with a Continuous-Left-Turn-Lane (or construct left turn pocket where needed) prior to the project's total trip generation of 2,077 ADT.

This roadway is along the Project's frontage, so providing a separate left-turn lane into the Project site would provide additional capacity and would fully mitigate the significant traffic impact associated with the Proposed Project. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the classification of this roadway, additional right-of-way would be required to implement this measure; therefore, this impact would remain *significant and unavoidable*.

Balboa Avenue, between Cannington Drive and Charger Boulevard

- Reclassify the roadway from a 6-Lane Major Arterial to a 6-Lane Primary Arterial prior to the project's total trip generation of 1,811 ADT.

The significant traffic impact associated with the Proposed Project along this roadway would be fully mitigated with the implementation of this measure. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the existing land use fronting this roadway (i.e. residential and school uses) as well as the right-of-way constraints, a classification upgrade would not be feasible. Therefore, this impact would remain *significant and unavoidable*.

Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps

- Reclassify the roadway from a 6-Lane Major Arterial to a 6-Lane Expressway prior to the project's total trip generation of 1,561 ADT.

The significant traffic impact associated with the Proposed Project along this roadway would be fully mitigated with the implementation of this measure. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the planned classification of this roadway, additional right-of-way would be required to implement this measure. Therefore, this impact would remain *significant and unavoidable*.

Intersections:

The traffic generated by the Proposed Project is anticipated to create a direct impact at the following four (4) intersections:

1. *Genesee Avenue & Clairemont Mesa Boulevard* – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 2,100 ADT.

   The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

8. *Clairemont Drive & Balboa Avenue* - Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 2,700 ADT.

The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

9. *Mt Everest Boulevard & Balboa Avenue* – Restripe the northbound and southbound approaches on Mt Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing. This improvement must be implemented prior to the project's total trip generation of 300 ADT. Implementing this improvement could be done within the existing right-of-way and would reduce intersection delays to pre-Project conditions. However, the County of San Diego cannot guarantee improvements to an intersection under the jurisdiction of the City of San Diego; therefore, this impact would remain *significant and unavoidable*.

14. *Charger Boulevard & Balboa Avenue* – Restripe the northbound shared through-left turn lane into an exclusive through lane and convert the northbound and southbound signal from split phasing to protective phasing prior to the project's total trip generation of 1,850 ADT. Implementing this improvement would reduce intersection delays to pre-Project conditions. However, the County of San Diego cannot guarantee improvements to an intersection under the jurisdiction of the City of San Diego; therefore, this impact would remain *significant and unavoidable*.

Ramp Meters:

No identified impacts. Therefore, not mitigation is required.

Horizon Year 2050 Base Plus Project

Based upon the significance criteria presented in Section 2.5 of this report, the addition of project traffic would cause significant cumulative impact to three (3) roadway segments, five (5) intersections, and no ramp meters under Horizon Year 2050 Plus Project conditions. The following mitigation measures would be required to mitigate the project impact to less than significant:

Roadways:

These roadways are anticipated to operate at LOS E or F with the addition of the Proposed Project's trips. The arterial level of service and/or the connecting intersections of these segments are also anticipated to operate at unacceptable LOS E or F conditions. Consequently, the following three (3) roadways are considered to have a significant cumulative impact:

Mt Everest Boulevard, between Mt Etna Drive and Balboa Avenue

- Provide additional right-of-way and widen the roadway from a 2-Lane Collector to a 2-Lane Collector with a Continuous-Left-Turn-Lane (or construct left turn pocket where needed) prior to the project's total trip generation of 2,852 of ADT.

The significant traffic impact associated with the Proposed Project along this roadway would be fully mitigated with the implementation of this measure. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the planned classification of this roadway, additional right-of-way would be required to implement this measure. Therefore, this impact would remain *significant and unavoidable*.

Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue

- Provide additional right-of-way and widen the roadway from a 2-Lane Collector to a 2-Lane Collector with a Continuous-Left-Turn-Lane (or construct left turn pocket where needed) prior to the project's total trip generation of 1,399 ADT.

This roadway is along the Project's frontage, so providing a separate left-turn lane into the Project site would provide additional capacity and would fully mitigate the significant traffic impact associated with the Proposed Project. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the classification of this roadway, additional right-of-way would be required to implement this measure; therefore, this impact would remain *significant and unavoidable*.

Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps

- Reclassify the roadway from a 6-Lane Major Arterial to a 6-Lane Expressway prior to prior to the project's total trip generation of 1,561 ADT.

The significant traffic impact associated with the Proposed Project along this roadway would be fully mitigated with the implementation of this measure. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the planned classification of this roadway, additional right-of-way would be required to implement this measure. Therefore, this impact would remain *significant and unavoidable*.

Intersections:

The following mitigation measures are requirement to mitigate the project intersection impact to less than significant:

1. Genesee Avenue & Clairemont Mesa Boulevard – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 800 ADT.

The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

8. Clairemont Drive & Balboa Avenue - Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 1,300 ADT.

   The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

9. Mt Everest Boulevard & Balboa Avenue – Restripe the northbound and southbound approaches on Mt Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing. This improvement must be implemented prior to the project's total trip generation of 725 ADT. Implementing this improvement could be done within the existing right-of-way and would reduce intersection delays to pre-Project conditions. However, the County of San Diego cannot guarantee improvements to an intersection under the jurisdiction of the City of San Diego; therefore, this impact would remain *significant and unavoidable*.

10. Genesee Avenue & Balboa Avenue – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 600 ADT.

    The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define

the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

14. Charger Boulevard & Balboa Avenue – Restripe the northbound shared through-left turn lane into an exclusive through lane and convert the northbound and southbound signal from split phasing to protective phasing prior to the project's total trip generation of 1,050 ADT. Implementing this improvement would reduce intersection delays to pre-Project conditions. However, the County of San Diego cannot guarantee improvements to an intersection under the jurisdiction of the City of San Diego; therefore, this impact would remain *significant and unavoidable*.

Ramp Meters:
No identified impacts. Therefore, not mitigation is required.

ES.4 On-Site Circulation, Access and Parking

Although currently unknown, the Proposed Project is expected to take access via a single driveway on Mt Etna Drive. The driveway would be side-street stop-controlled, and would operate at acceptable LOS A under all project study scenarios.

The Proposed Project must provide the appropriate amount of parking per the City's municipal code (Article 2, Division 5 Parking Regulations, Table 142-05D). However, the City of San Diego's *Proposed Parking Regulatory Reform for Multifamily Residential Development in Transit Priority Areas (TPAs)* (March 2019) project was recently approved by City Council on March 4, 2019. This study recommended that residential developments within TPAs are given zero minimum parking requirements. The ordinance was approved by the City Council in March 2019.

ES.5 Active Transportation and Transit Impacts

Potential impacts relating to pedestrian, bicycle and transit circulation would be considered significant if the Proposed Project would substantially increase hazards due to a design feature, or would conflict with the adopted policies plans, or programs supporting alternative transportation, as outlined in Appendix G of the *California Environmental Quality Act (CEQA) Guidelines*. Based on an initial review of the project site plan, the Proposed Project would not generate any significant impacts associated with pedestrian, bicycle or transit facilities.

ES.6 Travel Demand Management

Implementation of a travel demand management (TDM) plan could lead to vehicle trip reduction, increased use of alternative modes, and better traffic management in the Project area. The following TDM measures are recommended:

1. Provide wayfinding signage to guide residents/retail patrons to/from bus stops on Genesee Avenue and Balboa Avenue. Exact signage location and type to be determine with coordination with City staff.

2. Provide secure bicycle parking within the Project site. Parking racks should

accommodate U-locks.

3. Designate a Transportation Coordinator (such as a board member of the homeowner's association, a consultant, or a property management company representative) to monitor the TDM Program. The Transportation Coordinator will be responsible for developing, marketing, implementing, and evaluating the proposed TDM measures included in this Plan.

4. Provide Electric Vehicle (EV) charging stations.

5. Implement raised crosswalks and curb extensions at the Genesee Avenue and Balboa Avenue intersection.

ES.7 Vehicle Miles Traveled (VMT)

Transportation is a major contributor to GHG emissions and a direct result of population and employment growth, which generates vehicle trips to move goods, provides public services, and connects people with work, school, shopping, and other activities. Growth in travel (especially vehicle travel) is due in large part to urban development patterns (i.e., the built environment). A performance measure used to quantify the amount of travel is Vehicle Miles Traveled (VMT).

The VMT estimates were derived from the SANDAG Series 13 travel demand (TDF) model that was prepared for the current adopted Community Plan Update, and was used in this analysis to estimate the Project's trip distribution and to develop the Horizon Year 2050 traffic volumes. According to the model, the regional average daily VMT per capita for residents and employees is 14.3 and 21.3, respectively. The Proposed Project's VMT would be 12.7 and 17.2 for residents and employees, respectively, which is both lower than the regional average. Given that the City has not yet adopted a significance criterion for the impending SB 743, the VMT analysis is used solely for informational purposes and not used to identify impacts.

1.0 Introduction

1.1 Purpose of the Report

The purpose of this Transportation Impact Study (TIS) is to identify and document potential transportation related impacts associated with the proposed Clairemont Mesa Community Plan Amendment and Zone Change project, as well as to recommend mitigation measures, as necessary, for any identified transportation related impacts of the Proposed Project.

1.2 Study Area and Project Background

The Proposed Project would allow for the redevelopment the existing County's Crime Lab site, located at 5255 Mt Etna Drive, San Diego, CA 92117, into a maximum of 448 multi-family units of which 100 percent would be affordable. In addition, a minimum of 1,500 square foot portion of the Proposed Project is expected to allow for community support services would also be permitted under the Clairemont Mesa Community Plan Amendment (CPA) and Zone Change Project. Additionally, the community support services could potentially be used for retail, so 10,000 square feet of neighborhood supporting retail was included in the analysis. While it's likely that the retail would not be built to that full extent, it provides a more conservative analysis, and the transportation impacts might be slightly overstated. Demolition of the existing and vacated Crime Lab building and associated landscaping and utilities is a part of the Proposed Project, as is rough grading of the project site following demolition. The project requires a CPA to re-designate the site from Community Commercial to Residential-High (45-73 dwelling units/acre) and propose a zone change from CO-1-2 to RM-3-9. This TIS presents a worst-case analysis of a future residential development project that would be allowed by the Community Plan Amendment and Zone Change.

Although currently unknown, the project is expected to take access via a single driveway located along Mt Etna Drive.

Figure 1-1 displays the project regional location and **Figure 1-2** illustrates the project study area.

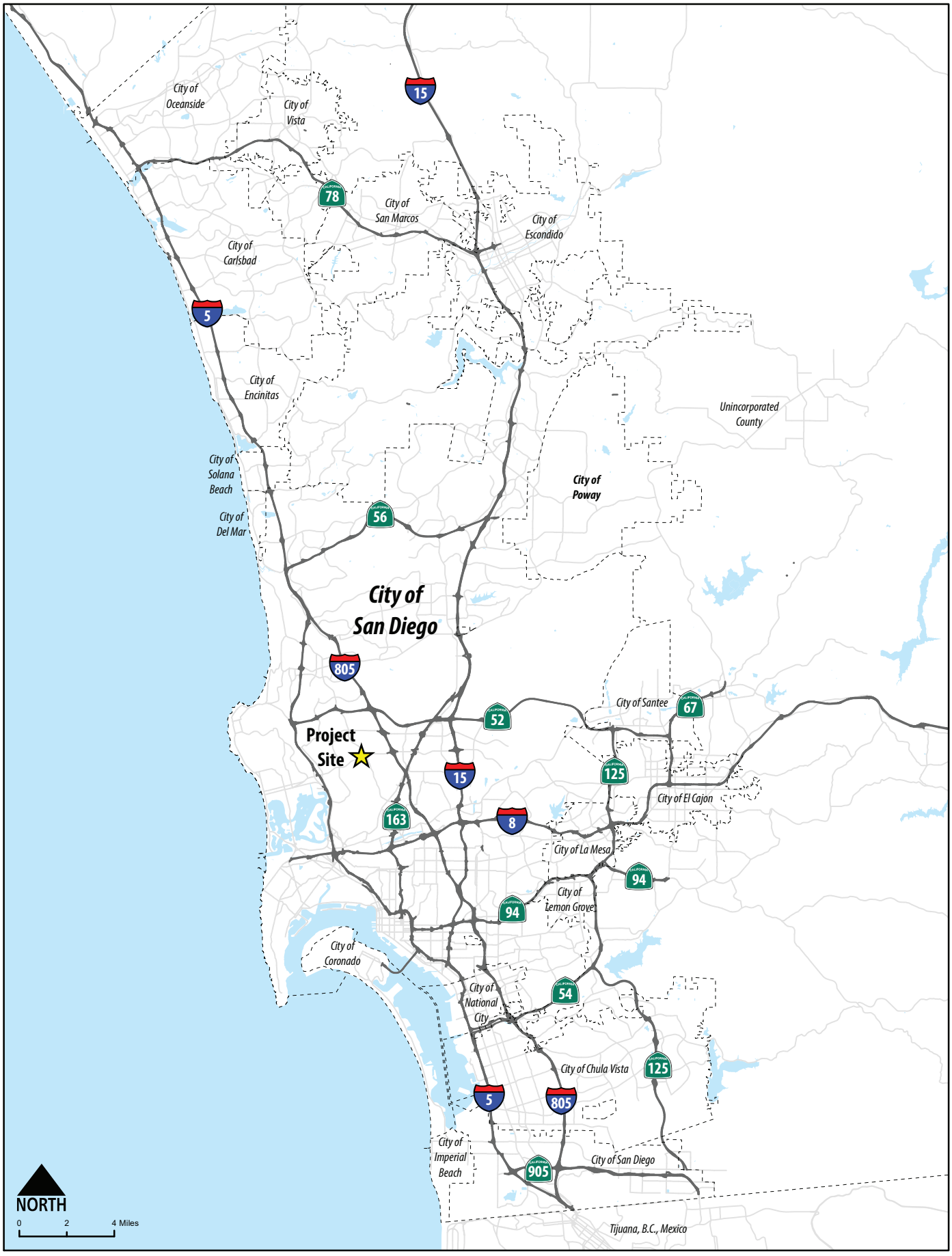
Six (6) scenarios were analyzed in this study, including:

- Existing Conditions – utilized to establish the existing baseline traffic operations within the project study area.
- Existing Plus Project Conditions – represents existing traffic conditions with the addition of the traffic from the Proposed Project.
- Near-Term Base (Year 2021) Conditions – establishes a near-term baseline against which traffic generated by the Proposed Project can be compared. Base conditions include traffic generated from nearby developing projects that are expected to be constructed and occupied before the Proposed Project. The Year 2021 represents the proposed opening year for the Proposed Project.

- Near-Term Base (Year 2021) Plus Project Conditions – represents 2021 baseline traffic conditions with the addition of traffic generated by the Proposed Project.

- Horizon Year 2050 Base Conditions – represents projected long-range baseline traffic conditions for the Year 2050. Volumes for Year 2050 Base conditions would be derived from the currently Clairemont Mesa Adopted Community Plan.

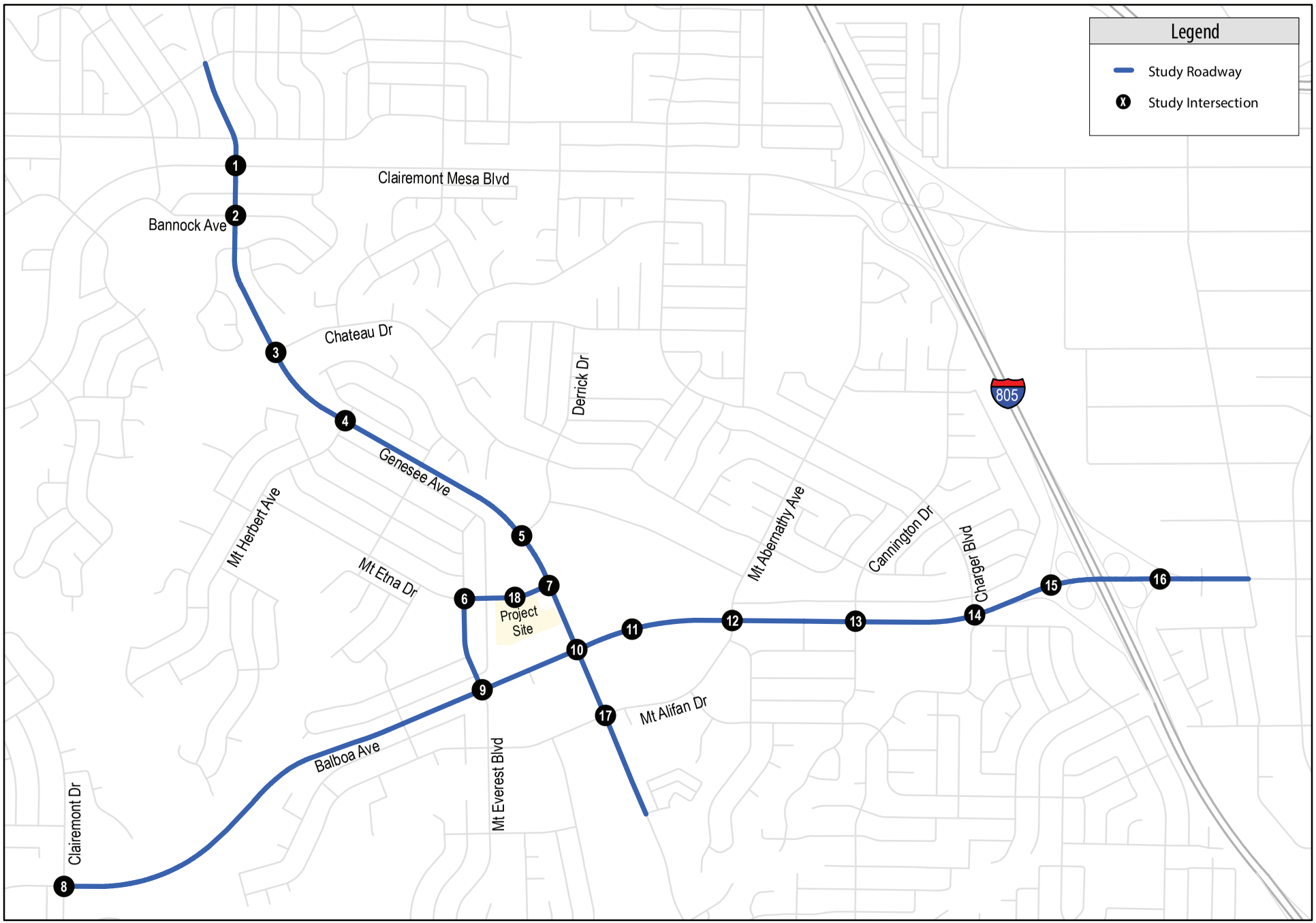
- Horizon Year 2050 Base Plus Project Conditions – represents Year 2050 base traffic conditions with the addition of traffic generated by the Proposed Project.



Clairemont Mesa Community Plan Amendment and Zone Change - Transportation Impact Study

CHEN RYAN

Figure 1-1
Project Location



Clairemont Mesa Community Plan Amendment and Zone Change - Transportation Impact Study

CHEN RYAN

Figure 1-2
Project Study Area

This traffic analysis was performed in accordance with *City of San Diego (City) Traffic Impact Study Manual, July 1998* (TIS Manual). The City of San Diego guidelines require that the defined study area include roadway segments, and intersections where the Proposed Project would add 50 or more peak hour trips in either direction, any metered freeway ramps where the project would add 20 or more peak hour trips, as well as all freeway segments where the Proposed Project would add 150 or more peak hour trips in either direction.

The proposed Clairemont Mesa Community Plan Amendment and Zone Change project would not contribute more than 150 peak hour trips on Interstate 5 (I-5) or Interstate 805 (I-805). Therefore, freeway impact analyses, as specified in the City's TIS Manual, were not conducted.

Mitigation measures and required site access improvements to maintain acceptable transportation operations were also documented as part of this analysis. The roadway segment analyses included herein are based upon the Level of Service (LOS) criteria outlined in the City's TIS Manual. The City's LOS standards are included in Chapter 2.

1.3 Report Organization

Following this Introduction chapter, this report is organized into the following chapters:

2.0 Analysis Methodology – This chapter describes the methodologies and standards utilized to analyze roadway and intersection traffic conditions.

3.0 Project Description – This chapter describes the Proposed Project including project traffic generation, trip distribution patterns, and project trip assignments.

4.0 Existing Conditions – This chapter describes the existing transportation network within the study area and provides analysis results for existing traffic conditions.

5.0 Existing Plus Project Conditions – This chapter describes the existing traffic network with the addition of the Proposed Project. Mitigation measures, if necessary, for project-related impacts are also identified.

6.0 Near-Term Base (Year 2021) Traffic Conditions – This chapter describes near-term developments anticipated to generate additional study area trips by Year 2021, the Proposed Project opening year. Analysis results are provided for the Year 2021 Base and Year 2021 Base Plus Project conditions, along with recommended mitigation measures (if necessary).

7.0 Horizon Year 2050 Traffic Conditions – This chapter describes projected long-range future cumulative traffic conditions. Traffic analysis results are presented for the Year 2050 Base and Year 2050 Base Plus Project conditions. Mitigation measures for project-related impacts are identified for Horizon Year 2050 Base Plus Project Conditions (if necessary).

8.0 On-Site Circulation and Parking – This chapter addresses access to the project site by all modes, and on-site circulation based on the proposed site plan. This section also discusses the required and provided parking within the project site.

9.0 Other Modes – This chapter describes active transportation facilities and transit facilities within the project study area.

10.0 Travel Demand Management (TDM) – This chapter describes potential Travel Demand Management measures that could be implemented by the Proposed Project to reduce Project related vehicle trips.

11.0 Vehicle Miles Travelled (VMT) – This chapter describes the Proposed Project's VMT in comparison to the regional average VMT.

2.0 Analysis Methodology

This TIS was performed in accordance with the requirements of the *City of San Diego Traffic Impact Study Manual, July 1998* and the *City of San Diego Significance Determination Thresholds, January 2011*. Detailed information on roadway segment and intersection analysis methodologies, standards, and thresholds are discussed in the following sections.

2.1 Level of Service Definition

Level of Service (LOS) is a quantitative measure describing operational conditions within a traffic stream, and the motorist's and/or passengers' perception of operations. A LOS definition generally describes these conditions in terms of such factors as delay, speed, travel time, freedom to maneuver, interruptions in traffic flow, queuing, comfort, and convenience. **Table 2.1** describes generalized definitions of the various LOS categories (A through F) as applied to roadway operations.

Table 2.1 Level of Service Definitions

LOS Category	Definition of Operation
A	This LOS represents a completely free-flow condition, where the operation of vehicles is virtually unaffected by the presence of other vehicles and only constrained by the geometric features of the highway and by driver preferences.
B	This LOS represents a relatively free-flow condition, although the presence of other vehicles becomes noticeable. Average travel speeds are the same as in LOS A, but drivers have slightly less freedom to maneuver.
C	At this LOS the influence of traffic density on operations becomes marked. The ability to maneuver within the traffic stream is clearly affected by other vehicles.
D	At this LOS, the ability to maneuver is notably restricted due to traffic congestion, and only minor disruptions can be absorbed without extensive queues forming and the service deteriorating.
E	This LOS represents operations at or near capacity. LOS E is an unstable level, with vehicles operating with minimum spacing for maintaining uniform flow. At LOS E, disruptions cannot be dissipated readily thus causing deterioration down to LOS F.
F	At this LOS, forced or breakdown of traffic flow occurs, although operations appear to be at capacity, queues form behind these breakdowns. Operations within queues are highly unstable, with vehicles experiencing brief periods of movement followed by stoppages.

Source: Highway Capacity Manual 2010

2.2 Roadway Segment Level of Service Standards and Thresholds

Roadway segment LOS standards and thresholds provide the basis for analysis of arterial roadway segment performance. The analysis of roadway segment LOS is based on the functional classification of the roadway, the maximum capacity, roadway geometrics, and existing or forecast Average Daily Traffic (ADT) volumes. **Table 2.2** presents the roadway segment capacity and LOS standards utilized to analyze roadways evaluated in this report. The actual capacity of a roadway facility varies according to its physical attributes. LOS D is considered acceptable within the City of San Diego. Typically, the performance and level of service of a roadway segment is heavily influenced by the ability of the arterial intersections to accommodate peak hour volumes.

Table 2.2 City of San Diego - Roadway Classifications and LOS Standards

Roadway Functional Classification	Lanes	Level of Service				
		A	B	C	D	E
Freeway	8	60,000	84,000	120,000	140,000	150,000
Freeway	6	45,000	63,000	90,000	110,000	120,000
Freeway	4	30,000	42,000	60,000	70,000	80,000
Expressway	6	30,000	42,000	60,000	70,000	80,000
Prime Arterial	8	35,000	50,000	70,000	75,000	80,000
Prime Arterial	6	25,000	35,000	50,000	55,000	60,000
Major Arterial	7	22,500	31,500	45,000	50,000	55,000
Major Arterial	6	20,000	28,000	40,000	45,000	50,000
Major Arterial	5	17,500	24,500	35,000	40,000	45,000
Major Arterial	4	15,000	21,000	30,000	35,000	40,000
Major Arterial	3	11,250	15,750	22,500	26,250	30,000
Major Arterial	2	7,500	10,500	15,000	17,500	20,000
Major Arterial (one-way)	3	12,500	16,500	22,500	25,000	27,500
Major Arterial (one-way)	2	10,000	13,000	17,500	20,000	22,500
Collector (w/ two-way Left-Turn lane)	4	10,000	14,000	20,000	25,000	30,000
Collector (w/ two-way Left-Turn lane)	3	7,500	10,500	15,000	18,750	22,500
Collector (w/ two-way Left-Turn lane)	2	5,000	7,000	10,000	13,000	15,000
Collector (w/o two-way Left-Turn lane)	4	5,000	7,000	10,000	13,000	15,000
Collector (w/o two-way Left-Turn lane)	3	4,000	5,000	7,500	10,000	11,000
Collector (w/o two-way Left-Turn lane)	2	2,500	3,500	5,000	6,500	8,000
Collector (w/o two-way Left-Turn lane) – no fronting property	2	4,000	5,500	7,500	9,000	10,000
Collector (one-way)	3	11,000	14,000	19,000	22,500	26,000
Collector (one-way)	2	7,500	9,500	12,500	15,500	17,500
Collector (one-way)	1	2,500	3,500	5,000	6,500	7,500
Sub-Collector (single-family)	2	-	-	2,200	-	-

Source: City of San Diego Traffic Impact Study Manual (1998)
Updated with input from City of San Diego Planning Department Mobility Staff (2017)

These standards are generally used as long-range planning guidelines to determine the functional classification of roadways. The actual capacity of a roadway facility varies according to its physical attributes. Typically, the performance and LOS of a roadway segment is heavily influenced by the ability of its intersections to accommodate peak hour traffic volumes. For the purposes of this traffic analysis, LOS D is considered acceptable for circulation element roadway segments.

2.3 Peak Hour Intersection Level of Service Standards and Thresholds

This section presents the methodologies used to perform peak hour intersection capacity analysis, including both signalized and unsignalized intersections. The following assumptions were utilized in conducting all intersection level of service analyses:

- *Heavy Vehicle Factor:* A 2% heavy vehicle factor was assumed for all intersections within the study area.

- *Signal Timing:* Based on existing signal timing plans (as of March 2019), provided in **Appendix A.**

Signalized Intersection Analysis

The analysis of signalized intersections utilized the operational analysis procedures as outlined in the *2010 Highway Capacity Manual (HCM)*. This method defines LOS in terms of delay, or more specifically, average stopped delay per vehicle. Delay is a measure of driver and/or passenger discomfort, frustration, fuel consumption and lost travel time. This technique uses 1,900 vehicles per hour per lane (VPHPL) as the maximum saturation volume of an intersection. This saturation volume is adjusted to account for lane width, on-street parking, pedestrians, traffic composition (i.e., percentage trucks) and shared lane movements (i.e. through and right-turn movements originating from the same lane). The LOS criteria used for this technique are described in **Table 2.3**. The computerized analysis of intersection operations was performed utilizing the *SYNCHRO 10.0* traffic analysis software.

Table 2.3 Signalized Intersection Level of Service Criteria

Average Stopped Delay Per Vehicle (seconds)	Level of Service (LOS) Characteristics
<10.0	*LOS A* describes operations with very low delay. This occurs when progression is extremely favorable, and most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.
10.1 – 20.0	*LOS B* describes operations with generally good progression and/or short cycle lengths. More vehicles stop than for LOS A, causing higher levels of average delay.
20.1 – 35.0	*LOS C* describes operations with higher delays, which may result from fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.
35.1 – 55.0	*LOS D* describes operations with high delay, resulting from some combination of unfavorable progression, long cycle lengths, or high volumes. The influence of congestion becomes more noticeable, and individual cycle failures are noticeable.
55.1 – 80.0	*LOS E* is considered the limit of acceptable delay. Individual cycle failures are frequent occurrences.
>80.0	*LOS F* describes a condition of excessively high delay, considered unacceptable to most drivers. This condition often occurs when arrival flow rates exceed the LOS D capacity of the intersection. Poor progression and long cycle lengths may also be major contributing causes to such delay.

Source: Highway Capacity Manual 2000, TRB Special Report 209

Unsignalized Intersection Analysis

Unsignalized intersections, including two-way and all-way stop controlled intersections, were analyzed using the 2010 Highway Capacity Manual (Chapter 19 & Chapter 20) unsignalized intersection analysis methodology. The *SYNCHRO 10.0* Traffic Analysis software supports this methodology and was utilized to produce LOS results. The LOS for a two-way stop controlled (TWSC) intersection is determined by the computed control delay and is defined for each minor movement. **Table 2.4** summarizes the LOS criteria for unsignalized intersections. The City of San Diego considers LOS D or better during the AM and PM peak hours to be acceptable for intersection LOS.

Table 2.4 Unsignalized Intersection Level of Service Criteria

Average Control Delay (sec/veh)	Level of Service (LOS)
≤10	A
>10 and ≤15	B
>15 and ≤25	C
>25 and ≤35	D
>35 and ≤50	E
>50	F

Source: Highway Capacity Manual 2010

2.4 Ramp Metering Analysis

Ramp metering analysis was conducted to calculate delays and queues at the study area freeway on-ramps. Within the project study area, the I-805 northbound on-ramp at Balboa Avenue and the I-805 southbound on-ramp at Balboa Avenue have activated ramp meters. The demand per hour per lane was calculated using the following equation:

$$D_{vol} = \frac{(P_{vol} - H_{vol})}{N}$$

- D_{vol} (Demand Volume per hour per Lane): total peak hour demand expected to use the on-ramp (non-HOV lane only);
- P_{vol} (Peak Hour Ramp Volume): sum of all peak hour volumes using the on-ramp;
- H_{vol} (HOV lane volume): based on field observation, approximately 20% of the P_{vol} utilized the HOV lane; and
- N: number of non-HOV lanes at the on-ramp.

2.5 Determination of Significant Impacts

The *City of San Diego Significance Determination Thresholds* defines project impact thresholds by facility type. These thresholds are generally based upon an acceptable increase in the Volume / Capacity (V/C) ratio for roadway and freeway segments, and upon increases in vehicle delays for intersections and ramps.

In the City of San Diego, LOS D is considered acceptable for roadway and intersection operations. A project is considered to have a significant impact if it degrades the operations of a roadway or intersection from an acceptable LOS (D or better) to an unacceptable LOS (E or F), or if it adds additional delay to a facility already operating an unacceptable level. **Table 2.5** summarizes the impact significant thresholds as identified by the City of San Diego beyond which mitigation measures are required.

Table 2.5 Measure of Significant Project Traffic Impacts

Level of Service (LOS) with Project*	Allowable Change Due to Impact**					
	Freeways		Roadway Segments		Intersections	Ramp Metering
	V/C	Speed (mph)	V/C	Speed (mph)	Delay (sec)	Delay (min.)
LOS E (or ramp meter delays > 15 min.)	0.010	1.0	0.02	1.0	2.0	2.0
LOS F (or ramp meter delays > 15 min.)	0.005	0.5	0.01	0.5	1.0	1.0

Source: City of San Diego, Significance Determination Thresholds (January 2011)

Note 1: The allowable increase in delay at a ramp meter with more than 15 minutes of delay and freeway LOS E is 2 minutes.
Note 2: The allowable increase in delay at a ramp meter with more than 15 minutes of delay and freeway LOS F is 1 minute.

* All level of service (LOS) measurements are based upon HCM procedures for peak-hour conditions. However, vehicle to capacity (V/C) ratios for roadway segments may be estimated on an ADT/24-hour traffic volume basis (using Table 2.1 or a similar LOS chart for each jurisdiction). The acceptable LOS for freeways, roadways, and intersections is generally "D" ("C" for undeveloped or not densely developed locations per jurisdiction definitions). For metered freeway ramps, LOS does not apply. However, ramp meter delays above 15 minutes are considered excessive.

** If a Proposed Project's traffic causes the values shown in the table to be exceeded, the impacts are determined to be significant. These impact changes may be measured from appropriate computer programs or expanded manual spreadsheets. The project applicant shall then identify feasible mitigation (within the Traffic Impact Study report) that would maintain the traffic facility at an acceptable LOS. If the LOS with the Proposed Project becomes unacceptable (see above * note), or if the project adds a significant amount of peak-hour trips to cause any traffic queues to exceed on- or off-ramp storage capacities, the project applicant shall be responsible for mitigating significant impact changes.

3.0 Project Description and Trip Generation, Distribution, and Assignment

This section describes the Proposed Project, including land uses and estimated trip generation, trip distribution, and trip assignment.

3.1 Project Description

The Proposed Project would allow for the redevelopment the existing County's Crime Lab site, located at 5255 Mt Etna Drive, San Diego, CA 92117, into a maximum of 448 multi-family units of which 100 percent would be affordable. In addition, a minimum of 1,500 square foot portion of the Proposed Project is expected to allow for community support services would also be permitted under the Clairemont Mesa Community Plan Amendment (CPA) and Zone Change Project. Additionally, the community support services could potentially be used for retail, so 10,000 square feet of neighborhood supporting retail was included in the analysis. While it's likely that the retail would not be built to that full extent, it provides a more conservative analysis, and the transportation impacts might be slightly overstated. Demolition of the existing and vacated Crime Lab building and associated landscaping and utilities is a part of the Proposed Project, as is rough grading of the project site following demolition. The project requires a CPA to re-designate the site from Community Commercial to Residential-High (45-73 dwelling units/acre) and propose a zone change from CO-1-2 to RM-3-9. This TIS presents a worst-case analysis of a future residential development project that would be allowed by the Community Plan Amendment and Zone Change.

Although currently unknown, the project is expected to take access via a single driveway located along Mt Etna Drive.

Figure 3-1 illustrates the Proposed Project site plan.

3.2 Project Trip Generation Rate, Trip Generation, Distribution, and Assignment

Project Trip Generation

The Proposed Project trip generation estimates were derived utilizing the trip generation rates outlined in *Table 1* of the *City of San Diego Land Development Code – Trip Generation Manual 2003*. Due to the commercial component of the Project, the driveway rates and cumulative rates were both used to derive the Project's total trip generation to reflect the commercial's pass-by trips. The driveway rates for the commercial use were applied to the project driveway, as well as roadways and intersections immediately adjacent to the project site (i.e. intersections 6 and 7 shown in Figure 1-2). Cumulative rates were applied to all other study roadways and intersections. Since the existing Crime Lab site was vacant during traffic count collection for existing conditions, no additional adjustments were required for project trip generation.



Figure 3-1
Project Site Plan

Additionally, trip reductions from the City's Traffic Impact Study Manual were applied to the residential trip estimates:

Mixed-Use Land Uses Reductions

For developments that include several different types of land use, such as the Proposed Project that has residential units and neighborhood supporting retail, it is likely that a resident would utilize the retail uses in lieu of leaving the site, resulting in a reduction in trips generated. Furthermore, the Project site is located immediately adjacent to the largest commercial retail center in Clairemont Mesa. Large businesses such as Target, Kohls, Sprouts, and Walgreens as well as restaurant dining and banking are all located within walking distance (i.e. less than ¼ a mile) of the project site location. A mixed-use reduction, also known as trip internalization, would reduce the number of trips to the site compared to the trips generated by uses in an isolated situation. Given the Project's mixed uses and the extremely close proximity to other mixed-use developments, the following reductions were applied:

- Daily = 10%
- AM Peak Hour = 8%
- PM Peak Hour = 10%

Transit Reductions

The Project is located in a Transit Oriented Development (TOD) area, with high frequency transit services immediately adjacent to the site on Genesee Avenue. Bus Route # 41 is serviced along Genesee Avenue operating with 15-minute headways during peak hours and bus route #27 is serviced along Balboa Avenue operating with 30-minutes headways during peak hours. Transit stops for Bus Routes #41 and #27 are each within 400 feet of the Project site. Consequently, the following transit reductions were applied to account for residents using transit in lieu of driving:

- Daily = 5%
- AM Peak Hour = 9%
- PM Peak Hour = 6%

Table 3.1 displays the projected daily, as well as AM and PM peak hour Project trip generation using the driveway vehicle rates. **Table 3.2** displays the Project trip generation using cumulative vehicle rates.

Table 3.1 Project Trip Generation – Driveway Rates

Land Use	Units	Trip Rate	% Daily	ADT	AM Peak Hour					PM Peak Hour				
					%	Trips	Split	In	Out	%	Trips	Split	In	Out
Residential – Multi - Family	448 Units	6 / Unit	-	2,688	8%	216	(2:8)	43	173	9%	242	(7:3)	169	73
Residential Reduction due to Transit Stations*	-	-	5%	-134	9%	-19	(2:8)	-4	-5	6%	-15	(7:3)	-11	-4
Residential Reduction due to Mixed-Use Land Uses*	-	-	10%	-269	8%	-17	(2:8)	-3	-14	10%	-24	(7:3)	-17	-7
Commercial – Retail - Neighborhood	10 KSF	120 / KSF	-	1,200	4%	48	(6:4)	29	19	11%	132	(5:5)	66	66
Total				**3,485**	**-**	**228**	**-**	**65**	**163**	**-**	**335**	**-**	**207**	**128**

Source: City of San Diego Land Use Code, Driveway Rate – Trip Generation Manual, May 2003
*Reductions applied from City of San Diego Traffic Impact Study Manual (July 1998)

As shown in Table 3.1, the Proposed Project is anticipated to generate a total of 3,485 daily trips, including 228 (65-in / 163-out) AM peak hour trips and 335 (207-in / 128-out) PM peak hour trips using driveway rates. These estimates were added onto Project driveway, as well as the roadways and intersections immediately adjacent to the Project driveway.

Table 3.2 Project Trip Generation – Cumulative Rates

Land Use	Units	Trip Rate	% Daily	ADT	AM Peak Hour					PM Peak Hour				
					%	Trips	Split	In	Out	%	Trips	Split	In	Out
Residential – Multi - Family	448 Units	6 / Unit	-	2,688	8%	216	(2:8)	43	173	9%	242	(7:3)	169	73
Residential Reduction due to Transit Stations*	-	-	5%	-134	9%	-19	(2:8)	-4	-5	6%	-15	(7:3)	-11	-4
Residential Reduction due to Mixed-Use Land Uses*	-	-	10%	-269	8%	-17	(2:8)	-3	-14	10%	-24	(7:3)	-17	-7
Commercial – Retail - Neighborhood	10 KSF	72 / KSF	-	720	4%	29	(6:4)	17	12	11%	80	(5:5)	40	40
Total				**3,005**	**-**	**209**	**-**	**53**	**156**	**-**	**283**	**-**	**181**	**102**

Source: City of San Diego Land Use Code, Cumulative Rate – Trip Generation Manual, May 2003
*Reductions applied from City of San Diego Traffic Impact Study Manual (July 1998)

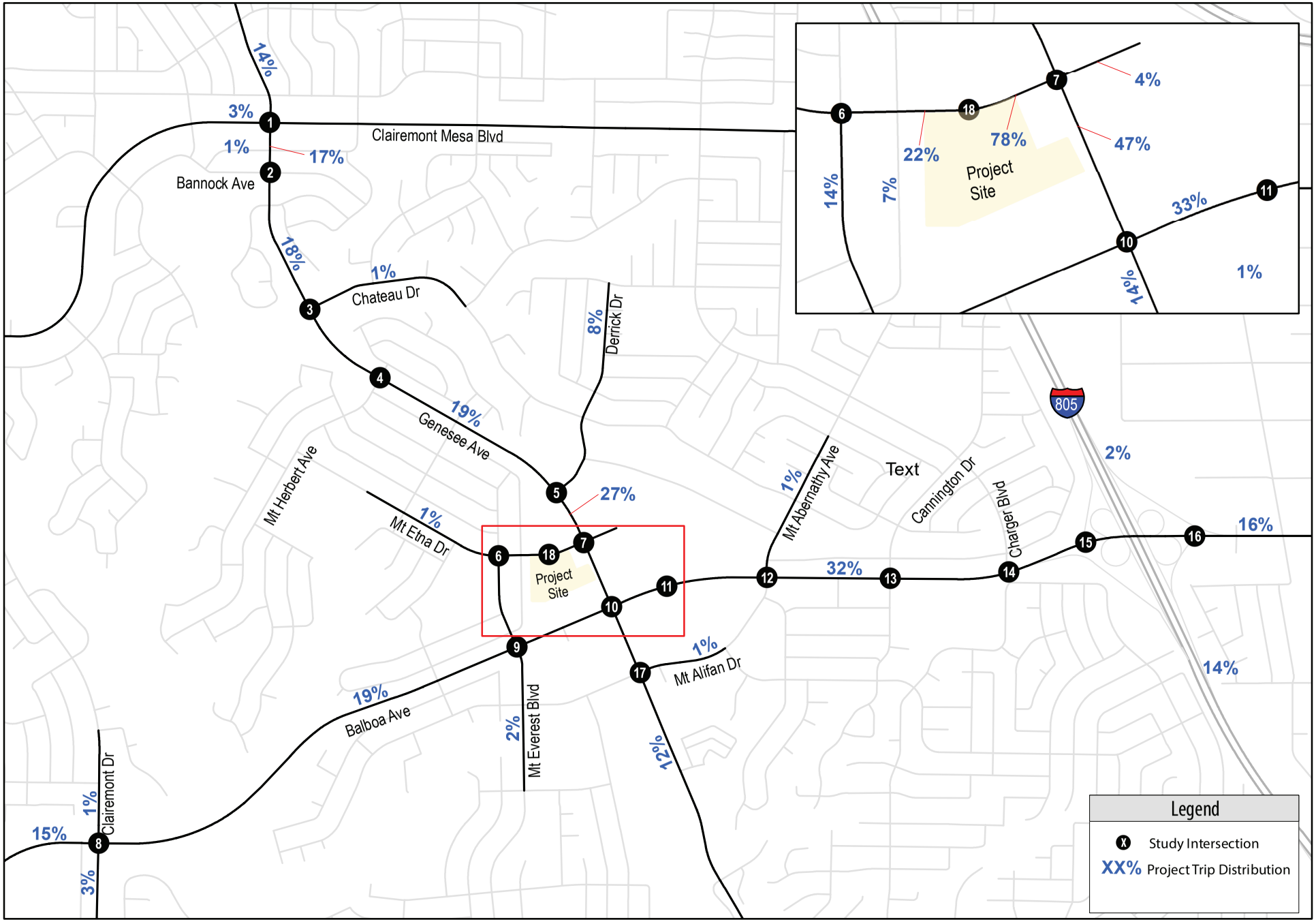
As shown in Table 3.2, the Proposed Project is anticipated to generate a total of 3,005 daily trips, including 209 (53-in / 156-out) AM peak hour trips and 283 (181-in / 102-out) PM peak hour trips using cumulative rates. These estimates were added to the study roadways and intersections within the study area, not immediately adjacent to the Project driveway.

Project Trip Distribution

Based on Traffic Impact Study Guidelines for the City of San Diego, a Select Zone analysis is required for trip distribution if the Proposed Project generates more than 2,400 average daily trips. Since the Proposed Project is anticipated to generate more than 2,400 daily trips, the trip distribution for the Proposed Project was developed based on a SANDAG Series 13 Transportation Forecast Select Zone Assignment shown in **Appendix B**. This model was developed and is being used for the on-going Clairemont Community Plan Update. Additionally, the Project's traffic analysis zone (TAZ) land use was updated to include the proposed land use. **Figure 3-2** displays the trip distribution patterns associated with the Proposed Project.

Project Trip Assignment

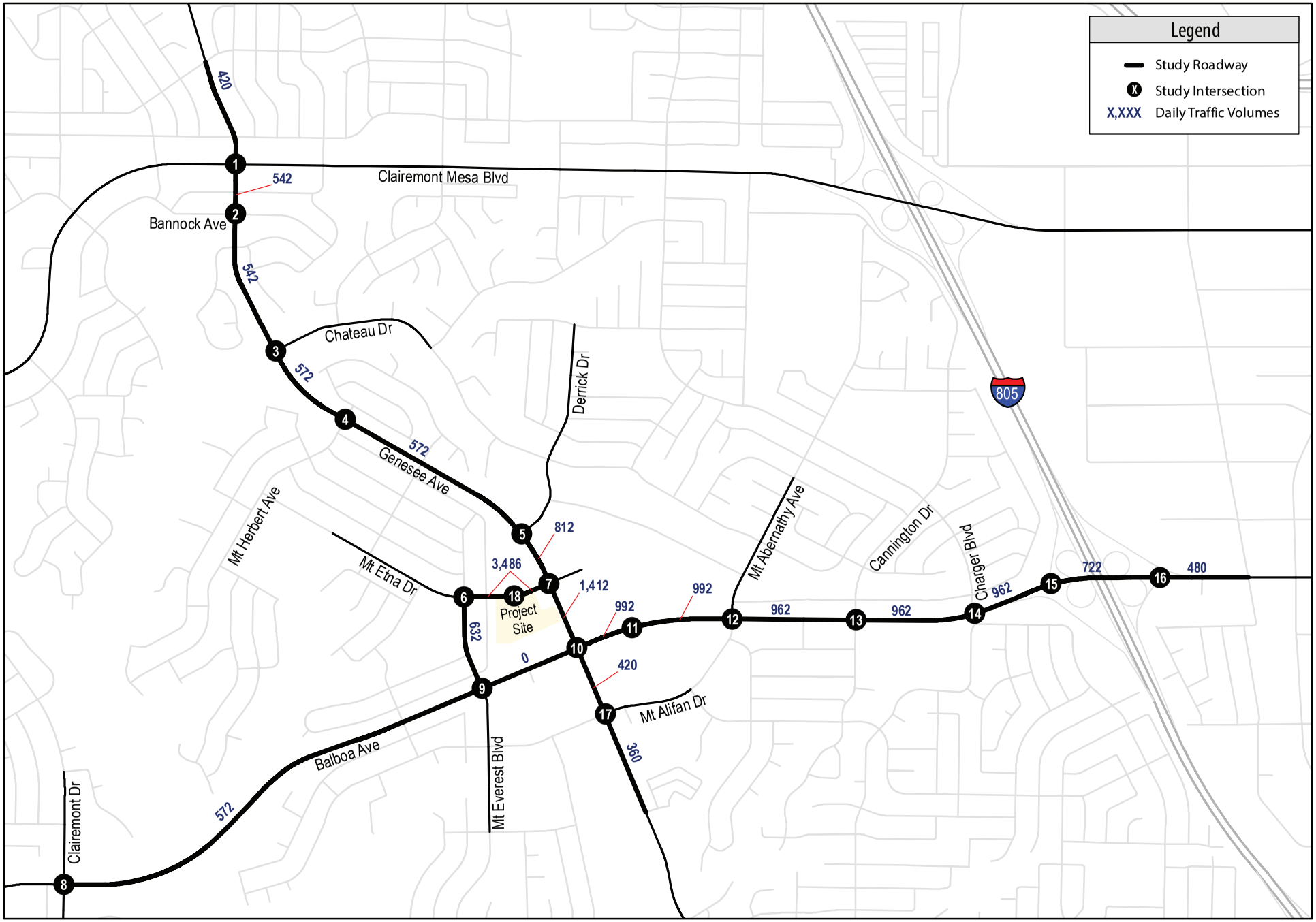
Based upon the assumed Project trip distribution, daily and AM/PM peak hour Project trips were assigned to the adjacent roadway network, as displayed in **Figure 3-3**.



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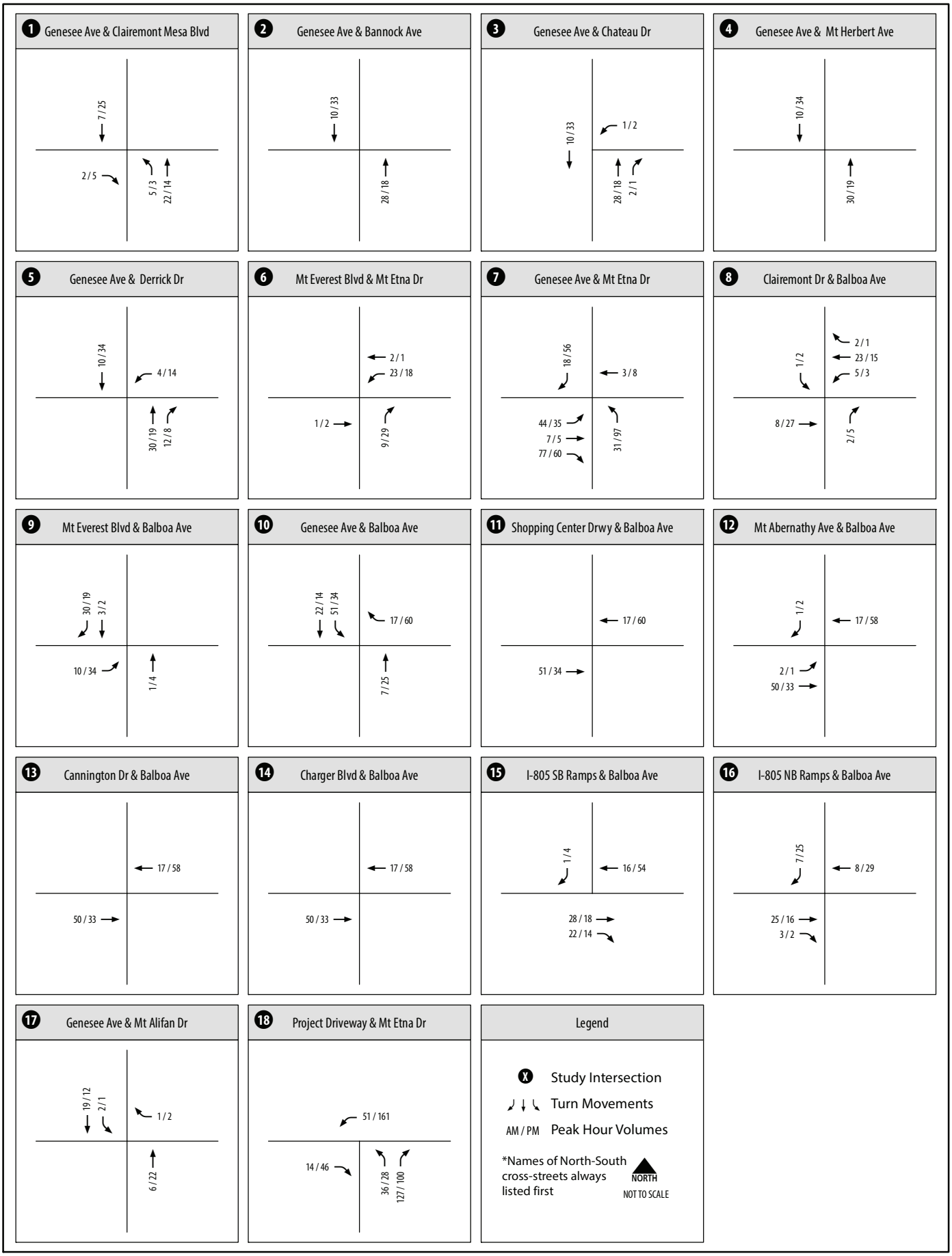
Figure 3-2
Project Trip Distribution



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Figure 3-3
Project Trip Assignment



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Figure 3-3
Project Trip Assignment

4.0 Existing Conditions

This section describes key roadways segments and intersections, existing daily roadway and peak hour intersection traffic volume information, and LOS analysis results under Existing conditions.

4.1 Existing Roadway Network

Six (6) regionally and locally significant roadways traverse the study area. Each of the key roadways, as well as the associated study intersections within the study area are discussed below.

North-South Facilities

Interstate 805 (I-805) is a north-south freeway that is located approximately one and a half miles east of the Project site. Access from I-805 to the study area is taken from the Balboa Avenue interchange. Since the Proposed Project would contribute less than 150 peak hour trips to I-805, freeway analysis was not conducted.

Genesee Avenue – Genesee Avenue is a 4-lane roadway that widens to 6 lanes between Derrick Drive and Mt Etna Drive, transitions to 5 lanes between Mt Etna Drive to Mt Alifan, and narrows again back to 4 lanes after Mt Alifan. Genesee Avenue has a raised median throughout the study area with exception to the roadway segment between Clairemont Mesa Boulevard and Bannock Avenue. The posted speed limit along Genesee Avenue is 35 mph with exception to the roadway segment between Sauk Avenue and Derrick Drive which is 40 mph. Sidewalks are present on both sides of the roadway within the Project study area. On-street parallel parking is allowed along Genesee Avenue on segments south of Mt Alifan Drive and north of Sauk Avenue within the study area. Also, within the study area, Genesee Avenue has class II bike lanes throughout with exception of the class III bike route between Sauk Avenue and Appleton Street. The Clairemont Mesa Community Plan classifies this roadway as a 4-Lane Major Arterial. San Diego MTS Bus Route 41 is serviced along Genesee Avenue.

Mt Everest Boulevard – Mt Everest Boulevard is a 2-lane undivided roadway with sidewalks and on-street parallel parking present on both sides of the roadway. There are no bicycle facilities along Mt Everest within the Project study area. Mt Everest Boulevard has a posted speed limit of 25 mph within the Project study area. The Clairemont Mesa Community Plan classifies Mt Everest Boulevard, south of Balboa Avenue as a 2-lane Collector. There are not transit routes that run along Mt Everest Boulevard; however, transit stops exist for bus route #27 at the Balboa Avenue and Mt Everest Boulevard intersection.

East-West Facilities

Balboa Avenue – Balboa Avenue is currently constructed as a four to six-lane roadway within the Clairemont Mesa community. San Diego MTS Bus Route 27 is serviced along Balboa Avenue. Within the Project study area, Balboa Avenue has a posted speed limit of 45 mph with the following geometric features:

- 4-lane roadway with a raised median between Clairemont Drive and Genesee Avenue, sidewalks are located intermittently on the northern side of the roadway. Class II bike lanes are present on both side of the roadway. On-street parking is prohibited along this segment. The Clairemont Mesa Community Plan classifies this segment as a 4-Lane Major Arterial.
- 6-lane roadway with a raised median between Genesee Avenue and east of I-805. Sidewalk and Class II bike lanes are present on both side of the roadway. On-street parking is prohibited along this segment. The Clairemont Mesa Community Plan classifies this segment as a 6-Lane Major Arterial.

Mt Etna Drive – Mt Etna Dive is a 2-lane undivided roadway with sidewalks on both sides without bicycle facilities. On-street parallel parking is allowed throughout the segment with exception to the commercial fronting property extending 430 feet west of Genesee Avenue. The posted speed limit is 25 mph, between Genesee Avenue and 500 feet west of Genesee Avenue where the posted speed limit of 15 mph per hour begins paired with roadway speed bumps. There are no transit routes that run along Mt Etna Drive; however, transit stops exist for bus route #41 at the Genesee Avenue & Mt Etna Drive intersection.

Study Intersections

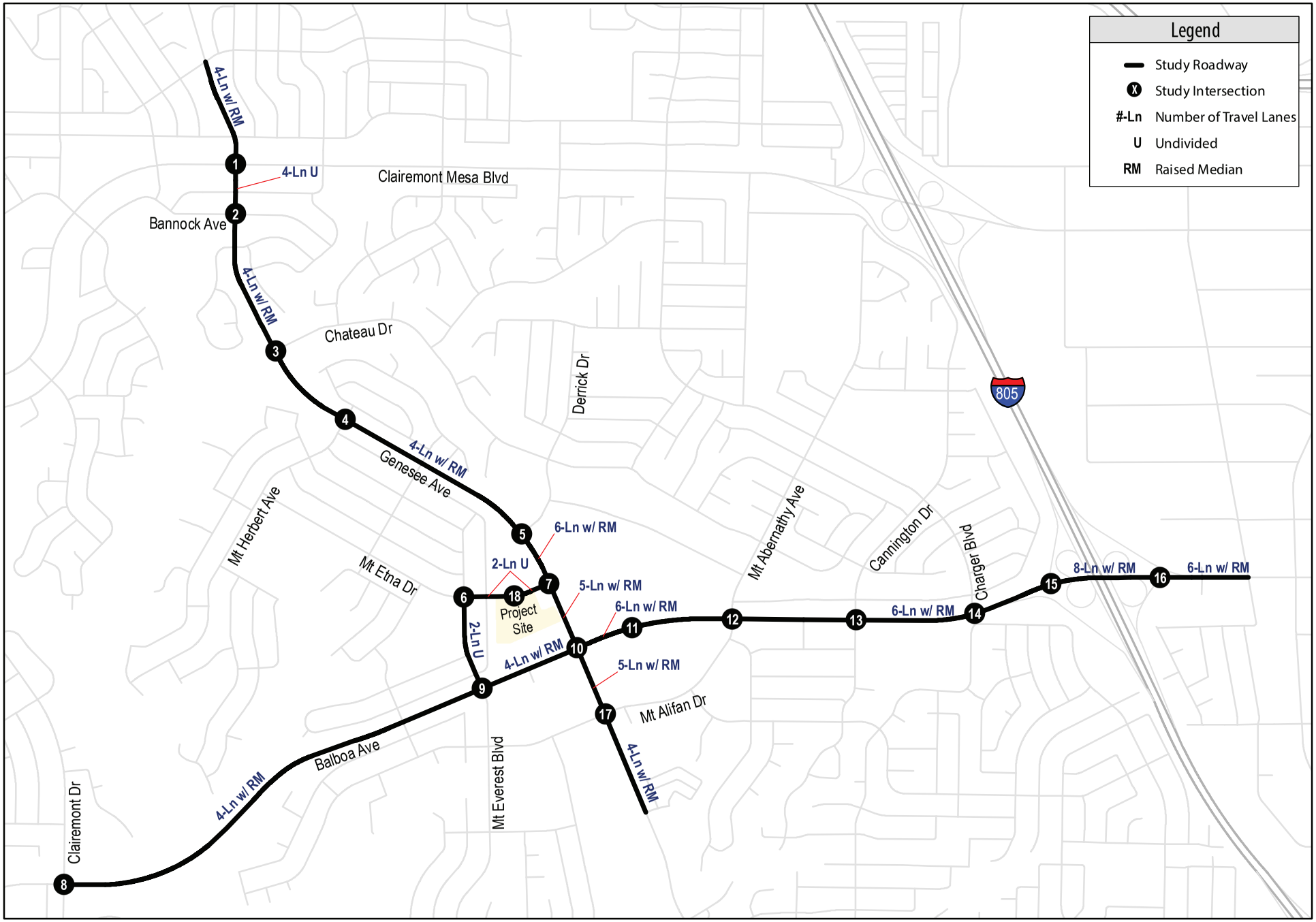
The following nineteen (18) key study area intersections were included within the key study area:

1. Genesee Avenue & Clairemont Mesa Boulevard (Signal);
2. Genesee Avenue & Bannock Avenue (Signal);
3. Genesee Avenue & Chateau Drive (Signal);
4. Genesee Avenue & Mt Herbert Avenue (Signal);
5. Genesee Avenue & Derrick Drive (Signal);
6. Mt Everest Boulevard & Mt Etna Drive (All-Way Stop Controlled);
7. Genesee Avenue & Mt Etna Drive (Signal);
8. Clairemont Drive & Balboa Avenue (Signal);
9. Mt Everest Boulevard & Balboa Avenue (Signal);
10. Genesee Avenue & Balboa Avenue (Signal);
11. Shopping Center Driveway & Balboa Avenue (Signal);
12. Mt Abernathy Avenue & Balboa Avenue (Signal);
13. Cannington Drive & Balboa Avenue (Signal);
14. Charger Boulevard & Balboa Avenue (Signal);
15. I-805 Southbound Ramps & Balboa Avenue (Signal);
16. I-805 Northbound Ramps & Balboa Avenue (Signal);
17. Genesee Avenue & Mt Alifan Drive (Signal); and
18. Mt Etna Drive & Project Driveway (Side-Street Stop Controlled).

It should be noted that the Proposed Project would not contribute enough traffic (150 peak hour trips in a single direction) to require analysis of Interstate 805 (I-805) freeway. The existing roadway and intersection geometrics are shown in **Figure 4-1**.

4.2 Existing Intersection and Roadway Volumes

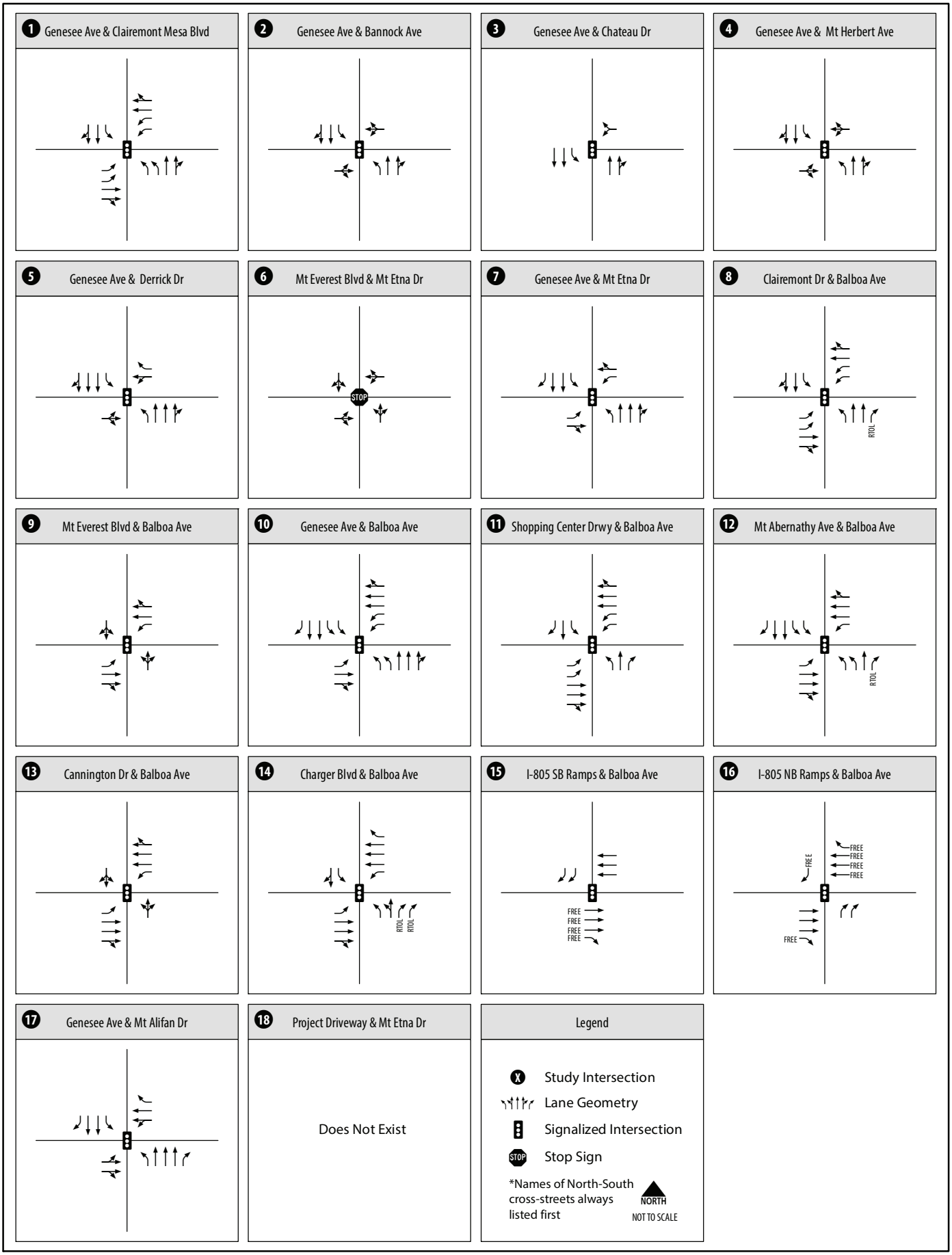
Figure 4-2 shows both the existing daily traffic volumes for study area roadway segments and the AM/PM peak hour traffic volumes for the key study area intersections. The roadway segment and study area intersection traffic counts were conducted in January 2019 when all schools were in session and the weather was dry and normal. The count sheets are provided in **Appendix C**.



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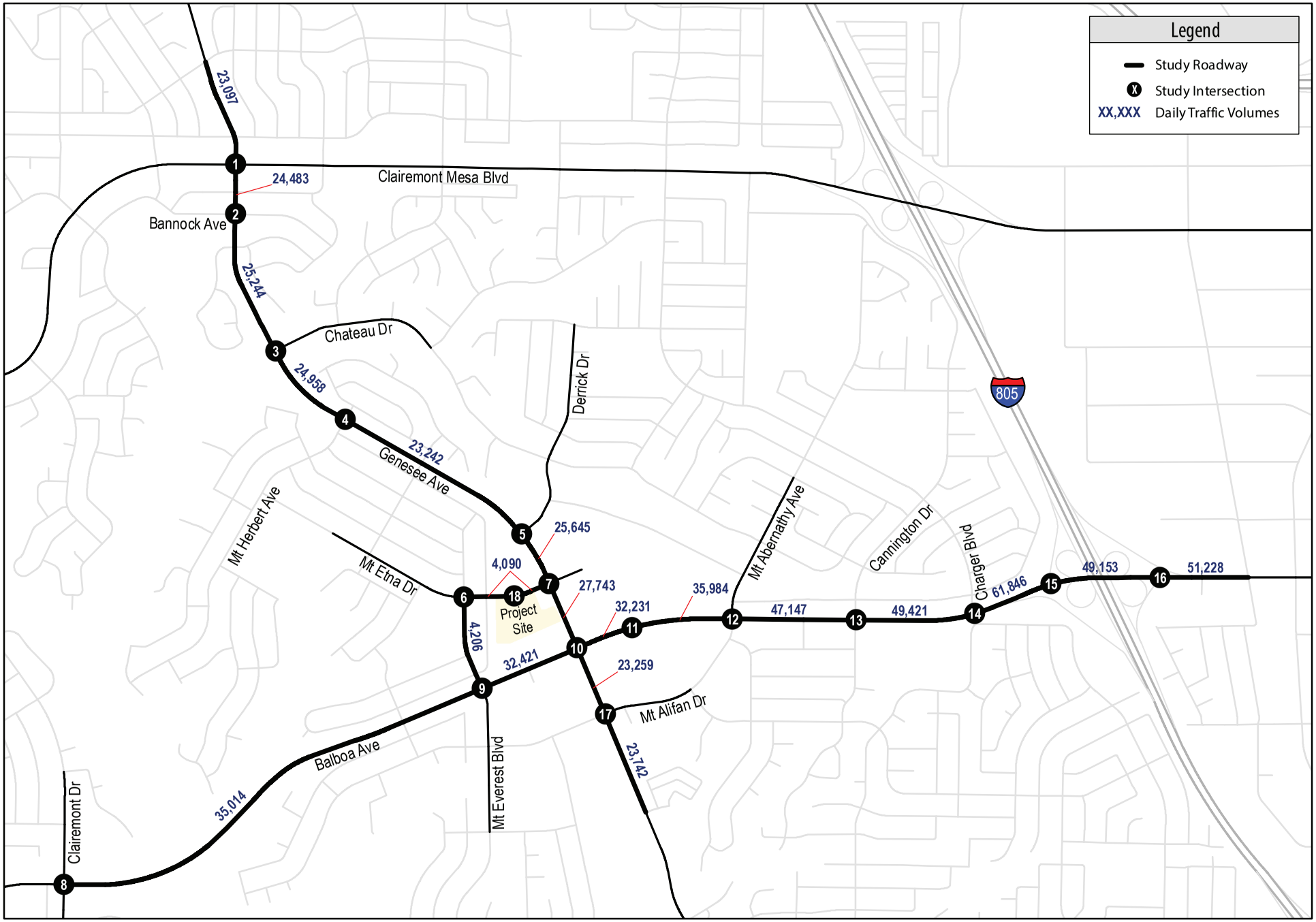
Figure 4-1
Roadway and Intersection Geometrics - Existing Conditions



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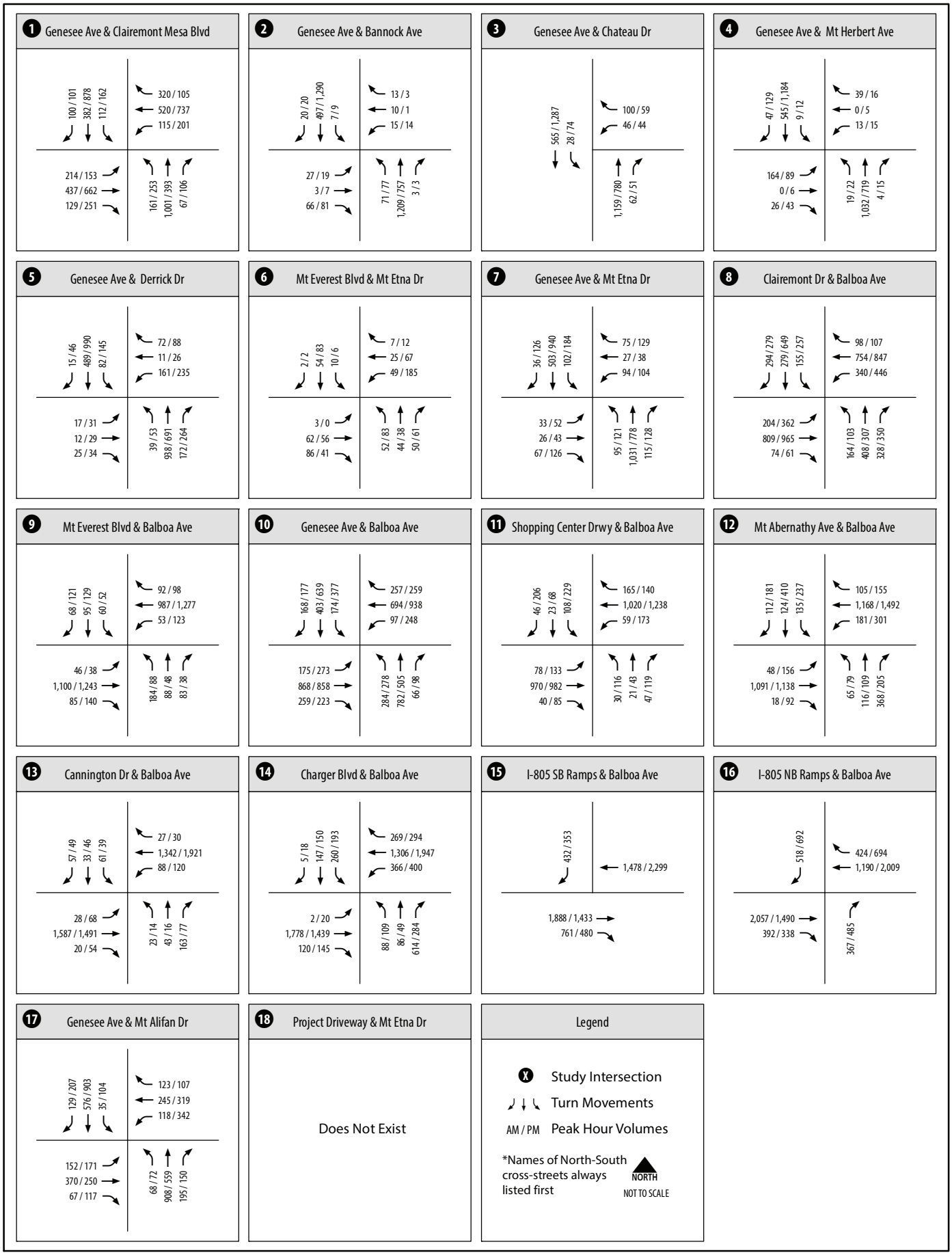
Figure 4-1
Roadway and Intersection Geometrics - Existing Conditions



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Figure 4-2
Traffic Volumes - Existing Conditions



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Figure 4-2
Traffic Volumes - Existing Conditions

4.3 Existing Level of Service Analysis

Level of service analyses under Existing conditions were conducted using the methodologies described in Chapter 2.0. Roadway segment and intersection level of service, as well as freeway ramp meter analysis results are discussed separately below.

Roadway Segment Analysis

Table 4.1 displays the LOS analysis results for key study area roadway segments under Existing conditions.

As shown in Table 4.1, all of the key study area roadway segments are currently operating at acceptable LOS D or better, with the exception of the following five (5) roadway segments:

- Balboa Avenue, between Clairemont Drive and Mt Everest Boulevard (LOS E);
- Balboa Avenue, between Mt Abernathy Avenue and Cannington Drive (LOS E);
- Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS E);
- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F); and
- Balboa Avenue, between I-805 Northbound Ramps and Ruffner Street (LOS F).

Intersection Analysis

Table 4.2 displays intersection level of service and average vehicle delay results for the key study area intersections under Existing conditions. Level of service calculation worksheets for Existing conditions are provided in **Appendix D**.

As shown in the Table 4.2, all of the study area intersections are currently operating at acceptable LOS D or better during both the AM and PM peak hours, with the exception of the following four (4) intersections:

- Genesee Avenue & Clairemont Mesa Boulevard – LOS E during the PM peak hour, primarily due to the heavy volume in the southbound through direction;
- Clairemont Drive & Balboa Avenue – LOS E during the PM peak hour, primarily due to the southbound left movement which experiences a particularly high delay compared to all other movements at the intersection;
- Mt Everest Boulevard & Balboa Avenue – LOS E during the AM and PM peak hours, primarily due to the high delay from the northbound and southbound directions, each serviced by a single lane in the respective directions; and
- Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour primarily due to the heavy volumes on all approaches of the intersection.

Table 4.1 Roadway Segment Level of Service Results - Existing Conditions

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	V/C	LOS
Genesee Avenue	Between Appleton Street & Clairemont Mesa Boulevard	4-Ln Major Arterial	Raised Median	23,097	40,000	0.577	C
	Between Clairemont Mesa Boulevard & Bannock Avenue	4-Ln Major Arterial	Undivided	24,483	40,000	0.612	C
	Between Bannock Avenue & Chateau Drive	4-Ln Major Arterial	Raised Median	25,244	40,000	0.631	C
	Between Chateau Drive & Mt Herbert Avenue	4-Ln Major Arterial	Raised Median	24,958	40,000	0.624	C
	Between Mt Herbert Avenue & Derrick Drive	4-Ln Major Arterial	Raised Median	23,242	40,000	0.581	C
	Between Derrick Drive & Mt Etna Drive	6-Ln Major Arterial	Raised Median	25,645	50,000	0.513	B
	Between Mt Etna Drive & Balboa Avenue	5-Ln Major Arterial	Raised Median	27,743	45,000	0.617	C
	Between Balboa Avenue & Mt Alifan Drive	5-Ln Major Arterial	Raised Median	23,259	45,000	0.517	B
	Between Mt Alifan Drive & Genesee Court	4-Ln Major Arterial	Raised Median	23,742	40,000	0.594	C
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Ln Collector w/o CLTL	Undivided	4,206	8,000	0.526	C
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	4,090	8,000	0.511	C
Balboa Avenue	Between Clairemont Drive & Mt Everest Boulevard	4-Ln Major Arterial	Raised Median	35,014	40,000	0.875	**E**
	Between Mt Everest Boulevard & Genesee Avenue	4-Ln Major Arterial	Raised Median	32,421	40,000	0.811	D
	Between Genesee Avenue & Shopping Center Driveway	6-Ln Major Arterial	Raised Median	32,231	50,000	0.645	C
	Between Shopping Center Driveway & Mt Abernathy Avenue	6-Ln Major Arterial	Raised Median	35,984	50,000	0.720	C
	Between Mt Abernathy Avenue & Cannington Drive	6-Ln Major Arterial	Raised Median	47,147	50,000	0.943	**E**
	Between Cannington Drive & Charger Boulevard	6-Ln Major Arterial	Raised Median	49,421	50,000	0.988	**E**
	Between Charger Boulevard & I-805 Southbound Ramps	6-Ln Major Arterial	Raised Median	61,846	50,000	1.237	**F**
	Between I-805 Southbound Ramps & I-805 Northbound Ramps*	8-Ln Prime Arterial	Raised Median	49,153	80,000	0.614	B
	Between I-805 Northbound Ramps & Ruffner Street	6-Ln Major Arterial	Raised Median	51,228	50,000	1.025	**F**

Source: NDS, Chen Ryan Associates; March 2019

Notes:
*The Balboa Ave segment between the I-805 ramps are classified as a 6-lane major according to the Clairemont Community Plan; however, the actual roadway cross-section includes eight lanes (two of which are auxiliary ramp lanes).
Bold letter indicates unacceptable LOS E or F.
ADT = Average Daily Traffic.
V/C = Volume to Capacity Ratio.
LOS = Level of Service.
Ln = Lane.
CLTL = Continuous Left-Turn Lane.

Table 4.2 Peak Hour Intersection Level of Service Results - Existing Conditions

Intersection	Control	AM Peak Hour		PM Peak Hour	
		Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	42.6	D	59.9	**E**
2. Genesee Avenue & Bannock Avenue	Signal	19.7	B	10.5	B
3. Genesee Avenue & Chateau Drive	Signal	11.0	B	4.7	A
4. Genesee Avenue & Mt Herbert Avenue	Signal	13.7	B	7.8	A
5. Genesee Avenue & Derrick Drive	Signal	16.9	B	50.9	D
6. Mt Everest Boulevard & Mt Etna Drive	AWSC	9.0	A	10.6	B
7. Genesee Avenue & Mt Etna Drive	Signal	20.1	C	24.5	C
8. Clairemont Drive & Balboa Avenue	Signal	37.7	D	60.1	**E**
9. Mt Everest Boulevard & Balboa Avenue	Signal	73.7	**E**	58.7	**E**
10. Genesee Avenue & Balboa Avenue	Signal	36.3	D	59.1	**E**
11. Shopping Center Driveway & Balboa Avenue	Signal	20.9	C	15.4	B
12. Mt Abernathy Avenue & Balboa Avenue	Signal	35.8	D	41.6	D
13. Cannington Drive & Balboa Avenue	Signal	10.6	B	24.0	C
14. Charger Boulevard & Balboa Avenue	Signal	43.4	D	33.3	C
15. I-805 Southbound Ramps & Balboa Avenue	Signal	9.5	A	7.5	A
16. I-805 Northbound Ramps & Balboa Avenue	Signal	8.8	A	9.1	A
17. Genesee Avenue & Mt Alifan Drive	Signal	47.6	D	50.5	D
18. Project Driveway & Mt Etna Drive	DNE	-	-	-	-

Source: NDS, Chen Ryan Associates; March 2019

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
DNE = Does Not Exist.

Ramp Metering Analysis

Table 4.3 summarizes the freeway ramp metering analysis results under Existing conditions.

Table 4.3 Ramp Metering Analysis – Existing Conditions

On-Ramp	# of Lanes		Peak Hour	Demand[1] (veh/hr) per lane	Meter Rate[2] (veh/hr) per lane	Excess Demand[3] (veh/hr) per lane	Delay[4] (min)	Queue[5] (ft)	Storage Length (ft)	Excess Queue (ft)
	SOV	HOV								
I-805 SB On-Ramp @ Balboa Ave EB	1	1	PM	384	423	0	0	0	1,000	0
I-805 NB Ramp @ Balboa Ave EB	1	1	AM	314	511	0	0	0	410	0

Source: Chen Ryan Associates; March 2019

Notes:
SOV = Single Occupancy Vehicle; HOV = High Occupancy Vehicle.
[1] Demand is the peak hour demand expected to use the on-ramp.
[2] Meter Rate is the peak hour capacity expected to be processed through the ramp meter. This value was obtained from Caltrans.
[3] Excess Demand = (Demand) – (Meter Rate) or zero, whichever is greater.
[4] Delay = (Excess Demand / Meter Rate) X 60 min/hr.
[5] Queue = (Excess Demand) X 29 ft/veh.

As shown in the table, the anticipated peak hour demand does not exceed the average meter rate at either of the study ramp meter locations.

5.0 Existing Plus Project Conditions

This section provides an analysis of existing traffic conditions with the addition of the Proposed Project. Under this scenario, the Proposed Project's traffic volumes were added to the existing traffic volumes. This scenario is required for the environmental assessment of substantive land use or roadway network modifications and provides decision-makers and the public with development impacts referenced to an "observable" baseline.

This hypothetical scenario isolates the potential impacts of the Project by eliminating the impacts from both ambient growth and other Proposed Projects. Therefore, the Existing Plus Project analysis is presented for informational purposes only.

5.1 Existing Plus Project Roadway Network and Traffic Volumes

Roadway and intersection geometrics under Existing Plus Project conditions were assumed to be identical to the Existing conditions geometrics, as previously shown in Figure 4-1.

Existing Plus Project traffic volumes were derived by combining the existing traffic volumes (displayed in Figure 4-2) and the Project trip assignment volumes (displayed in Figure 3-4). Daily roadway and peak hour intersection volumes for this scenario are displayed in **Figures 5-1**.

5.2 Existing Plus Project Traffic Conditions

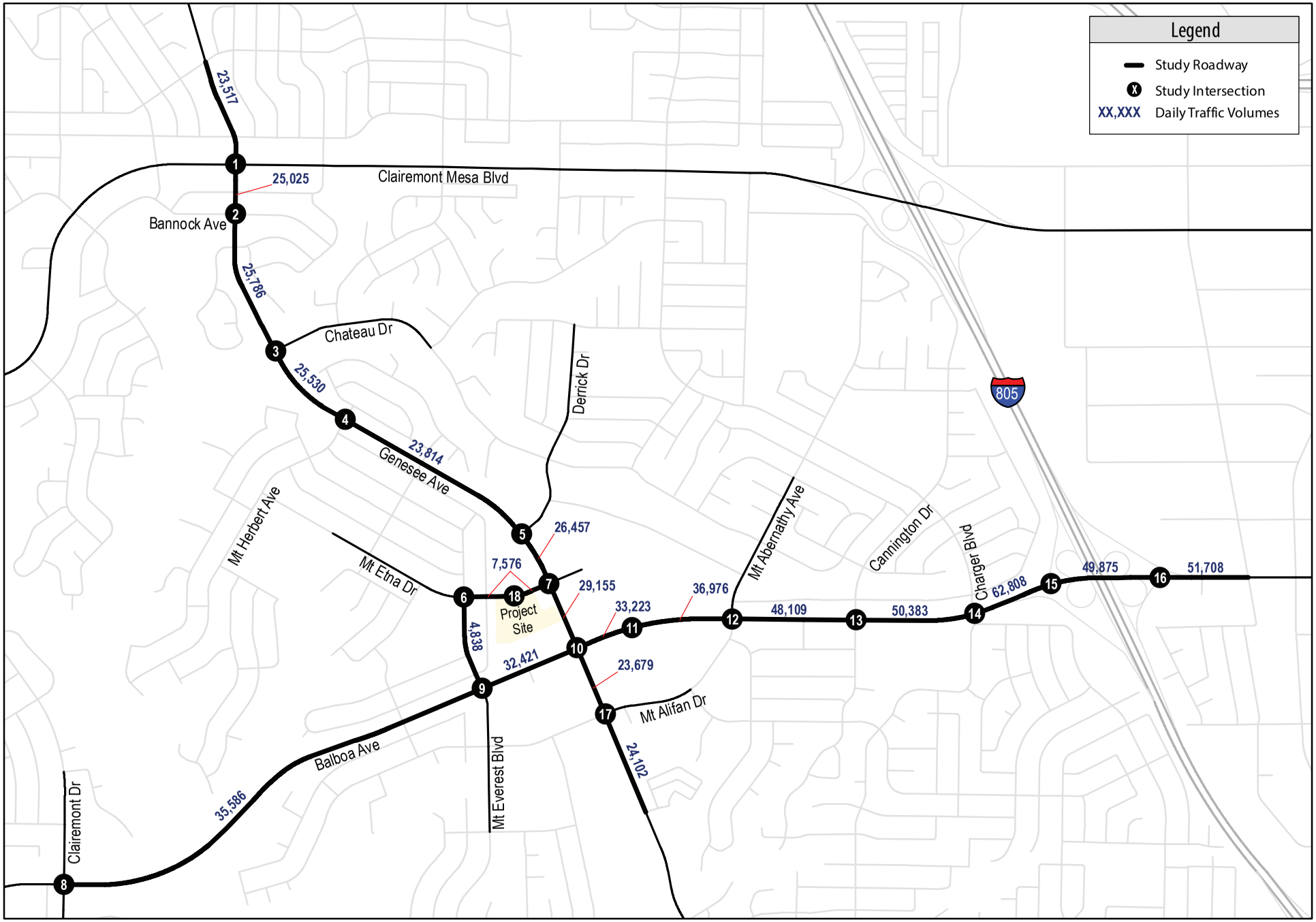
Analyses were conducted using the methodologies described in Chapter 2.0. Roadway segment and intersection level of service, as well as freeway ramp meter analysis results are discussed separately below.

Roadway Segment Analysis

Table 5.1 displays the LOS analysis results for key roadway segments under Existing Plus Project conditions.

As shown in Table 5.1, all of the study area roadway segments are projected to operate at an acceptable LOS with the addition Project traffic, with the exception of the following six (6) roadway segments:

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue (LOS E);
- Balboa Avenue, between Clairemont Drive and Mt Everest Boulevard (LOS E);
- Balboa Avenue, between Mt Abernathy Avenue and Cannington Drive (LOS E);
- Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS F);
- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F); and
- Balboa Avenue, between I-805 Northbound Ramps and Ruffner Street (LOS F).

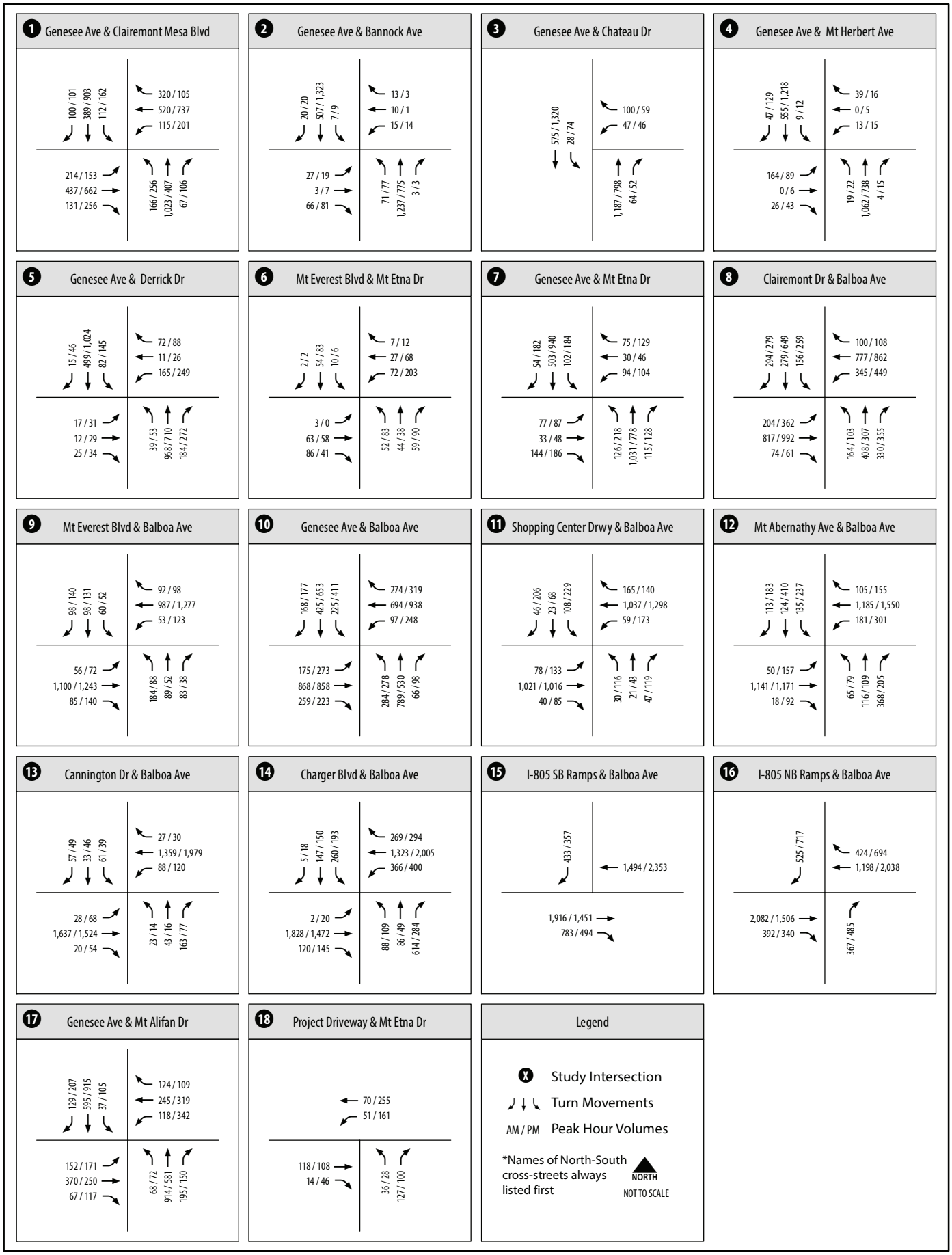


Clairemont Mesa Community Plan Amendment and Zone Change - Transportation Impact Study

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Figure 5-1

Traffic Volumes - Existing Plus Project Conditions



Clairemont Mesa Community Plan Amendment and Zone Change - Transportation Impact Study

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Figure 5-1

Traffic Volumes - Existing Plus Project Conditions

Table 5.1 Roadway Segment Level of Service Results - Existing Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	With Project		W/O Project		Δ	S?
						V/C	LOS	V/C	LOS		
Genesee Avenue	Between Appleton Street & Clairemont Mesa Boulevard	4-Ln Major Arterial	Raised Median	23,517	40,000	0.588	C	0.577	C	0.011	N
	Between Clairemont Mesa Boulevard & Bannock Avenue	4-Ln Major Arterial	Undivided	25,025	40,000	0.626	C	0.612	C	0.014	N
	Between Bannock Avenue & Chateau Drive	4-Ln Major Arterial	Raised Median	25,786	40,000	0.645	C	0.631	C	0.014	N
	Between Chateau Drive & Mt Herbert Avenue	4-Ln Major Arterial	Raised Median	25,530	40,000	0.638	C	0.624	C	0.014	N
	Between Mt Herbert Avenue & Derrick Drive	4-Ln Major Arterial	Raised Median	23,814	40,000	0.595	C	0.581	C	0.014	N
	Between Derrick Drive & Mt Etna Drive	6-Ln Major Arterial	Raised Median	26,457	50,000	0.529	B	0.513	B	0.016	N
	Between Mt Etna Drive & Balboa Avenue	5-Ln Major Arterial	Raised Median	29,155	45,000	0.648	C	0.617	C	0.031	N
	Between Balboa Avenue & Mt Alifan Drive	5-Ln Major Arterial	Raised Median	23,679	45,000	0.526	B	0.517	B	0.009	N
	Between Mt Alifan Drive & Genesee Court	4-Ln Major Arterial	Raised Median	24,102	40,000	0.603	C	0.594	C	0.009	N
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Ln Collector w/o CLTL	Undivided	4,838	8,000	0.605	C	0.526	C	0.079	N
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	7,576	8,000	0.947	**E**	0.511	C	0.436	**Y**

Table 5.1 Roadway Segment Level of Service Results - Existing Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	With Project		W/O Project		Δ	S?
						V/C	LOS	V/C	LOS		
Balboa Avenue	Between Clairemont Drive & Mt Everest Boulevard	4-Ln Major Arterial	Raised Median	35,586	40,000	0.89	**E**	0.875	**E**	0.014	N
	Between Mt Everest Boulevard & Genesee Avenue	4-Ln Major Arterial	Raised Median	32,421	40,000	0.811	D	0.811	D	0	N
	Between Genesee Avenue & Shopping Center Driveway	6-Ln Major Arterial	Raised Median	33,223	50,000	0.664	C	0.645	C	0.02	N
	Between Shopping Center Driveway & Mt Abernathy Avenue	6-Ln Major Arterial	Raised Median	36,976	50,000	0.74	C	0.72	C	0.02	N
	Between Mt Abernathy Avenue & Cannington Drive	6-Ln Major Arterial	Raised Median	48,109	50,000	0.962	**E**	0.943	**E**	0.019	N
	Between Cannington Drive & Charger Boulevard	6-Ln Major Arterial	Raised Median	50,383	50,000	1.008	**F**	0.988	**E**	0.019	**Y**
	Between Charger Boulevard & I-805 Southbound Ramps	6-Ln Major Arterial	Raised Median	62,808	50,000	1.256	**F**	1.237	**F**	0.019	**Y**
	Between I-805 Southbound Ramps & I-805 Northbound Ramps*	8-Ln Prime Arterial	Raised Median	49,875	80,000	0.623	B	0.614	B	0.009	N
	Between I-805 Northbound Ramps & Ruffner Street	6-Ln Major Arterial	Raised Median	51,708	50,000	1.034	**F**	1.025	**F**	0.01	N

Source: Chen Ryan Associates; March 2019

Notes:
*The Balboa Ave segment between the I-805 ramps are classified as a 6-lane major according to the Clairemont Community Plan; however, the actual roadway cross-section includes eight lanes (two of which are auxiliary ramp lanes).
Bold letter indicates unacceptable LOS E or F.
ADT = Average Daily Traffic.
V/C = Volume to Capacity Ratio.
LOS = Level of Service.
Ln = Lane.
CLTL = Continuous Left-Turn Lane.
S? = Indicates if change in V/C ratio is significant.
Δ = Change in V/C Ratio.

Of the six (6) roadway segments projected to operate at substandard level of service E or F under Existing Plus Project conditions, the following three (3) could potentially result in a significant impact based on the significance criteria outlined in Section 2.5. As noted in section 2.2, daily roadway LOS is typically used only at the planning level and does not necessarily indicate true roadway operations. Therefore, to determine if the identified roadway segments operate at acceptable levels during peak times (worst case), peak hour aerial analyses and peak hour intersection analyses were conducted to better understand the actual travel flow along the roadways. Roadway segments in which are built to their ultimate classification, the peak hour arterial LOS, and the intersections at either end of the segment are projected to operate at acceptable LOS D or better are not considered to have a significant impact, since the actual travel flow along the segment is consider to be acceptable.

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue – LOS E. The Proposed Project would add 3,486 daily trips, resulting in an increase of 0.436 in V/C ratio. Therefore, the following additional analyses were conducted to determine if the roadway segment would be significantly impacted:

    - The arterial level of service analysis identifies this roadway segment to operate at LOS E in the EB and WB directions during both the AM and PM peak hours;
    - The intersections of Mt Everest Boulevard/Mt Etna Drive and Genesee Avenue/Mt Etna Drive are projected to operate at LOS C or better during both AM and PM peak hours;
    - Therefore, the Proposed Project **would result** in a significant impact to this roadway segment.

- Balboa Avenue, between Cannington Drive and Charger Boulevard – LOS F. The Proposed Project would add 962 daily trips, resulting in an increase of 0.019 in V/C ratio. Therefore, the following additional analyses were conducted to determine if the roadway segment would be significantly impacted:

    - The arterial level of service analysis identifies this roadway segment to operate at LOS E and LOS D in the EB and WB directions, respectively, during the AM peak hour, and LOS F and LOS D in the EB and WB directions, respectively, during the PM peak hour;
    - The intersections of Mt Albertine Avenue/Cannington Drive/Balboa Avenue and Eckstrom Avenue/Charger Boulevard/Balboa Avenue are projected to operate at LOS D or better during both AM and PM peak hours;
    - Therefore, the Proposed Project **would result** in a significant impact to this roadway segment.

- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps – The Proposed Project would add 962 daily trips, resulting in an increase of 0.019 in V/C ratio. Therefore, the following additional analyses were conducted to determine if the roadway segment would be significantly impacted:

- The arterial level of service analysis identifies this roadway segment to operate at LOS B and LOS C in the EB and WB directions, respectively, during the AM peak hour, and LOS B and LOS D in the EB and WB directions, respectively, during the PM peak hour;
- The intersections of Eckstrom Avenue/Charger Boulevard/Balboa Avenue and I-805 Southbound Ramps/Balboa Avenue are projected to operate at LOS D or better during both AM and PM peak hours;
- Therefore, the Proposed Project **would not result** in a significant impact to this roadway segment.

Intersection Analysis

Table 5.2 displays intersection LOS and average vehicle delay results under Existing Plus Project conditions. Level of service calculation worksheets for the Existing Plus Project conditions are provided in **Appendix E**.

As shown in Table 5.2, all of the study area intersections would continue to operate at acceptable LOS D or better, during both the AM and PM peak hours, with the addition of Project traffic, with the exception of the following four (4) intersections:

- Genesee Avenue & Clairemont Mesa Boulevard – LOS E during the PM peak hour;
- Clairemont Drive & Balboa Avenue – LOS E during the PM peak hour;
- Mt Everest Boulevard & Balboa Avenue – LOS F during the AM peak hour and LOS E during the PM peak hour; and
- Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour.

Based on the City of San Diego Significance Criteria, outlined in Section 2.5, the traffic associated with the Proposed Project would cause a significant impact to the following three (3) intersections:

- Genesee Avenue & Clairemont Mesa Boulevard;
- Clairemont Drive & Balboa Avenue; and
- Mt Everest Boulevard & Balboa Avenue.

Table 5.2 Peak Hour Intersection Level of Service Results - Existing Plus Project Conditions

Intersection	Control	AM Peak Hour		PM Peak Hour		Delay w/o Project (sec) AM/PM	LOS w/o Project AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM
		Avg. Delay (sec)	LOS	Avg. Delay (sec)	LOS				
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	43.2	D	62.9	**E**	42.6 / 59.9	D / **E**	0.6 / 3.0	N / **Y**
2. Genesee Avenue & Bannock Avenue	Signal	19.8	B	10.5	B	19.7 / 10.5	B / B	0.1 / 0.0	N / N
3. Genesee Avenue & Chateau Drive	Signal	11.3	B	4.7	A	11.0 / 4.7	B / A	0.3 / 0.0	N / N
4. Genesee Avenue & Mt Herbert Avenue	Signal	13.7	B	7.7	A	13.7 / 7.8	B / A	0.0 / -0.1	N / N
5. Genesee Avenue & Derrick Drive	Signal	16.8	B	52.4	D	16.9 / 50.9	B / D	-0.1 / 1.5	N / N
6. Mt Everest Boulevard & Mt Etna Drive	AWSC	9.3	A	11.3	B	9.0 / 10.6	A / B	0.3 / 0.7	N / N
7. Genesee Avenue & Mt Etna Drive	Signal	23.8	C	26.7	C	20.1 / 24.5	C / C	3.7 / 2.2	N / N
8. Clairemont Drive & Balboa Avenue	Signal	38.3	D	62.6	**E**	37.7 / 60.1	D / **E**	0.6 / 2.5	N / N
9. Mt Everest Boulevard & Balboa Avenue	Signal	84.3	**F**	60.6	**E**	73.7 / 58.7	**E** / **E**	10.6 / 1.9	N / **Y**
10. Genesee Avenue & Balboa Avenue	Signal	38.8	D	60.3	**E**	36.3 / 59.1	D / **E**	2.5 / 1.2	**Y** / N
11. Shopping Center Driveway & Balboa Avenue	Signal	21.1	C	15.0	B	20.9 / 15.4	C / B	0.2 / -0.4	N / N
12. Mt Abernathy Avenue & Balboa Avenue	Signal	37.5	D	41.8	D	35.8 / 41.6	D / D	1.7 / 0.2	N / N
13. Cannington Drive & Balboa Avenue	Signal	10.5	B	26.6	C	10.6 / 24.0	B / C	-0.1 / 2.6	N / N
14. Charger Boulevard & Balboa Avenue	Signal	45.3	D	33.2	C	43.4 / 33.3	D / C	1.9 / -0.1	N / N
15. I-805 Southbound Ramps & Balboa Avenue	Signal	9.5	A	7.7	A	9.5 / 7.5	A / A	0.0 / 0.2	N / N
16. I-805 Northbound Ramps & Balboa Avenue	Signal	8.7	A	9.1	A	8.8 / 9.1	A / A	-0.1 / 0.0	N / N
17. Genesee Avenue & Mt Alifan Drive	Signal	47.6	D	50.5	D	47.6 / 50.5	D / D	0.0 / 0.0	N / N
18. Project Driveway & Mt Etna Drive	SSSC	10.5	B	12.2	B	DNE	DNE	10.5 / 12.2	N / N

Source: Chen Ryan Associates; March 2019

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.

Ramp Metering Analysis

Table 5.3 summarizes the freeway ramp metering analysis results under Existing Plus Project conditions.

Table 5.3 Ramp Metering Analysis – Existing Plus Project Conditions

On-Ramp	# of Lanes SOV	# of Lanes HOV	Peak Hour	Demand[1] (veh/hr) per lane	Meter Rate[2] (veh/hr) per lane	Excess Demand[3] (veh/hr) per lane	Delay[4] (min)	Queue[5] (ft)	Storage Length (ft)	Excess Queue (ft)	Delay w/o Project (min)	Δ Delay (min)	S?
I-805 SB On-Ramp @ Balboa Ave EB	1	1	PM	395	423	0	0	0	1,000	0	0	0.0	No
I-805 NB Ramp @ Balboa Ave EB	1	1	AM	316	511	0	0	0	410	0	0	0.0	No

Source: Chen Ryan Associates; March 2019

Notes:
SOV = Single Occupancy Vehicle; HOV = High Occupancy Vehicle.
Based upon field observation it is estimated that 20% of the vehicles at these ramp meters use the HOV lane when available. Since the majority of trips existing the school during the PM Peak hour would be parents picking up students, it is assumed that 90% of the Proposed Project trips during the PM peak hours would use the HOV lane.
[1] Demand is the peak hour demand expected to use the on-ramp.
[2] Meter Rate is the peak hour capacity expected to be processed through the ramp meter. This value was obtained from Caltrans.
[3] Excess Demand = (Demand) – (Meter Rate) or zero, whichever is greater.
[4] Delay = (Excess Demand / Meter Rate) X 60 min/hr.
[5] Queue = (Excess Demand) X 29 ft/veh.

As shown in the table, the anticipated peak hour demand would not exceed the average meter rate at either of the study ramp meter locations. Based upon the significance criteria presented in Section 2.5 of this report, the addition of Project traffic would not cause a significant impact to any of the study ramp meter locations.

5.3 Impact Significance and Mitigation

As mentioned previously in this section, Existing Plus Project is a hypothetical scenario, therefore, the mitigation measures described below are presented for informational purposes only.

Based upon the significance criteria presented in Section 2.5 of this report, the addition of Project traffic would cause a significant impact to two (2) roadway segments, three (3) intersections, and no ramp meters under Existing Plus Project conditions. The following mitigation measures would be required to mitigate the Project impact to less than significant:

Roadways:

The traffic generated by the Proposed Project is anticipated to create an impact at the following two (2) roadway segments:

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue Provide additional right-of-way and widen the roadway from a 2-Lane Collector to a 2-Lane Collector with a Continuous-Left-Turn-Lane (or construct left turn pocket where needed) prior to the project's total trip generation of 2,077 ADT. This roadway is along the Project's frontage, so providing a separate left-turn lane into the Project site would provide additional capacity and would fully mitigate the significant traffic impact associated with the Proposed Project. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the classification of this roadway, additional right-of-way would be required to implement this measure; therefore, this impact would remain *significant and unavoidable*.

- Balboa Avenue, between Cannington Drive and Charger Boulevard – Reclassify the roadway from a 6-Lane Major Arterial to a 6-Lane Primary Arterial prior to the project's total trip generation of 1,811 ADT. The significant traffic impact associated with the Proposed Project along this roadway would be fully mitigated with the implementation of this measure. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the existing land use fronting this roadway (i.e. residential and school uses) as well as the right-of-way constraints, a classification change would not be feasible. Therefore, this impact would remain *significant and unavoidable*.

Intersections:

The traffic generated by the Proposed Project is anticipated to create an impact at the following three (3) intersections:

1. Genesee Avenue & Clairemont Mesa Boulevard – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 900 ADT.

   The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

8. Clairemont Drive & Balboa Avenue - Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 900 ADT.

The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

9. Mt Everest Boulevard & Balboa Avenue – Restripe the northbound and southbound approaches on Mt Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing. This improvement must be implemented prior to the project's total trip generation of 650 ADT. Implementing this improvement could be done within the existing right-of-way and would reduce intersection delays to pre-Project conditions. However, the County of San Diego cannot guarantee improvements to an intersection under the jurisdiction of the City of San Diego. Therefore, this impact would remain *significant and unavoidable*.

Table 5.4 displays intersection LOS and average vehicle delay results under Existing Plus Project with Mitigation conditions. The trigger analysis worksheets and level of service calculation worksheets for the Existing Plus Project with Mitigation conditions are provided in **Appendix F**.

Table 5.4 Peak Hour Intersection Level of Service Results - Existing Plus Project with Mitigation Conditions

Intersection	Control	AM Peak Hour		PM Peak Hour		Delay w/o Project (sec) AM/PM	LOS w/o Project AM/PM	Change in Delay (sec)	M?
		Avg. Delay (sec)	LOS	Avg. Delay (sec)	LOS				
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	39.9	D	50.8	D	42.6 / 59.9	D / **E**	-2.7 / -9.1	Y
8. Clairemont Drive & Balboa Avenue	Signal	37.9	D	55.1	**E**	37.7 / 60.1	D / **E**	0.2 / -5.0	Y
9. Mt Everest Boulevard & Balboa Avenue	Signal	38.7	D	25.4	C	73.7 / 58.7	**E / E**	-35.0 / -33.3	Y

Source: Chen Ryan Associates; March 2019

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
M? = Impact Mitigated?

As shown in Table 5.4, the proposed mitigation measures would either reduce the Proposed Project impact to less than significant or mitigated the Proposed Project impact to better than pre-Project conditions. However, the Genesee Avenue/Clairemont Mesa Boulevard and Clairemont Drive/Balboa Avenue intersections are considered to have significant and unavoidable impacts since these intersections are under the City's jurisdiction, so implementation of the mitigation is not under the control of the Project.

Ramp Meters:

No impacts were identified. Therefore, no mitigation is required.

6.0 Near-Term Base (Year 2021)

This section provides an analysis of Year 2021, which is the opening year of the Project, traffic conditions both with and without the Proposed Project. The scenarios analyzed in this section include:

- Near-Term Year 2021 Base
- Near-Term Year 2021 Base Plus Project

6.1 Near-Term Base (Year 2021) Roadway Network and Traffic Volumes

Based on review of the City's "Open DSD" website (last accessed on January 23, 2019), and consultation with City staff, six projects were identified to potentially add traffic to the Project study area. **Table 6.1** displays all cumulative projects used to develop Near-Term Year 2021 Base Volumes.

Table 6.1 Cumulative Projects

Project ID	Project	Address	Project Description
327976	Jefferson Pacific Beach	4275 Mission Bay Drive	Demolish 36,000 square feet of retail space and construction of 3-stories of residential units over ground floor retail and underground parking. Per developer site, 172 apartment units and 14,000 sq. feet of retail space.
-	HTH Clairemont	5331 Mt Alifan Drive	High Tech High is proposing to provide educational services to a maximum of 1,110 students in grades TK-12.
388165	Mt Acadia CUP TPM	3560 Mt Acadia Boulevard	Demolish an existing commercial building and construct a 59,472 sq. ft residential care facility and a 5,672 sq. ft retail building.
489476	The Summit at MB – EOT	3139 Clairemont Drive	Develop approximately 499 residential units which would replace an existing 323-unit apartment complex.
530427	Fairfield Marriott Suites CDP	4345 Mission Bay Drive	Demolish existing buildings and develop a 106-unit hotel
-	Lindbergh-Schweitzer Elementary School	4133 Mt Albertine Avenue	Relocate existing Kavod Charter School from Cubberley Elementary School to the existing Schweitzer Campus

Source: City of San Diego Open DSD, Accessed January 23, 2019

Cumulative project trips were generated using *City of San Diego Land Development Code - Trip Generation Manual 2003* and Chula Vista High Tech High trip generation rates derived for trip generation study conducted by Chen Ryan Associates in June 2017. **Table 6.2** displays the trip generation of all cumulative projects shown in Table 6.1.

Table 6.2 Cumulative Project Trip Generation

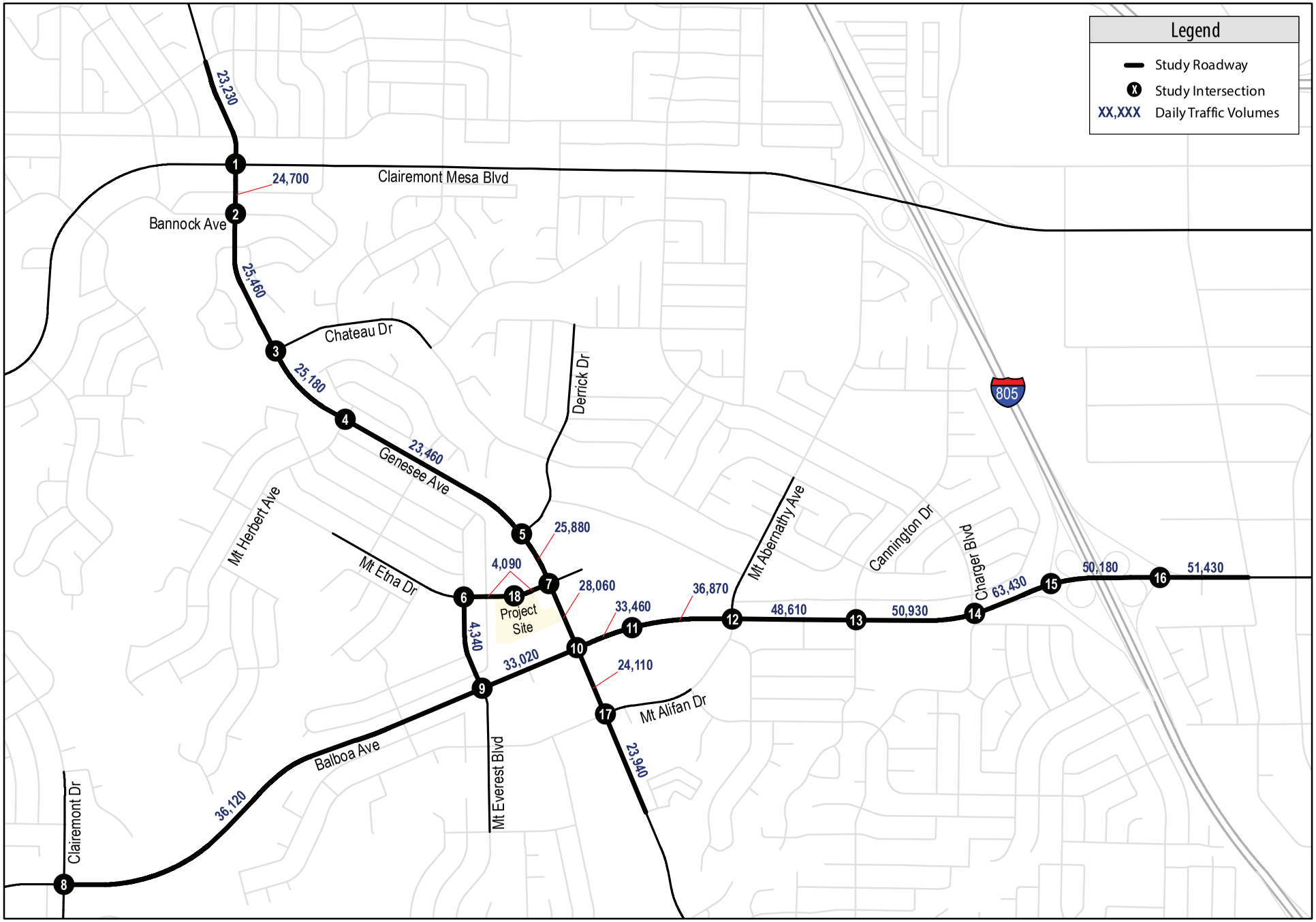
Land Use	Units	Trip Rate	ADT	AM Peak Hour					PM Peak Hour				
				%	Trips	Split	In	Out	%	Trips	Split	In	Out
Jefferson at Pacific Beach	172 MF Units	6 / DU	1,032	8.0%	83	(2:8)	17	66	9.0%	93	(7:3)	65	28
	14 Retail KSF	110 / KSF	1,540	3.0%	47	(6:4)	28	19	9.0%	139	(5:5)	70	69
HTH Clairemont*	1,110 Students	2.5 / Student	2,775	35.9%	999	(5.6:4.4)	559	440	12.0%	333	(4.5: 5.5)	150	183
HTH Clairemont* – 9th Grade Enrollment Captured in Existing Counts	100 Students	2.5 / Student	-250	35.9%	-90	(5.6:4.4)	-50	-40	12.0%	-30	(4.5: 5.5)	-14	-16
Mt Acadia CUP TPM	57 Congregate Care DU	2 / DU	114	3.0%	4	(6:4)	2	2	8.0%	10	(5:5)	5	5
	4.4 Retail KSF	40 / KSF	176	4.0%	8	(7:3)	6	2	9.0%	16	(5:5)	8	8
Fairfield Marriott Suites CDP	106 Units	8 / DU	848	5.0%	43	(6:4)	26	17	7.0%	60	(4:6)	24	36
Lindbergh – Schweitzer Elementary School	280 Students	2.9 / Student	812	31.0%	252	(6:4)	151	101	19.0%	154	(4:6)	62	93
The Summit at MB – EOT (Proposed)	499 Units	6 / DU	2,994	8.0%	240	(2:8)	48	192	9.0%	269	(7:3)	189	80
The Summit at MB – EOT (Existing)**	323 Units	6 / DU	-1,938	8.0%	-155	(2:8)	-31	-124	9.0%	-174	(7:3)	-122	-52
Cumulative Total			**8,103**		**1,431**		**756**	**675**		**870**		**437**	**434**

Source: Chen Ryan Associates; City of San Diego Land Development Code – Trip Generation Manual, May 2003

Notes:
* HTH Trip Estimates based on rates from Chula Vista High Tech High study
** Existing residential units for The Summit were removed as trip credits

Roadway and intersection geometrics under Near-Term Year 2021 Base conditions were assumed to be identical to the Existing conditions, as shown in Figure 4-1 previously.

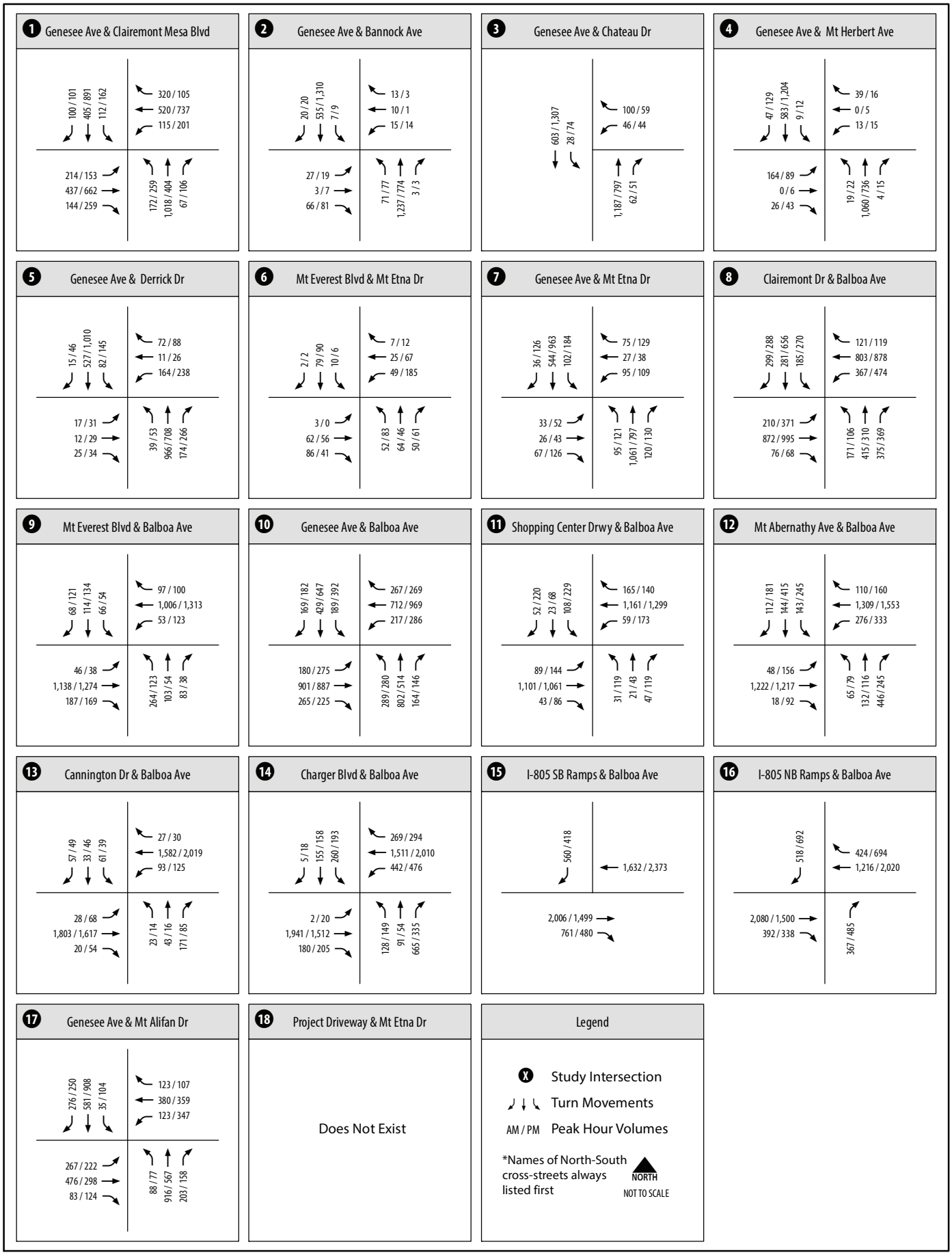
Figure 6-1 displays average daily roadway and peak hour intersection volumes for the study roadway segments and intersections under the Near-Term Year 2021 Base conditions.



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Figure 6-1
Traffic Volumes - Near-Term Year 2021
Base Conditions



Clairemont Mesa Community Plan Amendment and Zone Change - Transportation Impact Study

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Figure 6-1
Traffic Volumes - Near-Term Year 2021 Base Conditions

6.2 Near-Term Base (Year 2021) Traffic Conditions

LOS analyses for the Near-Term Year 2021 Base conditions were conducted using the methodologies described in Chapter 2.0. Roadway segment and intersection level of service, as well as freeway ramp meter analysis results for Near-Term Year 2021 Base conditions are discussed separately below.

Roadway Segment Analysis

Table 6.3 displays the Level of Service analysis results for key roadway segments under Near-Term Year 2021 Base conditions. As shown in Table 6.3, all of the study area roadway segments are projected to operate at an acceptable LOS under the Near-Term Year 2021 Base conditions with the exception of the following five (5) roadway segments:

- Balboa Avenue, between Clairemont Drive and Mt Everest Boulevard (LOS E);
- Balboa Avenue, between Mt Abernathy Avenue and Cannington Drive (LOS E);
- Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS F);
- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F); and
- Balboa Avenue, between I-805 Northbound Ramps and Ruffner Street (LOS F).

Table 6.3 Roadway Segment Level of Service Results – Near-Term Year 2021 Base Conditions

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	V/C	LOS
Genesee Avenue	Between Appleton Street & Clairemont Mesa Boulevard	4-Ln Major Arterial	Raised Median	23,230	40,000	0.581	C
	Between Clairemont Mesa Boulevard & Bannock Avenue	4-Ln Major Arterial	Undivided	24,700	40,000	0.618	C
	Between Bannock Avenue & Chateau Drive	4-Ln Major Arterial	Raised Median	25,460	40,000	0.637	C
	Between Chateau Drive & Mt Herbert Avenue	4-Ln Major Arterial	Raised Median	25,180	40,000	0.630	C
	Between Mt Herbert Avenue & Derrick Drive	4-Ln Major Arterial	Raised Median	23,460	40,000	0.587	C
	Between Derrick Drive & Mt Etna Drive	6-Ln Major Arterial	Raised Median	25,880	50,000	0.518	B
	Between Mt Etna Drive & Balboa Avenue	5-Ln Major Arterial	Raised Median	28,060	45,000	0.624	C
	Between Balboa Avenue & Mt Alifan Drive	5-Ln Major Arterial	Raised Median	24,110	45,000	0.536	B
	Between Mt Alifan Drive & Genesee Court	4-Ln Major Arterial	Raised Median	23,940	40,000	0.599	C
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Ln Collector w/o CLTL	Undivided	4,340	8,000	0.543	C
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	4,090	8,000	0.511	C
Balboa Avenue	Between Clairemont Drive & Mt Everest Boulevard	4-Ln Major Arterial	Raised Median	36,120	40,000	0.903	**E**
	Between Mt Everest Boulevard & Genesee Avenue	4-Ln Major Arterial	Raised Median	33,020	40,000	0.826	D
	Between Genesee Avenue & Shopping Center Driveway	6-Ln Major Arterial	Raised Median	33,460	50,000	0.669	C
	Between Shopping Center Driveway & Mt Abernathy Avenue	6-Ln Major Arterial	Raised Median	36,870	50,000	0.737	C
	Between Mt Abernathy Avenue & Cannington Drive	6-Ln Major Arterial	Raised Median	48,610	50,000	0.972	**E**
	Between Cannington Drive & Charger Boulevard	6-Ln Major Arterial	Raised Median	50,930	50,000	1.019	**F**
	Between Charger Boulevard & I-805 Southbound Ramps	6-Ln Major Arterial	Raised Median	63,430	50,000	1.269	**F**
	Between I-805 Southbound Ramps & I-805 Northbound Ramps*	8-Ln Prime Arterial	Raised Median	50,180	80,000	.627	C
	Between I-805 Northbound Ramps & Ruffner Street	6-Ln Major Arterial	Raised Median	51,430	50,000	1.029	**F**

Source: Chen Ryan Associates; March 2019

Notes:
*The Balboa Ave segment between the I-805 ramps are classified as a 6-lane major according to the Clairemont Community Plan; however, the actual roadway cross-section includes eight lanes (two of which are auxiliary ramp lanes).
Bold letter indicates unacceptable LOS E or F.
ADT = Average Daily Traffic.
V/C = Volume to Capacity Ratio.
LOS = Level of Service.
Ln = Lane.
CLTL = Continuous Left-Turn Lane.

Intersection Analysis

Table 6.4 displays intersection LOS and average vehicle delay results under Near-Term Year 2021 Base conditions. Level of service calculation worksheets for the Near-Term Year 2021 Base conditions are provided in **Appendix G**.

Table 6.4 Peak Hour Intersection Level of Service Results - Near-Term Year 2021 Base Conditions

Intersection	Control	AM Peak Hour		PM Peak Hour	
		Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	43.0	D	61.5	**E**
2. Genesee Avenue & Bannock Avenue	Signal	20.0	B	10.4	B
3. Genesee Avenue & Chateau Drive	Signal	11.4	B	4.6	A
4. Genesee Avenue & Mt Herbert Avenue	Signal	13.6	B	7.7	A
5. Genesee Avenue & Derrick Drive	Signal	17.0	B	51.1	D
6. Mt Everest Boulevard & Mt Etna Drive	AWSC	9.4	A	10.8	B
7. Genesee Avenue & Mt Etna Drive	Signal	19.7	B	24.6	C
8. Clairemont Drive & Balboa Avenue	Signal	48.0	D	68.2	**E**
9. Mt Everest Boulevard & Balboa Avenue	Signal	116.5	**F**	64.7	**E**
10. Genesee Avenue & Balboa Avenue	Signal	41.1	D	59.2	**E**
11. Shopping Center Driveway & Balboa Avenue	Signal	21.1	C	15.1	B
12. Mt Abernathy Avenue & Balboa Avenue	Signal	39.1	D	44.4	D
13. Cannington Drive & Balboa Avenue	Signal	10.5	B	28.9	C
14. Charger Boulevard & Balboa Avenue	Signal	64.7	**E**	42.9	D
15. I-805 Southbound Ramps & Balboa Avenue	Signal	12.5	B	9.0	A
16. I-805 Northbound Ramps & Balboa Avenue	Signal	8.8	A	9.1	A
17. Genesee Avenue & Mt Alifan Drive	Signal	58.6	**E**	55.2	**E**
18. Mt Etna Drive & Project Driveway #1	DNE	-	-	-	-

Source: Chen Ryan Associates; March 2019

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
DNE = Does Not Exist.

As shown, all of the study area intersections are projected to operate at acceptable LOS D or better during both the AM and PM peak hours, under Near-Term Year 2021 Base conditions with the exception of the following six (6) intersections:

- Genesee Avenue & Clairemont Mesa Boulevard – LOS E during the PM peak hour;
- Clairemont Drive & Balboa Avenue – LOS E during the PM peak hour;
- Mt Everest Boulevard & Balboa Avenue – LOS F during the AM peak hour and LOS E during the PM peak hour;
- Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour;
- Charger Boulevard & Balboa Avenue – LOS E during the AM peak hour; and
- Genesee Avenue & Mt Alifan Drive – LOS E during both the AM and PM peak hours.

Ramp Metering Analysis

Table 6.5 summarizes the freeway ramp metering analysis results under Near-Term Year 2021 Base Conditions.

Table 6.5 Ramp Metering Analysis - Near-Term Year 2021 Base Conditions

On-Ramp	# of Lanes		Peak Hour	Demand[1] (veh/hr) per lane	Meter Rate[2] (veh/hr) per lane	Excess Demand[3] (veh/hr) per lane	Delay[4] (min)	Queue[5] (ft)	Storage Length (ft)	Excess Queue (ft)
	SOV	HOV								
I-805 SB On-Ramp @ Balboa Ave EB	1	1	PM	384	423	0	0	0	1,000	0
I-805 NB Ramp @ Balboa Ave EB	1	1	AM	314	511	0	0	0	410	0

Source: Chen Ryan Associates; March 2019

Notes:
SOV = Single Occupancy Vehicle; HOV = High Occupancy Vehicle.
[1] Demand is the peak hour demand expected to use the on-ramp.
[2] Meter Rate is the peak hour capacity expected to be processed through the ramp meter. This value was obtained from Caltrans.
[3] Excess Demand = (Demand) – (Meter Rate) or zero, whichever is greater.
[4] Delay = (Excess Demand / Meter Rate) X 60 min/hr.
[5] Queue = (Excess Demand) X 29 ft/veh.

As shown in Table 6.5, the anticipated peak hour demand is not anticipated to exceed the meter rate at either of the study ramp meter locations.

6.3 Near-Term Base (Year 2021) Plus Project Roadway Network and Traffic Volumes

Roadway and intersection geometrics under Near-Term Year 2021 Base Plus Project conditions were assumed to be identical to Existing and Near-Term Year 2021 Base Conditions geometrics, as shown in Figure 4-1.

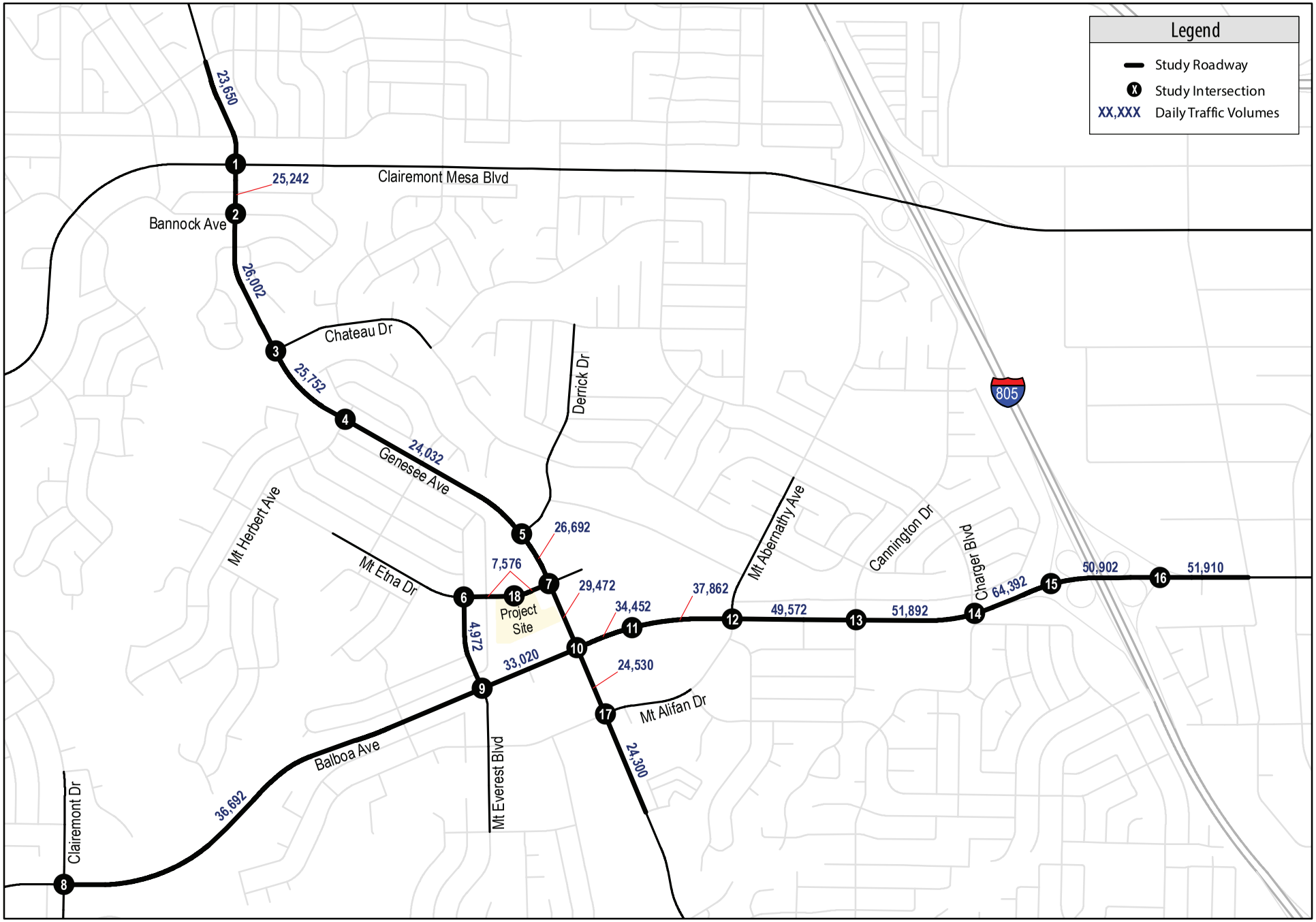
Near-Term Year 2021 Base Plus Project traffic volumes were derived by combining the Near-Term Year 2021 Base traffic volumes (displayed in Figure 6-3) and the Project trip assignment with (displayed in Figure 5-2). Daily and peak hour intersection volumes for this scenario are displayed in **Figure 6-2**.

6.4 Near-Term Base (Year 2021) Plus Project Traffic Conditions

Analyses were conducted using the methodologies described in Chapter 2.0. Roadway segment and intersection level of service, as well as freeway ramp meter analysis results are discussed in the following sections.

Roadway Segment Analysis

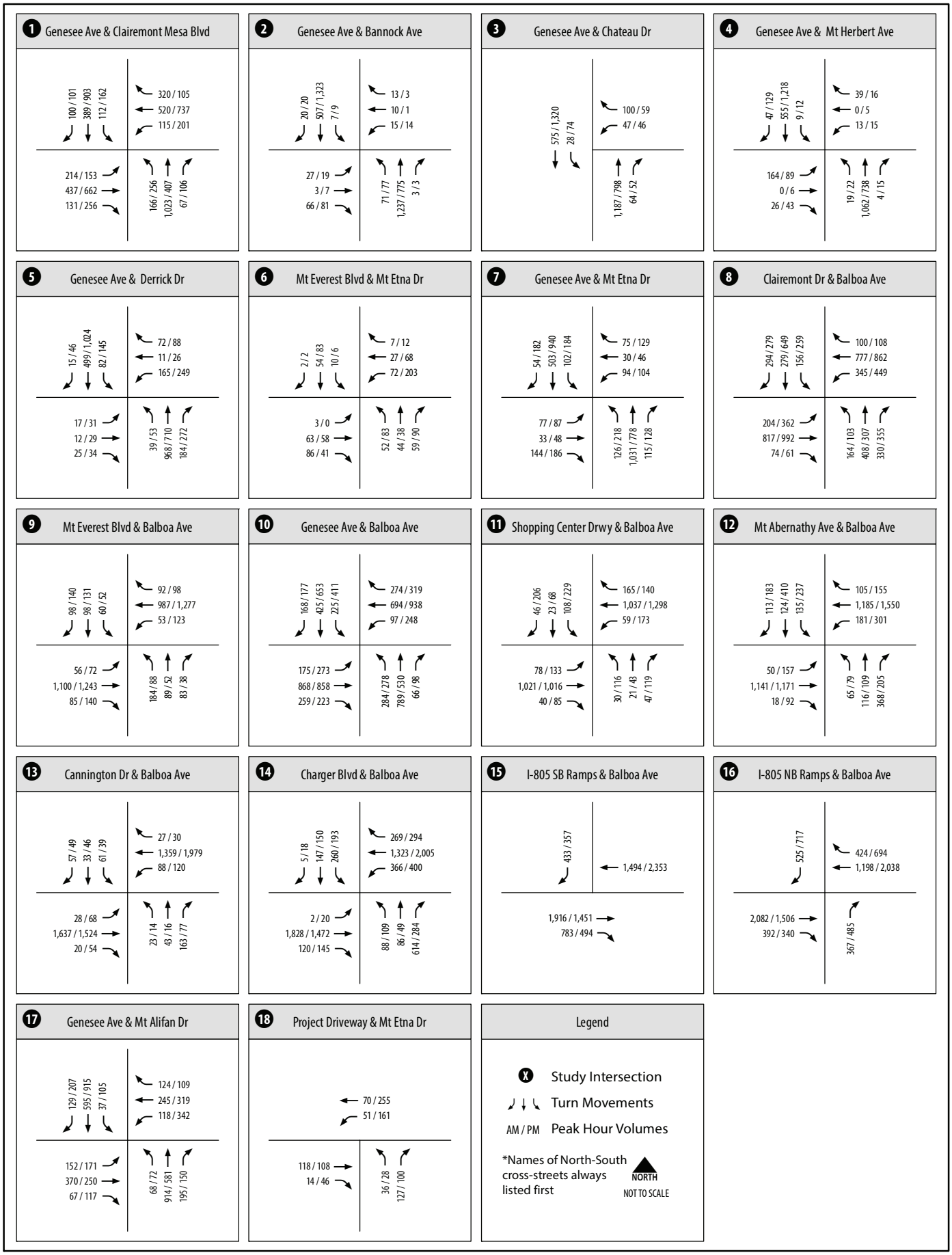
Table 6.6 displays the Level of Service analysis results for key roadway segments under Near-Term Year 2021 Base Plus Project conditions.



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Figure 6-2
Traffic Volumes - Near-Term Year 2021 Base Plus Project Conditions



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Figure 6-2
Traffic Volumes - Near-Term Year 2021 Base Plus Project Conditions

Table 6.6 Roadway Segment Level of Service Results - Near-Term Year 2021 Base Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	With Project		Base		Δ	S?
						V/C	LOS	V/C	LOS		
Genesee Avenue	Between Appleton Street & Clairemont Mesa Boulevard	4-Ln Major Arterial	Raised Median	23,650	40,000	0.591	C	0.581	C	0.011	N
	Between Clairemont Mesa Boulevard & Bannock Avenue	4-Ln Major Arterial	Undivided	25,242	40,000	0.631	C	0.618	C	0.014	N
	Between Bannock Avenue & Chateau Drive	4-Ln Major Arterial	Raised Median	26,002	40,000	0.65	C	0.637	C	0.014	N
	Between Chateau Drive & Mt Herbert Avenue	4-Ln Major Arterial	Raised Median	25,752	40,000	0.644	C	0.63	C	0.014	N
	Between Mt Herbert Avenue & Derrick Drive	4-Ln Major Arterial	Raised Median	24,032	40,000	0.601	C	0.587	C	0.014	N
	Between Derrick Drive & Mt Etna Drive	6-Ln Major Arterial	Raised Median	26,692	50,000	0.534	B	0.518	B	0.016	N
	Between Mt Etna Drive & Balboa Avenue	5-Ln Major Arterial	Raised Median	29,472	45,000	0.655	C	0.624	C	0.031	N
	Between Balboa Avenue & Mt Alifan Drive	5-Ln Major Arterial	Raised Median	24,530	45,000	0.545	C	0.536	B	0.009	N
	Between Mt Alifan Drive & Genesee Court	4-Ln Major Arterial	Raised Median	24,300	40,000	0.608	C	0.599	C	0.009	N
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Ln Collector w/o CLTL	Undivided	4,972	8,000	0.622	C	0.543	C	0.079	N
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	7,576	8,000	0.947	**E**	0.511	C	0.436	**Y**

Table 6.6 Roadway Segment Level of Service Results - Near-Term Year 2021 Base Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	With Project		Base		Δ	S?
						V/C	LOS	V/C	LOS		
Balboa Avenue	Between Clairemont Drive & Mt Everest Boulevard	4-Ln Major Arterial	Raised Median	36,692	40,000	0.917	**E**	0.903	**E**	0.014	N
	Between Mt Everest Boulevard & Genesee Avenue	4-Ln Major Arterial	Raised Median	33,020	40,000	0.826	D	0.826	D	0	N
	Between Genesee Avenue & Shopping Center Driveway	6-Ln Major Arterial	Raised Median	34,452	50,000	0.689	C	0.669	C	0.02	N
	Between Shopping Center Driveway & Mt Abernathy Avenue	6-Ln Major Arterial	Raised Median	37,862	50,000	0.757	C	0.737	C	0.02	N
	Between Mt Abernathy Avenue & Cannington Drive	6-Ln Major Arterial	Raised Median	49,572	50,000	0.991	**E**	0.972	**E**	0.019	N
	Between Cannington Drive & Charger Boulevard	6-Ln Major Arterial	Raised Median	51,892	50,000	1.038	**F**	1.019	**F**	0.019	**Y**
	Between Charger Boulevard & I-805 Southbound Ramps	6-Ln Major Arterial	Raised Median	64,392	50,000	1.288	**F**	1.269	**F**	0.019	**Y**
	Between I-805 Southbound Ramps & I-805 Northbound Ramps*	8-Ln Prime Arterial	Raised Median	50,902	80,000	0.636	C	0.627	C	0.009	N
	Between I-805 Northbound Ramps & Ruffner Street	6-Ln Major Arterial	Raised Median	51,910	50,000	1.038	**F**	1.029	**F**	0.01	N

Source: Chen Ryan Associates; March 2019

Notes:
*The Balboa Ave segment between the I-805 ramps are classified as a 6-lane major according to the Clairemont Community Plan; however, the actual roadway cross-section includes eight lanes (two of which are auxiliary ramp lanes).
Bold letter indicates unacceptable LOS E or F.
ADT = Average Daily Traffic.
V/C = Volume to Capacity Ratio.
LOS = Level of Service.
Ln = Lane.
CLTL = Continuous Left-Turn Lane.
S? = Indicates if change in V/C ratio is significant.
Δ = Change in V/C Ratio.

As shown in the Table 6.6 all of the study area roadway segments are projected to continue operating at acceptable LOS D or better under Near-Term Year 2021 Base Plus Project conditions with the exceptions of the following six (6) roadway segments:

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue (LOS E);
- Balboa Avenue, between Clairemont Drive and Mt Everest Boulevard (LOS E);
- Balboa Avenue, between Mt Abernathy Avenue and Cannington Drive (LOS E);
- Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS F);
- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F); and
- Balboa Avenue, between I-805 Northbound Ramps and Ruffner Street (LOS F).

Of these six (6) roadway segments, the following three (3) could potentially result in a significant impact based on the significance criteria outlined in Section 2.5. As noted in section 2.2, daily roadway LOS is typically used only at the planning level and does not necessarily indicate true roadway operations. Therefore, to determine if the identified roadway segments operate at acceptable levels during peak times (worst case) peak hour aerial analyses and peak hour intersection analyses were conducted to better understand the actual travel flow along the roadways. Roadway segments in which are built to their ultimate classification, the peak hour arterial LOS, and the intersections at either end of the segment are projected to operate at acceptable LOS D or better are not considered to have a significant impact, since the actual travel flow along the segment is consider to be acceptable.

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue – LOS E. The Proposed Project would add 3,486 daily trips, resulting in an increase of 0.436 in V/C ratio. Therefore, the following additional analyses were conducted to determine if the roadway segment would be significantly impacted:

    - The arterial level of service analysis identifies this roadway segment to operate at LOS E in the EB and WB directions during both the AM and PM peak hours;
    - The intersections of Mt Everest Boulevard/Mt Etna Drive and Genesee Avenue/Mt Etna Drive are projected to operate at LOS C or better during both AM and PM peak hours;
    - Therefore, the Proposed Project **would result** in a significant impact to this roadway segment.

- Balboa Avenue, between Cannington Drive and Charger Boulevard – LOS F. The Proposed Project would add 962 daily trips, resulting in an increase of 0.019 in V/C ratio. Therefore, the following additional analyses were conducted to determine if the roadway segment would be significantly impacted:

    - The arterial level of service analysis identifies this roadway segment to operate at LOS E and LOS D in the EB and WB directions, respectively, during the AM peak hour, and LOS F and LOS D in the EB and WB directions, respectively, during the PM peak hour;

- The intersections of Mt Albertine Avenue/Cannington Drive/Balboa Avenue and Eckstrom Avenue/Charger Boulevard/Balboa Avenue are projected to operate at LOS D or better during both AM and PM peak hours;
- Therefore, the Proposed Project **would result** in a significant impact to this roadway segment.

- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps – The Proposed Project would add 962 daily trips, resulting in an increase of 0.019 in V/C ratio. Therefore, the following additional analyses were conducted to determine if the roadway segment would be significantly impacted:
  - The arterial level of service analysis identifies this roadway segment to operate at LOS B and LOS C in the EB and WB directions, respectively, during the AM peak hour, and LOS B and LOS D in the EB and WB directions, respectively, during the PM peak hour;
  - The intersection of Eckstrom Avenue/Charger Boulevard/Balboa Avenue is projected to operate at LOS E in the AM peak hour and LOS D in the PM peak hour, and the I-805 Southbound Ramps/Balboa Avenue is projected to operate at LOS B or better during both AM and PM peak hours;
  - Therefore, the Proposed Project **would result** in a significant impact to this roadway segment.

Intersection Analysis

Table 6.7 displays intersection Level of Service and average vehicle delay results under Near-Term Year 2021 Base Plus Project conditions. Level of Service calculation worksheets for the Year 2021 Base Plus Project conditions are provided in **Appendix H**.

As shown in Table 6.7, all of the study area intersections are projected to operate at acceptable LOS D or better during both the AM and PM peak hours under Near-Term Year 2021 Base Plus Project conditions, with the exception of the following six (6) intersections:

- Genesee Avenue & Clairemont Mesa Boulevard – LOS E during the PM peak hour;
- Clairemont Drive & Balboa Avenue – LOS E during the PM peak hour;
- Mt Everest Boulevard & Balboa Avenue – LOS F during the AM peak hour and LOS E during the PM peak hour;
- Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour;
- Charger Boulevard & Balboa Avenue – LOS E during the AM peak hour; and
- Genesee Avenue & Mt Alifan Drive – LOS E during both the AM and PM peak hours.

Based on the City of San Diego Significance Criteria, outlined in Section 2.5, the traffic associated with the Proposed Project would cause a significant impact to the following four (4) study intersections:

- Genesee Avenue & Clairemont Mesa Boulevard;
- Clairemont Drive & Balboa Avenue;
- Mt Everest Boulevard & Balboa Avenue; and
- Charger Boulevard & Balboa Avenue.

Table 6.7 Peak Hour Intersection Level of Service Results - Near-Term Year 2021 Base Plus Project Conditions

Intersection	Control	AM Peak Hour		PM Peak Hour		Delay w/o Project (sec) AM/PM	LOS w/o Project AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM
		Avg. Delay (sec)	LOS	Avg. Delay (sec)	LOS				
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	43.6	D	64.5	**E**	43.0 / 61.5	D / **E**	0.6 / 3.0	N / **Y**
2. Genesee Avenue & Bannock Avenue	Signal	20.1	C	10.4	B	20.0 / 10.4	B / B	0.1 / 0.0	N / N
3. Genesee Avenue & Chateau Drive	Signal	11.7	B	4.6	A	11.4 / 4.6	B / A	0.3 / 0.0	N / N
4. Genesee Avenue & Mt Herbert Avenue	Signal	13.6	B	7.6	A	13.6 / 7.7	B / A	0.0 / -0.1	N / N
5. Genesee Avenue & Derrick Drive	Signal	16.9	B	52.7	D	17.0 / 51.1	B / D	-0.1 / 1.6	N / N
6. Mt Everest Boulevard & Mt Etna Drive	AWSC	9.7	A	11.5	B	9.4 / 10.8	A / B	0.3 / 0.7	N / N
7. Genesee Avenue & Mt Etna Drive	Signal	23.4	C	26.8	C	19.7 / 24.6	B / C	3.7 / 2.2	N / N
8. Clairemont Drive & Balboa Avenue	Signal	49.1	D	70.5	**E**	48.0 / 68.2	D / **E**	1.1 / 2.3	N / **Y**
9. Mt Everest Boulevard & Balboa Avenue	Signal	133.6	**F**	66.4	**E**	116.5 / 64.7	**F** / **E**	17.1 / 1.7	**Y** / N
10. Genesee Avenue & Balboa Avenue	Signal	42.1	D	60.4	**E**	41.1 / 59.2	D / **E**	1.0 / 1.2	N / N
11. Shopping Center Driveway & Balboa Avenue	Signal	21.4	C	14.7	B	21.1 / 15.1	C / B	0.3 / -0.4	N / N
12. Mt Abernathy Avenue & Balboa Avenue	Signal	42.2	D	44.8	D	39.1 / 44.4	D / D	3.1 / 0.4	N / N
13. Cannington Drive & Balboa Avenue	Signal	10.5	B	32.6	C	10.5 / 28.9	B / C	0.0 / 3.7	N / N
14. Charger Boulevard & Balboa Avenue	Signal	68.3	**E**	42.8	D	64.7 / 42.9	**E** / D	3.6 / -0.1	**Y** / N
15. I-805 Southbound Ramps & Balboa Avenue	Signal	12.6	B	9.3	A	12.5 / 9.0	B / A	0.1 / 0.3	N / N
16. I-805 Northbound Ramps & Balboa Avenue	Signal	8.8	A	9.1	A	8.8 / 9.1	A / A	0.0 / 0.0	N / N
17. Genesee Avenue & Mt Alifan Drive	Signal	58.6	**E**	55.2	**E**	58.6 / 55.2	**E** / **E**	0.0 / 0.0	N / N
18. Mt Etna Drive & Project Driveway #1	SSSC	10.5	B	12.2	B	DNE	DNE	10.5 / 12.2	N / N

Source: Chen Ryan Associates; March 2019

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Control.
SSSC = Side-Street Stop Control.
DNE = Does Not Exist.

Ramp Metering Analysis

Table 6.8 summarizes the freeway ramp metering analysis results under Near–Term Year 2021 Base Plus Project conditions.

Table 6.8 Ramp Metering Analysis – Near-Term Year 2021 Base Plus Project Conditions

On-Ramp	# of Lanes SOV	# of Lanes HOV	Peak Hour	Demand[1] (veh/hr) per lane	Meter Rate[2] (veh/hr) per lane	Excess Demand[3] (veh/hr) per lane	Delay[4] (min)	Queue[5] (ft)	Storage Length (ft)	Excess Queue (ft)	Delay w/o Project (min)	Δ Delay (min)	S?
I-805 SB On-Ramp @ Balboa Ave EB	1	1	PM	395	423	0	0	0	1,000	0	0	0.0	No
I-805 NB Ramp @ Balboa Ave EB	1	1	AM	316	511	0	0	0	410	0	0	0.0	No

Source: Chen Ryan Associates; March 2019

Notes:
Based upon field observation it is estimated that 20% of the vehicles at these ramp meters use the HOV lane when available. Since the majority of trips existing the school during the PM Peak hour would be parents picking up students, it is assumed that 90% of the Proposed Project trips during the PM peak hours would use the HOV lane.
SOV = Single Occupancy Vehicle; HOV = High Occupancy Vehicle.
[1] Demand is the peak hour demand expected to use the on-ramp.
[2] Meter Rate is the peak hour capacity expected to be processed through the ramp meter. This value was obtained from Caltrans.
[3] Excess Demand = (Demand) – (Meter Rate) or zero, whichever is greater.
[4] Delay = (Excess Demand / Meter Rate) X 60 min/hr.
[5] Queue = (Excess Demand) X 29 ft/veh.

As shown in Table 6.8, the anticipated peak hour demand is not anticipated to exceed the anticipated meter either of the study ramp meter locations.

Based on the City of San Diego Significance Criteria, outlined in Section 2.5, the traffic associated with the Proposed Project would not cause a significant impact to any of the study ramp meter locations.

6.5 Impact Significance and Mitigation

Based upon the significance criteria presented in Section 2.5 of this report, the addition of project traffic would cause a significant direct impact to three (3) roadway segments, four (4) intersections, and no ramp meters under Near-Term Year 2021 (project opening year) Plus Project conditions. The following mitigation measures would be required to mitigate the project impact to less than significant:

Roadways:

These roadways are currently built to their ultimate classifications (classification designation in the adopted Community Plan) and anticipated to operate at LOS E or F with the addition of the Proposed Project's trips. The arterial level of service and/or the connecting intersections of these segments are also anticipated to operate at unacceptable LOS E or F conditions. Consequently, the following three (3) roadways are considered to have a significant direct impact:

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue – Provide additional right-of-way and widen the roadway from a 2-Lane Collector to a 2-Lane Collector with a Continuous-Left-Turn-Lane (or construct left turn pocket where needed) prior to the

project's total trip generation of 2,077 ADT. This roadway is along the Project's frontage, so providing a separate left-turn lane into the Project site would provide additional capacity and would fully mitigate the significant traffic impact associated with the Proposed Project. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the classification of this roadway, additional right-of-way would be required to implement this measure. Therefore, this impact would remain *significant and unavoidable*.

- Balboa Avenue, between Cannington Drive and Charger Boulevard – Reclassify the roadway from a 6-Lane Major Arterial to a 6-Lane Primary Arterial Provide prior to the project's total trip generation of 1,811 ADT. The significant traffic impact associated with the Proposed Project along this roadway would be fully mitigated with the implementation of this measure. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the existing land use fronting this roadway (i.e. residential and school uses) as well as the right-of-way constraints, a classification upgrade would not be feasible. Therefore, this impact would remain *significant and unavoidable*.

- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps – Reclassify the roadway from a 6-Lane Major Arterial to a 6-Lane Expressway prior to the project's total trip generation of 1,561 ADT. The significant traffic impact associated with the Proposed Project along this roadway would be fully mitigated with the implementation of this measure. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the planned classification of this roadway, additional right-of-way would be required to implement this measure. Therefore, this impact would remain *significant and unavoidable*.

Intersections:

The traffic generated by the Proposed Project is anticipated to create an impact at the following four (4) intersections:

1. Genesee Avenue & Clairemont Mesa Boulevard – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 2,100 ADT.

   The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

8. Clairemont Drive & Balboa Avenue - Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 2,700 ADT.

   The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

9. Mt Everest Boulevard & Balboa Avenue – Restripe the northbound and southbound approaches on Mt Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing. This improvement must be implemented prior to the project's total trip generation of 300 ADT. Implementing this improvement could be done within the existing right-of-way and would reduce intersection delays to pre-Project conditions. However, the County of San Diego cannot guarantee improvements to an intersection under the jurisdiction of the City of San Diego. Therefore, this impact would remain *significant and unavoidable*.

14. Charger Boulevard & Balboa Avenue – Restripe the northbound shared through-left turn lane into an exclusive through lane and convert the northbound and southbound signal from split phasing to protective phasing prior to the project's total trip generation of 1,850 ADT. Implementing this improvement would reduce intersection delays to pre-Project conditions. However, the County of San Diego cannot guarantee improvements to an intersection under the jurisdiction of the City of San Diego. Therefore, this impact would remain *significant and unavoidable*.

Table 6.9 displays intersection LOS and average vehicle delay results under Near-Term Base (Year 2021) Plus Project with Mitigation conditions. The trigger analysis worksheets and level of service calculation worksheets for the Near-Term Base (Year 2021) Plus Project with Mitigation conditions are provided in **Appendix I.**

Table 6.9 Peak Hour Intersection Level of Service Results – Near-Term Base (Year 2021) Plus Project with Mitigation Conditions

Intersection	Control	AM Peak Hour		PM Peak Hour		Delay w/o Project (sec) AM/PM	LOS w/o Project AM/PM	Change in Delay (sec)	M?
		Avg. Delay (sec)	LOS	Avg. Delay (sec)	LOS				
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	40.2	D	51.4	D	43.0 / 61.5	D / **E**	-2.8 / -10.1	Y
8. Clairemont Drive & Balboa Avenue	Signal	47.9	D	67.8	**E**	48.0 / 68.2	D / **E**	-0.1 / -0.4	Y
9. Mt Everest Boulevard & Balboa Avenue	Signal	66.7	**E**	28.0	C	116.5 / 64.7	**F / E**	-49.8 / -36.7	Y
14. Charger Boulevard & Balboa Avenue	Signal	53.9	D	51.4	D	64.7 / 42.9	**E** / D	-10.8 / 8.5	Y

Source: Chen Ryan Associates; March 2019

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
M? = Impact Mitigated?

As shown in Table 6.9, the proposed mitigation measures would either reduce the Proposed Project impact to less than significant or mitigated the Proposed Project impact to better than pre-Project conditions. However, the Genesee Avenue/Clairemont Mesa Boulevard and Clairemont Drive/Balboa Avenue intersections are considered to have significant and unavoidable impacts since these intersections are under the City's jurisdiction, so implementation of the mitigation is not under the control of the Project.

Ramp Meters:

No impacts were identified. Therefore, no mitigation is required.

7.0 Horizon Year 2050 Base

This section provides a description of Horizon Year 2050 Cumulative Traffic conditions both with and without the Proposed Project. Scenarios analyzed in this section include the following:

- Horizon Year 2050 Base Conditions
- Horizon Year 2050 Base Plus Project Conditions

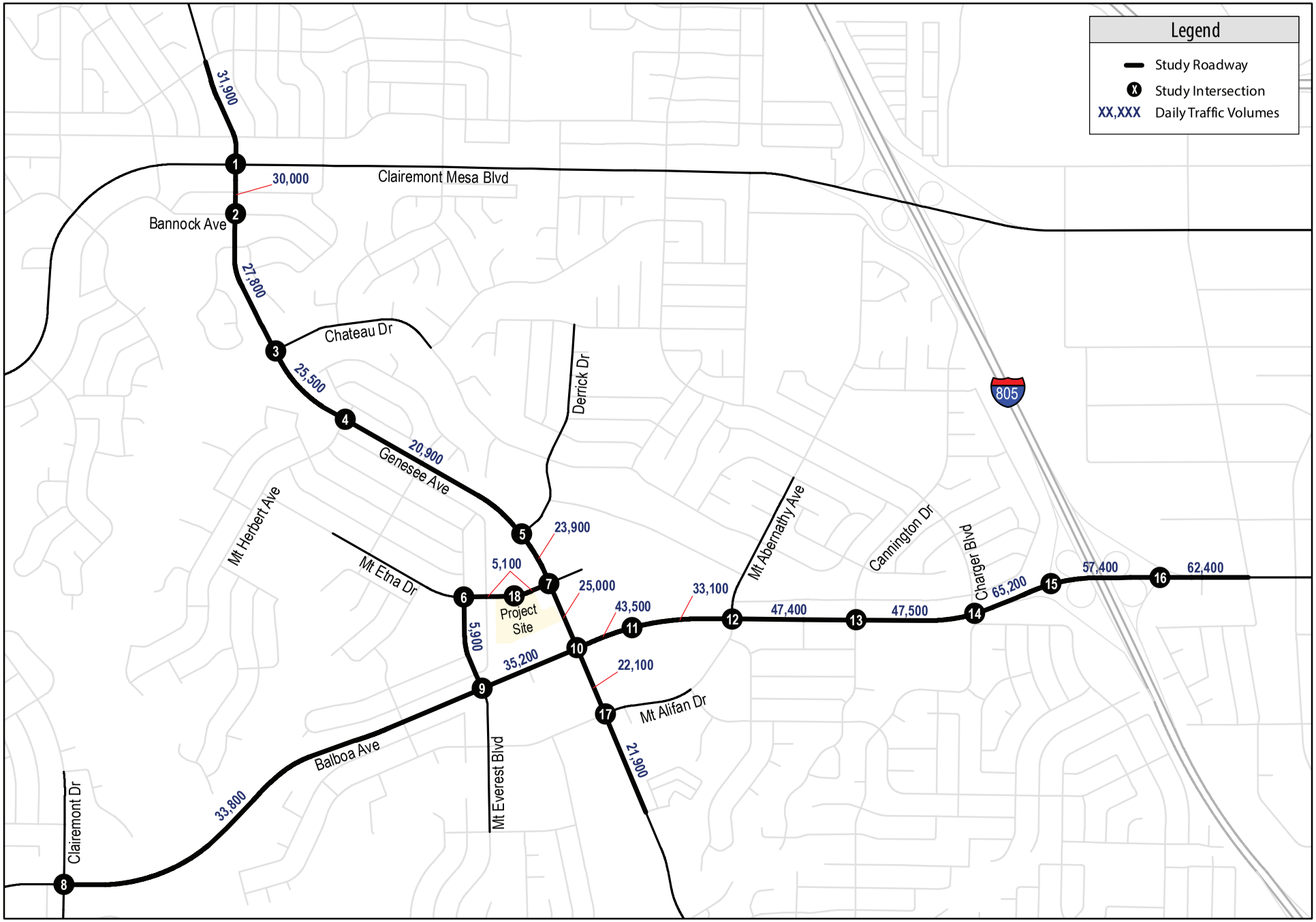
7.1 Horizon Year 2050 Base Roadway Network and Traffic Volumes

Roadway and intersection geometrics under Horizon Year 2050 Base conditions were assumed to be identical to Existing and Near-Term Year 2021 Base Conditions geometrics, as shown in Figure 4-1.

Similar to the Select Zone analysis that was used for the Project's trip distribution, the forecast model for the Clairemont Mesa Community Plan Update was used to develop the Horizon Year 2050 volumes. The peak hour intersection turning movements were developed by comparing existing and forecasted Year 2050 ADTs, as well as peak hour approach and departure volumes, then applying the respective growth factors. Manual adjustments were also made to ensure that traffic volumes among adjacent intersections are reasonably balanced. **Figure 7-1** displays average daily roadway and peak hour intersection volumes for the study roadway segments and intersections under the Horizon Year 2050 Base Conditions.

7.2 Horizon Year 2050 Base Traffic Conditions

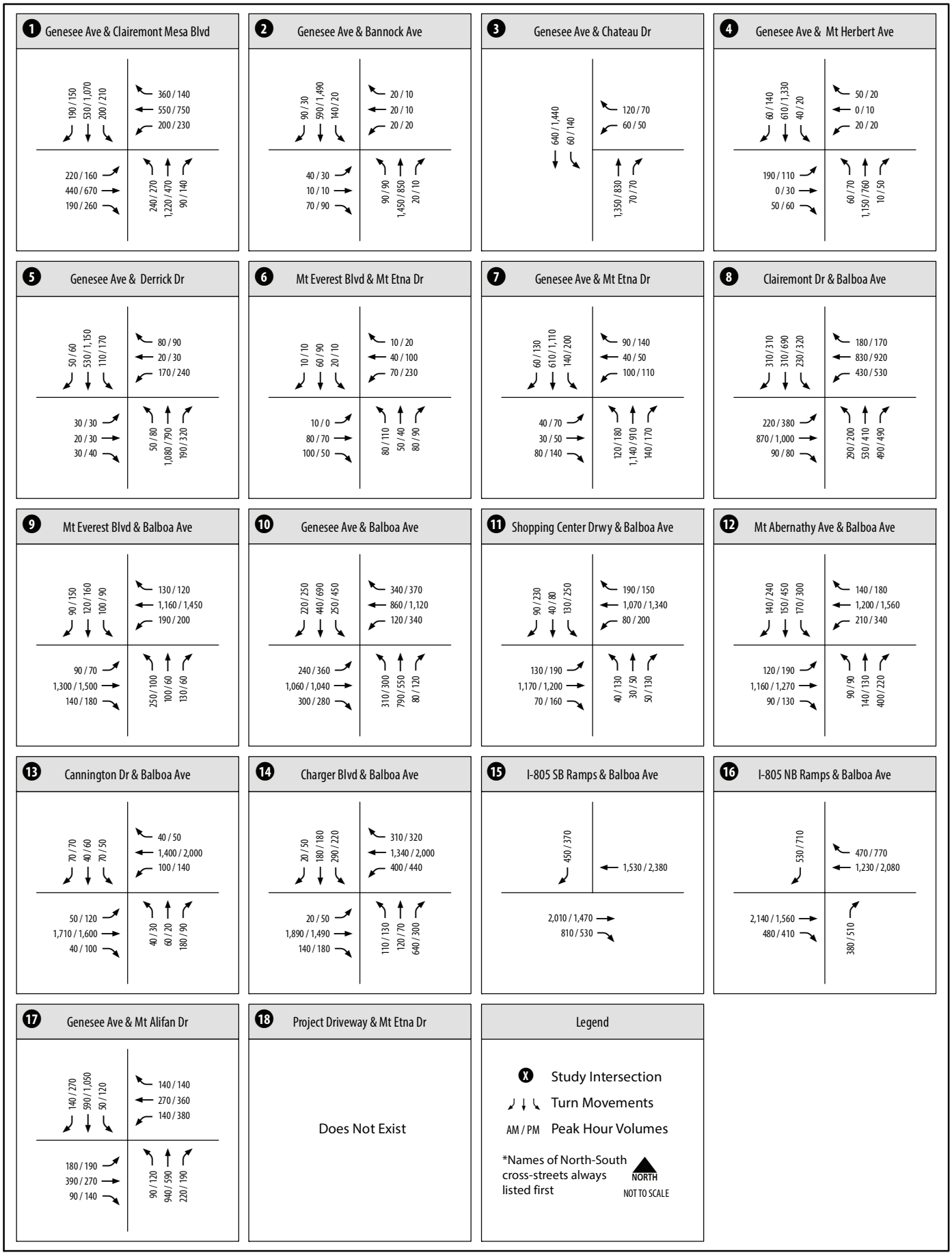
Level of service analyses for Horizon Year 2050 Base conditions were conducted using the methodologies described in Chapter 2.0. Roadway segment and intersection level of service, as well as freeway ramp meter analysis results for Horizon Year 2050 Base conditions are discussed separately below.



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Figure 7-1
Traffic Volumes - Horizon Year 2050
Base Conditions



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Figure 7-1
Traffic Volumes - Horizon Year 2050
Base Conditions

Roadway Segment Analysis

Table 7.1 displays the Level of Service analysis results for key roadway segments under the Horizon Year 2050 Base conditions.

As shown, all of the study area roadway segments are projected to continue operating at acceptable LOS D or better under Horizon Year 2050 Base conditions with the exception of the following five (5) roadway segments:

- Balboa Avenue, between Mt Everest Boulevard and Genesee Avenue (LOS E);
- Balboa Avenue, between Mt Abernathy Avenue and Cannington Drive (LOS E);
- Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS E);
- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F); and
- Balboa Avenue, between I-805 Northbound Ramps and Ruffner Street (LOS F).

Table 7.1 Roadway Segment Level of Service Results - Horizon Year 2050 Base Conditions

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	V/C	LOS
Genesee Avenue	Between Appleton Street & Clairemont Mesa Boulevard	4-Ln Major Arterial	Raised Median	31,900	40,000	0.798	D
	Between Clairemont Mesa Boulevard & Bannock Avenue	4-Ln Major Arterial	Undivided	30,000	40,000	0.750	C
	Between Bannock Avenue & Chateau Drive	4-Ln Major Arterial	Raised Median	27,800	40,000	0.695	C
	Between Chateau Drive & Mt Herbert Avenue	4-Ln Major Arterial	Raised Median	25,500	40,000	0.638	C
	Between Mt Herbert Avenue & Derrick Drive	4-Ln Major Arterial	Raised Median	20,900	40,000	0.523	B
	Between Derrick Drive & Mt Etna Drive	6-Ln Major Arterial	Raised Median	23,900	50,000	0.478	B
	Between Mt Etna Drive & Balboa Avenue	5-Ln Major Arterial	Raised Median	25,000	45,000	0.556	C
	Between Balboa Avenue & Mt Alifan Drive	5-Ln Major Arterial	Raised Median	22,100	45,000	0.491	B
	Between Mt Alifan Drive & Genesee Court	4-Ln Major Arterial	Raised Median	21,900	40,000	0.548	C
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Ln Collector w/o CLTL	Undivided	5,900	8,000	0.738	D
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	5,100	8,000	0.638	D
Balboa Avenue	Between Clairemont Drive & Mt Everest Boulevard	4-Ln Major Arterial	Raised Median	33,800	40,000	0.845	D
	Between Mt Everest Boulevard & Genesee Avenue	4-Ln Major Arterial	Raised Median	35,200	40,000	0.880	**E**
	Between Genesee Avenue & Shopping Center Driveway	6-Ln Major Arterial	Raised Median	43,500	50,000	0.870	D
	Between Shopping Center Driveway & Mt Abernathy Avenue	6-Ln Major Arterial	Raised Median	33,100	50,000	0.662	C
	Between Mt Abernathy Avenue & Cannington Drive	6-Ln Major Arterial	Raised Median	47,400	50,000	0.948	**E**
	Between Cannington Drive & Charger Boulevard	6-Ln Major Arterial	Raised Median	47,500	50,000	0.950	**E**
	Between Charger Boulevard & I-805 Southbound Ramps	6-Ln Major Arterial	Raised Median	65,200	50,000	1.304	**F**
	Between I-805 Southbound Ramps & I-805 Northbound Ramps*	8-Ln Prime Arterial	Raised Median	57,400	80,000	0.718	C
	Between I-805 Northbound Ramps & Ruffner Street	6-Ln Major Arterial	Raised Median	62,400	50,000	1.248	**F**

Source: Chen Ryan Associates; March 2019

Notes:
*The Balboa Ave segment between the I-805 ramps are classified as a 6-lane major according to the Clairemont Community Plan; however, the actual roadway cross-section includes eight lanes (two of which are auxiliary ramp lanes).
Bold letter indicates unacceptable LOS E or F.
ADT = Average Daily Traffic.
V/C = Volume to Capacity Ratio.
LOS = Level of Service.
Ln = Lane.
CLTL = Continuous Left-Turn Lane.

Intersection Analysis

Table 7.2 displays intersection Level of Service and average vehicle delay results under Horizon Year 2050 Base conditions. Level of Service calculation worksheets are provided in **Appendix J**.

Table 7.2 Peak Hour Intersection Level of Service Results - Horizon Year 2050 Base Conditions

Intersection	Control	AM Peak Hour		PM Peak Hour	
		Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	65.9	**E**	95.9	**F**
2. Genesee Avenue & Bannock Avenue	Signal	28.5	C	12.7	B
3. Genesee Avenue & Chateau Drive	Signal	12.4	B	5.9	A
4. Genesee Avenue & Mt Herbert Avenue	Signal	18.7	B	10.9	B
5. Genesee Avenue & Derrick Drive	Signal	18.0	B	51.0	D
6. Mt Everest Boulevard & Mt Etna Drive	AWSC	10.8	B	13.9	B
7. Genesee Avenue & Mt Etna Drive	Signal	21.7	C	26.6	C
8. Clairemont Drive & Balboa Avenue	Signal	65.4	**E**	100.6	**F**
9. Mt Everest Boulevard & Balboa Avenue	Signal	107.9	**F**	110.4	**F**
10. Genesee Avenue & Balboa Avenue	Signal	42.1	D	80.2	**F**
11. Shopping Center Driveway & Balboa Avenue	Signal	24.7	C	15.3	B
12. Mt Abernathy Avenue & Balboa Avenue	Signal	43.5	D	52.5	D
13. Cannington Drive & Balboa Avenue	Signal	17.2	B	33.0	C
14. Charger Boulevard & Balboa Avenue	Signal	54.3	D	48.0	D
15. I-805 Southbound Ramps & Balboa Avenue	Signal	11.1	B	9.2	A
16. I-805 Northbound Ramps & Balboa Avenue	Signal	10.5	B	10.6	B
17. Genesee Avenue & Mt Alifan Drive	Signal	50.2	D	58.4	**E**
18. Mt Etna Drive & Project Driveway #1	DNE	-	**-**	-	-

Source: Chen Ryan Associates; March 2019

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled
SSSC = Side-Street Stop Controlled.
DNE = Does Not Exist.

As shown in the table, all of the study area intersections are projected to operate at acceptable LOS D or better during the AM and PM peak hours under Horizon Year 2050 Base conditions, with exception of the following five (5) locations:

- Genesee Avenue & Clairemont Mesa Boulevard – LOS E during the AM peak hour and LOS F during the PM peak hour;
- Clairemont Drive & Balboa Avenue - LOS E during the AM peak hour and LOS F during the PM peak hour;
- Mt Everest Boulevard & Balboa Avenue – LOS F during both the AM and PM peak hours;
- Genesee Avenue & Balboa Avenue – LOS F during the PM peak hour; and
- Genesee Avenue & Mt Alifan Drive – LOS E during the PM peak hour.

Ramp Metering Analysis

Table 7.3 summarizes the freeway ramp metering analysis results under Horizon Year 2050 Base Conditions.

Table 7.3 Ramp Metering Analysis – Horizon Year 2050 Base Conditions

On-Ramp	# of Lanes		Peak Hour	Demand[1] (veh/hr) per lane	Meter Rate[2] (veh/hr) per lane	Excess Demand[3] (veh/hr) per lane	Delay[4] (min)	Queue[5] (ft)	Storage Length (ft)	Excess Queue (ft)
	SOV	HOV								
I-805 SB On-Ramp @ Balboa Ave EB	1	1	PM	424	423	1	0.1	29	1,000	0
I-805 NB Ramp @ Balboa Ave EB	1	1	AM	384	511	0	0	0	410	0

Source: Chen Ryan Associates; March 2019

Notes:
SOV = Single Occupancy Vehicle; HOV = High Occupancy Vehicle.
[1] Demand is the peak hour demand expected to use the on-ramp.
[2] Meter Rate is the peak hour capacity expected to be processed through the ramp meter. This value was obtained from Caltrans.
[3] Excess Demand = (Demand) – (Meter Rate) or zero, whichever is greater.
[4] Delay = (Excess Demand / Meter Rate) X 60 min/hr.
[5] Queue = (Excess Demand) X 29 ft/veh.

As shown the Table 7.3, the anticipated peak hour demand is anticipated to exceed the anticipated meter rate at the I-805 Southbound On-Ramp @ Balboa Avenue EB by 29 feet.

7.3 Horizon Year 2050 Base Plus Project Roadway Network and Traffic Volumes

Roadway and intersection geometrics under Horizon Year 2050 Base Plus Project conditions were assumed to be identical to Existing and Near-Term Year 2021 Base Conditions geometrics, as shown in Figure 4-1.

Horizon Year 2050 Base Plus Project traffic volumes were derived by combining the Horizon Year 2050 Base traffic volumes (displayed in Figure 7-1) and the Project trip assignment (displayed in Figure 5-2). Daily and peak hour intersection volumes for this scenario are displayed in **Figure 7-2**.

7.4 Horizon Year 2050 Base Plus Project Traffic Conditions

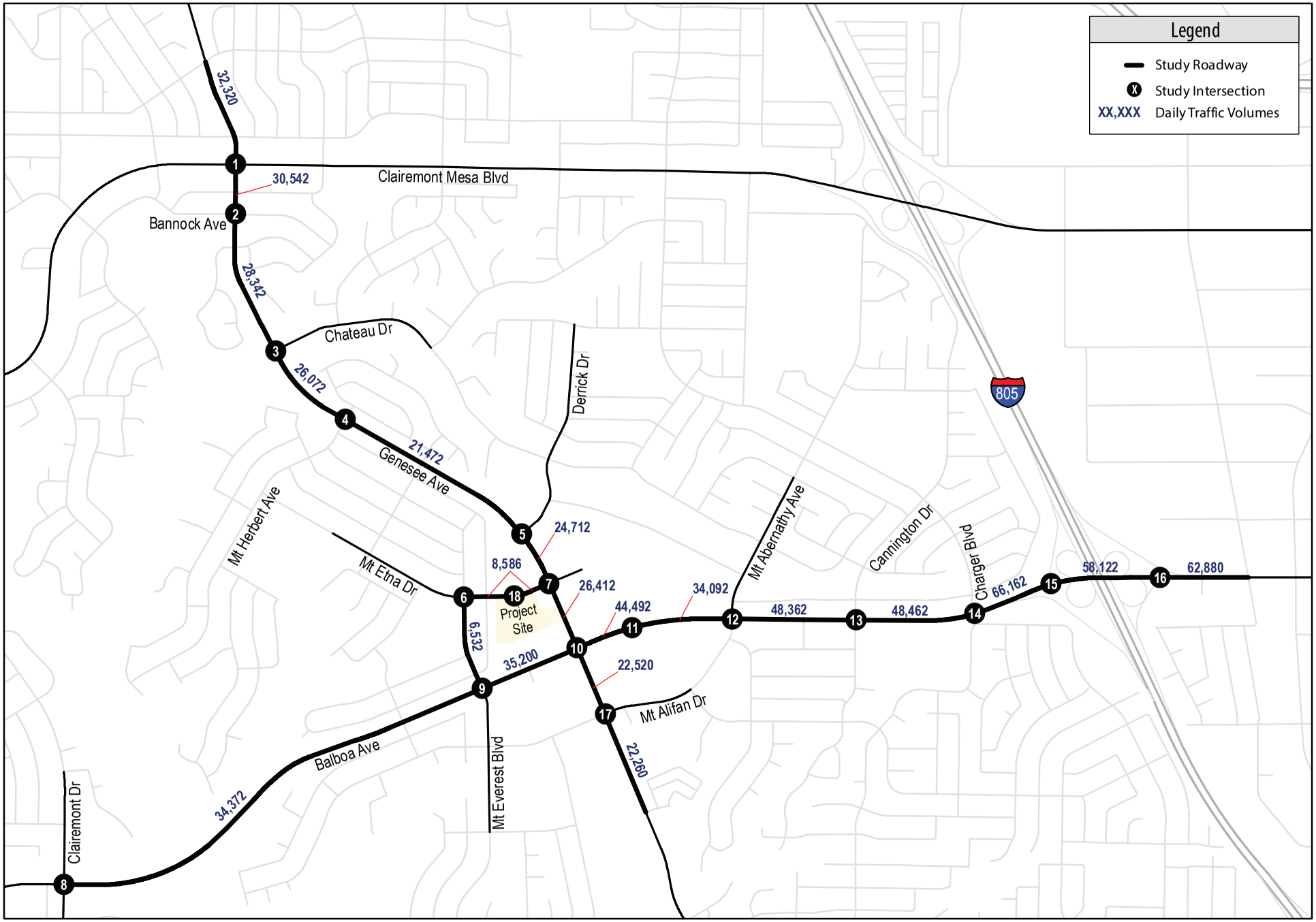
Level of service analyses for Horizon Year 2050 Base Plus Project conditions were conducted using the methodologies described in Chapter 2.0. Roadway segment and intersection level of service, as well as freeway ramp meter analysis results for Horizon Year 2050 Base Plus Project conditions are discussed separately below.

Roadway Segment Analysis

Table 7.4 displays the Level of Service analysis results for key roadway segments under Horizon Year 2050 Base Plus Project conditions.

As shown in the Table 7.4 all of the study area roadway segments are projected to continue operating at acceptable LOS D or better under Horizon Year 2050 Base Plus Project conditions with the exception of the following seven (7) roadway segments:

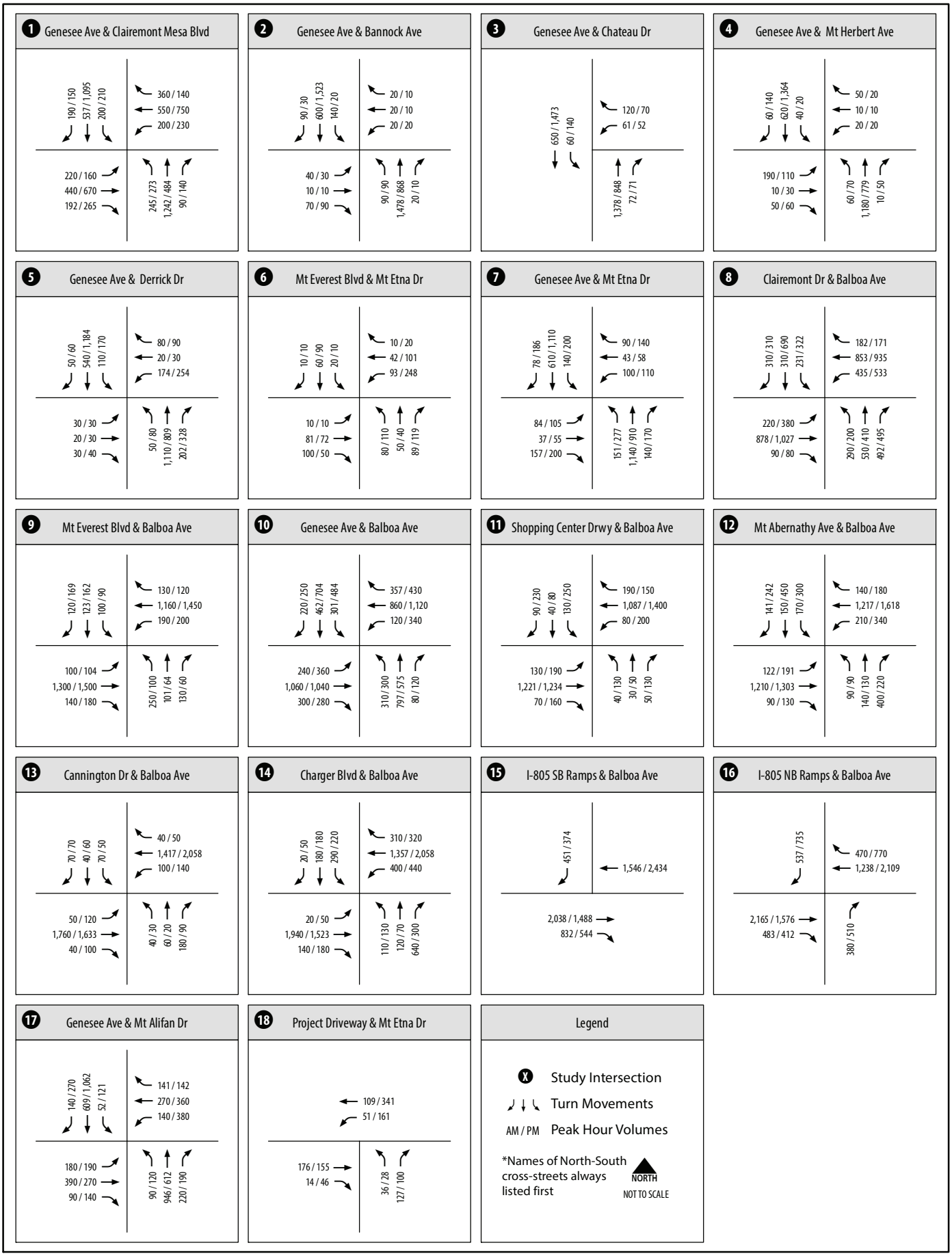
- Mt Everest Boulevard, between Mt Etna Drive and Balboa Avenue (LOS E);
- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue (LOS F);
- Balboa Avenue, between Mt Everest Boulevard and Genesee Avenue (LOS E);
- Balboa Avenue, between Mt Abernathy Avenue and Cannington Drive (LOS E);
- Balboa Avenue, between Cannington Drive and Charger Boulevard (LOS E);
- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (LOS F); and
- Balboa Avenue, between I-805 Northbound Ramps and Ruffner Street (LOS F).



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Figure 7-2
Traffic Volumes - Horizon Year 2050 Base Plus Project Conditions



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Figure 7-2
Traffic Volumes - Horizon Year 2050 Base Plus Project Conditions

Table 7.4 Roadway Segment Level of Service Results - Horizon Year 2050 Base Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	With Project		Base		Δ	S?
						V/C	LOS	V/C	LOS		
Genesee Avenue	Between Appleton Street & Clairemont Mesa Boulevard	4-Ln Major Arterial	Raised Median	32,320	40,000	0.808	D	0.798	D	0.011	N
	Between Clairemont Mesa Boulevard & Bannock Avenue	4-Ln Major Arterial	Undivided	30,542	40,000	0.764	D	0.75	C	0.014	N
	Between Bannock Avenue & Chateau Drive	4-Ln Major Arterial	Raised Median	28,342	40,000	0.709	C	0.695	C	0.014	N
	Between Chateau Drive & Mt Herbert Avenue	4-Ln Major Arterial	Raised Median	26,072	40,000	0.652	C	0.638	C	0.014	N
	Between Mt Herbert Avenue & Derrick Drive	4-Ln Major Arterial	Raised Median	21,472	40,000	0.537	C	0.523	B	0.014	N
	Between Derrick Drive & Mt Etna Drive	6-Ln Major Arterial	Raised Median	24,712	50,000	0.494	B	0.478	B	0.016	N
	Between Mt Etna Drive & Balboa Avenue	5-Ln Major Arterial	Raised Median	26,412	45,000	0.587	C	0.556	C	0.031	N
	Between Balboa Avenue & Mt Alifan Drive	5-Ln Major Arterial	Raised Median	22,520	45,000	0.5	B	0.491	B	0.009	N
	Between Mt Alifan Drive & Genesee Court	4-Ln Major Arterial	Raised Median	22,260	40,000	0.557	C	0.548	C	0.009	N
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Ln Collector w/o CLTL	Undivided	6,532	8,000	0.817	**E**	0.738	D	0.079	**Y**
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	8,586	8,000	1.073	**F**	0.638	D	0.436	**Y**

Table 7.4 Roadway Segment Level of Service Results - Horizon Year 2050 Base Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	ADT	Capacity (LOS E)	With Project		Base		Δ	S?
						V/C	LOS	V/C	LOS		
Balboa Avenue	Between Clairemont Drive & Mt Everest Boulevard	4-Ln Major Arterial	Raised Median	34,372	40,000	0.859	D	0.845	D	0.014	N
	Between Mt Everest Boulevard & Genesee Avenue	4-Ln Major Arterial	Raised Median	35,200	40,000	0.880	**E**	0.880	**E**	0	N
	Between Genesee Avenue & Shopping Center Driveway	6-Ln Major Arterial	Raised Median	44,492	50,000	0.89	D	0.87	D	0.02	N
	Between Shopping Center Driveway & Mt Abernathy Avenue	6-Ln Major Arterial	Raised Median	34,092	50,000	0.682	C	0.662	C	0.02	N
	Between Mt Abernathy Avenue & Cannington Drive	6-Ln Major Arterial	Raised Median	48,362	50,000	0.967	**E**	0.948	**E**	0.019	N
	Between Cannington Drive & Charger Boulevard	6-Ln Major Arterial	Raised Median	48,462	50,000	0.969	**E**	0.95	**E**	0.019	N
	Between Charger Boulevard & I-805 Southbound Ramps	6-Ln Major Arterial	Raised Median	66,162	50,000	1.323	**F**	1.304	**F**	0.019	**Y**
	Between I-805 Southbound Ramps & I-805 Northbound Ramps*	8-Ln Prime Arterial	Raised Median	58,122	80,000	0.727	C	0.718	C	0.009	N
	Between I-805 Northbound Ramps & Ruffner Street	6-Ln Major Arterial	Raised Median	62,880	50,000	1.258	**F**	1.248	**F**	0.008	N

Source: Chen Ryan Associates; March 2019

Notes:
*The Balboa Ave segment between the I-805 ramps are classified as a 6-lane major according to the Clairemont Community Plan; however, the actual roadway cross-section includes eight lanes (two of which are auxiliary ramp lanes).
Bold letter indicates unacceptable LOS E or F.
ADT = Average Daily Traffic.
V/C = Volume to Capacity Ratio.
LOS = Level of Service.
Ln = Lane.
CLTL = Continuous Left-Turn Lane.
S? = Indicates if change in V/C ratio is significant.
Δ = Change in V/C Ratio.

Of these six (6) roadway segments, the following three (3) could potentially result in a significant impact based on the significance criteria outlined in Section 2.5. As noted in section 2.2, daily roadway LOS is typically used only at the planning level and does not necessarily indicate true roadway operations. Therefore, to determine if the identified roadway segments operate at acceptable levels during peak times (worst case) peak hour aerial analyses and peak hour intersection analyses were conducted to better understand the actual travel flow along the roadways. Roadway segments in which are built to their ultimate classification, the peak hour arterial LOS, and the intersections at either end of the segment are projected to operate at acceptable LOS D or better are not considered to have a significant impact, since the actual travel flow along the segment is consider to be acceptable.

- Mt Everest Boulevard, between Mt Etna Drive and Balboa Avenue – LOS E. The Proposed Project would add 632 daily trips, resulting in an increase of 0.079 in V/C ratio. Therefore, the following additional analyses were conducted to determine if the roadway segment would be significantly impacted:

    - The arterial level of service analysis identifies this roadway segment to operate at LOS F in the SB direction during both the AM and PM peak hours;
    - The intersections of Mt Everest Boulevard/Mt Etna Drive and Mt Everest is projected to operate at LOS C or better during both AM and PM peak hours, but the intersection of Mt Everest Boulevard/Balboa Avenue is projected to operate at LOS E or F during the AM and PM peak hours.
    - Therefore, the Proposed Project **would result** in a significant impact to this roadway segment.
    -

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue – LOS E. The Proposed Project would add 3,486 daily trips, resulting in an increase of 0.436 in V/C ratio. Therefore, the following additional analyses were conducted to determine if the roadway segment would be significantly impacted:

    - The arterial level of service analysis identifies this roadway segment to operate at LOS E in the EB and WB directions during both the AM and PM peak hours;
    - The intersections of Mt Everest Boulevard/Mt Etna Drive and Genesee Avenue/Mt Etna Drive are projected to operate at LOS C or better during both AM and PM peak hours;
    - Therefore, the Proposed Project **would result** in a significant impact to this roadway segment.

- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps – The Proposed Project would add 962 daily trips, resulting in an increase of 0.019 in V/C ratio. Therefore, the following additional analyses were conducted to determine if the roadway segment would be significantly impacted:
    - The arterial level of service analysis identifies this roadway segment to operate at LOS B and LOS C in the EB and WB directions, respectively, during the AM peak

hour, and LOS B and LOS D in the EB and WB directions, respectively, during the PM peak hour;
- The intersection of Eckstrom Avenue/Charger Boulevard/Balboa Avenue is projected to operate at LOS E in the AM peak hour and LOS D in the PM peak hour, and the I-805 Southbound Ramps/Balboa Avenue is projected to operate at LOS B or better during both AM and PM peak hours;
- Therefore, the Proposed Project **would result** in a significant impact to this roadway segment.

Intersection Analysis

Table 7.5 displays intersection Level of Service and average vehicle delay results under Horizon Year 2050 Base Plus Project conditions. Level of Service calculation worksheets for this scenario are provided in **Appendix K**.

As shown in Table 7.5, all of the study area intersections would continue to operate at acceptable LOS D or better during the AM and PM peak hours under Horizon Year 2050 Base Plus Project conditions, except for the following six (6) intersections:

- Genesee Avenue & Clairemont Mesa Boulevard – LOS E during the AM peak hour and LOS F during the PM peak hour;
- Clairemont Drive & Balboa Avenue – LOS E during the AM peak hour and LOS F during the PM peak hour;
- Mt Everest Boulevard & Balboa Avenue – LOS F during both the AM and PM peak hours;
- Genesee Avenue & Balboa Avenue – LOS F during the PM peak hour;
- Charger Boulevard & Balboa Avenue – LOS E during the AM peak hour; and
- Genesee Avenue & Mt Alifan Drive –LOS E during the PM peak hour.

Based upon the impact significance criteria presented in Section 2.5, the addition of the Proposed Project traffic would result in a cumulative impact to the following five (5) study intersections:

- Genesee Avenue & Clairemont Mesa Boulevard;
- Clairemont Drive & Balboa Avenue;
- Mt Everest Boulevard & Balboa Avenue;
- Genesee Avenue & Balboa Avenue; and
- Charger Boulevard & Balboa Avenue.

Ramp Metering Analysis

Table 7.6 summarizes the freeway ramp metering analysis results under Horizon Year 2050 Base Plus Project conditions.

Table 7.5 Peak Hour Intersection Level of Service Results - Horizon Year 2050 Base Plus Project Conditions

Intersection	Control	AM Peak Hour		PM Peak Hour		Delay w/o Project (sec) AM/PM	LOS w/o Project AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM
		Avg. Delay (sec)	LOS	Avg. Delay (sec)	LOS				
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	68.2	**E**	100.0	**F**	65.9 / 95.9	**E / F**	2.3 / 4.1	**Y / Y**
2. Genesee Avenue & Bannock Avenue	Signal	28.7	C	12.8	B	28.5 / 12.7	C / B	0.2 / 0.1	N / N
3. Genesee Avenue & Chateau Drive	Signal	13.2	B	5.8	A	12.4 / 5.9	B / A	0.8 / -0.1	N / N
4. Genesee Avenue & Mt Herbert Avenue	Signal	18.8	B	10.8	B	18.7 / 10.9	B / B	0.1 / -0.1	N / N
5. Genesee Avenue & Derrick Drive	Signal	17.9	B	52.7	D	18 / 51	B / D	-0.1 / 1.7	N / N
6. Mt Everest Boulevard & Mt Etna Drive	AWSC	11.4	B	15.3	C	10.8 / 13.9	B / B	0.6 / 1.4	N / N
7. Genesee Avenue & Mt Etna Drive	Signal	25.2	C	28.9	C	21.7 / 26.6	C / C	3.5 / 2.3	N / N
8. Clairemont Drive & Balboa Avenue	Signal	66.6	**E**	103.2	**F**	65.4 / 100.6	**E / F**	1.2 / 2.6	N / **Y**
9. Mt Everest Boulevard & Balboa Avenue	Signal	112.7	**F**	114.9	**F**	107.9 / 110.4	**F / F**	4.8 / 4.5	**Y / Y**
10. Genesee Avenue & Balboa Avenue	Signal	45.3	D	87.6	**F**	42.1 / 80.2	D / **F**	3.2 / 7.4	N / **Y**
11. Shopping Center Driveway & Balboa Avenue	Signal	24.9	C	15.0	B	24.7 / 15.3	C / B	0.2 / -0.3	N / N
12. Mt Abernathy Avenue & Balboa Avenue	Signal	46.9	D	53.1	D	43.5 / 52.5	D / D	3.4 / 0.6	N / N
13. Cannington Drive & Balboa Avenue	Signal	17.4	B	36.6	D	17.2 / 33	B / C	0.2 / 3.6	N / N
14. Charger Boulevard & Balboa Avenue	Signal	57.3	**E**	47.8	D	54.3 / 48	D / D	3.0 / -0.2	**Y** / N
15. I-805 Southbound Ramps & Balboa Avenue	Signal	11.2	B	9.5	A	11.1 / 9.2	B / A	0.1 / 0.3	N / N
16. I-805 Northbound Ramps & Balboa Avenue	Signal	10.6	B	10.6	B	10.5 / 10.6	B / B	0.1 / 0.0	N / N
17. Genesee Avenue & Mt Alifan Drive	Signal	50.2	D	58.6	**E**	50.2 / 58.4	D / **E**	0.0 / 0.2	N / N
18. Mt Etna Drive & Project Driveway #1	SSSC	11.2	B	13.5	B	DNE	DNE	11.2 / 13.5	N / N

Source: Chen Ryan Associates; March 2019

Notes:
Bold letters indicate unacceptable LOS E or F operations.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
DNE = Does Not Exist.

Table 7.6 Ramp Metering Analysis – Horizon Year 2050 Base Plus Project Conditions

On-Ramp	# of Lanes		Peak Hour	Demand[1] (veh/hr) per lane	Meter Rate[2] (veh/hr) per lane	Excess Demand[3] (veh/hr) per lane	Delay[4] (min)	Queue[5] (ft)	Storage Length (ft)	Excess Queue (ft)	Delay w/o Project (min)	Δ Delay (min)	S?
	SOV	HOV											
I-805 SB On-Ramp @ Balboa Ave EB	1	1	PM	435	423	12	1.7	348	1000	0	0.1	1.6	No
I-805 NB Ramp @ Balboa Ave EB	1	1	AM	386	511	0	0	0	410	0	0	0.0	No

Source: Chen Ryan Associates; March 2019

Notes:
Based upon field observation it is estimated that 20% of the vehicles at these ramp meters use the HOV lane when available.
Since the majority of trips existing the school during the PM Peak hour would be parents picking up students, it is assumed that 90% of the Proposed Project trips during the PM peak hours would use the HOV lane.
SOV = Single Occupancy Vehicle; HOV = High Occupancy Vehicle.
[1] Demand is the peak hour demand expected to use the on-ramp.
[2] Meter Rate is the peak hour capacity expected to be processed through the ramp meter. This value was obtained from Caltrans.
[3] Excess Demand = (Demand) – (Meter Rate) or zero, whichever is greater.
[4] Delay = (Excess Demand / Meter Rate) X 60 min/hr.
[5] Queue = (Excess Demand) X 29 ft/veh.

As shown in the table, the anticipated peak hour demand is anticipated to exceed the anticipated meter rate at the I-805 Southbound Ramp @ Balboa Avenue EB during the PM peak hour by 12 vehicles and result in a queue length of 348 feet.

Based on the City of San Diego Significance Criteria, outlined in Section 2.5, the traffic associated with the Proposed Project would not cause a significant impact to any of the study ramp meter since the change in delay is less than 2 minutes under Horizon Year 2050 Base Plus Project conditions.

7.5 Impact Significance and Mitigation

Based upon the significance criteria presented in Section 2.5 of this report, the addition of project traffic would cause a significant cumulative impact to three (3) roadway segments, five (5) intersections, and no ramp meters under Horizon Year 2050 Base Plus Project conditions. The following mitigation measures would be required to mitigate the project impact to less than significant:

Roadways:

The traffic generated by the Proposed Project is anticipated to create an impact at the following three (3) roadway segments:

- Mt Everest Boulevard, between Mt Etna Drive and Balboa Avenue – Provide additional right-of-way and widen the roadway from a 2-Lane Collector to a 2-Lane Collector with a Continuous-Left-Turn-Lane (or construct left turn pocket where needed) prior to the

project's total trip generation of 2,852 ADT. The significant traffic impact associated with the Proposed Project along this roadway would be fully mitigated with the implementation of this measure. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the planned classification of this roadway, additional right-of-way would be required to implement this measure. Therefore, this impact would remain *significant and unavoidable*.

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue – Provide additional right-of-way and widen the roadway from a 2-Lane Collector to a 2-Lane Collector with a Continuous-Left-Turn-Lane (or construct left turn pocket where needed) prior to the project's total trip generation of 1,399 ADT. This roadway is along the Project's frontage, so providing a separate left-turn lane into the Project site would provide additional capacity and would fully mitigate the significant traffic impact associated with the Proposed Project. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the classification of this roadway, additional right-of-way would be required to implement this measure. Therefore, this impact would remain *significant and unavoidable*.

- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps – Reclassify the roadway from a 6-Lane Major Arterial to a 6-Lane Expressway prior to the project's total trip generation of 1,561 ADT. The significant traffic impact associated with the Proposed Project along this roadway would be fully mitigated with the implementation of this measure. However, this roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the planned classification of this roadway, additional right-of-way would be required to implement this measure. Therefore, this impact would remain *significant and unavoidable*.

Intersections:

The traffic generated by the Proposed Project is anticipated to create an impact at the following five (5) intersections:

1. Genesee Avenue & Clairemont Mesa Boulevard – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 800 ADT. The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define

the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

8. Clairemont Drive & Balboa Avenue - Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 1,300 ADT. The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

9. Mt Everest Boulevard & Balboa Avenue – Restripe the northbound and southbound approaches on Mt Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing. This improvement must be implemented prior to the project's total trip generation of 725 ADT. Implementing this improvement could be done within the existing right-of-way and would reduce intersection delays to pre-Project conditions. However, the County of San Diego cannot guarantee improvements to an intersection under the jurisdiction of the City of San Diego. Therefore, this impact would remain *significant and unavoidable*.

10. Genesee Avenue & Balboa Avenue – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway prior to the project's total trip generation of 600 ADT. The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

14. Charger Boulevard & Balboa Avenue – Restripe the northbound shared through-left turn lane into an exclusive through lane and convert the northbound and southbound signal from split phasing to protective phasing prior to the project's total trip generation of 1,050 ADT. Implementing this improvement would reduce intersection delays to pre-Project conditions. However, the County of San Diego cannot guarantee improvements

to an intersection under the jurisdiction of the City of San Diego. Therefore, this impact would remain *significant and unavoidable*.

Table 7.7 displays intersection LOS and average vehicle delay results under Horizon Year 2050 Base Plus Project with Mitigation conditions. The trigger analysis worksheets and level of service calculation worksheets for the Horizon Year 2050 Base Plus Project with Mitigation conditions are provided in **Appendix L**.

Table 7.7 Peak Hour Intersection Level of Service Results – Horizon Year 2050 Base Plus Project with Mitigation Conditions

Intersection	Control	AM Peak Hour		PM Peak Hour		Delay w/o Project (sec) AM/PM	LOS w/o Project AM/PM	Change in Delay (sec)	M?
		Avg. Delay (sec)	LOS	Avg. Delay (sec)	LOS				
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	46.1	D	60.6	**E**	65.9 / 95.9	**E / F**	-19.8 / -35.3	Y
8. Clairemont Drive & Balboa Avenue	Signal	64.4	**E**	97.5	**F**	65.4 / 100.6	**E / F**	-1.0 / -3.1	Y
9. Mt Everest Boulevard & Balboa Avenue	Signal	104.3	**F**	59.4	**E**	107.9 / 110.4	**F /F**	-3.6 / -51.0	Y
10. Genesee Avenue & Balboa Avenue	Signal	41.4	D	77.5	**E**	42.1 / 80.2	D / **F**	-0.7 / -2.7	Y
14. Charger Boulevard & Balboa Avenue	Signal	47.1	D	48.0	D	54.3 / 48	**E** / D	-7.2 / 0.0	Y

Source: Chen Ryan Associates; March 2019

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
M? = Impact Mitigated?

As shown in Table 7.7 the proposed mitigation measures would either reduce the Proposed Project impact to less than significant or mitigated the Proposed Project impact to better than pre-Project conditions. However, the Genesee Avenue/Clairemont Mesa Boulevard, Clairemont Drive/Balboa Avenue, and Genesee Avenue/Balboa Avenue intersections are considered to have significant and unavoidable impacts since these intersections are under the City's jurisdiction, so implementation of the mitigation is not under the control of the Project.

Ramp Meter:

No identified impacts. Therefore, not mitigation is required.

8.0 On-Site Circulation and Parking

This chapter addresses access to the project site by all modes, on-site circulation based on the proposed site plan, and assess to on-site parking that would be provided by the Proposed Project.

8.1 Site Access and On-Site Circulation

Although currently unknown, the Proposed Project is expected to take access via a single driveway located along Mt Etna Drive. The driveway would be side street stop-controlled intersection. No changes have been provided/indicated to restriping to create exclusive left-turn lanes/pocket right-turn lanes. The driveway would operate at acceptable LOS A for all project study scenarios.

8.2 Parking

Per City municipal code (Article 2, Division 5 Parking Regulations, Table 142-05D) regarding affordable housing land uses, the following parking requirement would be applicable to the Proposed Project:

Affordable Housing Dwelling Units Parking Ratios – Family Housing

STUDIO:
High Parking Demand: 0.5 spaces/dwelling unit
Medium Parking Demand: 0.2 spaces/dwelling unit
Low Parking Demand: 0.1 spaces/dwelling unit

1 BEDROOM:
High Parking Demand: 1.0 spaces/dwelling unit
Medium Parking Demand: 0.6 spaces/dwelling unit
Low Parking Demand: 0.33 spaces/dwelling unit

2 BEDROOMS:
High Parking Demand: 1.3 spaces/dwelling unit
Medium Parking Demand: 1.1 spaces/dwelling unit
Low Parking Demand: 0.5 spaces/dwelling unit

3 BEDROOMS:
High Parking Demand: 1.75 spaces/dwelling unit
Medium Parking Demand: 1.4 spaces/dwelling unit
Low Parking Demand: 0.75 spaces/dwelling unit

The City of San Diego's *Proposed Parking Regulatory Reform for Multifamily Residential Development in Transit Priority Areas (TPAs)* (March 2019) project was recently approved by City Council on March 4, 2019. This project recommended that residential developments within TPAs are given zero minimum parking requirements. The ordinance was approved by the City Council in March 2019.

9.0 Other Modes

This chapter discusses the project's potential impacts to active transportation modes (bicycling and walking) and transit.

9.1 Active Transportation Facilities and Connectivity

Pedestrians

Sidewalks are provided on both sides of Mt Etna Drive along the project frontage. The sidewalk along Mt Etna Drive on the north side of fronts commercial plaza across from the project site. Heading west, the sidewalk then continues to the nearby residential neighborhoods. A single continental crosswalk is currently provided on the west leg of the Genesee Avenue and Mt Etna Drive intersection less than 150 feet northeast from the project site and a standard crosswalk for all other legs.

Mt Etna Drive provides east/west connectivity from the Proposed Project site to nearby residential neighborhoods, as well as to nearby commercial shopping centers such as the Genesee Plaza Shopping Center and the Liberty Park Plaza shopping center. To improve pedestrian walkability along Mt Etna Drive, a posted speed limit of 15 mph is posted as you enter the residential neighborhood accompanied by road speed bumps that end at the Mt Everest and Mt Etna Drive all ways stop intersection.

The streets immediately surrounding the project site all include sidewalks. All of the signalized intersections within the project study area include striped crosswalks, pedestrian signal heads, and American with Disabilities Act (ADA)-compliant ramps, where crossings are allowed, with the exception of the following:

Pedestrian crossing is not allowed at the following locations:

- The south leg of Genesee Avenue & Chateau Drive
- The west leg of Cannington Drive and Balboa Avenue
- The east leg of Charger Boulevard & Balboa Avenue

Missing yellow truncated domes on the pedestrian ramps at the following locations:

- The southwest corner of the Genesee Avenue & Derrick Drive intersection
- The southwest corner of the Genesee Avenue & Mt Alifan Drive intersection

The north leg of the I-805 SB Ramps & Balboa Avenue does not have yellow truncated domes on the pedestrian ramps at either crossing point. The south leg of this intersection as well as the two loop ramps currently lack the following features:

- Pedestrian signal heads
- Yellow truncated domes on the pedestrian ramps.

The south leg of the I-805 NB Ramps & Balboa Avenue does not have yellow truncated domes on the pedestrian ramps at either crossing point. The north leg of this intersection as well as the two loop ramps currently lack the following features:

- Pedestrian signal heads
- Yellow truncated domes on the pedestrian ramps.

Bicyclists

There are currently no bicycle facilities directly accessing the project site on Mt Etna Drive, however, Class II Bike lanes are provided on both sides Genesee Avenue. The Class II bike lane adjacent to the project site on the east has been painted green for high visibility as the lane approaches the Genesee Avenue and Balboa Avenue intersection to the south and sits adjacent to right turn pocket.

Transit

The project site is not directly served by transit. However, MTS Bus Route #27 and #41 have multiple stops/stations within a mile of the project site.

MTS Bus Route #27 – MTS Bus Route #27 connects between Pacific Beach to the west and Kearny Mesa Transit Center bus stop to the east. The Balboa Avenue and Genesee Avenue bus stop is the closest bus stop to the project site within 400 feet. MTS Bus Route #27 runs at 30-minute headways during peak periods and 60-minute headways during off-peak period on weekdays and 60 minutes headways on Saturdays. MTS Bus Route #27 does not operate on Sundays. MTS Bus Route #27 runs from approximately from 5:30 AM to 10:00 PM on weekdays and 6:00 AM and 8:30 PM on Saturdays.

MTS Bus Route #41 – MTS Bus Route #41 connects between UCSD/UTC to the north and Fashion Valley bus stop to the south. The Genesee Avenue and Mt Etna Drive bus stop is the closest bus stop to the project site within 400 feet. MTS Bus Route #41 runs at 15-minute headways during peak periods and 30-minute headways during off-peak period on weekdays. When UCSD is in session, MTS Bus Route #41 runs at 6-minute headways between 6:47 and 9:32AM towards UCSD and between 2:59PM and 5:29PM towards Fashion Valley. MTS Bus Route #41 also runs at 30-minute headways during peak period and 60-minute off-peak periods on the weekends. MTS Bus Route #41 runs from approximately 5:20AM and 11:40PM on weekdays, 6:30 AM and 10:00 PM on Sundays, and 6:00 AM and 10:30 PM on Saturdays.

Project Impacts

Potential impacts relating to pedestrian, bicycle and transit circulation would be considered significant if the Proposed Project would substantially increase hazards due to a design feature, or would conflict with the adopted policies plans, or programs supporting alternative transportation, as outlined in Appendix G of the *California Environmental Quality Act (CEQA) Guidelines*. Based on an initial review of the project site plan the Proposed Project would not generate any significant impacts associated with pedestrian, bicycle or transit facilities.

10.0 Travel Demand Management (TDM)

Implementation of a travel demand management (TDM) plan could lead to vehicle trip reduction, increased use of alternative modes, and better traffic management in the vicinity of the Project area. Based upon review of the Proposed Project site plan, the Proposed Project location in relation to near-by land uses and non-auto facilities, the following TDM measures are recommended:

1. Provide wayfinding signage to guide residents/retail patrons to/from bus stops on Genesee Avenue and Balboa Avenue. Exact signage location and type to be determine with coordination with City staff.

2. Provide secure bicycle parking within the community. Parking racks should accommodate U-locks.

3. Designate a Transportation Coordinator (such as a board member of the homeowner's association, a consultant, or a property management company representative) to monitor the TDM Program. The Transportation Coordinator will be responsible for developing, marketing, implementing, and evaluating the proposed TDM measures included in this Plan. The Transportation Coordinator's duties would include the following:
    - Create and distribute a "new resident" information packet identifying components of the TDM Plan, including but not limited to: carpool, vanpool and rideshare, transit route maps and service schedules, websites with relevant TDM information.
    - Provide information and resources regarding transit options and SANDAG's iCommute program on a yearly basis.
    - The Transportation Coordinator will coordinate with the nearby schools (e.g. Mt. Everest Academy, High Tech High Mesa, Sequoia Elementary School) to implement a "Walking School Bus" program (if feasible), whereby neighborhood students are accompanied by a "chaperone" (e.g., parental supervision) to safely walk to and from the school.

    The Transportation Coordinator will coordinate with the nearby schools to provide student biking information to residents as a part of the "new resident" package.

4. Provide Electric Vehicle (EV) charging stations.

5. Implement raised crosswalks and curb extensions at the Genesee Avenue and Balboa Avenue intersection.

A final TDM plan will be developed in coordination with the City of San Diego.

11.0 Vehicle Miles Traveled (VMT)

Transportation is a major contributor to GHG emissions and a direct result of population and employment growth, which generates vehicle trips to move goods, provides public services, and connects people with work, school, shopping, and other activities. Growth in travel (especially vehicle travel) is due in large part to urban development patterns (i.e., the built environment). A performance measure used to quantify the amount of travel is Vehicle Miles Traveled (VMT).

The VMT estimates were derived from travel demand (TDF) model, used in this analysis to estimate the Project's trip distribution and to develop the Horizon Year 2050 traffic volumes. **Table 11.1** displays the VMT results for regional average and the Proposed Project. According to the model, the regional average daily VMT per capita for residents is 14.3 and the regional average daily work-related VMT per employee is 21.3. The Proposed Project's VMT would be 12.7 and 17.2 for residents and employees, respectively, which is both lower than the regional average. Given that the City has not yet adopted a significance criterion for the impending SB 743, the VMT analysis is used solely for informational purposes and not used to identify impacts. **Appendix M** includes the SANDAG Series 13 model VMT analysis worksheet.

Table 11.1 Vehicle Miles Traveled

	Regional VMT Average Per Capita	Proposed Project
Residential (Households)	14.3	12.7
Retail (Employment)	21.3	17.2

Source: SANDAG Series 13 Travel Demand Model

Appendix A
Signal Timing Plans

INTERSECTION: Clairemont Mesa Blvd & Genesee Ave

OBAD Adv. Locks Ø6

223 ogram

Group Assignment: 4013
Field Master Assignment: NONE

N/S Street Name: GENESEE
E/W Street Name: CLAIREMONT MESA

Last Database Change:
System Ref. Number: 264

		Clmt Mesa	Genesee	Clmt Mesa	Genesee				
	Column # ---->	Phase							
Row	Phase # ---->	1	2	3	4	5	6	7	8
0	Ped Walk		7		7		7		7
1	Ped FDW		21		24		21		24
2	Min Green	4	~~10~~ 15	4	10	4	~~10~~ 5	4	10
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	3.2	2.0	2.0	2.0	3.2	2.0	2.0
6	Max Gap	2.0	3.2	2.0	2.0	2.0	3.2	2.0	2.0
7	Min Gap	2.0	0.2	2.0	2.0	2.0	0.2	2.0	2.0
8	Max Limit	30	40	30	40	30	40	30	40
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1				0.1		
D	Every		1.0				1.0		
E	Yellow	3.4	4.0	3.4	3.9	3.4	4.0	3.4	3.9
F	Red Clear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Phase Timing - Bank 1
F + Phase + Row

<F Page>

Row		E
	RR-1 Delay	
	RR-1 Clear	
	EV-A Delay	0
	EV-A Clear	0
	EV-B Delay	0
	EV-B Clear	0
	EV-C Delay	0
	EV-C Clear	0
	EV-D Delay	0
	EV-D Clear	0
	RR-2 Delay	
	RR-2 Clear	
	View EV Delay	---
	View EV Clear	---
	View RR Delay	---
	View RR Clear	---

Preempt Timing
F + E + Row

Row		F
0	Permit	1234567
1	Red Lock	
2	Yellow Lock	
3	Min Recall	_2___6__
4	Ped Recall	
5	Peds (View)	_2_4_6_8
6	Rest In Walk	
7	Red Rest	
8	Dbl Entry	
9	Max Recall	
A	Soft Recall	
B	Max 2	
C	Cond Serv	
D	Ped Lock	12345678
E	Yellow Start	_2___6__
F	1st Phases	__3___7_

Phase Functions <F Page>
F + F + Row

Max Initial	0
Red Revert	5.0
All Red Start	0.0

F + 0 + E
F + 0 + F
F + C + O

Start / Revert Times

Drop Number	2
Zone Number	2
Area Number	5
Area Address	19
QuicNet Channel	COM39:

C + 0 + 0
C + 0 + 1
C + 0 + 2
C + 0 + 3
(QuicNet)

Communication Addresses

Overlap Timing

	Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A	A				
Overlap B	B				
Overlap C	C				
Overlap D	D				

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

Manual Plan	0
Manual Offset	0

C + A + 1
C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

C + F + O

	F	Row
Free Lag	_2_4_6_8	0

Lag Phases <C Page>

Downtime Flash	255	(minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	234

Disable Communication Ports
D + D + 9

Timing Sheet By: LEM
Approved By: FLG
Drawing Number:
Timing Implemented On: 4/23/10

9

INTERSECTION: Clairemont Mesa Blvd & Genese[illegible]ve

223 P[illegible]gram

Row	Time	Function	Day of Week	Column F Phases/Bits
0	00 : 01	E	1234567	1
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	2
6	Ped 6P	6
7	Ped 4P	4
8	Ped 8P	8
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration

<E Page>

E + F + ROW

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	2 5
B	EV-B Phases	4 7
C	EV-C Phases	1 6
D	EV-D Phases	3 8
E	Extra 1 Config. Bits	1 345
F	IC Select (Interconnect)	2

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

Row	1 Delay	3 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	5
	2I3U	21
	2I3L	25
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		1.8
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	6
	6J3U	22
	6J3L	26
	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	19
---	---	---
---	---	---

Detector Delay & Carryover <D Page>

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234____
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	____5678
E	-- -- -- -- -- -- -- --	1234____
F	-- 25 26 27 28 -- -- --	_2345___

Active Detectors <D Page>

Row		0 Detector #
0		
1	System Det. # 1	0
2	System Det. # 2	0
3	System Det. # 3	0
4	System Det. # 4	0
5	System Det. # 5	0
6	System Det. # 6	0
7	System Det. # 7	0
8	System Det. # 8	0

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number	0	F+C+1
Time Before Yellow	0.0	F+C+3

Advance Warning Beacon - Sign 1

Phase Number	0	F+D+1
Time Before Yellow	0.0	F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Clairemont Mesa Blvd & Genese[illegible]ve

223 F[illegible]ram

Coordination Timing By: FLG
Implemented On: 10/27/2009

Row	Plan Name --->	Plan 1	Plan 2 PM	Plan 3	Plan 4	Plan 5	Plan 6 AM-PEAK	Plan 7 AM	Plan 8 MID	Plan 9
0	Cycle Length		126				108	108	112	
1	Phase 1 - ForceOff		78				13	13	14	
2	Phase 2 - ForceOff		0				0	0	0	
3	Phase 3 - ForceOff		22				30	30	32	
4	Phase 4 - ForceOff		59				67	67	69	
5	Phase 5 - ForceOff		78				85	85	84	
6	Phase 6 - ForceOff		0				0	0	0	
7	Phase 7 - ForceOff		20				67	67	69	
8	Phase 8 - ForceOff		59				53	53	52	
9	Ring Offset									
A	Offset A		15				48	48	18	
B	Offset B									
C	Offset C									
D	Permissive		12				11	11	11	
E	Hold Release		255				104	255	255	
F	Ped Shift		2				0	0	0	

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

Row	Time	Plan	Offset	Day of Week
0	07 : 00	7	A	_23456_
1	09 : 00	6	A	_23456_
2	09 : 30	8	A	_23456_
3	15 : 30	2	A	_23456_
4	18 : 30	E	A	1234567
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination

<9 Key with C+0+9=1>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

	E	Row		F
		0	Free Lag	_2_4_6_8
Plan 1		1	Plan 1 - Lag	
Plan 2	_2___6__	2	Plan 2 - Lag	_2_4_6_8
Plan 3		3	Plan 3 - Lag	
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6	_2___6__	6	Plan 6 - Lag	1__4_67_
Plan 7	_2___6__	7	Plan 7 - Lag	1__4_67_
Plan 8	_2___6__	8	Plan 8 - Lag	1__4_67_
Plan 9		9	Plan 9 - Lag	
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

Transition Type	0

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

INTERSECTION: Bannock Ave @ Genesee Ave

223 Program

Group Assignment: 4042
Field Master Assignment: NONE

N/S Street Name: GENESEE
E/W Street Name: BANNOCK

Last Database Change:
System Ref. Number:

N

Row	Column # ---->	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8
	Phase # ---->		Genesee		Bannock		Genesee		
0	Ped Walk		7		7		7		
1	Ped FDW		11		21		9		
2	Min Green	4	10		4	4	10		
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	2.3		2.0	2.0	5.4		
6	Max Gap	2.0	2.3		2.0	2.0	5.4		
7	Min Gap	2.0	0.2		2.0	2.0	0.2		
8	Max Limit	25	40		30	25	40		
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1				0.1		
D	Every		1.4				0.6		
E	Yellow	3.4	3.9		3.9	3.4	4.0		
F	Red Clear	1.0	1.0		1.0	1.0	1.0		

Phase Timing - Bank 1
F + Phase + Row

<F Page>

Row	E
RR-1 Delay	
RR-1 Clear	
EV-A Delay	0
EV-A Clear	0
EV-B Delay	
EV-B Clear	
EV-C Delay	0
EV-C Clear	0
EV-D Delay	
EV-D Clear	
RR-2 Delay	
RR-2 Clear	
View EV Delay	---
View EV Clear	---
View RR Delay	---
View RR Clear	---

Preempt Timing
F + E + Row

Row	F
Permit	12_456__
Red Lock	
Yellow Lock	
Min Recall	
Ped Recall	
Peds (View)	_2_4_6__
Rest In Walk	
Red Rest	
Dbl Entry	
Max Recall	
Soft Recall	_2___6__
Max 2	
Cond Serv	
Ped Lock	12345678
Yellow Start	_2___6__
1st Phases	___4____

Phase Functions <F Page>
F + F + Row

Max Initial	0
Red Revert	5.0
All Red Start	0.0

F + 0 + E
F + 0 + F
F + C + O

Start / Revert Times

Drop Number	3
Zone Number	3
Area Number	5
Area Address	21
QuicNet Channel	COM40:

C + 0 + 0
C + 0 + 1
C + 0 + 2
C + 0 + 3
(QuicNet)

Communication Addresses

Overlap Timing

	Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A	A				
Overlap B	B				
Overlap C	C				
Overlap D	D				

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

C + F + O	F	Row
Free Lag	_2_4_6__	0

Lag Phases <C Page>

Downtime Flash	255 (minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	234

Disable Communication Ports
D + D + 9

Manual Plan	0	C + A + 1
Manual Offset	0	C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

Timing Sheet By: LEM
Approved By: PLG
Drawing Number: 18862-1
Timing Implemented On: 04/19/10

INTERSECTION: Bannock Ave @ Genesee Ave

223 Program

Coordination Timing By: G
Implemented On: 11/12/2009

Row	Column # --->	Plan 1	2	3	4	5	6	7	8	9
	Plan Name --->		PM					AM	MID	
0	Cycle Length		126					108	112	
1	Phase 1 - ForceOff		55					76	80	
2	Phase 2 - ForceOff		0					0	0	
3	Phase 3 - ForceOff									
4	Phase 4 - ForceOff		34					51	56	
5	Phase 5 - ForceOff		52					14	20	
6	Phase 6 - ForceOff		0					0	0	
7	Phase 7 - ForceOff									
8	Phase 8 - ForceOff									
9	Ring Offset									
A	Offset A		86					8	97	
B	Offset B									
C	Offset C									
D	Permissive		12					11	11	
E	Hold Release		255					255	255	
F	Ped Shift		0					0	0	

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

Row	Time	Plan	Offset	Day of Week
0	07 : 00	7	A	_23456_
1	09 : 00	E	A	1234567
2	11 : 30	8	A	_23456_
3	13 : 00	E	A	1234567
4	15 : 30	2	A	_23456_
5	18 : 00	E	A	1234567
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination

<9 Key with C+0+9=1>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

	E	Row		F
		0	Free Lag	_2_4_6__
Plan 1		1	Plan 1 - Lag	
Plan 2	_2___6__	2	Plan 2 - Lag	_2_4_6__
Plan 3		3	Plan 3 - Lag	
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6		6	Plan 6 - Lag	
Plan 7	_2___6__	7	Plan 7 - Lag	_2_45___
Plan 8	_2___6__	8	Plan 8 - Lag	_2_45___
Plan 9		9	Plan 9 - Lag	
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

Transition Type	0

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

Row	1 Delay	3 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	5
	2I3U	21
	2I3L	25
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Delay & Carryover <D Page>

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	6
	6J3U	22
	6J3L	26
	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	19
---	---	---
---	---	---

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234____
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	____5678
E	-- -- -- -- -- -- -- --	1234____
F	-- 25 26 27 28 -- -- --	_2345___

Active Detectors <D Page>

Row		0 Detector #
0		
1	System Det. # 1	0
2	System Det. # 2	0
3	System Det. # 3	0
4	System Det. # 4	0
5	System Det. # 5	0
6	System Det. # 6	0
7	System Det. # 7	0
8	System Det. # 8	0

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number	0	F+C+1
Time Before Yellow	0.0	F+C+3

Advance Warning Beacon - Sign 1

Phase Number	0	F+D+1
Time Before Yellow	0.0	F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Bannock Ave @ Genesee Ave

223 Program

Row	Time	Function	Day of Week	Column F Phases/Bits
0	00 : 01	E	1234567	1
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function <D Page>

7 + ROW D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	2
6	Ped 6P	6
7	Ped 4P	4
8	Ped 8P	
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration <E Page>

E + F + ROW

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	2 5
B	EV-B Phases	
C	EV-C Phases	1 6
D	EV-D Phases	
E	Extra 1 Config. Bits	1 345
F	IC Select (Interconnect)	2

Configuration

For access, set F + 9 + E = 1 E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

INTERSECTION: Chateau Dr @ Genesee Ave

223 Program

Group Assignment: 4019
Field Master Assignment: NONE
N/S Street Name: GENESEE AVE
E/W Street Name: CHATEAU DR
Last Database Change:
System Ref. Number:



Row	Column # ---->	Phase 1	2	3	4	5	6	7	8
	Phase # ---->		Genesee				Genesee		Chateau
0	Ped Walk		7						7
1	Ped FDW		11						17
2	Min Green	4	10				10		4
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	4.4				4.3		2.0
6	Max Gap	2.0	4.4				4.3		2.0
7	Min Gap	2.0	0.2				0.2		2.0
8	Max Limit	30	60				60		40
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs	6	6						
C	Reduce By		0.1				0.1		
D	Every		0.7				0.7		
E	Yellow	3.4	4.7				4.8		3.9
F	Red Clear	2.0	1.0				1.0		2.0

Phase Timing - Bank 1 <F Page>
F + Phase + Row

Row	E
RR-1 Delay	
RR-1 Clear	
EV-A Delay	0
EV-A Clear	0
EV-B Delay	
EV-B Clear	
EV-C Delay	0
EV-C Clear	0
EV-D Delay	0
EV-D Clear	0
RR-2 Delay	
RR-2 Clear	
View EV Delay	---
View EV Clear	---
View RR Delay	---
View RR Clear	---

Preempt Timing
F + E + Row

Row	F
Permit	12 6 8
Red Lock	
Yellow Lock	
Min Recall	
Ped Recall	
Peds (View)	2 8
Rest In Walk	
Red Rest	
Dbl Entry	
Max Recall	
Soft Recall	2 6
Max 2	
Cond Serv	
Ped Lock	12345678
Yellow Start	2 6
1st Phases	8

Phase Functions <F Page>
F + F + Row

Max Initial	0
Red Revert	5.0
All Red Start	0.0

F + 0 + E
F + 0 + F
F + C + O

Start / Revert Times

Drop Number	4
Zone Number	4
Area Number	5
Area Address	41
QuicNet Channel	COM40:

C + 0 + 0
C + 0 + 1
C + 0 + 2
C + 0 + 3
(QuicNet)

Communication Addresses

Overlap Timing

	Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A	A				
Overlap B	B				
Overlap C	C				
Overlap D	D				

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

Manual Plan	0
Manual Offset	0

C + A + 1
C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

C + F + O	F	Row
Free Lag	2 6 8	0

Lag Phases <C Page>

Downtime Flash	255	(minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	234

Disable Communication Ports
D + D + 9

Timing Sheet By: LEM
Approved By: FLG
Drawing Number: 28122-1-D
Timing Implemented On: 4/21/10

Row	1 Delay	3 Carry-over
0		
1		1.8
2		
3		
4		1.8
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	5
	2I3U	21
	2I3L	25
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		
3		
4		1.8
5		
6		
7	10.0	
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	6
	6J3U	22
	6J3L	26
	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	19
---	---	---
---	---	---

Detector Delay & Carryover <D Page>

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 – – – –	1234___
C	13 14 15 16 17 18 19 20	12345678
D	– – – – 21 22 23 24	___5678
E	– – – – – – – –	1234___
F	– 25 26 27 28 – – –	_2345___

Active Detectors <D Page>

Row	0 Detector #
0	
1	System Det. # 1 0
2	System Det. # 2 0
3	System Det. # 3 0
4	System Det. # 4 0
5	System Det. # 5 0
6	System Det. # 6 0
7	System Det. # 7 0
8	System Det. # 8 0

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number	0	F+C+1
Time Before Yellow	0.0	F+C+3

Advance Warning Beacon - Sign 1

Phase Number	0	F+D+1
Time Before Yellow	0.0	F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Chateau Dr @ Genesee Ave

223 [illegible]ram

Coordination Timing By: FLG
Implemented On: 11/12/2009

Row	Plan Name →	Plan 1	Plan 2 PM	Plan 3	Plan 4	Plan 5	Plan 6	Plan 7 AM	Plan 8 MID	Plan 9
	Column # →	1	2	3	4	5	6	7	8	9
0	Cycle Length		126					108	112	
1	Phase 1 - ForceOff		53					15	46	
2	Phase 2 - ForceOff		0					0	0	
3	Phase 3 - ForceOff									
4	Phase 4 - ForceOff									
5	Phase 5 - ForceOff									
6	Phase 6 - ForceOff		0					15	0	
7	Phase 7 - ForceOff									
8	Phase 8 - ForceOff		30					45	32	
9	Ring Offset									
A	Offset A		42					80	44	
B	Offset B									
C	Offset C									
D	Permissive		13					15	11	
E	Hold Release		255					255	255	
F	Ped Shift		0					0	0	

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

Row	Time	Plan	Offset	Day of Week
0	07 : 00	7	A	_23456_
1	09 : 00	E	A	1234567
2	11 : 00	8	A	_23456_
3	13 : 00	E	A	1234567
4	15 : 30	2	A	_23456_
5	18 : 00	E	A	1234567
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination

<9 Key with C+0+9=1>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

	E	Row		F
		0	Free Lag	_2___6_8
Plan 1		1	Plan 1 - Lag	
Plan 2	_2___6__	2	Plan 2 - Lag	_2___6_8
Plan 3		3	Plan 3 - Lag	
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6		6	Plan 6 - Lag	
Plan 7	_2_____	7	Plan 7 - Lag	1___6_8
Plan 8	_2___6__	8	Plan 8 - Lag	_2___6_8
Plan 9		9	Plan 9 - Lag	
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

Transition Type	0

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

INTERSECTION: Chateau Dr @ Genesee Ave

Row	Time	Function	Day of Week	Column F Phases/Bits
0	00 : 01	E	1234567	1
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	2
6	Ped 6P	
7	Ped 4P	
8	Ped 8P	8
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration <E Page>

E + F + ROW

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	2
B	EV-B Phases	
C	EV-C Phases	1 6
D	EV-D Phases	8
E	Extra 1 Config. Bits	1 345
F	IC Select (Interconnect)	2

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week

8-1 Day-of-Month, Year, Month

8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications

(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program

C + C + F = version

Remote Download

C + 0 + 4 = 1 -255

w/ E + E + E bit 5 on

INTERSECTION: Genesee Ave @ Mt Herbert Ave

223 Program

Group Assignment:
Field Master Assignment: NONE

N/S Street Name: GENESEE AVE
E/W Street Name: MT HERBERT AVE

Last Database Change:
System Ref. Number:



Genesee | Mt Herbert | Genesee

Row	Column # / Phase #	Phase 1	2	3	4	5	6	7	8
		↓	→		↓ ↑	↑	←		
0	Ped Walk		7		7		7		
1	Ped FDW		10		22		10		
2	Min Green	4	7		4	4	7		
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	3.8		2.0	2.0	3.7		
6	Max Gap	2.0	3.8		2.0	2.0	3.7		
7	Min Gap	2.0	0.2		2.0	2.0	0.2		
8	Max Limit	30	50		30	30	50		
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1				0.1		
D	Every		0.8				0.9		
E	Yellow	3.4	4.5		3.9	3.4	4.8		
F	Red Clear	1.0	1.0		1.0	1.0	1.0		

Phase Timing - Bank 1
F + Phase + Row

<F Page>

Row		E
	RR-1 Delay	
	RR-1 Clear	
	EV-A Delay	0
	EV-A Clear	0
	EV-B Delay	
	EV-B Clear	
	EV-C Delay	
	EV-C Clear	
	EV-D Delay	
	EV-D Clear	
	RR-2 Delay	
	RR-2 Clear	
	View EV Delay	---
	View EV Clear	---
	View RR Delay	---
	View RR Clear	---

Preempt Timing
F + E + Row

Row		F
0	Permit	12_456__
1	Red Lock	
2	Yellow Lock	
3	Min Recall	_2___6__
4	Ped Recall	
5	Peds (View)	_2_4_6_8
6	Rest In Walk	
7	Red Rest	
8	Dbl Entry	
9	Max Recall	
A	Soft Recall	
B	Max 2	
C	Cond Serv	
D	Ped Lock	12345678
E	Yellow Start	_2___6__
F	1st Phases	___4____

Phase Functions <F Page>
F + F + Row

Max Initial	0	F + 0 + E
Red Revert	5.0	F + 0 + F
All Red Start	0.0	F + C + O

Start / Revert Times

Drop Number	2	C + 0 + 0
Zone Number	2	C + 0 + 1
Area Number	5	C + 0 + 2
Area Address	68	C + 0 + 3
QuicNet Channel	COM40:	(QuicNet)

Communication Addresses

Overlap Timing

	Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A	A				
Overlap B	B				
Overlap C	C				
Overlap D	D				

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

Manual Plan	0	C + A + 1
Manual Offset	0	C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

C + F + O	F	Row
Free Lag	_2_4_6__	0

Lag Phases <C Page>

Downtime Flash	255	(minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	234

Disable Communication Ports
D + D + 9

Timing Sheet By: LEM
Approved By:
Drawing Number: 18433-1
Timing Implemented On: 4/23/10

ROW	Time	Function	Day of Week	Column F Phases/Bits
0	00 : 01	E	1234567	1
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function <D Page>

7 + ROW D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	2
6	Ped 6P	6
7	Ped 4P	4
8	Ped 8P	
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration <E Page>

E + F + ROW

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	2 6
B	EV-B Phases	
C	EV-C Phases	
D	EV-D Phases	
E	Extra 1 Config. Bits	1 345
F	IC Select (Interconnect)	2

Configuration

For access, set F + 9 + E = 1 E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications
(if set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

Row	1 Delay	3 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7	10.0	
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	5
	2I3U	21
	2I3L	25
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	6
	6J3U	22
	6J3L	26
	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	19
---	---	---
---	---	---

Detector Delay & Carryover <D Page>

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 – – – –	1234____
C	13 14 15 16 17 18 19 20	12345678
D	– – – – 21 22 23 24	____5678
E	– – – – – – – –	1234____
F	– 25 26 27 28 – – –	_2345___

Active Detectors <D Page>

Row	0 Detector #
0	
1	System Det. # 1 0
2	System Det. # 2 0
3	System Det. # 3 0
4	System Det. # 4 0
5	System Det. # 5 0
6	System Det. # 6 0
7	System Det. # 7 0
8	System Det. # 8 0

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number	0	F+C+1
Time Before Yellow	0.0	F+C+3

Advance Warning Beacon - Sign 1

Phase Number	0	F+D+1
Time Before Yellow	0.0	F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Genesee Ave @ Mt Herbert Ave

223 Program

Coordination Timing By: TLG
Implemented On: 10/27/2009

Row	Plan Name --->	Plan 1	Plan 2 PM	Plan 3	Plan 4	Plan 5	Plan 6	Plan 7 AM	Plan 8 MID	Plan 9
0	Cycle Length		126					108	112	
1	Phase 1 - ForceOff		58					50	48	
2	Phase 2 - ForceOff		0					0	0	
3	Phase 3 - ForceOff									
4	Phase 4 - ForceOff		37					35	35	
5	Phase 5 - ForceOff		58					50	47	
6	Phase 6 - ForceOff		0					0	0	
7	Phase 7 - ForceOff									
8	Phase 8 - ForceOff									
9	Ring Offset									
A	Offset A		58					60	63	
B	Offset B									
C	Offset C									
D	Permissive		13					11	11	
E	Hold Release		255					255	255	
F	Ped Shift		0					0	0	

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

Row	Time	Plan	Offset	Day of Week
0	07 : 00	7	A	_23456_
1	09 : 00	E	A	1234567
2	11 : 00	8	A	_23456_
3	13 : 00	E	A	1234567
4	15 : 30	2	A	_23456_
5	18 : 00	E	A	1234567
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination

<9 Key with C+0+9=1>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

	E	Row		F
		0	Free Lag	_2_4_6__
Plan 1		1	Plan 1 - Lag	
Plan 2	_2__6__	2	Plan 2 - Lag	_2_4_6__
Plan 3		3	Plan 3 - Lag	
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6		6	Plan 6 - Lag	
Plan 7	_2__6__	7	Plan 7 - Lag	_2_4_6__
Plan 8	_2__6__	8	Plan 8 - Lag	_2_4_6__
Plan 9		9	Plan 9 - Lag	
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

Transition Type	0

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

INTERSECTION: Derrick Drive @ Genesee Avenue

233 Program

Group Assignment:
Field Master Assignment:
System Reference Number:

N/S Street: GENESEE
E/W Street: DERRICK

Last Database Change:
Timing sheets by: M2S
Approved by: FLG
Drawing Number: 22938-6-D
Timing implemented on: 01/20/12

		GENESEE	DERRICK		GENESEE		DERRICK		
		Phase							
Phase Numbers---->		1	2	3	4	5	6	7	8
Row		↳	↑		→	↰	↓		←
0	Ped Walk		7		7		7		7
1	Ped FDW		11		26		7		26
2	Min Green	4	10		4	4	10		4
3	Type 3 Disconnect								
4	Added per Vehicle		1.6				1.6		
5	Veh Extension	2.0	8.6		2.0	2.0	5.9		2.0
6	Max Gap	2.0	8.6		2.0	2.0	5.9		2.0
7	Min Gap	2.0	2.0		2.0	2.0	2.0		2.0
8	Max Limit	34	70		44	34	70		44
9	Max Limit 2								
A	Adv. / Delay Walk				7				7
B	PE Min Ped FDW								
C	Cond Serv Check								
D	Reduce Every		0.5				0.8		
E	Yellow Change	3.4	3.9		3.9	3.4	4.6		3.9
F	Red Clear	1.0	1.0		1.0	1.0	1.0		1.0

Phase Timing - Bank 1 <F/1+Phase+Row>

Row		E
	RR-1 Delay	
	RR-1 Clear	
	EV-A Delay	
	EV-A Clear	
	EV-B Delay	
	EV-B Clear	
	EV-C Delay	0
	EV-C Clear	0
	EV-D Delay	
	EV-D Clear	
	RR-2 Delay	
	RR-2 Clear	
	View EV Delay	- - -
	View EV Clear	- - -
	View RR Delay	- - -
	View RR Clear	- - -

Preempt Timing <F/1+E+Row>

	F	Row
Permit	12_456_8	0
Red Lock		1
Yellow Lock		2
Min Recall		3
Ped Recall		4
View Set Peds	2 4 6 8	5
Rest In Walk		6
Red Rest		7
Double Entry	4 8	8
Max Recall		9
Soft Recall	2 6	A
Max 2		B
Cond. Service		C
Man Cntrl Calls		D
Yellow Start	2 6	E
First Phases	4 8	F

Phase Functions <F/1+F+Row>

Current Calculated Cycle Length: C/0 + B + F

	9	A	B	C	D
	- - -	- - -	- - -	- - -	- - -
Phase 1					
Phase 2	28				
Phase 3					
Phase 4					
Phase 5					
Phase 6	27				
Phase 7					
Phase 8					
Max Initial					
Alternate Walk					
Alternate FDW					
Alternate Initial					
Alternate Extension					

Alternate Timing <F/1+Column+Phase>

Drop Number	1	<C/0+0+0>
Zone Number	1	<C/0+0+1>
Area Number	5	<C/0+0+2>
Area Address	71	<C/0+0+3>
QuicNet Channel	43	(QuicNet)

Communication Addresses

Flash Start	0	<F/1+0+E>
Red Revert	5.0	<F/1+0+F>
All Red Start	0.0	<F/1+C+0>

Start / Revert Times

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset

(Outputs specified in Assignable Outputs at E/127+A+E & F)

Exclusive Walk	0	<F/1+0+0>
Exclusive FDW	0	<F/1+0+1>
All Red Clear	0.0	<F/1+0+2>

Exclusive Ped Phase

FLG 4-12-12

Manual Plan	~~14~~ 0	<C/0+A+1>
Manual Offset	0	<C/0+B+1>

Manual Selection

Free Lag	2 4 6 8	<C/1+F+0>

How to Set Page Access Code:
F/1 – C + 0 + F = 1

Notes: Lead Pedestrian Interval (LPI) for EB & WB crossing

INTERSECTION: Derrick Drive @ Genesee Avenue

Row		Overlap 1	2	3	4	5	6	7	8
0	Load Switch Number								
1	Veh Set 1 - Phases								
2	Veh Set 2 - Phases								
3	Veh Set 3 - Phases								
4	Neg Veh Phases								
5	Neg Ped Phases								
6	Green Omit Phases								
7	Green Clear Omit Phs.								
8									
9									
A									
B									
C									
D	Green Clear								
E	Yellow Change								
F	Red Clear								

Overlap Assignments <E/29+Column+Row>

	F
Fast Green Flash Phase	
Green Flash Phases	
Flashing Walk Phases	
Guaranteed Passage	
Simultaneous Gap Term	12345678
Sequential Timing	
Advance Walk Phases	4 8
Delay Walk Phases	
External Recall	
Start-up Overlap Green	
Max Extension	
Inhibit Ped Reservice	
Semi-Actuated	
Start-up Overlap Yellow	
Start-up Vehicle Calls	12345678
Start-up Ped Calls	12345678

Specials <F/2+F+Row>

Row: 0 1 2 3 4 5 6 7 8 9 A B C D E F

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Flash to PE Circuits	
6	Flash Entry Phases	
7	Disable Yellow Range	
8	Disable Ovp Yel Range	
9	Overlap Yellow Flash	
A	EV-A Phases	
B	EV-B Phases	
C	EV-C Phases	1 6
D	EV-D Phases	
E	Extra 1 Config. Bits	1_345
F	IC Select (Interconnect)	2

Configuration <E/125+E+Row>

	F
Ext. Permit 1 Phases	
Ext. Permit 2 Phases	
Exclusive Ped Assign	
Preempt Non-Lock	12345678
Ped for 2P Output	2
Ped for 6P Output	6
Ped for 4P Output	4
Ped for 8P Output	8
Yellow Flash Phases	
Low Priority A Phases	
Low Priority B Phases	
Low Priority C Phases	
Low Priority D Phases	
Restricted Phases	
Extra 2 Config. Bits	3

Configuration <E/125+F+Row>

	C
EV-A	
EV-B	
EV-C	
EV-D	
RR-1 *	- - -
RR-2 *	- - -
SE-1	0
SE-2	0

<E/125+C+Row>

Preemption Priority

(* RR-1 is always Highest, and RR-2 is always Second Highest)

Row: 0 1 2 3 4 5 6 7 8 9 A B C D E F

	2
Phase 1	0
Phase 2	0
Phase 3	0
Phase 4	0
Phase 5	0
Phase 6	0
Phase 7	0
Phase 8	0

<C/5+2+Row>

Coordination Transition Minimums

Row: 0 1 2 3 4 5 6 7 8 9 A B C D E F

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Extended Status
6 = International Ped
7 = Flash - Clear Outputs
8 = Split Ring

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Extra 2 Flags
1 = AWB During Initial
2 = LMU Installed
3 = Disable Min Walk
4 = QuicNet/4 System
5 = Ignore P/P on EV
6 =
7 = Reserved
8 =

Flash to PE & PE Non-Lock
1 = EV A 5 = RR 1
2 = EV B 6 = RR 2
3 = EV C 7 = SE 1
4 = EV D 8 = SE 2

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

Time and Date

Begin Month	0	<C/5+2+A>
Begin Week	0	<C/5+2+B>
End Month	0	<C/5+2+C>
End Week	0	<C/5+2+D>

Daylight Savings Time

Daylight Savings Date:
If set to all zeros, standard dates will be used.

Row	Detector Name	0 C1 Pin Number	1 Attributes	2 Phase(s)	3 Assign	1 Delay	3 Carry-Over
0		39	45_7_	2	123 8		
1		40	45_7_	6	123 8		
2	4I6U	41	45_7_	4	123 8	5.0	
3		42	45_7_	8	123 8		
4		43	45_7_	2	123 8		
5		44	45_7_	6	123 8		
6		45	45_7_	4	123 8		
7		46	45_7_	8	123 8		
8		47	67_	2	123 8		
9		48	67_	6	123 8		
A		49	67_	4	123 8		
B		50	67_	8	123 8		
C		55	45_7_	5	123 8		
D		56	45_7_	1 7	123 8		
E		57	45_7_	7	123 8		
F		58	45_7_	3	123 8		

Program Type:

Row	Detector Name	4 C1 Pin Number	5 Attributes	6 Phase(s)	7 Assign	2 Delay	4 Carry-Over
0		59	45_7_	5	123 8		
1		60	45_7_	1 7	123 8		
2		61	45_7_	7	123 8		
3		62	45_7_	3	123 8		
4		63	45_7_	2	123 8		
5		64	45_7_	6	123 8		
6	4I7U	65	45_7_	4	123 8	10.0	
7		66	45_7_	8	123 8		
8		67	2	2	123 8		
9		68	2	6	123 8		
A		69	2	4	123 8		
B		70	2	8	123 8		
C		76	45_7_	2	123 8		
D		77	45_7_	6	123 8		
E		78	45_7_	4	123 8		
F		79	45_7_	8	123 8		

Detector Assignments <E/126+Column+Row> <D/0+Column+Row>

Detector Attributes
1 = Full Time Delay
2 = Ped Call
3 =
4 = Count
5 = Extension
6 = Type 3
7 = Calling
8 = Alternate

Det. Assignments
1 = Det. Set 1
2 = Det. Set 2
3 = Det. Set 3
4 =
5 =
6 = Failure - Min Recall
7 = Failure - Max Recall
8 = Report on Failure

	Ped / Phase / Overlap 1	2	3	4	5	6	7	8	Row
Walk									0
Don't Walk									1
Phase Green									2
Phase Yellow									3
Phase Red									4
Overlap Green									5
Overlap Yellow									6
Overlap Red									7

Redirect Phase Outputs <E/127+Column+Row>

Cabinet Type	0

<E/125+D+0>

Enable Redirection
(Enable Redirection = 30)

Max OFF (minutes)	5	<D/0+0+1>
Max ON (minutes)	60	<D/0+0+2>

Detector Failure Monitor

	D	Row
		0
Output Port 1		1
Output Port 2		2
Output Port 3		3
Output Port 4		4
Output Port 5		5
Output Port 6		6
Output Port 7		7

Dimming <E/125+D+Row>

	D
Number of Digits	
1 st Digit	
2 ed Digit	
3 ed Digit	
4 th Digit	
5 th Digit	
6 th Digit	
7 th Digit	
8 th Digit	
9 th Digit	
10 th Digit	
11 th Digit	
12 th Digit	
13 th Digit	
14 th Digit	
15 th Digit	

<C/5+D+Row>

Dial-Back Telephone Number

Disable Alarms
1 = Stop Time
2 = Flash Sense
3 = Keyboard Entry
4 = Manual Plan
5 = Police Control
6 = External Alarm
7 = Detector Failure
8 =

	B	Row
DELAY-A	1	A
DELAY-B	1	B
DELAY-C	0	C
DELAY-D	0	D
DELAY-E	0	E
DELAY-F	0	F

<D/0+B+Row> (seconds)

Delay Logic Times

Omit Alarm	

<C/5+F+0>

Disable Alarm Reporting

Time	0

<C/5+C+0>

Redial Time (minutes)
(View Redial Timer at E/2+D+6)

Row	Time	Plan	Offset	Day of Week
0	07 : 30	7	A	_23456_
1	10 : 00	E	A	1234567
2	14 : 00	9	A	_23456_
3	18 : 00	E	A	1234567
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination <9/0.1+Row>
(Bank 1)

Time	Funct.	Day of Week

TOD Function <7/0.1+Row>

Column 4
Phases/Bits

<E/27+4+Row>

Row	Day	Year	Month	Holiday Type
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

Holiday Dates <8/1.1+Row>
(Bank 1)

Time	Plan	Offset	Holiday Type

Holiday Events <9/1.1+Row>
(Bank 1)

Row
0
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F

T.O.D. Functions:
0 =
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 8

Plan Select:
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

Month Select:
1 = January
2 = February
3 = March
4 = April
5 = May
6 = June
7 = July
8 = August
9 = September
A = October
B = November
C = December

Cycle Timer:
Master: C/0 + A + 0
Ring A: C/0 + B + 0
Ring B: C/0 + D + 0

Interval Timer:
Ring A: F/0 + A + Interval Row
Ring B: F/0 + B + Interval Row

Master Plan: C/0 + A + 2
Current Plan: C/0 + A + 3
TOD Plan: C/0 + A + 5

Row	Time	Plan	Offset	Day of Week
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination <9/0.2+Row>
(Bank 2)

Time	Funct.	Holiday Type

Holiday TOD Function <7/0.2+Row>

Column 4
Phases/Bits

<E/28+Row>

Row	Day	Year	Month	Holiday Type
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

Holiday Dates <8/1.2+Row>
(Bank 2)

Time	Plan	Offset	Holiday Type

Holiday Events <9/1.2+Row>
(Bank 2)

Row
0
1
2
3
4
5
6
7
8
9
A
B
C
D
E
F

Row	Plan Name —>	1	2	3	4	5	6	7	8	9	Row
								AM		PM	
0	Cycle Length							140	140	140	0
1	Phase 1 - ForceOff							97	89	100	1
2	Phase 2 - ForceOff							0	0	0	2
3	Phase 3 - ForceOff										3
4	Phase 4 - ForceOff							70	63	74	4
5	Phase 5 - ForceOff							20	83	20	5
6	Phase 6 - ForceOff							0	0	0	6
7	Phase 7 - ForceOff										7
8	Phase 8 - ForceOff							70	63	74	8
9	Ring Offset										9
A	Offset 1							133	129	129	A
B	Offset 2										B
C	Offset 3										C
D	Perm 1 - End							14	14	14	D
E	Hold Release							255	255	255	E
F	Zone Offset							0	0	0	F

Coordination - Timing Plans <C/1+Plan+Row>

Coord Extra
1 = Programmed WALK Time for Sync Phases
2 = Always Terminate Sync Phase Peds

Row		E	Row
0			0
1	Plan 1 - Sync		1
2	Plan 2 - Sync		2
3	Plan 3 - Sync		3
4	Plan 4 - Sync		4
5	Plan 5 - Sync		5
6	Plan 6 - Sync		6
7	Plan 7 - Sync	_2__6__	7
8	Plan 8 - Sync	_2__6__	8
9	Plan 9 - Sync	_2__6__	9
A	NEMA Sync		A
B	NEMA Hold		B
C			C
D			D
E	Coord Extra		E
F			F

Sync Phases <C/1+E+Row>

Row											Row
0	Ped Adjustment										0
1	Perm 2 - Start										1
2	Perm 2 - End										2
3	Perm 3 - Start										3
4	Perm 3 - End										4
5	Reservice Time										5
6	Reservice Phases										6
7											7
8	Pretimed Phases										8
9	Max Recall										9
A	Perm 1 Veh Phase										A
B	Perm 1 Ped Phase										B
C	Perm 2 Veh Phase										C
D	Perm 2 Ped Phase										D
E	Perm 3 Veh Phase										E
F	Perm 3 Ped Phase										F

Coordination - Parameters <C/2+Plan+Row>

Row		F	Row
0	Free Lag		0
1	Plan 1 - Lag		1
2	Plan 2 - Lag		2
3	Plan 3 - Lag		3
4	Plan 4 - Lag		4
5	Plan 5 - Lag		5
6	Plan 6 - Lag		6
7	Plan 7 - Lag	_2_45__8	7
8	Plan 8 - Lag	_2_4_6_8	8
9	Plan 9 - Lag	_2_45__8	9
A	External Lag		A
B			B
C			C
D			D
E			E
F			F

Lag Phases <C/1+F+Row>

Coordination Timing By:

Row	Column 9	Column A	Column B	Column C	Column D	Column E	Column F	Row
0	Spec. Funct. 1	NOT-3	Max 2	Pretimed	Set Monday	Dial 2 (7-Wire)	Sim Term	0
1	Spec. Funct. 2	NOT-4	System Det 1	Plan 1	Ext. Perm 1	Dial 3 (7-Wire)	EV-A 71	1
2	Spec. Funct. 3	OR-4 (a)	System Det 2	Plan 2	Ext. Perm 2	Offset 1 (7-Wire)	EV-B 72	2
3	Spec. Funct. 4	OR-4 (b)	System Det 3	Plan 3	Dimming	Offset 2 (7-Wire)	EV-C 73	3
4	NAND-3 (a)	OR-5 (a)	System Det 4	Plan 4	Set Clock	Offset 3 (7-Wire)	EV-D 74	4
5	NAND-3 (b)	OR-5 (b)	System Det 5	Plan 5	Stop Time 82	Free (7-Wire)	RR-1 51	5
6	NAND-4 (a)	OR-6 (a)	System Det 6	Plan 6	Flash Sense 81	Flash (7-Wire)	RR-2 52	6
7	NAND-4 (b)	OR-6 (b)	System Det 7	Plan 7	Manual Enable	Excl. Ped Omit	Spec. Event 1	7
8	OR-7 (a)	Fig 3 Diamond	System Det 8	Plan 8	Man. Advance	NOT-1	Spec. Event 2	8
9	OR-7 (b)	Fig 4 Diamond	Max Inhibit (nema)	Plan 9	External Alarm	NOT-2	External Lag	9
A	OR-7 (c)	AND-4 (a)	Force A (nema)	DELAY-A	Phase Bank 2	OR-1 (a)	AND-1 (a)	A
B	OR-7 (d)	AND-4 (b)	Force B (nema)	DELAY-B	Phase Bank 3	OR-1 (b)	AND-1 (b)	B
C	OR-8 (a)	NAND-1 (a)	C.N.A. (nema)	DELAY-C	Overlap Set 2	OR-2 (a)	AND-2 (a)	C
D	OR-8 (b)	NAND-1 (b)	Hold (nema)	DELAY-D	Overlap Set 3	OR-2 (b)	AND-2 (b)	D
E	OR-8 (c)	NAND-2 (a)	Max Recall	DELAY-E	Detector Set 2	OR-3 (a)	AND-3 (a)	E
F	OR-8 (d)	NAND-2 (b)	Min Recall	DELAY-F	Detector Set 3	OR-3 (b)	AND-3 (b)	F

Assignable Inputs <E/126+Column+Row>

Row	Column 9	Column A	Column B	Column C	Column D	Column E	Column F	Row
0	Phase ON - 1	Preempt Fail	Flasher 0	Free	NOT-1	TOD Out 1	Dial 2 (7-Wire)	0
1	Phase ON - 2	Sp Evnt Out 1	Flasher 1	Plan 1	OR-1	TOD Out 2	Dial 3 (7-Wire)	1
2	Phase ON - 3	Sp Evnt Out 2	Fast Flasher	Plan 2	OR-2	TOD Out 3	Offset 1 (7-Wire)	2
3	Phase ON - 4	Sp Evnt Out 3	Fig 3 Diamond	Plan 3	OR-3	TOD Out 4	Offset 2 (7-Wire)	3
4	Phase ON - 5	Sp Evnt Out 4	Fig 4 Diamond	Plan 4	AND-1	TOD Out 5	Offset 3 (7-Wire)	4
5	Phase ON - 6	Sp Evnt Out 5		Plan 5	AND-2	TOD Out 6	Free (7-Wire)	5
6	Phase ON - 7	Sp Evnt Out 6		Plan 6	AND-3	TOD Out 7	Flash (7-Wire)	6
7	Phase ON - 8	Sp Evnt Out 7		Plan 7	NOT-2	TOD Out 8	Preempt	7
8	Ph. Check - 1	Sp Evnt Out 8	NOT-3	Plan 8	EV-A	Adv. Warn - 1	Low Priority A	8
9	Ph. Check - 2		NOT-4	Plan 9	EV-B	Adv. Warn - 2	Low Priority B	9
A	Ph. Check - 3	Detector Fail	OR-4	Spec. Funct. 3	EV-C	DELAY-A	Low Priority C	A
B	Ph. Check - 4	Spec. Funct. 1	OR-5	Spec. Funct. 4	EV-D	DELAY-B	Low Priority D	B
C	Ph. Check - 5	Spec. Funct. 2	OR-6	NAND-3	RR-1	DELAY-C		C
D	Ph. Check - 6	Central Control	AND-4	NAND-4	RR-2	DELAY-D		D
E	Ph. Check - 7	Excl. Ped DW	NAND-1	OR-7	Spec. Event 1	DELAY-E		E
F	Ph. Check - 8	Excl. Ped WK	NAND-2	OR-8	Spec. Event 2	DELAY-F		F

Assignable Outputs <E/127+Column+Row>

INTERSECTION: Genesee Ave @ Mt Etna Dr

223 Program

Group Assignment:
Field Master Assignment:

N/S Street Name: **Genesee**
E/W Street Name: **Mt Etna**

Last Database Change:
System Ref. Number:

N

Row	Column # ⟶ / Phase # ⟶	Genesee 1	2	3	Mt Etna 4	5	Genesee 6	7	8
0	Ped Walk		7		7		7		
1	Ped FDW		11		28		11		
2	Min Green	4	10		4	4	10		
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	3.5		2.5	2.0	3.5		
6	Max Gap	2.0	3.5		2.5	2.0	3.5		
7	Min Gap	2.0	0.2		2.5	2.0	0.2		
8	Max Limit	30	60		40	30	60		
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1				0.1		
D	Every		0.9				0.9		
E	Yellow	3.4	3.9		3.9	3.4	3.9		
F	Red Clear	1.0	1.0		1.0	1.0	1.0		
	Grade								

Phase Timing - Bank 1
F + Phase + Row
<F Page>

Row	E
RR-1 Delay	
RR-1 Clear	
EV-A Delay	0
EV-A Clear	0
EV-B Delay	
EV-B Clear	
EV-C Delay	0
EV-C Clear	0
EV-D Delay	0
EV-D Clear	0
RR-2 Delay	
RR-2 Clear	
View EV Delay	---
View EV Clear	---
View RR Delay	---
View RR Clear	---

Preempt Timing
F + E + Row

Row	F
Permit	12_456__
Red Lock	
Yellow Lock	
Min Recall	_2___6__
Ped Recall	
Peds (View)	_2_4_6__
Rest In Walk	
Red Rest	
Dbl Entry	
Max Recall	
Soft Recall	
Max 2	
Cond Serv	
Ped Lock	12345678
Yellow Start	_2___6__
1st Phases	___4____

Phase Functions <F Page>
F + F + Row

Max Initial	0	F + 0 + E
Red Revert	5.0	F + 0 + F
All Red Start	0.0	F + C + O

Start / Revert Times

Drop Number	2	C + 0 + 0
Zone Number	2	C + 0 + 1
Area Number	5	C + 0 + 2
Area Address	72	C + 0 + 3
QuicNet Channel	Com38	(QuicNet)

Communication Addresses

C + F + O	F	Row
Free Lag	_2_4_6__	0

Lag Phases <C Page>

Overlap Timing

	Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A	A				
Overlap B	B				
Overlap C	C				
Overlap D	D				

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

FLG
4-12-12

Manual Plan	~~14~~ 0	C + A + 1
Manual Offset	0	C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

Downtime Flash	255	(minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	_234____

Disable Communication Ports
D + D + 9

Timing Sheet By: **FLG**
Approved By: **FLG**
Drawing Number: **34050-4-D**
Timing Implemented On: **6/11/2009**
10:35

INTERSECTION: Genesee Ave @ Mt Etna Dr

Row	Time	Function	Day of Week	Column F Phases/Bits
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	_2_____
6	Ped 6P	____6__
7	Ped 4P	___4___
8	Ped 8P	
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration

<E Page>

E + F + ROW

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	_2__5___
B	EV-B Phases	
C	EV-C Phases	1____6__
D	EV-D Phases	___4____
E	Extra 1 Config. Bits	1_345___
F	IC Select (Interconnect)	_2_____

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

Row	1 Delay	3 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	5
	2I3U	21
	2I3L	25
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Delay & Carryover <D Page>

D + X (across) + ROW

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	6
	6J3U	22
	6J3L	26
	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	19
---	---	---
---	---	---

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	5678
E	-- -- -- -- -- -- -- --	1234
F	-- 25 26 27 28 -- -- --	2345

Active Detectors <D Page>

Row		0 Detector #
0		
1	System Det. # 1	0
2	System Det. # 2	0
3	System Det. # 3	0
4	System Det. # 4	0
5	System Det. # 5	0
6	System Det. # 6	0
7	System Det. # 7	0
8	System Det. # 8	0

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number	0	F+C+1
Time Before Yellow	0.0	F+C+3

Advance Warning Beacon - Sign 1

Phase Number	0	F+D+1
Time Before Yellow	0.0	F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Genesee Ave @ Mt Etna Dr

223 Proc[illegible]n

Coordination Timing By: F[illegible]
Implemented On: 4/12/2012

Row	Plan Name →	Plan 1	2	3	4	5	6	7 AM	8	9 PM
0	Cycle Length							140	140	140
1	Phase 1 - ForceOff							85	96	121
2	Phase 2 - ForceOff							0	0	0
3	Phase 3 - ForceOff									
4	Phase 4 - ForceOff							49	55	80
5	Phase 5 - ForceOff							85	80	25
6	Phase 6 - ForceOff							0	0	0
7	Phase 7 - ForceOff									
8	Phase 8 - ForceOff									
9	Ring Offset									
A	Offset A							127	128	113
B	Offset B									
C	Offset C									
D	Permissive							14	14	14
E	Hold Release							255	255	255
F	Ped Shift							0	0	0

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

Row	Time	Plan	Offset	Day of Week
0	07:30	7	A	_23456_
1	10:00	E	A	1234567
2	14:00	9	A	_23456_
3	18:00	E	A	1234567
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination

<9 Key with C+0+9=1>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

	E	Row	F
		0	Free Lag
Plan 1		1	Plan 1 - Lag
Plan 2		2	Plan 2 - Lag
Plan 3		3	Plan 3 - Lag
Plan 4		4	Plan 4 - Lag
Plan 5		5	Plan 5 - Lag
Plan 6		6	Plan 6 - Lag
Plan 7	_2__6__	7	Plan 7 - Lag _2_4_6__
Plan 8	_2__6__	8	Plan 8 - Lag _2_4_6__
Plan 9	_2__6__	9	Plan 9 - Lag _2_45___
Coord Ped*		A	Coord Max *
NEMA Hold		B	Coord Lag *
		C	
		D	
		E	
		F	

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

Transition Type		0

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

INTERSECTION: Balboa Ave & Clairemont Dr

Group Assignment:
Field Master Assignment:
System Reference Number:

N/S Street Name: **Clairemont Dr**
E/W Street Name: **Balboa Ave**

Last Database Change:
Drawing Number: 36692-2-D

Change Record					
Change	By	Date	Change	By	Date
Original TS	KT	3/23/2015			

Notes: *1) "No U-Turn" sign connected to Phase 6 Ped Yellow (Pin 36)*
2) TOD Function activates Overlap & "NO U-TURN" Blankout sign

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

implemented on 6/12/2015

Drop Number	13	<C/0+0+0>
Zone Number	13	<C/0+0+1>
Area Number	5	<C/0+0+2>
Area Address	96	<C/0+0+3>
QuicNet Channel	COM41:	(QuicNet)

Communication Addresses

Manual Plan	14	<C/0+A+1>
Manual Offset	0	<C/0+B+1>

Manual Selection

Flash Start	0	<F/1+0+E>
Red Revert	5.0	<F/1+0+F>
All Red Start	0.0	<F/1+C+0>
FYA Red Revert	0.0	<F/1+0+5>
OVLP CHG Red	0.0	<F/1+0+3>

Start / Revert Times

Exclusive Walk	0	<F/1+0+0>
Exclusive FDW	0	<F/1+0+1>
All Red Clear	0.0	<F/1+0+2>

Exclusive Ped Phase
(Outputs specified in Assignable Outputs at E/127+A+E & F)

		Balboa	Clairemont	Balboa	Clairemont				
		Phase							
	Column Numbers ---->	1	2	3	4	5	6	7	8
Row	Phase Names ---->								
0	Ped Walk		7		7		7		7
1	Ped FDW		22		22		21		26
2	Min Green	4	10	4	7	4	10	4	7
3	Type 3 Disconnect								
4	Added per Vehicle								
5	Veh Extension	2.0	3.5	2.0	2.6	2.0	3.0	2.0	2.4
6	Max Gap	2.0	3.5	2.0	2.6	2.0	3.0	2.0	2.4
7	Min Gap	2.0	0.2	2.0	0.2	2.0	0.2	2.0	0.2
8	Max Limit	30	60	30	40	30	60	30	40
9	Max Limit 2								
A	Adv. / Delay Walk								
B	PE Min Ped FDW		1		1		1		1
C	Cond Serv Check								
D	Reduce Every		0.9		1.3		1.1		1.4
E	Yellow Change	3.4	4.7	3.4	4.3	3.4	5.4	3.4	4.3
F	Red Clear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Phase Timing - Bank 1 <C+0+F=1>

	9	A	B	C	D
	---	---	---	---	---
Phase 1					
Phase 2					
Phase 3					
Phase 4					
Phase 5					
Phase 6					
Phase 7					
Phase 8					
Max Initial					
Alternate Walk					
Alternate FDW					
Alternate Initial					
Alternate Extension					

Alternate Timing <C+0+F=1>

	E
RR-1 Delay	
RR-1 Clear	
EV-A Delay	0
EV-A Clear	0
EV-B Delay	0
EV-B Clear	0
EV-C Delay	0
EV-C Clear	0
EV-D Delay	0
EV-D Clear	0
RR-2 Delay	
RR-2 Clear	
View EV Delay	---
View EV Clear	---
View RR Delay	---
View RR Clear	---

Preempt Timing

	F	Row
Permit	12345678	0
Red Lock		1
Yellow Lock		2
Min Recall		3
Ped Recall		4
View Set Peds	2 4 6 8	5
Rest In Walk		6
Red Rest		7
Dual Entry		8
Max Recall		9
Soft Recall	2 6	A
Max 2		B
Cond. Service		C
Man Cntrl Calls		D
Yellow Start	2 6	E
First Phases	4 8	F

Phase Functions <C+0+F=1>

Row	Column Numbers ----> / Overlap Name ---->	Overlap 1	2	3	4	5	6	7	8
0	Load Switch Number								
1	Veh Set 1 - Phases								
2	Veh Set 2 - Phases	1 8							
3	Veh Set 3 - Phases								
4	Neg Veh Phases	2 78							
5	Neg Ped Phases	2 8							
6	Green Omit Phases	8							
7	Green Clear Omit Phs.								
8	Overlap Recall								
9	Queue Jump Phase								
A	Queue Jump Time								
B	Minimum Green								
C	Maximum Green								
D	Green Clear								
E	Yellow Change	3.4							
F	Red Clear	1.0							

Overlap Assignments <C+0+E=29>

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = Solid FDW on EV
5 = Extended Status
6 = International Ped
7 = Flash - Clear Outputs
8 = Spiit Ring

Extra 2 Flags
1 = AWB During Initial
2 = Reserved
3 = Disable Min Walk
4 = QuicNet System
5 = Ignore P/P on EV
6 = Manual Hold in FDW
7 = Allow QuicNet PE
8 = Flash Grn B4 Yellow

Row		C
0	EV-A	0
1	EV-B	0
2	EV-C	0
3	EV-D	0
4	RR-1 *	- - -
5	RR-2 *	- - -
6	SE-1	0
7	SE-2	0

Preempt Priority <C+0+E=125>
(* RR-1 is always Highest, and RR-2 is always Second Highest)

Row	Column Numbers ---->	E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Flash to PE Circuits	
6	Flash Entry Phases	
7	Disable Yellow Range	
8	Disable Ovp Yel Range	
9	Overlap Yellow Flash	
A	EV-A Phases	2 5
B	EV-B Phases	4 7
C	EV-C Phases	1 6
D	EV-D Phases	3 8
E	Extra 1 Config. Bits	1 34
F	IC Select (Interconnect)	2

Configuration <C+0+E=125>

	F
Ext. Permit 1 Phases	
Ext. Permit 2 Phases	
Exclusive Ped Assign	
Preempt Non-Lock	12345678
Ped for 2P Output	2
Ped for 6P Output	6
Ped for 4P Output	4
Ped for 8P Output	8
Yellow Flash Phases	
Low Priority A Phases	
Low Priority B Phases	
Low Priority C Phases	
Low Priority D Phases	
Restricted Phases	
Extra 2 Config. Bits	3

Configuration <C+0+E=125>

	F
Fast Green Flash Phase	
Green Flash Phases	
Flashing Walk Phases	
Guaranteed Passage	
Simultaneous Gap Term	12345678
Sequential Timing	
Advance Walk Phases	
Delay Walk Phases	
External Recall	
Start-up Overlap Green	
Max Extension	
Inhibit Ped Reservice	
Semi-Actuated	
Start-up Overlap Yellow	
Start-up Vehicle Calls	12345678
Start-up Ped Calls	12345678

Specials <C+0+F=2>

Flash to PE & PE Non-Lock
1 = EV A 5 = RR 1
2 = EV B 6 = RR 2
3 = EV C 7 = SE 1
4 = EV D 8 = SE 2

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 =
5 =
6 = Simplex Master
7 =
8 = Offset Interrupter

	2
Phase 1	10
Phase 2	10
Phase 3	10
Phase 4	10
Phase 5	10
Phase 6	10
Phase 7	10
Phase 8	10

Coordination Transition Minimums <C+0+C=5>

INTERSECTION: Balboa Ave & Clairemont Dr

Coord Extra
1 = Programmed WALK Time for Sync Phases
2 = Always Terminate Sync Phase Peds

Row	Column Numbers ---> / Plan Name --->	Plan 1	2	3	4	5	6	7	8	9	Row
0	Cycle Length										0
1	Phase 1 - ForceOff										1
2	Phase 2 - ForceOff										2
3	Phase 3 - ForceOff										3
4	Phase 4 - ForceOff										4
5	Phase 5 - ForceOff										5
6	Phase 6 - ForceOff										6
7	Phase 7 - ForceOff										7
8	Phase 8 - ForceOff										8
9	Ring Offset										9
A	Offset 1										A
B	Offset 2										B
C	Offset 3										C
D	Perm 1 - End										D
E	Hold Release										E
F	Reserved										F

Coordination - Bank 1 <C+0+C=1>

Row		E	Row
			0
	Plan 1 - Sync		1
	Plan 2 - Sync		2
	Plan 3 - Sync		3
	Plan 4 - Sync		4
	Plan 5 - Sync		5
	Plan 6 - Sync		6
	Plan 7 - Sync		7
	Plan 8 - Sync		8
	Plan 9 - Sync		9
	NEMA Sync		A
	NEMA Hold		B
			C
			D
	Coord Extra		E
			F

Sync Phases <C+0+C=1>

Row		Row
0	Ped Adjustment	0
1	Perm 2 - Start	1
2	Perm 2 - End	2
3	Perm 3 - Start	3
4	Perm 3 - End	4
5	Reservice Time	5
6	Reservice Phases	6
7		7
8	Pretimed Phases	8
9	Max Recall	9
A	Perm 1 Veh Phase	A
B	Perm 1 Ped Phase	B
C	Perm 2 Veh Phase	C
D	Perm 2 Ped Phase	D
E	Perm 3 Veh Phase	E
F	Perm 3 Ped Phase	F

Coordination - Bank 2 <C+0+C=2>

Row		F	Row
	Free Lag	2 45 8	0
	Plan 1 - Lag		1
	Plan 2 - Lag		2
	Plan 3 - Lag		3
	Plan 4 - Lag		4
	Plan 5 - Lag		5
	Plan 6 - Lag		6
	Plan 7 - Lag		7
	Plan 8 - Lag		8
	Plan 9 - Lag		9
	External Lag		A
	Lag Hold		B
			C
			D
			E
			F

Lag Phases <C+0+C=1>

Row	Column 8		Column 9		Column A		Column B		Column C		Column D		Column E		Column F		Row
0	One-Shot Timer		Latch 1 Set		NOT-3		Max 2		Pretimed		Set Monday		Dial 2 (7-Wire)		Sim Term	0	0
1	AND-5 (a)		Latch 1 Reset		NOT-4		Reserved		Plan 1		Ext. Perm 1		Dial 3 (7-Wire)		EV-A	71	1
2	AND-5 (b)		Latch 2 Set		OR-4 (a)		Reserved		Plan 2		Ext. Perm 2		Offset 1 (7-Wire)		EV-B	72	2
3	AND-6 (a)		Latch 2 Reset		OR-4 (b)		Reserved		Plan 3		Gate Down		Offset 2 (7-Wire)		EV-C	73	3
4	AND-6 (b)		NAND-3 (a)		OR-5 (a)		Reserved		Plan 4		Set Clock		Offset 3 (7-Wire)		EV-D	74	4
5	Reserved		NAND-3 (b)		OR-5 (b)		Reserved		Plan 5		Stop Time	82	Free (7-Wire)		RR-1	51	5
6	Reserved		NAND-4 (a)		OR-6 (a)		Reserved		Plan 6		Flash Sense	81	Flash (7-Wire)		RR-2	52	6
7	Reserved		NAND-4 (b)		OR-6 (b)		Reserved		Plan 7		Manual Enable		Excl. Ped Omit		Spec. Event 1		7
8	Spec. Funct. 1		OR-7 (a)		EXTMR		Reserved		Plan 8		Man. Advance		NOT-1		Spec. Event 2		8
9	Spec. Funct. 2		OR-7 (b)		Reserved		Max Inhibit (nema)		Plan 9		External Alarm		NOT-2		External Lag		9
A	Spec. Funct. 3		OR-7 (c)		AND-4 (a)		Force A (nema)		DELAY-A		Phase Bank 2		OR-1 (a)	201	AND-1 (a)		A
B	Spec. Funct. 4		OR-7 (d)		AND-4 (b)		Force B (nema)		DELAY-B		Phase Bank 3		OR-1 (b)	35	AND-1 (b)		B
C	Reserved		OR-8 (a)		NAND-1 (a)		C.N.A. (nema)		DELAY-C		Overlap Set 2	201	OR-2 (a)		AND-2 (a)		C
D	Reserved		OR-8 (b)		NAND-1 (b)		Hold (nema)		DELAY-D		Overlap Set 3		OR-2 (b)		AND-2 (b)		D
E	Reserved		OR-8 (c)		NAND-2 (a)		Max Recall		DELAY-E		Detector Set 2		OR-3 (a)		AND-3 (a)		E
F	Reserved		OR-8 (d)		NAND-2 (b)		Min Recall		DELAY-F		Detector Set 3		OR-3 (b)		AND-3 (b)		F

Assignable Inputs <C+0+E=126>

Row	Column 8		Column 9		Column A		Column B		Column C		Column D		Column E		Column F		Row
0	Reserved		Phase ON - 1		Preempt Fail		Flasher 0		Free		NOT-1		TOD Out 1	201	Dial 2 (7-Wire)		0
1	Reserved		Phase ON - 2		Sp Evnt Out 1		Flasher 1		Plan 1		OR-1	36	TOD Out 2		Dial 3 (7-Wire)		1
2	Reserved		Phase ON - 3		Sp Evnt Out 2		Fast Flasher		Plan 2		OR-2		TOD Out 3		Offset 1 (7-Wire)		2
3	Reserved		Phase ON - 4		Sp Evnt Out 3		EXTMR		Plan 3		OR-3		TOD Out 4		Offset 2 (7-Wire)		3
4	Reserved		Phase ON - 5		Sp Evnt Out 4		One-Shot Timer		Plan 4		AND-1		TOD Out 5		Offset 3 (7-Wire)		4
5	Reserved		Phase ON - 6		Sp Evnt Out 5		Reserved		Plan 5		AND-2		TOD Out 6		Free (7-Wire)		5
6	Reserved		Phase ON - 7		Sp Evnt Out 6		Latch 1		Plan 6		AND-3		TOD Out 7		Flash (7-Wire)		6
7	Reserved		Phase ON - 8		Sp Evnt Out 7		Latch 2		Plan 7		NOT-2		TOD Out 8		Preempt		7
8	Flh Yell Arrow 1		Ph. Check - 1		Sp Evnt Out 8		NOT-3		Plan 8		EV-A		Adv. Warn - 1		Low Priority A		8
9	Green 1		Ph. Check - 2		Coord On		NOT-4		Plan 9		EV-B		Adv. Warn - 2		Low Priority B		9
A	Flh Yell Arrow 3		Ph. Check - 3		Detector Fail		OR-4		Spec. Funct. 3		EV-C		DELAY-A		Low Priority C		A
B	Green 3		Ph. Check - 4		Spec. Funct. 1		OR-5		Spec. Funct. 4		EV-D		DELAY-B		Low Priority D		B
C	Flh Yell Arrow 5		Ph. Check - 5		Spec. Funct. 2		OR-6		NAND-3		RR-1		DELAY-C		AND-5		C
D	Green 5		Ph. Check - 6		Central Control		AND-4		NAND-4		RR-2		DELAY-D		AND-6		D
E	Flh Yell Arrow 7		Ph. Check - 7		Excl. Ped DW		NAND-1		OR-7		Spec. Event 1		DELAY-E		Reserved		E
F	Green 7		Ph. Check - 8		Excl. Ped WK		NAND-2		OR-8		Spec. Event 2		DELAY-F		Reserved		F

Assignable Outputs <C+0+E=127>

Row	Column Numbers ----> / Phase Names ---->	Phase 1	2	3	4	5	6	7	8
0	Ped Walk								
1	Ped FDW								
2	Min Green								
3	Type 3 Disconnect								
4	Added per Vehicle								
5	Veh Extension								
6	Max Gap								
7	Min Gap								
8	Max Limit								
9	Max Limit 2								
A	Adv. / Delay Walk								
B	PE Min Ped FDW								
C	Cond Serv Check								
D	Reduce Every								
E	Yellow Change								
F	Red Clear								

Phase Timing - Bank 2 <C+0+F=2>

	9	A	B	C	D
	---	---	---	---	---
Phase 1					
Phase 2					
Phase 3					
Phase 4					
Phase 5					
Phase 6					
Phase 7					
Phase 8					

Max Initial
Alternate Walk
Alternate FDW
Alternate Initial
Alternate Extension

Alternate Timing

Transition Type
0.X = Shortway
1.X = Lengthen
X.1 thru X.4 = Number of cycles when lengthing

Transition Type	0.3	<C/5+1+9>

TBC Transition

Hawk Select	0	F/1+0+4>

Hawk Select 200 = Mid-Block, 201 = Hawk

Address	0	<C/1+0+6>
Select Parity	0	<C/1+0+5>

AB3418 Comm 2 0 = No Parity, 1 = Even

Daylight Savings Date
If set to all zeros, standard dates will be used.

Begin Month	3	<C/5+2+A>
Begin Week	2	<C/5+2+B>
End Month	11	<C/5+2+C>
End Week	1	<C/5+2+D>

Daylight Savings Time

Time B4 Yellow	0.0	<F/1+C+E>
Phase Number	0	<F/1+C+F>

Advance Warning Beacon - Sign 1

Time B4 Yellow	0.0	
Phase Number	0	<F/1+D+F>

Advance Warning Beacon - Sign 2

Offset Time	0	<C/5+2+E>
Max Cycle Time	20	<C/5+2+F>

Yellow Yield Coordination

	12345678	
Omit Alarm	#NAME?	

Local Alarm Disable <C/5+F+0>

IEN Status	1	<C/5+1+B>
Synch Time	0.0	<C/5+1+C>

Other Parameters

Row		1	2	3	4	5	6	7	8
0	Ped Walk								
1	Ped FDW								
2	Min Green								
3	Type 3 Disconnect								
4	Added per Vehicle								
5	Veh Extension								
6	Max Gap								
7	Min Gap								
8	Max Limit								
9	Max Limit 2								
A	Adv. / Delay Walk								
B	PE Min Ped FDW								
C	Cond Serv Check								
D	Reduce Every								
E	Yellow Change								
F	Red Clear								

Phase Timing - Bank 3 <C+0+F=3>

	9	A	B	C	D
	---	---	---	---	---
Phase 1					
Phase 2					
Phase 3					
Phase 4					
Phase 5					
Phase 6					
Phase 7					
Phase 8					

Max Initial
Alternate Walk
Alternate FDW
Alternate Initial
Alternate Extension

Alternate Timing

Column Numbers --->	0	1	2	3	1	3
Row	Detector Name	C1 Pin Number	Attributes	Phase(s)	Assign	Delay	Carry-over
0		2I2U	39	45_7_	2	123		1.8
1		6J2U	40	45_7_	6	123		1.8
2		4I6U	41	45_7_	4	123		1.8
3		8J6U	42	45_7_	8	123		1.8
4		2I2L	43	45_7_	2	123		1.8
5			44	45_7_	6	123		
6		4I6L	45	45_7_	4	123		1.8
7		8J6L	46	45_7_	8	123		1.8
8			47	67_	2	123		
9			48	67_	6	123		
A			49	67_	4	123		
B			50	67_	8	123		
C			55	45_7_	5	123		
D			56	45_7_	1	123		
E			57	45_7_	7	123		
F			58	45_7_	3	123		

	4	5	6	7	2	4
Row	Detector Name	C1 Pin Number	Attributes	Phase(s)	Assign	Delay	Carry-over
0			59	45_7_	5	123		
1			60	45_7_	1	123		
2			61	45_7_	7	123		
3			62	45_7_	3	123		
4			63	45_7_	2	123		
5			64	45_7_	6	123		
6		4I7U	65	45_7_	4	123	10.0	
7			66	45_7_	8	123		
8			67	2	2	123		
9			68	2	6	123		
A			69	2	4	123		
B			70	2	8	123		
C			76	45_7_	2	123		
D			77	45_7_	6	123		
E			78	45_7_	4	123		
F			79	45_7_	8	123		

Detector Assignments <C+0+E=126> <C+0+D=0>

Detector Attributes
1 = Full Time Delay
2 = Ped Call
3 = Overlap
4 = Count
5 = Extension
6 = Type 3
7 = Calling
8 = Alternate

Det. Assignments
1 = Det. Set 1
2 = Det. Set 2
3 = Det. Set 3
4 =
5 =
6 = Failure - Min Recall
7 = Failure - Max Recall
8 = Report on Failure

Column Numbers --->	Ped / Phase / Overlap 1	2	3	4	5	6	7	8	Row
Walk									0
Don't Walk									1
Phase Green									2
Phase Yellow									3
Phase Red									4
Overlap Green	35								5
Overlap Yellow	37								6
Overlap Red									7

Redirect Phase Outputs <C+0+E=127>

Cabinet Type	30 <E/125+D+0>

Enable Redirection
(Enable Redirection = 30)

Max OFF (minutes)	20 <D/0+0+1>
Max ON (minutes)	7 <D/0+0+2>
Chatter Fail Time	0 <D/0+0+4>

Detector Failure Monitor

	B	Row
One-Shot	0	8
Ext. Timer	0	9
DELAY-A	0	A
DELAY-B	0	B
DELAY-C	0	C
DELAY-D	0	D
DELAY-E	0	E
DELAY-F	0	F

Delay Logic Times
<C+0+D=0> (seconds)

Row	Time	Plan	Offset	Day of Week
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination <C+0+9=0.1>
(Bank 1)

Time	Funct.	Day of Week	Column 4 Phases/Bits
15 : 00	D	23456	1 4 6 8
19 : 00	D	23456	2 45 8
07 : 00	F	23456	1
09 : 00	F	23456	
13 : 00	F	23456	1
18 : 00	F	23456	

TOD Function <C+0+7=0.1> <C+0+E=27>

Day	Year	Month	Holiday Type

Row	6 Clear	7 Time	8 Ped Call	9 Hold	A Advance	B Force Off	C Vehicle Call	D Permit Phases	E Ped Omit	F Output
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
A										
B										
C										
D										
E										
F										

Special Event Schedule -- Table 1 <C+0+E=27>

Notes:

[ ] <E/27+5+F>
Limited Service Interval

Row	6 Clear	7 Time	8 Ped Call	9 Hold	A Advance	B Force Off	C Vehicle Call	D Permit Phases	E Ped Omit	F Output
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
A										
B										
C										
D										
E										
F										

Special Event Schedule -- Table 2 <C+0+E=28>

Notes:

[ ] <E/28+5+F>
Limited Service Interval

INTERSECTION: Balboa Ave & Mt Everest Bl

223 Program

Group Assignment:
Field Master Assignment:
N/S Street Name: **Mt Everest**
E/W Street Name: **Balboa Ave**
Last Database Change:
System Ref. Number:

		Phase 1	2	3	4	5	6	7	8
	Column # ---->		Balboa	Mt Everest	Mt Everest		Balboa		
Row	Phase # ---->	1	2	3	4	5	6	7	8
0	Ped Walk		7	7	7		7		
1	Ped FDW		11	20	20		10		
2	Min Green	4	10	7	7	4	10		
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	4.5	2.0	2.0	2.0	3.1		
6	Max Gap	2.0	4.5	2.0	2.0	2.0	3.1		
7	Min Gap	2.0	0.2	2.0	2.0	2.0	0.2		
8	Max Limit	30	60	40	40	30	60		
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1				0.1		
D	Every		0.7				1.0		
E	Yellow	3.4	4.3	3.9	3.9	3.4	5.2		
F	Red Clear	1.0	1.0	1.0	1.0	1.0	1.0		
	Grade								

Phase Timing - Bank 1
F + Phase + Row
<F Page>

Row	E
RR-1 Delay	
RR-1 Clear	
EV-A Delay	0
EV-A Clear	0
EV-B Delay	
EV-B Clear	
EV-C Delay	0
EV-C Clear	0
EV-D Delay	
EV-D Clear	
RR-2 Delay	
RR-2 Clear	
View EV Delay	---
View EV Clear	---
View RR Delay	---
View RR Clear	---

Preempt Timing
F + E + Row

Row	F
Permit	123456__
Red Lock	
Yellow Lock	
Min Recall	
Ped Recall	
Peds (View)	_234_6__
Rest In Walk	
Red Rest	
Dbl Entry	
Max Recall	
Soft Recall	_2___6__
Max 2	
Cond Serv	
Ped Lock	12345678
Yellow Start	_2___6__
1st Phases	__3_____

Phase Functions <F Page>
F + F + Row

Max Initial	0 (F + 0 + E)
Red Revert	5.0 (F + 0 + F)
All Red Start	0.0 (F + C + O)

Start / Revert Times

Drop Number	12	C + 0 + 0
Zone Number	12	C + 0 + 1
Area Number	5	C + 0 + 2
Area Address	95	C + 0 + 3
QuicNet Channel	COM 41	(QuicNet)

Communication Addresses

C + F + O	F	Row
Free Lag	_2_4_6__	0

Lag Phases <C Page>

Overlap Timing

Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A	A			
Overlap B	B			
Overlap C	C			
Overlap D	D			

<F Page>
F + COLOR +
<D Page>
D + 0 + OVERLAP

Downtime Flash	255	(minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	_234____

Disable Communication Ports
D + D + 9

Manual Plan	0	C + A + 1
Manual Offset	0	C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Autorratic
1 = Offset A
2 = Offset B
3 = Offset C

Timing Sheet By: FLG
Approved By: FLG
Drawing Number:
Timing Implemented On: 4-26-10

INTERSECTION: Balboa Ave & Mt Everest Bl

223 Program

Coordination Timing By: K&HA
Implemented On: 2/10/2010

Row	Plan Name ---->	Plan 1	2	3	4	5	6	7 AM	8	9 PM
0	Cycle Length							140		140
1	Phase 1 - ForceOff							87		93
2	Phase 2 - ForceOff							0		15
3	Phase 3 - ForceOff							40		45
4	Phase 4 - ForceOff							73		75
5	Phase 5 - ForceOff							87		15
6	Phase 6 - ForceOff							0		0
7	Phase 7 - ForceOff									
8	Phase 8 - ForceOff									
9	Ring Offset							35		111
A	Offset A									
B	Offset B									
C	Offset C							14		15
D	Permissive							255		255
E	Hod Release							0		3 Ø
F	Ped Shift									

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

FLG 7-26-10

Row	Time	Plan	Offset	Day of Week
0	07 : 00	7	A	23456
1	10 : 00	7	A	23456
2	13 : 00	9	A	23456
3	19 : 30	E	A	23456
4	08 : 00	7	A	7
5	09 00	7	A	
6	19 00	E	A	7
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination

<9 Key with C+C+9=1>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

	E	Row		F
		0	Free Lag	2 4 6
Plan 1		1	Plan 1 - Lag	
Plan 2		2	Plan 2 - Lag	
Plan 3		3	Plan 3 - Lag	
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6		6	Plan 6 - Lag	
Plan 7	2 6	7	Plan 7 - Lag	2 4 6
Plan 8		8	Plan 8 - Lag	
Plan 9	6	9	Plan 9 - Lag	2 45
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

Transition Type	0

TBC Transiton
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

INTERSECTION: Balboa Ave & Mt Everest Bl

Row	Time	Function	Day of Week	Column F Phases/Bits
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	2
6	Ped 6P	6
7	Ped 4P	4
8	Ped 8P	3
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration <E Page>

E + F + ROW

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	2 5
B	EV-B Phases	
C	EV-C Phases	1 6
D	EV-D Phases	
E	Extra 1 Config. Bits	1 345
F	IC Select (Interconnect)	2

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications

(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

Row	1 Delay	3 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	5
	2I3U	21
	2I3L	25
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	6
	6J3U	22
	6J3L	26
	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	19
---	---	---
---	---	---

Detector Delay & Carryover <D Page>

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234____
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	____5678
E	-- -- -- -- -- -- -- --	1234____
F	-- 25 26 27 28 -- -- --	_2345___

Active Detectors <D Page>

Row		0 Detector #
0		
1	System Det. # 1	
2	System Det. # 2	
3	System Det. # 3	
4	System Det. # 4	
5	System Det. # 5	
6	System Det. # 6	
7	System Det. # 7	
8	System Det. # 8	

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number		F+C+1
Time Before Yellow		F+C+3

Advance Warning Beacon - Sign 1

Phase Number		F+D+1
Time Before Yellow		F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Balboa Ave & Genesee Ave

223 Program

Group Assignment:
Field Master Assignment:

N/S Street Name: **Genesee Ave**
E/W Street Name: **Balboa Ave**

Last Database Change:
System Ref. Number:

Row	Phase # ⟶	1	2	3	4	5	6	7	8
	Column # ⟶	Balboa			Genesee		Balboa		Genesee
0	Ped Walk		7		7		7		7
1	Ped FDW		23		26		27		26
2	Min Green	4	10	4	7	4	10	4	7
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	3.3	2.0	4.5	2.0	2.9	2.0	4.6
6	Max Gap	2.0	3.3	2.0	4.5	2.0	2.9	2.0	4.6
7	Min Gap	2.0	0.2	2.0	0.2	2.0	0.2	2.0	0.2
8	Max Limit	30	60	30	40	30	60	30	40
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1		0.1		0.1		0.1
D	Every		1.0		0.7		1.1		0.7
E	Yellow	3.4	4.3	3.4	3.9	3.4	4.4	3.4	3.9
F	Red Clear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Grade								

Phase Timing - Bank 1
F + Phase + Row <F Page>

Row	E
RR-1 Delay	
RR-1 Clear	
EV-A Delay	0
EV-A Clear	0
EV-B Delay	0
EV-B Clear	0
EV-C Delay	0
EV-C Clear	0
EV-D Delay	0
EV-D Clear	0
RR-2 Delay	
RR-2 Clear	
View EV Delay	---
View EV Clear	---
View RR Delay	---
View RR Clear	---

Preempt Timing
F + E + Row

Row	F	
Permit	12345678	0
Red Lock		1
Yellow Lock		2
Min Recall		3
Ped Recall		4
Peds (View)	_2_4_6_8	5
Rest In Walk		6
Red Rest		7
Dbl Entry		8
Max Recall		9
Soft Recall	_2___6__	A
Max 2		B
Cond Serv		C
Ped Lock	12345678	D
Yellow Start	_2___6__	E
1st Phases	__3___7_	F

Phase Functions <F Page>
F + F + Row

Max Initial	0
Red Revert	5.0
All Red Start	0.0

F + 0 + E
F + 0 + F
F + C + O

Start / Revert Times

Drop Number	3
Zone Number	3
Area Number	5
Area Address	73
QuicNet Channel	Digi 43

C + 0 + 0
C + 0 + 1
C + 0 + 2
C + 0 + 3
(QuicNet)

Communication Addresses

C + F + O	F	Row
Free Lag	_2_4_6_8	0

Lag Phases <C Page>

Overlap Timing

Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A				
Overlap B				
Overlap C				
Overlap D				

<F Page>
F + COLOR +

<D Page>
D + 0 + OVERLAP

Manual Plan	0
Manual Offset	0

C + A + 1
C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

Downtime Flash	255	(minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	_234____

Disable Communication Ports
D + D + 9

Timing Sheet By: FLG
Approved By: FLG
Drawing Number: 34558-26-D
Timing Implemented On: 4-26-10

INTERSECTION: Balboa Ave & Genesee Ave

Row	Time	Function	Day of Week	Column F Phases/Bits
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	2
6	Ped 6P	6
7	Ped 4P	4
8	Ped 8P	8
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration <E Page>

E + F + ROW

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	2 5
B	EV-B Phases	4 7
C	EV-C Phases	1 6
D	EV-D Phases	3 8
E	Extra 1 Config. Bits	1 345
F	IC Select (Interconnect)	2

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

Row	1 Delay	3 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		1.8
8		
9		
A	10.0	
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	5
	2I2U	1
	2I2L	2
	2I3U	3
	2I3L	12
	2I4	4
	3I5	30
	4I6U	7
	4I6L	8
	4I7U	9
	4I7L	33
	4I8	10
	1I9U	18
	3I9L	32
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		1.8
3		1.8
4		2.0
5		
6		
7		1.8
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	5J1	6
	6J2U	15
	6J2L	16
	6J3U	17
bike lane	6J3L	18
	6J4	19
	7J5	11
	8J6U	23
	8J6L	24
	8J7U	25
	8J7L	27
	8J8	28
	5J9U	17
	7J9L	13
---	---	---
---	---	---

Detector Delay & Carryover <D Page>

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234____
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	____5678
E	-- -- -- -- -- -- -- --	1234____
F	-- 25 26 27 28 -- -- --	_2345___

Active Detectors <D Page>

Row		0 Detector #
0		
1	System Det. # 1	
2	System Det. # 2	
3	System Det. # 3	
4	System Det. # 4	
5	System Det. # 5	
6	System Det. # 6	
7	System Det. # 7	
8	System Det. # 8	

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number		F+C+1
Time Before Yellow		F+C+3

Advance Warning Beacon - Sign 1

Phase Number		F+D+1
Time Before Yellow		F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Balboa Ave & Genesee Ave

223 Program

Coordination Timing By: K&HA
Implemented On: 2/10/2010

Row	Plan Name --->	Plan 1	2	3	4	5	6	7 AM	8	9 PM
0	Cycle Length							140		140
1	Phase 1 - ForceOff							111		19
2	Phase 2 - ForceOff							0		0
3	Phase 3 - ForceOff							55		46
4	Phase 4 - ForceOff							91		85
5	Phase 5 - ForceOff							32		118
6	Phase 6 - ForceOff							0		19
7	Phase 7 - ForceOff							52		49
8	Phase 8 - ForceOff							91		85
9	Ring Offset									
A	Offset A							29		37 27
B	Offset B									
C	Offset C									
D	Permissive							14		19
E	Hold Release							255		130
F	Ped Shift							0		0

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

FLG 7-26-10

Row	Time	Plan	Offset	Day of Week
0	07 : 00	7	A	_23456_
1	13 ~~10~~ : 00	9 E	A	_23456_
2	~~14 : 00~~	~~9~~	~~A~~	~~23456~~
3	19 ~~00~~ : 30	E	A	23456
4	08 : 00	7	A	——7
5	09 00	7	A	1 ——
6	19 00	E	A	1 ——7
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination

<9 Key with C+0+9=1>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

	E	Row		F
		0	Free Lag	_2_4~~5~~6_8
Plan 1		1	Plan 1 - Lag	
Plan 2		2	Plan 2 - Lag	
Plan 3		3	Plan 3 - Lag	
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6		6	Plan 6 - Lag	
Plan 7	_2__6__	7	Plan 7 - Lag	_2_45__8
Plan 8		8	Plan 8 - Lag	
Plan 9	_2__6__	9	Plan 9 - Lag	1__4_6_8
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

Transition Type	0

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

INTERSECTION: Balboa Ave & Shopping Center Drwy

223 Program

Group Assignment:
Field Master Assignment:
N/S Street Name: **Shopping Center Drwy**
E/W Street Name: **Balboa Ave**
Last Database Change:
System Ref. Number:

N

Row	Column # --->	1	2	3	4	5	6	7	8
	Phase # --->	1	2	3	4	5	6	7	8
		Balboa			Drwy		Balboa		Drwy
				PPLT				PPLT	
0	Ped Walk		7		7		7		7
1	Ped FDW		①17 ~~14~~		①30 ~~26~~		①17 ~~15~~		①31 ~~26~~
2	Min Green	4	10	4	4	4	10	4	4
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	5.1	2.0	2.0	2.0	3.8	2.0	2.0
6	Max Gap	2.0	5.1	2.0	2.0	2.0	3.8	2.0	2.0
7	Min Gap	2.0	0.2	2.0	2.0	2.0	0.2	2.0	2.0
8	Max Limit	25 ~~30~~	60	10	30	25 ~~30~~	60	10	30
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1				0.1		
D	Every		0.6				0.8		
E	Yellow	3.4	4.3	3.4	3.9	3.4	4.4	3.4	3.9
F	Red Clear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Grade								

Phase Timing - Bank 1
F + Phase + Row
<F Page>

* Using 3.5 fps for FDW.

Row	E	
	RR-1 Delay	
	RR-1 Clear	
	EV-A Delay	0
	EV-A Clear	0
	EV-B Delay	0
	EV-B Clear	0
	EV-C Delay	0
	EV-C Clear	0
	EV-D Delay	0
	EV-D Clear	0
	RR-2 Delay	
	RR-2 Clear	
	View EV Delay	---
	View EV Clear	---
	View RR Delay	---
	View RR Clear	---

Preempt Timing
F + E + Row

Row	F	
	Permit	12345678
	Red Lock	
	Yellow Lock	
	Min Recall	_2___6__
	Ped Recall	
	Peds (View)	_2_4_6_8
	Rest In Walk	
	Red Rest	
	Dbl Entry	
	Max Recall	
	Soft Recall	
	Max 2	
	Cond Serv	
	Ped Lock	12345678
	Yellow Start	_2___6__
	1st Phases	__3___7_

Phase Functions <F Page>
F + F + Row

Max Initial	0
Red Revert	5.0
All Red Start	0.0

F + 0 + E
F + 0 + F
F + C + O

Start / Revert Times

Drop Number	15
Zone Number	15
Area Number	5
Area Address	115
QuicNet Channel	COM 41

C + 0 + 0
C + 0 + 1
C + 0 + 2
C + 0 + 3
(QuicNet)

Communication Addresses

C + F + O	F	Row
Free Lag	_2_4_6_8	0

Lag Phases <C Page>

Overlap Timing

	Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A	A				
Overlap B	B				
Overlap C	C				
Overlap D	D				

<F Page>
F + COLOR +
<D Page>
D + 0 + OVERLAP

Manual Plan	0
Manual Offset	0

C + A + 1
C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

Downtime Flash	255	(minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	_234___

Disable Communication Ports
D + D + 9

Timing Sheet By: FLG
Approved By: FLG
Drawing Number: 25170-D
Timing Implemented On: 4-26-10

INTERSECTION: Balboa Ave & Shopping Center Drwy

223 Program

Row	1 Delay	3 Carry-over
0		
1		1.8
2		~~1.8~~
3		~~1.8~~
4		2.0
5		
6		
7		
8	10.0	
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	2
	2I3U	3
bike lane	2I3L	4
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		~~1.8~~
3		~~1.8~~
4		~~1.8~~
5		2.0
6		
7		
8	10.0	
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	10
	6J3U	11
	6J3L	12
bike lane	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	19
---	---	---
---	---	---

Detector Delay & Carryover <D Page>

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234____
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	____5678
E	-- -- -- -- -- -- -- --	1234____
F	-- 25 26 27 28 -- -- --	_2345___

Active Detectors <D Page>

Row		0 Detector #
0		
1	System Det. # 1	
2	System Det. # 2	
3	System Det. # 3	
4	System Det. # 4	
5	System Det. # 5	
6	System Det. # 6	
7	System Det. # 7	
8	System Det. # 8	

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number		F+C+1
Time Before Yellow		F+C+3

Advance Warning Beacon - Sign 1

Phase Number		F+D+1
Time Before Yellow		F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Balboa Ave & Shopping Center Drwy

223 Program

Row	Plan Name ---->	Plan 1	2	3	4	5	6 W/E	7 AM	8	9 PM
0	Cycle Length						140	140		140
1	Phase 1 - ForceOff						92 89	78 75		① 82 79
2	Phase 2 - ForceOff						5	0		0
3	Phase 3 - ForceOff						31	15		16
4	Phase 4 - ForceOff						76 73	61		64
5	Phase 5 - ForceOff						16	78 75		82 79
6	Phase 6 - ForceOff						0	0		0
7	Phase 7 - ForceOff						37	21 23		24 26
8	Phase 8 - ForceOff						76 73	61		64
9	Ring Offset									
A	Offset A						76	65		47 49
B	Offset B									
C	Offset C									
D	Permissive						14	14		14
E	Hold Release						255	255		255
F	Ped Shift						0	0		0

Coordination <C Page>

C + Plan + ROW

Coordination Timing By: K&HA

Implemented On: 2/10/2010

① MLS 10/15/13

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

Row	Time	Plan	Offset	Day of Week
0	07 : 00	7	A	_23456_
1	10 : 00	7 E	A	_23456_
2	13 14 : 00	9	A	_23456_
3	19 : 30	E	A	1234567
4	08 : 00	6	A	—7
5	09 00	6	A	1—
6	19 00	E	A	1—7
7				
8				
9				
A				
B				
C				
D				
E				
F				

FLG 7-26-10

TOD Coordination

<9 Key with C+0+9=1>

Plan Select

1 thru 9 = Coordination Plan 1 thru 9

14 or E = Free

15 or F = Flash

	E	Row		F
		0	Free Lag	_2_4_6_8
Plan 1		1	Plan 1 - Lag	
Plan 2		2	Plan 2 - Lag	
Plan 3		3	Plan 3 - Lag	
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6	2 3	6	Plan 6 - Lag	2 4 5 8
Plan 7	_2___6__	7	Plan 7 - Lag	_2_4_6_8
Plan 8		8	Plan 8 - Lag	
Plan 9	_2___6__	9	Plan 9 - Lag	_2_4_6_8
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

Transition Type	0

TBC Transition

C + D + D

Transition Type

0 = Shortway

Non-zero = Lengthen

Row	Time	Function	Day of Week	Column F Phases/Bits
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	_2_____
6	Ped 6P	_____6__
7	Ped 4P	___4____
8	Ped 8P	_____8
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration <E Page>

E + F + ROW

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	_2__5___
B	EV-B Phases	___4__7_
C	EV-C Phases	1____6__
D	EV-D Phases	__3____8
E	Extra 1 Config. Bits	1_345___
F	IC Select (Interconnect)	_2_____

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week

8-1 Day-of-Month, Year, Month

8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications

(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program

C + C + F = version

Remote Download

C + 0 + 4 = 1 -255

w/ E + E + E bit 5 on

INTERSECTION: Balboa Ave & Mt Abernathy Av/Mt Alifan Dr

223 Program

Group Assignment:
Field Master Assignment:
N/S Street Name: Mt Abernathy/Mt Alifan
E/W Street Name: Balboa Ave
Last Database Change:
System Ref. Number:

Row	Phase # →	1	2	3	4	5	6	7	8
	Column # →	Balboa			Mt Abernathy		Balboa		Mt Alifan
0	Ped Walk		7		7		7		7
1	Ped FDW		15		28		19		32
2	Min Green	4	10	4	7	4	10	4	7
3	Type 3 Limit								
4	Add/Veh		1.2				1.2		
5	Veh Extn	2.0	6.3	2.0	2.0	2.0	5.8	2.0	2.0
6	Max Gap	2.0	6.3	2.0	2.0	2.0	5.8	2.0	2.0
7	Min Gap	2.0	2.0	2.0	0.2	2.0	2.0	2.0	0.2
8	Max Limit	30	50	30	30	30	50	30	30
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1		0.1		0.1		0.1
D	Every		0.7		1.7		0.8		1.7
E	Yellow	3.4	4.3	3.4	3.9	3.4	4.4	3.4	3.9
F	Red Clear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Grade								

Phase Timing - Bank 1
F + Phase + Row
<F Page>

Row	E
RR-1 Delay	
RR-1 Clear	
EV-A Delay	0
EV-A Clear	0
EV-B Delay	0
EV-B Clear	0
EV-C Delay	0
EV-C Clear	0
EV-D Delay	0
EV-D Clear	0
RR-2 Delay	
RR-2 Clear	
View EV Delay	---
View EV Clear	---
View RR Delay	---
View RR Clear	---

Preempt Timing
F + E + Row

Row	F
Permit	12345678
Red Lock	
Yellow Lock	
Min Recall	_2___6__
Ped Recall	
Peds (View)	_2_4_6_8
Rest In Walk	
Red Rest	
Dbl Entry	
Max Recall	
Soft Recall	
Max 2	
Cond Serv	
Ped Lock	12345678
Yellow Start	_2___6__
1st Phases	__3___7_

Phase Functions <F Page>
F + F + Row

Max Initial	32	F + 0 + E
Red Revert	5.0	F + 0 + F
All Red Start	0.0	F + C + O

Start / Revert Times

Drop Number	11	C + 0 + 0
Zone Number	11	C + 0 + 1
Area Number	5	C + 0 + 2
Area Address	94	C + 0 + 3
QuicNet Channel	COM 41	(QuicNet)

Communication Addresses

C + F + O	F	Row
Free Lag	_2_4_6_8	0

Lag Phases <C Page>

Overlap Timing

	Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A	A				
Overlap B	B				
Overlap C	C				
Overlap D	D				

<F Page>
F + COLOR +
<D Page>
D + 0 + OVERLAP

Manual Plan	0	C + A + 1
Manual Offset	0	C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

Downtime Flash	255	(minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	_234____

Disable Communication Ports
D + D + 9

Timing Sheet By: FLG
Approved By: FLG
Drawing Number: 25170-D
Timing Implemented On: 4-26-10

INTERSECTION: Balboa Ave & Mt Abernathy Av/Mt Alifan Dr

Row	Time	Function	Day of Week	Column F Phases/Bits
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	2
6	Ped 6P	6
7	Ped 4P	4
8	Ped 8P	8
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration

<E Page>

E + F + ROW

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	2 5
B	EV-B Phases	4 7
C	EV-C Phases	1 6
D	EV-D Phases	3 8
E	Extra 1 Config. Bits	1 345
F	IC Select (Interconnect)	2

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

INTERSECTION: Balboa Ave & Mt Abernathy Av/Mt Alifan Dr

223 Program

Coordination Timing By: K&HA
Implemented On: 2/10/2010

Row	Column # → / Plan Name →	Plan 1	2	3 MID	4	5	6	7 AM	8	9 PM
0	Cycle Length			130				140		140
1	Phase 1 - ForceOff			103				35		107
2	Phase 2 - ForceOff							0		0
3	Phase 3 - ForceOff			39				49		17
4	Phase 4 - ForceOff			77				97		61
5	Phase 5 - ForceOff			23				115		84
6	Phase 6 - ForceOff							0		0
7	Phase 7 - ForceOff			39				53		19
8	Phase 8 - ForceOff			77				97		61
9	Ring Offset									
A	Offset A			114				100		42
B	Offset B									
C	Offset C									
D	Permissive			10				14		14
E	Hold Release			255				255		255
F	Ped Shift			0				0		0

Coordination <C Page>
C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

FLG 7-26-09

Row	Time	Plan	Offset	Day of Week
0	07 : 00	7	A	_23456_
1	13~~10~~ : 00	~~1~~8	A	_23456_
2	14 : 00	9	A	_23456_
3	19 : 30	E	A	23456
4	08: 00	7	A	——7
5	09 00	7	A	1——
6	1900	E	A	1——7
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination
<9 Key with C+0+9=1>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

	E	Row		F
		0	Free Lag	_2_4_6_8
Plan 1		1	Plan 1 - Lag	
Plan 2		2	Plan 2 - Lag	
Plan 3	_2__6__	3	Plan 3 - Lag	_2_45__8
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6		6	Plan 6 - Lag	
Plan 7	_2__6__	7	Plan 7 - Lag	1__4_6_8
Plan 8		8	Plan 8 - Lag	
Plan 9	_2__6__	9	Plan 9 - Lag	_2_4_6_8
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases
C + E + FUNCTION #

Lag Phases <C Page>
C + F + FUNCTION #

Transition Type	0

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

INTERSECTION: Balboa Ave & Mt Abernathy Av/Mt Alifan Dr

223 Program

Row	1 Delay	3 Carry-over
0		
1		
2		1.8
3		
4		
5		
6		
7	10.0	1.8
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	5
	2I3U	21
	2I3L	25
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7	10.0	1.8
8		
9		1.8
A		
B		
C		
D		
E	---	---
F	---	---

Detector Delay & Carryover <D Page>

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	6
	6J3U	22
	6J3L	26
	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	19
---	---	---
---	---	---

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 – – – –	1234____
C	13 14 15 16 17 18 19 20	12345678
D	– – – – 21 22 23 24	____5678
E	– – – – – – – –	1234____
F	– 25 26 27 28 – – –	_2345___

Active Detectors <D Page>

Row	0 Detector #
0	
1	System Det. # 1
2	System Det. # 2
3	System Det. # 3
4	System Det. # 4
5	System Det. # 5
6	System Det. # 6
7	System Det. # 7
8	System Det. # 8

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number		F+C+1
Time Before Yellow		F+C+3

Advance Warning Beacon - Sign 1

Phase Number		F+D+1
Time Before Yellow		F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Balboa Ave & Cannington Dr/Mt Albertine Ave

223 Program

Group Assignment:
Field Master Assignment:
N/S Street Name: **Cannington/Mt Albertine**
E/W Street Name: **Balboa Ave**
Last Database Change:
System Ref. Number:

		Balboa				Balboa	Cannington	Mt Albertine	
Column # →		Phase							
Phase # →		1	2	3	4	5	6	7	8
Row		↓	→			↑	←	↘	↖↑
0	Ped Walk		7				7		7
1	Ped FDW		9				10		24
2	Min Green	4	10			4	10	7	7
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	5.0			2.0	4.0	2.0	2.0
6	Max Gap	2.0	5.0			2.0	4.0	2.0	2.0
7	Min Gap	2.0	0.2			2.0	0.2	2.0	2.0
8	Max Limit	30	60			30	60	30	30
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1				0.1		
D	Every		0.6				0.8		
E	Yellow	3.4	4.3			3.4	4.4	3.9	3.9
F	Red Clear	1.0	1.0			1.0	1.0	1.0	1.0
	Grade								

Phase Timing - Bank 1
F + Phase + Row
<F Page>

Row	E	
	RR-1 Delay	
	RR-1 Clear	
	EV-A Delay	0
	EV-A Clear	0
	EV-B Delay	
	EV-B Clear	
	EV-C Delay	0
	EV-C Clear	0
	EV-D Delay	
	EV-D Clear	
	RR-2 Delay	
	RR-2 Clear	
	View EV Delay	---
	View EV Clear	---
	View RR Delay	---
	View RR Clear	---

Preempt Timing
F + E + Row

Row	F	
	Permit	12__5678
	Red Lock	
	Yellow Lock	
	Min Recall	_2___6__
	Ped Recall	
	Peds (View)	_2___6_8
	Rest In Walk	
	Red Rest	
	Dbl Entry	
	Max Recall	
	Soft Recall	
	Max 2	
	Cond Serv	
	Ped Lock	12345678
	Yellow Start	_2___6__
	1st Phases	_____7_

Phase Functions <F Page>
F + F + Row

Max Initial	0	F + 0 + E
Red Revert	5.0	F + 0 + F
All Red Start	0.0	F + C + O

Start / Revert Times

Drop Number	10	C + 0 + 0
Zone Number	10	C + 0 + 1
Area Number	5	C + 0 + 2
Area Address	93	C + 0 + 3
QuicNet Channel	COM 41	(QuicNet)

Communication Addresses

C + F + O	F	Row
Free Lag	_2___6_8	0

Lag Phases <C Page>

Overlap Timing

Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A	A			
Overlap B	B			
Overlap C	C			
Overlap D	D			

<F Page>
F + COLOR +
<D Page>
D + 0 + OVERLAP

Manual Plan	0	C + A + 1
Manual Offset	0	C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

Downtime Flash	255	(minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	_234____

Disable Communication Ports
D + D + 9

Timing Sheet By: FLG
Approved By: FLG
Drawing Number:
Timing Implemented On: 4-26-10

INTERSECTION: Balboa Ave & Cannington Dr/Mt Albertine Ave

Row	Time	Function	Day of Week	Column F Phases/Bits
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	2
6	Ped 6P	6
7	Ped 4P	
8	Ped 8P	8
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration

<E Page>

E + F + ROW

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	2 5
B	EV-B Phases	
C	EV-C Phases	1 6
D	EV-D Phases	
E	Extra 1 Config. Bits	1 345
F	IC Select (Interconnect)	2

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

INTERSECTION: Balboa Ave & Cannington Dr/Mt Albertine Ave — 223 Program

Row	1 Delay	3 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	5
	2I3U	21
	2I3L	25
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		
3		
4		
5		
6	10.0	
7	10.0	
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	6
	6J3U	22
	6J3L	26
	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	19
---	---	---
---	---	---

Detector Delay & Carryover <D Page>

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234____
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	____5678
E	-- -- -- -- -- -- -- --	1234____
F	-- 25 26 27 28 -- -- --	_2345___

Active Detectors <D Page>

Row		0 Detector #
0		
1	System Det. # 1	
2	System Det. # 2	
3	System Det. # 3	
4	System Det. # 4	
5	System Det. # 5	
6	System Det. # 6	
7	System Det. # 7	
8	System Det. # 8	

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number		F+C+1
Time Before Yellow		F+C+3

Advance Warning Beacon - Sign 1

Phase Number		F+D+1
Time Before Yellow		F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Balboa Ave & Cannington Dr/Mt Albertine Ave

223 Program

Coordination Timing By: K&HA
Implemented On: 2/10/2010

Row	Plan Name →	Plan 1	2	3	4	5	6	7 AM	8	9 PM
0	Cycle Length							140		140
1	Phase 1 - ForceOff							88		102
2	Phase 2 - ForceOff							0		16
3	Phase 3 - ForceOff									
4	Phase 4 - ForceOff									
5	Phase 5 - ForceOff							84		16
6	Phase 6 - ForceOff							0		0
7	Phase 7 - ForceOff							29		38
8	Phase 8 - ForceOff							69		78
9	Ring Offset									
A	Offset A							121		44
B	Offset B									
C	Offset C									
D	Permissive							14		16
E	Hold Release							255		255
F	Ped Shift							0		0

Coordination <C Page>
C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

Row	Time	Plan	Offset	Day of Week
0	06 : 30	7	A	_23456_
1	10 : 00	7E	A	_23456_
2	13 14 : 00	9	A	_23456_
3	19 18 : 00 30	E	A	123456 7
4	08: 00	7	A	——7
5	09 00	7	A	1——
6	19 00	E	A	1——7
7				
8				
9				
A				
B				
C				
D				
E				
F				

FLO 7-26-10

TOD Coordination
<9 Key with C+0+9=1>

	E	Row		F
		0	Free Lag	_2__6_8
Plan 1		1	Plan 1 - Lag	
Plan 2		2	Plan 2 - Lag	
Plan 3		3	Plan 3 - Lag	
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6		6	Plan 6 - Lag	
Plan 7	_2__6__	7	Plan 7 - Lag	_2__6_8
Plan 8		8	Plan 8 - Lag	
Plan 9	_2__6__	9	Plan 9 - Lag	_2__5__8
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases
C + E + FUNCTION #

Lag Phases <C Page>
C + F + FUNCTION #

Transition Type	0

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

INTERSECTION: Balboa Ave & Charger Bl/Hathay St

223 Proc n

Coordination Timing By: Kn A
Implemented On: 2/10/2010

Row	Column # --->	Plan 1	2	3	4	5	6	7	8	9
	Plan Name --->						AM	AM peak		PM
0	Cycle Length						140	140	140	140
1	Phase 1 - ForceOff						86	85	105	101
2	Phase 2 - ForceOff						0	0	12	15
3	Phase 3 - ForceOff									
4	Phase 4 - ForceOff									
5	Phase 5 - ForceOff						79	79	12	15
6	Phase 6 - ForceOff						0	0	0	0
7	Phase 7 - ForceOff						27	28	31	35
8	Phase 8 - ForceOff						50	53	59	65
9	Ring Offset									
A	Offset A						122	122	32	32
B	Offset B									
C	Offset C									
D	Permissive						14	14	15	15
E	Hold Release						255	255	255	255
F	Ped Shift						0	0	0	0

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

Row	Time	Plan	Offset	Day of Week
0	06 : 30	7	A	_23456_
1	07 30	6	A	_23456_
2	08 : 10	7	A	_23456_
3	11 : 30	E	A	____6_
4	13 : 00	E	A	_2345__
5	08 : 00	7	A	_____7
6	09 : 00	7	A	1_____
7	19 : 00	E	A	1____7
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination

<9 Key with C+0+9=1>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

	E	Row		F
		0	Free Lag	_2___6_8
Plan 1		1	Plan 1 - Lag	
Plan 2		2	Plan 2 - Lag	
Plan 3		3	Plan 3 - Lag	
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6	_2___6__	6	Plan 6 - Lag	_2___6_8
Plan 7	_2___6__	7	Plan 7 - Lag	_2___6_8
Plan 8	____6__	8	Plan 8 - Lag	_2___5_8
Plan 9	____6__	9	Plan 9 - Lag	_2___5_8
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

Transition Type	0

TBC Transition
C + D + D

Transition Type
0 = Shortway
Non-zero = Lengthen

Row	1 Delay	3 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	5
	2I3U	21
	2I3L	25
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7	10.0	
8		
9		
A		
B		
C		
D		1.8
E	---	---
F	---	---

Detector Delay & Carryover <D Page>

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	6
	6J3U	22
	6J3L	26
	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	Adv 07
---	---	---
---	---	---

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234____
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	____5678
E	-- -- -- -- -- -- -- --	1234____
F	-- 25 26 27 28 -- -- --	_2345___

Active Detectors <D Page>

Row	0 Detector #
0	
1	System Det. # 1
2	System Det. # 2
3	System Det. # 3
4	System Det. # 4
5	System Det. # 5
6	System Det. # 6
7	System Det. # 7
8	System Det. # 8

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number		F+C+1
Time Before Yellow		F+C+3

Advance Warning Beacon - Sign 1

Phase Number		F+D+1
Time Before Yellow		F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Balboa Ave & Charger Bl/Hathaw St 223 Prc m

Row	Time	Function	Day of Week	Column F Phases/Bits
0	1145	B	6	12 6 8
1	1230	B	6	1 6
2	1400	B	6	
3	1130	C	6	1
4	1400	C	6	
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function <D Page>

7 + ROW D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	2
6	Ped 6P	6
7	Ped 4P	
8	Ped 8P	7
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration <E Page>

E + F + ROW

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	2 5
B	EV-B Phases	
C	EV-C Phases	1 6
D	EV-D Phases	
E	Extra 1 Config. Bits	1 345
F	IC Select (Interconnect)	2

Configuration

For access, set F + 9 + E = 1 E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Time and Date

8-0 Hour, Minute, Day-of-Week
8-1 Day-of-Month, Year, Month
8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

Program Information

C + C + 0 = program
C + C + F = version

Remote Download

C + 0 + 4 = 1 -255
w/ E + E + E bit 5 on

INTERSECTION: Balboa Ave & Charger Bl/Hathaway St

223 ...gram

Group Assignment:
Field Master Assignment:
N/S Street Name: **Charger Bl/Hathaway**
E/W Street Name: **Balboa Ave**
Last Database Change:
System Ref. Number:

FLG 11-1-16

Row	Phase # →	1	2	3	4	5	6	7	8
	Column # →						Balboa	Charger	Hathaway
		↓→	→			↑	←	↓	↓
0	Ped Walk		7				7	7	
1	Ped FDW		21 ~~20~~				12	24 ~~21~~	
2	Min Green	4	10			4	10	7	7
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	5.0			2.0	4.0	2.0	2.5
6	Max Gap	2.0	5.0			2.0	4.0	2.0	2.5
7	Min Gap	2.0	0.2			2.0	0.2	0.2	2.5
8	Max Limit	40	60			30	60	25	40
9	Max Limit 2	45	40				85		25
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1				0.1	0.1	
D	Every		0.6				0.8	1.7	
E	Yellow	3.4	4.3			3.4	4.4	3.9	3.9
F	Red Clear	1.0	1.0			1.0	1.0	1.0	1.0
	Grade								

Phase Timing - Bank 1
F + Phase + Row
<F Page>

Row	E
RR-1 Delay	
RR-1 Clear	
EV-A Delay	0
EV-A Clear	0
EV-B Delay	0
EV-B Clear	0
EV-C Delay	0
EV-C Clear	0
EV-D Delay	0
EV-D Clear	0
RR-2 Delay	
RR-2 Clear	
View EV Delay	---
View EV Clear	---
View RR Delay	---
View RR Clear	---

Preempt Timing
F + E + Row

Row	F
Permit	12__5678
Red Lock	
Yellow Lock	
Min Recall	_2___6__
Ped Recall	
Peds (View)	_2___67_
Rest In Walk	
Red Rest	
Dbl Entry	
Max Recall	
Soft Recall	
Max 2	
Cond Serv	
Ped Lock	12345678
Yellow Start	_2___6__
1st Phases	_____7_

Phase Functions <F Page>
F + F + Row

Max Initial	0
Red Revert	5.0
All Red Start	0.0

F + 0 + E
F + 0 + F
F + C + O

Start / Revert Times

Drop Number	9
Zone Number	9
Area Number	5
Area Address	92
QuicNet Channel	COM 41

C + 0 + 0
C + 0 + 1
C + 0 + 2
C + 0 + 3
(QuicNet)

Communication Addresses

C + F + O	F	Row
Free Lag	_2___6_8	0

Lag Phases <C Page>

Overlap Timing

	Row	9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
Overlap A	A				
Overlap B	B				
Overlap C	C				
Overlap D	D				

<F Page>
F + COLOR +
<D Page>
D + 0 + OVERLAP

Manual Plan	0
Manual Offset	0

C + A + 1
C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

Downtime Flash	255 (minutes)

Downtime Before Auto Manual Flash
F + 0 +8

Disable Ports	_234___

Disable Communication Ports
D + D + 9

Timing Sheet By: FLG
Approved By: FLG
Drawing Number:
Timing Implemented On: 7/22/2011

LOCATION: **RTE 805 SB @ 274 (BALBOA AVE)**

CALTRANS C8 Version 3

DATE: 3/2/2015

F PAGE

	INTERVAL	PHASE TIMING 1	2	3	4	5	6	7	8	9
0	WALK	1	1	1	1	1	7	1	1	CLK RST
1	DONT WALK	1	1	1	1	1	11	1	1	
2	MIN GREEN	1	1	1	5	1	10	1	1	
3	TYPE 3 DET	0	0	0	0	0	0	0	0	
4	ADD/VEH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	PASSAGE	0.9	0.9	0.9	1.0	0.9	2.0	0.9	0.9	
6	MAX GAP	0.9	0.9	0.9	1.0	0.9	2.0	0.9	0.9	
7	MIN GAP	0.9	0.9	0.9	1.0	0.9	2.0	0.9	0.9	
8	MAX EXT	9	9	9	30	9	40	9	9	
9	MAX 2									YR
A	MAX 3									MO
B										DAY
C	REDUCE BY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DOW
D	EVERY	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	HR
E	YELLOW	3.0	3.0	3.0	4.1	3.0	4.8	3.0	3.0	MIN
F	RED	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	SEC
	PED XING FT						40			
	BIKE XING FT						51			

PRE-EMPTION E		
EV SEL	0	PERMIT
RR1 CLR	5	RED LOCK
EVA DLY	0	YEL LOCK
EVA CLR	5	V RECALL
EVB DLY	0	P RECALL
EVB CLR	5	PED PHASES
EVC DLY	0	RT OLA
EVC CLR	5	RT OLB
EVD DLY	0	DBL ENTRY
EVD CLR	5	MAX 2 PHASES
MAX EV	255	LAG PHASES
RR2 CLR	5	RED REST
		REST-IN-WALK
		MAX 3 PHASES
		YEL START UP
		FIRST PHASE

F FLAGS	1	2	3	4	5	6	7	8	
PERMIT	1	2	3	4	5	6	7	8	0
RED LOCK				4					1
YEL LOCK									2
V RECALL		2				6			3
P RECALL									4
PED PHASES						6			5
RT OLA									6
RT OLB									7
DBL ENTRY									8
MAX 2 PHASES									9
LAG PHASES	READ ONLY								A
RED REST									B
REST-IN-WALK									C
MAX 3 PHASES									D
YEL START UP						6			E
FIRST PHASE				4					F
	1	2	3	4	5	6	7	8	

FOC LONG FAILURE	
FOD SHORT FAILURE	
FOE	0
FOF	5

FCO	3
FC1	3
FC2	10
FCA	0.0
FCB	0.0
FCC	0.0
FCD	0.0

FDO TB SELECT	1
FD3 PED SELECT	0
FD4 7 WIRE	0
FD5 PERMISSIVE	0
FD8 OS SEEKING	1

CO5 FLASH TYPE	1
CC2 DOWNLOAD	1

NOTES:

ENTRIES IN THESE LOCATIONS CAN BE CHANGED IN CC1 FLASH ONLY

LOCATION: **RTE 805 SB @ NOBEL DRIVE**

CALTRANS C8 Version 3 DATE: 3/2/2015

C PAGE

		CONTROL PLANS									Y-COORD			LAG PHASE	FLAGS									
		1	2	3	4	5	6	7	8	9		C	D	E	F	1	2	3	4	5	6	7	8	
0	CYCLE LENGTH														LAG FZ FREE									0
1	FZ1 GRN FCTR													GAPOUT CP1	LAG FZ CP 1									1
2														GAPOUT CP2	LAG FZ CP 2									2
3	FZ3 GRN FCTR													GAPOUT CP3	LAG FZ CP 3									3
4	FZ4 GRN FCTR										PERM TIME			GAPOUT CP4	LAG FZ CP 4									4
5	FZ5 GRN FCTR										LAG OFFSET			GAPOUT CP5	LAG FZ CP 5									5
6											FORCE OFF			GAPOUT CP6	LAG FZ CP 6									6
7	FZ7 GRN FCTR										LONG GRN			GAPOUT CP7	LAG FZ CP 7									7
8	FZ8 GRN FCTR										NO GREEN			GAPOUT CP8	LAG FZ CP 8									8
9	MULTI CYCLE													GAPOUT CP9	LAG FZ CP 9									9
A	OFFSET A										OFFSET				LAG C COORD									A
B	OFFSET B														LAG D COORD									B
C	OFFSET C														COORD FAZES		2				6			C
D	FZ 3 EXT																							D
E	FZ 7 EXT																							E
F	OFFSET INTRPT																							F
																1	2	3	4	5	6	7	8	

CO1 MANUAL CP
CO2 MASTER CP
CO3 CURRENT CP
CO4 LAST CP
CO7 TRNSMT CP
COD MANUAL OFFSET
CAO LOCAL CYCLE TIMER
CBO MASTER CYCLE TIMER
CAA LOCAL OFFSET
CBA MASTER OFFSET

SYSTEM MASTER:
SB RAMP

FEATURE	OFF	ON
1		
2		
3		
4		
5		
6		
7		
8		

LOCATION	OFF	ON
1		1
2		
3		
4		
5		
6		
7		
8		

COO = 1

CCB/CDB OFFSET TIMER
CCC/CDC LAG GREEN TIMER
CCD/CDD FORCE OFF TIMER
CCE/CDE LONG GREEN TIMER
CCF/CDF NO GREEN TIMER

LOCATION: **RTE 805 SB @ 274 (BALBOA AVE)**

CALTRANS C8 Version 3

DATE: 2/16/2005

D PAGE

	D	FLAGS								E	FLAGS								F	FLAGS							
	MAX	1	2	3	4	5	6	7	8	MIN	1	2	3	4	5	6	7	8	PED	1	2	3	4	5	6	7	8
0	RCL									RCL									RCL								
1	CP 1									CP 1									CP 1								
2	CP 2									CP 2									CP 2								
3	CP 3									CP 3									CP 3								
4	CP 4									CP 4									CP 4								
5	CP 5									CP 5									CP 5								
6	CP 6									CP 6									CP 6								
7	CP 7									CP 7									CP 7								
8	CP 8									CP 8									CP 8								
9	CP 9									CP 9									CP 9								
A																			RCL 1								
B																			RCL 2								
C																											
D																											
E																											
F																											
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8

E PAGE

	E	FLAGS								F	FLAGS								
	FUNCTION	1	2	3	4	5	6	7	8	FUNCTION	1	2	3	4	5	6	7	8	
0										CODE 4									0
1										CODE 5									1
2										C-RECALL									2
3										D-RECALL									3
4										EXCLUSIVE									4
5										2 PED		2							5
6										6 PED						6			6
7										4 PED				4					7
8										8 PED								8	8
9																			9
A	OLA NOT									OLA ON									A
B	OLB NOT									OLB ON									B
C	OLC NOT									OLC ON									C
D	OLD NOT									OLD ON									D
E																			E
F																			F
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	

LAST POWER FAILURE REGISTER

HOUR = D-A-E

MINUTE = D-B-E

DAY = D-C-E

RCL 1 = TIME OF DAY MAX RECALL (1ST SELECT) PHASES

(CALL ACTIVE LIGHTS)

RCL 2 = TIME OF DAY MAX RECALL (2ND SELECT) PHASES

(CALL ACTIVE LIGHTS)

LAST FLASH TIME REGISTER

HOUR = D-A-F

MINUTE = D-B-F

DAY = D-C-F

D-E-E = C8 VERSION NUMBER

D-E-F = LITHIUM BATTERY CONDITION

84 = BAD

85 = GOOD

LOCATION: **RTE 805 SB @ NOBEL DRIVE**

CALTRANS C8 Version 3 DATE: 3/2/2015

7 PAGE

TIME OF DAY ACTIVITY TABLE											
7+EVENT+HR+MIN+ACT+"E"+ON/OFF+DOW LTS											
				ON/	S	M	T	W	T	F	S
	HR	MIN	ACT	OFF	1	2	3	4	5	6	7
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
A											
B											
C											
D											
E											
F											

ACTIVITY CODE

1 TYPE OF MAX TERMINATION
2 MAX 2
3 MAX 3
4 COND SERV (1ST SELECT)
5 COND SERV (2ND SELECT)
6 ENERGIZE AUX OUTPUT-RED

7 ENERGIZE AUX OUTPUT-GREEN

9 PAGE C09 = 0 or 1

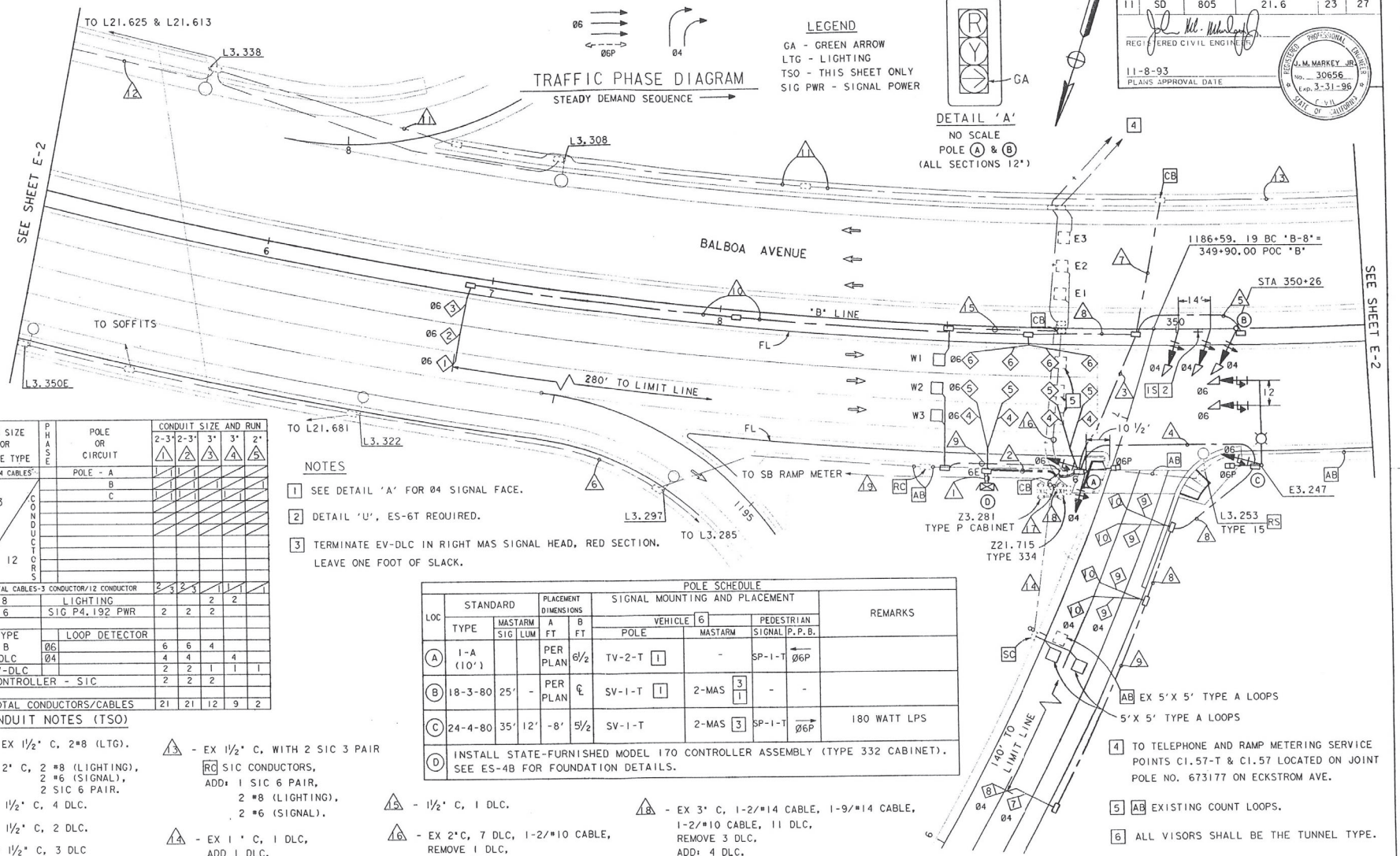
CONTROL PLAN TIME OF DAY											
9+EVENT+HR+MIN+CP+OS+E+DOW											
					S	M	T	W	T	F	S
	HR	MIN	CP	OS	1	2	3	4	5	6	7
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
A											
B											
C											
D											
E											
F											

8 ENERGIZE AUX OUTPUT-YELLOW

9 TIME OF DAY MAX RECALL (1ST SELECT)
A TRAFFIC ACT. MAX 2 OPERATION
B TIME OF DAY MAX RECALL (2ND SELECT)
C YELLOW YIELD COORDINATION
D YELLOW YIELD COORDINATION
E TIME OF DAY FREE OPERATION
F FLASHING OPERATION

9 PAGE CO9 = 2

CONTROL PLAN TIME OF DAY											
9+EVENT+HR+MIN+CP+OS+E+DOW											
					S	M	T	W	T	F	S
	HR	MIN	CP	OS	1	2	3	4	5	6	7
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
A											
B											
C											
D											
E											
F											



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
11	SD	805	21.6	23	27

REGISTERED CIVIL ENGINEER

11-8-93
PLANS APPROVAL DATE

J. M. MARKEY JR. No. 30656 Exp. 3-31-96 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE AND RUN 2-3" (1)	2-3" (2)	3" (3)	3" (4)	2" (5)
NO. 14 CABLES		POLE - A	1	1			
CONDUCTORS 3		B	1	1	1	1	1
CONDUCTORS 12		C	1	1	1	1	1
TOTAL CABLES-3 CONDUCTOR/12 CONDUCTOR			2/3	2/3	1/1	1/1	1/1
8		LIGHTING			2	2	
6		SIG P4.192 PWR	2	2	2		
TYPE		LOOP DETECTOR					
B	Ø6		6	6	4		
DLC	Ø4		4	4		4	
EV-DLC			2	2	1	1	1
CONTROLLER - SIC			2	2	2		
TOTAL CONDUCTORS/CABLES			21	21	12	9	2

NOTES

1 SEE DETAIL 'A' FOR Ø4 SIGNAL FACE.

2 DETAIL 'U', ES-6T REQUIRED.

3 TERMINATE EV-DLC IN RIGHT MAS SIGNAL HEAD, RED SECTION. LEAVE ONE FOOT OF SLACK.

POLE SCHEDULE

LOC	STANDARD TYPE	MASTARM SIG	MASTARM LUM	PLACEMENT DIMENSIONS A FT	PLACEMENT DIMENSIONS B FT	SIGNAL MOUNTING AND PLACEMENT VEHICLE 6 POLE	VEHICLE 6 MASTARM	PEDESTRIAN SIGNAL	PEDESTRIAN P.P.B.	REMARKS
(A)	1-A (10')			PER PLAN	6½	TV-2-T 1	-	SP-1-T	Ø6P	
(B)	18-3-80	25'	-	PER PLAN	℄	SV-1-T 1	2-MAS 3 1	-	-	
(C)	24-4-80	35'	12'	-8'	5½	SV-1-T	2-MAS 3	SP-1-T	Ø6P	180 WATT LPS
(D)	INSTALL STATE-FURNISHED MODEL 170 CONTROLLER ASSEMBLY (TYPE 332 CABINET). SEE ES-4B FOR FOUNDATION DETAILS.									

CONDUIT NOTES (TSO)

6 - EX 1½" C, 2#8 (LTG).

7 - 2" C, 2 #8 (LIGHTING), 2 #6 (SIGNAL), 2 SIC 6 PAIR.

8 - 1½" C, 4 DLC.

9 - 1½" C, 2 DLC.

10 - 1½" C, 3 DLC

11 - EX 1½" C, WITH 2 SIC 3 PAIR RC SIC CONDUCTORS, ADD 1 SIC 6 PAIR.

12 - EX 1½" C, WITH 2 SIC 3 PAIR RC SIC CONDUCTORS, 2 #8 (LIGHTING), ADD 1 SIC 6 PAIR.

13 - EX 1½" C, WITH 2 SIC 3 PAIR RC SIC CONDUCTORS, ADD: 1 SIC 6 PAIR, 2 #8 (LIGHTING), 2 #6 (SIGNAL).

14 - EX 1 " C, 1 DLC, ADD 1 DLC.

15 - 1½" C, 1 DLC.

16 - EX 2"C, 7 DLC, 1-2/#10 CABLE, REMOVE 1 DLC, ADD: 1 DLC.

17 - EX 3" C, 8 DLC, 1-2/#10 CABLE, REMOVE 3 DLC, ADD: 3 DLC.

18 - EX 3" C, 1-2/#14 CABLE, 1-9/#14 CABLE, 1-2/#10 CABLE, 11 DLC, REMOVE 3 DLC, ADD: 4 DLC.

19 - EX 1½" C, 1-2#14 CABLE, 1-9/14 CABLE, 2 DLC.

4 TO TELEPHONE AND RAMP METERING SERVICE POINTS C1.57-T & C1.57 LOCATED ON JOINT POLE NO. 673177 ON ECKSTROM AVE.

5 AB EXISTING COUNT LOOPS.

6 ALL VISORS SHALL BE THE TUNNEL TYPE.

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

SIGNAL NO. P21.687
BALBOA AVE. & RTE 805 SB OFF

SIGNAL AND LIGHTING

SCALE: 1"=20'

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PROJECT ENGINEER
B T PECUS
TRAFFIC ELECTRICAL
Caltrans
CALCULATED/DESIGNED BY TJR 7/93
CHECKED BY BTP
DATE REVISED BY
DATE REVISED

LAST REVISION 07-30-93 TIME PLOTTED => 15-NOV-1993 12:54

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES 0 1 2 3

USERNAME => lenard
DGN FILE => /usr/lenard/PO/p04381u01.dg

CU 11276 EA 043811

FORM DC-OE-92-PF (REV. 3/88)

LOCATION: **RTE 272 (BALBOA AVE) / RTE 805 NB**

CALTRANS C8 Version 3 DATE: 1/4/2016

F PAGE

	INTERVAL	PHASE TIMING 1	2	3	4	5	6	7	8	9
0	WALK	1	7	1	1	1	1	1	1	CLK RST
1	DONT WALK	1	10	1	1	1	1	1	1	
2	MIN GREEN	1	10	1	5	1	1	1	1	
3	TYPE 3 DET	0	0	0	0	0	0	0	0	
4	ADD/VEH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	PASSAGE	0.9	2.0	0.9	2.0	0.9	0.9	0.9	0.9	
6	MAX GAP	0.9	2.0	0.9	2.0	0.9	0.9	0.9	0.9	
7	MIN GAP	0.9	2.0	0.9	2.0	0.9	0.9	0.9	0.9	
8	MAX EXT	9	40	9	40	9	9	9	9	
9	MAX 2									YR
A	MAX 3									MO
B										DAY
C	REDUCE BY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DOW
D	EVERY	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	HR
E	YELLOW	3.0	4.8	3.0	4.1	3.0	3.0	3.0	3.0	MIN
F	RED	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	SEC
	PED XING FT		35							
	BIKE XING FT		51							

PRE-EMPTION E	
EV SEL	0
RR1 CLR	5
EVA DLY	0
EVA CLR	5
EVB DLY	0
EVB CLR	5
EVC DLY	0
EVC CLR	5
EVD DLY	0
EVD CLR	5
MAX EV	255
RR2 CLR	5

F FLAGS	1	2	3	4	5	6	7	8	
PERMIT	1	2	3	4	5	6	7	8	0
RED LOCK									1
YEL LOCK									2
V RECALL		2				6			3
P RECALL									4
PED PHASES		2							5
RT OLA									6
RT OLB									7
DBL ENTRY									8
MAX 2 PHASES									9
LAG PHASES	READ ONLY								A
RED REST									B
REST-IN-WALK									C
MAX 3 PHASES									D
YEL START UP		2							E
FIRST PHASE				4					F
	1	2	3	4	5	6	7	8	

FOC LONG FAILURE	
FOD SHORT FAILURE	
FOE	0
FOF	5

FCO	3
FC1	3
FC2	10
FCA	0.0
FCB	0.0
FCC	0.0
FCD	0.0

FDO TB SELECT	1
FD3 PED SELECT	0
FD4 7 WIRE	0
FD5 PERMISSIVE	0
FD8 OS SEEKING	1

CO5 FLASH TYPE	1
CC2 DOWNLOAD	1

NOTES:

ENTRIES IN THESE LOCATIONS CAN BE CHANGED IN CC1 FLASH ONLY

LOCATION: **RTE 272 (BALBOA AVE) / RTE 805 NB**

CALTRANS C8 Version 3 DATE: 4/16/2003

C PAGE

		CONTROL PLANS									Y-COORD			LAG PHASE		FLAGS									
		1	2	3	4	5	6	7	8	9		C	D	E		F	1	2	3	4	5	6	7	8	
0	CYCLE LENGTH															LAG FZ FREE		**2**		**4**		**6**		**8**	0
1	FZ1 GRN FCTR													GAPOUT CP1		LAG FZ CP 1									1
2														GAPOUT CP2		LAG FZ CP 2									2
3	FZ3 GRN FCTR													GAPOUT CP3		LAG FZ CP 3									3
4	FZ4 GRN FCTR										PERM TIME			GAPOUT CP4		LAG FZ CP 4									4
5	FZ5 GRN FCTR										LAG OFFSET			GAPOUT CP5		LAG FZ CP 5									5
6											FORCE OFF			GAPOUT CP6		LAG FZ CP 6									6
7	FZ7 GRN FCTR										LONG GRN			GAPOUT CP7		LAG FZ CP 7									7
8	FZ8 GRN FCTR										NO GREEN			GAPOUT CP8		LAG FZ CP 8									8
9	MULTI CYCLE													GAPOUT CP9		LAG FZ CP 9									9
A	OFFSET A										OFFSET					LAG C COORD									A
B	OFFSET B															LAG D COORD									B
C	OFFSET C															COORD FAZES		**2**				**6**			C
D	FZ 3 EXT																								D
E	FZ 7 EXT																								E
F	OFFSET INTRPT																								F
																	1	2	3	4	5	6	7	8	

CO1 MANUAL CP
CO2 MASTER CP
CO3 CURRENT CP
CO4 LAST CP
CO7 TRNSMT CP
COD MANUAL OFFSET
CAO LOCAL CYCLE TIMER
CBO MASTER CYCLE TIMER
CAA LOCAL OFFSET
CBA MASTER OFFSET

SYSTEM MASTER:
SB OFF

FEATURE	OFF	ON
1		
2		
3		
4		
5		
6		
7		
8		

LOCATION	OFF	ON
1		**1**
2		**1**
3		**1**
4		
5		
6		
7		
8		

COO = **7**

CCB/CDB OFFSET TIMER
CCC/CDC LAG GREEN TIMER
CCD/CDD FORCE OFF TIMER
CCE/CDE LONG GREEN TIMER
CCF/CDF NO GREEN TIMER

	D	FLAGS								E	FLAGS								F	FLAGS							
	MAX	1	2	3	4	5	6	7	8	MIN	1	2	3	4	5	6	7	8	PED	1	2	3	4	5	6	7	8
0	RCL									RCL									RCL								
1	CP 1									CP 1									CP 1								
2	CP 2									CP 2									CP 2								
3	CP 3									CP 3									CP 3								
4	CP 4									CP 4									CP 4								
5	CP 5									CP 5									CP 5								
6	CP 6									CP 6									CP 6								
7	CP 7									CP 7									CP 7								
8	CP 8									CP 8									CP 8								
9	CP 9									CP 9									CP 9								
A																			RCL 1								
B																			RCL 2								
C																											
D																											
E																											
F																											
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8

E PAGE

	E	FLAGS								F	FLAGS								
	FUNCTION	1	2	3	4	5	6	7	8	FUNCTION	1	2	3	4	5	6	7	8	
0										CODE 4									0
1										CODE 5									1
2										C-RECALL									2
3										D-RECALL									3
4										EXCLUSIVE									4
5										2 PED		2							5
6										6 PED						6			6
7										4 PED				4					7
8										8 PED								8	8
9																			9
A	OLA NOT									OLA ON									A
B	OLB NOT									OLB ON									B
C	OLC NOT									OLC ON									C
D	OLD NOT									OLD ON									D
E																			E
F																			F
		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	

LAST POWER FAILURE REGISTER

HOUR = D-A-E
MINUTE = D-B-E
DAY = D-C-E

RCL 1 = TIME OF DAY MAX RECALL (1ST SELECT) PHASES
(CALL ACTIVE LIGHTS)
RCL 2 = TIME OF DAY MAX RECALL (2ND SELECT) PHASES
(CALL ACTIVE LIGHTS)

LAST FLASH TIME REGISTER

HOUR = D-A-F
MINUTE = D-B-F
DAY = D-C-F

D-E-E = C8 VERSION NUMBER
D-E-F = LITHIUM BATTERY CONDITION
84 = BAD
85 = GOOD

7 PAGE

TIME OF DAY ACTIVITY TABLE											
7+EVENT+HR+MIN+ACT+"E"+ON/OFF+DOW LTS											
	HR	MIN	ACT	ON/ OFF	S 1	M 2	T 3	W 4	T 5	F 6	S 7
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
A											
B											
C											
D											
E											
F											

ACTIVITY CODE

1 TYPE OF MAX TERMINATION
2 MAX 2
3 MAX 3
4 COND SERV (1ST SELECT)
5 COND SERV (2ND SELECT)
6 ENERGIZE AUX OUTPUT-RED

7 ENERGIZE AUX OUTPUT-GREEN

9 PAGE C09 = 0 or 1

CONTROL PLAN TIME OF DAY											
9+EVENT+HR+MIN+CP+OS+E+DOW											
	HR	MIN	CP	OS	S 1	M 2	T 3	W 4	T 5	F 6	S 7
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
A											
B											
C											
D											
E											
F											

8 ENERGIZE AUX OUTPUT-YELLOW

9 TIME OF DAY MAX RECALL (1ST SELECT)
A TRAFFIC ACT. MAX 2 OPERATION
B TIME OF DAY MAX RECALL (2ND SELECT)
C YELLOW YIELD COORDINATION
D YELLOW YIELD COORDINATION
E TIME OF DAY FREE OPERATION
F FLASHING OPERATION

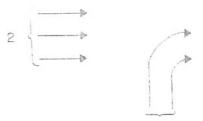
9 PAGE C09 = 2

CONTROL PLAN TIME OF DAY											
9+EVENT+HR+MIN+CP+OS+E+DOW											
	HR	MIN	CP	OS	S 1	M 2	T 3	W 4	T 5	F 6	S 7
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
A											
B											
C											
D											
E											
F											

POLE SCHEDULE

LOC.	STANDARD TYPE	MASTARM SIG. LUM.	PLACEMENT DIMENSIONS A	B	SIGNAL MOUNTING & PLACEMENT VEHICLE POLE	MASTARM	SIGNAL	PEDESTRIAN P.P.B	REMARKS
(A)	1-A (10')			6 1/2	TV-2-T		SP-1-T	(2) ← W →	
(B)	16-2-80 [4]	20'	PER PLAN	℄ ISLAND	SV-1-T [2]	2-MAS [2]			
(C)	26-4-80 [1]	40' 12'	PER PLAN	6 1/2	SV-1-T	2-MAS [3]	SP-1-T	(2) ← W →	180 WATT LPS LUMINAIRE WITH 480V BALLAST
(D)	STATE-FURNISHED, MODEL 170 CONTROLLER ASSEMBLY. FOUNDATION DETAILS ES-4E. STATE-FURNISHED, 480/120V TRANSFORMER.								

PHASE DESIGNATIONS



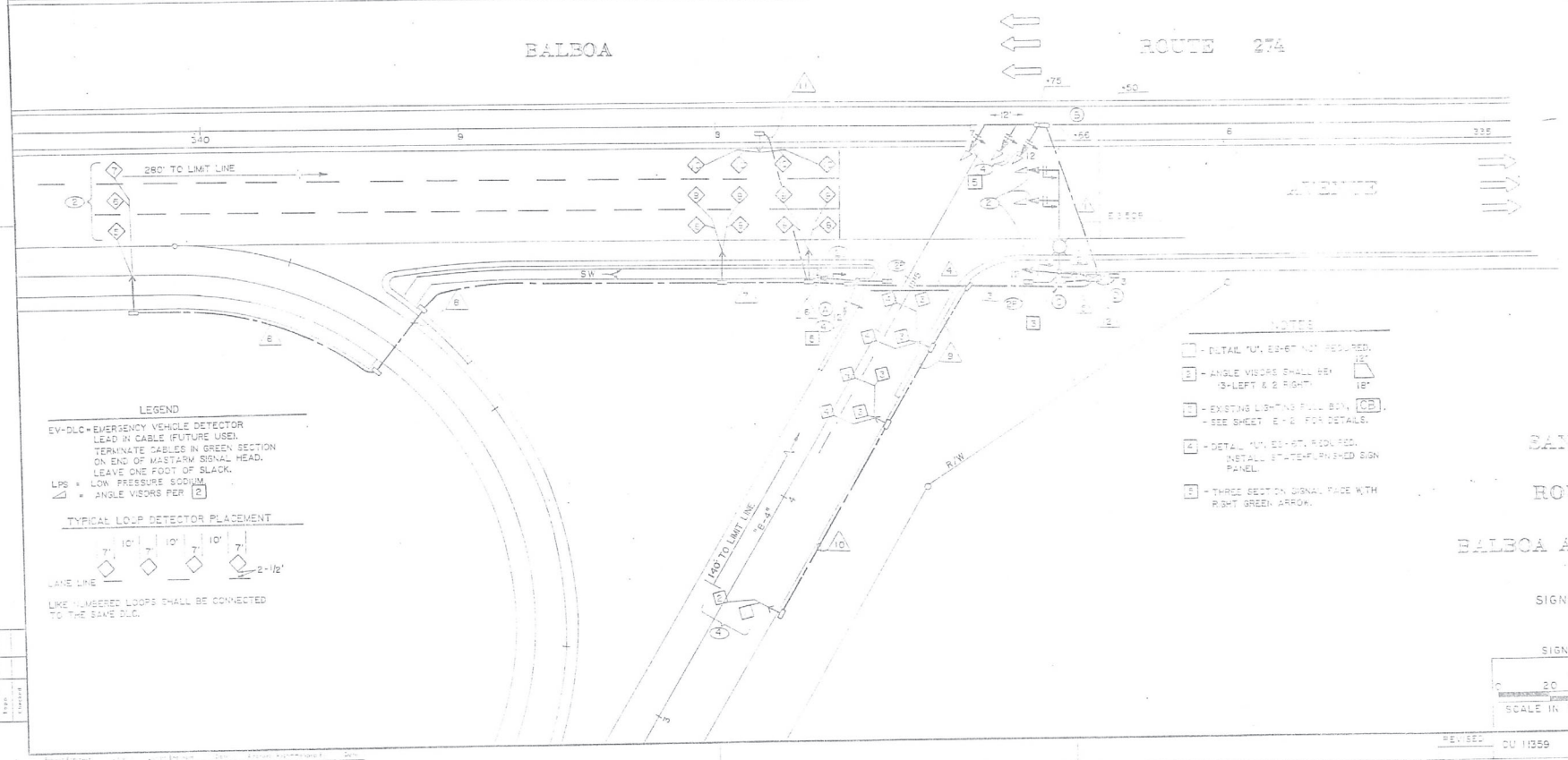
EMERGENCY OPERATION: FLASH ALL PHASES RED.

CONDUCTOR SCHEDULE

AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	CONDUIT SIZE / RUN 2" (1)	2" (2)	2" (3)	2" (4)	1 1/2" (5)	1 1/2" (6)	1 1/2" (7)	1 1/2" (8)
NO. 14 CABLES		POLE - A								
		B								
		C								
CONDUCTORS 3										
CONDUCTORS 12										
NO. 14 CABLES										
TOTAL CABLES - 3 CONDUCTOR/12 CONDUIT										
8		1-3 PAIR, SEE FUSE								
TYPE "A" DLC						5	6	6	6	3
						6				
EV-DLC			1	1						
TOTAL CONDUCTORS CABLES			13	13	12	6	5	6	6	3

△B - 1/2 INCH C. 4 - #8 D.L.C.
△(10) - 1/2 INCH C. 2 - #8 D.L.C.
△1 - 1/2 INCH C. 1 - #8 D.L.C.
△2 - 1/2 INCH C. (4) - FOR FUTURE INTERCONNECT CABLES.





LEGEND

EV-DLC = EMERGENCY VEHICLE DETECTOR LEAD IN CABLE (FUTURE USE). TERMINATE CABLES IN GREEN SECTION ON END OF MASTARM SIGNAL HEAD. LEAVE ONE FOOT OF SLACK.
LPS = LOW PRESSURE SODIUM
△ = ANGLE VISORS PER [2]

TYPICAL LOOP DETECTOR PLACEMENT

LIKE NUMBERED LOOPS SHALL BE CONNECTED TO THE SAME D.L.C.

NOTES

1. - DETAIL "D", ES-6E, NO RED, RED.
2. - ANGLE VISORS SHALL BE 13"-LEFT & 2 RIGHT.
3. - EXISTING LIGHTING FULL BOX, (OB), - SEE SHEET E - 2 FOR DETAILS.
4. - DETAIL "D", ES-6E, RED, RED. INSTALL STATE FURNISHED SIGN PANEL.
5. - THREE SECTION SIGNAL FACE WITH RIGHT GREEN ARROW.

IN
SAN DIEGO
ON
ROUTE 805
AT
BALBOA AVENUE (RTE 274)

SIGNAL AND LIGHTING

274/805
SIGNAL NO.: P1,504/P2,602

SHEET E-1

0 20 40
SCALE IN FEET

REVISED DU 11359 WO 080071

TRAFFIC DEPT. | Initial | Date | Revised | By | Type Consent

M.C. GUINESS 12/86 T.C. MARTIN 12/86 J.C. GRAY 12/86

RSECTION: Genesee Ave & Mt Alifan Dr

223 Pr am

Group Assignment:
Field Master Assignment:

N/S Street Na Genesee Ave
E/W Street Name Mt Alifan Dr

Last Change:
Timing Sheet By: DOC
Approved By: MC

Drawing Number: 24014-9-D
Sys. Ref. Number:
Timing implemented on: 7/27/01

Row	Column # --->	Genesee Ave	Mt Alifan Dr	Mt Alifan Dr	Genesee Ave				
	Phase # --->	Phase							
		1	2	3	4	5	6	7	8
0	Ped Walk		7	7	7		7		
1	Ped FDW		16	24	24		14		
2	Min Green	4	10	4	4	4	10		
3	Type 3 Limit								
4	Add/Veh								
5	Veh Extn	2.0	3.9	2.0	2.0	2.0	8.2		
6	Max Gap	2.0	3.9	2.0	2.0	2.0	8.2		
7	Min Gap	2.0	0.2	2.0	2.0	2.0	0.2		
8	Max Limit	30	60	50	50	30	60		
9	Max Limit 2								
A	Bus Adv								
B	Call to Phs								
C	Reduce By		0.1				0.1		
D	Every		0.8				0.4		
E	Yellow	3.4 ~~3.0~~	4.5	3.9 ~~3.5~~	3.9 ~~3.4~~	3.4 ~~3.0~~	3.9 ~~3.1~~		
F	Red Clear	1.0	1.0	1.0	1.0	1.0	1.0		

Phase Timing - Bank 1
F + Phase + Row
<F Page>

Row	E
RR-1 Delay	
RR-1 Clear	
EV-A Delay	0
EV-A Clear	0
EV-B Delay	
EV-B Clear	
EV-C Delay	0
EV-C Clear	0
EV-D Delay	
EV-D Clear	
RR-2 Delay	
RR-2 Clear	
View EV Delay	---
View EV Clear	---
View RR Delay	---
View RR Clear	---

Preempt Timing
F + E + Row

Row	F
Permit	123456__
Red Lock	
Yellow Lock	
Min Recall	
Ped Recall	
Peds (View)	_234_6__
Rest In Walk	
Red Rest	
Dbl Entry	
Max Recall	
Soft Recall	_2___6__
Max 2	
Cond Serv	
Ped Lock	12345678
Yellow Start	_2___6__
1st Phases	_34____

Phase Functions
F + F + Row
<F Page>

Max Initial	0
Red Revert	5.0
All Red Start	0.0

F + 0 + E
F + 0 + F
F + C + O

Start / Revert Times

Drop Number	
Zone Number	
Area Number	
Area Address	
QuicNet Channel	

C + 0 + 0
C + 0 + 1
C + 0 + 2
C + 0 + 3
(QuicNet)

Communication Addresses

C + F + O
Free Lag

F	Row
_2_4_6__	0

Lag Phases <C Page>

Row		9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
A	Overlap A				
B	Overlap B				
C	Overlap C				
D	Overlap D				

Overlap Timing <F Page>
F + COLOR +
<D Page>
D + 0 + OVERLAP

FLG 4-12-12

Manual Plan	0 ~~14~~
Manual Offset	0

C + A + 1
C + B + 1

Manual Selection

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

Downtime Flash	255 (minutes)

Downtime Before Auto Manual Flash
F + 0 + 8

Disable Ports	234

Disable Communications Ports
D + D + 9

9

INTERSECTION: Genesee Ave & Mt Alifan Dr

223 Program

Row	Time	Function	Day of Week	Column F Phases/Bits
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Function

7 + ROW

<D Page>

D + F + ROW

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Row		F
0		
1	RR Overlap A - Phases	
2	RR Overlap B - Phases	
3	RR Overlap C - Phases	
4	RR Overlap D - Phases	
5	Ped 2P	2
6	Ped 6P	6
7	Ped 4P	4
8	Ped 8P	3
9	Yellow Flash Phases	
A	Overlap A - Phases	
B	Overlap B - Phases	
C	Overlap C - Phases	
D	Overlap D - Phases	
E	Restricted Phases	
F	Assign 5 Outputs	

Configuration

E + F + ROW

<E Page>

Day of Week

1 = Sunday
2 = Monday
3 = Tuesday
4 = Wednesday
5 = Thursday
6 = Friday
7 = Saturday

Assign 5 Outputs
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Row		E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	2 5
B	EV-B Phases	4
C	EV-C Phases	1 6
D	EV-D Phases	3
E	Extra 1 Config. Bits	1 3 4 5
F	IC Select (Interconnect)	2

Configuration

For access, set F + 9 + E = 1

E + E + ROW

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 = Remote Download
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Time and Date

8-0 Hour, Minute, Day-of-Week

8-1 Day-of-Month, Year, Month

8-F Seconds

Disable Parity	0	D+B+0

Dial-Up Telephone Communications

(If set to a non-zero value, parity will be disabled)

(This parameter is NOT downloaded)

Program Information

C + C + 0 = program

C + C + F = version

Remote Download

C + 0 + 4 = 1 -255

w/ E + E + E bit 5 on

Row	1 Delay	3 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	1I1	14
	2I2U	1
	2I2L	5
	2I3U	21
	2I3L	25
	2I4	9
	3I5	16
	4I6U	3
	4I6L	7
	4I7U	23
	4I7L	27
	4I8	11
	1I9U	18
	3I9L	20
---	---	---
---	---	---

Row	2 Delay	4 Carry-over
0		
1		1.8
2		
3		
4		
5		
6		
7		
8		
9		
A		
B		
C		
D		
E	---	---
F	---	---

Detector Name	332 Input File	Detector Number
	5J1	13
	6J2U	2
	6J2L	6
	6J3U	22
	6J3L	26
	6J4	10
	7J5	15
	8J6U	4
	8J6L	8
	8J7U	24
	8J7L	28
	8J8	12
	5J9U	17
	7J9L	19
---	---	---
---	---	---

Detector Delay & Carryover <D Page>

D + X (across) + ROW

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	5678
E	-- -- -- -- -- -- -- --	1234
F	-- 25 26 27 28 -- -- --	2345

Active Detectors <D Page>

Row		0 Detector #
0		
1	System Det. # 1	0
2	System Det. # 2	0
3	System Det. # 3	0
4	System Det. # 4	0
5	System Det. # 5	0
6	System Det. # 6	0
7	System Det. # 7	0
8	System Det. # 8	0

System Detectors <D Page>

Max ON (min)	5	D+A+E
Max OFF (min)	60	D+A+F

Detector Failure Monitor

Phase Number	0	F+C+1
Time Before Yellow	0.0	F+C+3

Advance Warning Beacon - Sign 1

Phase Number	0	F+D+1
Time Before Yellow	0.0	F+D+3

Advance Warning Beacon - Sign 2

Long Failure	0.5	F+0+6
Short Failure	0.5	F+0+7

Power Cycle Correction (Default = 0.5)

INTERSECTION: Genesee Ave @ Mt Alifan Dr

223 Prog[illegible]n

Coordination Timing By: FLS
Implemented On: 4/12/2012

Row	Plan Name ---->	Plan 1	2	3	4	5	6	7 AM	8	9 PM
0	Cycle Length							140	140	140
1	Phase 1 - ForceOff							14	96	20
2	Phase 2 - ForceOff							0	0	0
3	Phase 3 - ForceOff							50	36	60
4	Phase 4 - ForceOff							94	70	96
5	Phase 5 - ForceOff							113	93	111
6	Phase 6 - ForceOff							0	0	0
7	Phase 7 - ForceOff									
8	Phase 8 - ForceOff									
9	Ring Offset									
A	Offset A							112	134	117
B	Offset B									
C	Offset C									
D	Permissive							14	14	20
E	Hold Release							255	255	130
F	Ped Shift							0	0	0

Coordination <C Page>

C + Plan + ROW

FOR OBSERVATION ONLY

Master Plan	C + A + 2
Current Plan	C + A + 3
Next Plan	C + A + 4
T.O.D. Plan	C + A + 5
Master Cycle	C + A + 0
Ring A Cycle	C + B + 0
Ring B Cycle	C + D + 0
Min Cycle	C + A + E
Max Cycle	C + B + E

Row	Time	Plan	Offset	Day of Week
0	07:30	7	A	_23456_
1	10:00	E	A	1234567
2	14:00	9	A	_23456_
3	18:00	E	A	1234567
4				
5				
6				
7				
8				
9				
A				
B				
C				
D				
E				
F				

TOD Coordination

<9 Key with C+0+9=1>

	E	Row		F
		0	Free Lag	
Plan 1		1	Plan 1 - Lag	
Plan 2		2	Plan 2 - Lag	
Plan 3		3	Plan 3 - Lag	
Plan 4		4	Plan 4 - Lag	
Plan 5		5	Plan 5 - Lag	
Plan 6		6	Plan 6 - Lag	
Plan 7	_2___6__	7	Plan 7 - Lag	1__4_6__
Plan 8	_2___6__	8	Plan 8 - Lag	_2_4_6__
Plan 9	_2_____	9	Plan 9 - Lag	1__4_6__
Coord Ped*		A	Coord Max *	
NEMA Hold		B	Coord Lag *	
		C		
		D		
		E		
		F		

Sync Phases

C + E + FUNCTION #

Lag Phases <C Page>

C + F + FUNCTION #

Transition Type	0

TBC Transition
C + D + D

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

Transition Type
0 = Shortway
Non-zero = Lengthen

Appendix B
Clairemont Mesa Community Plan Amendment and Zone Change - Select Zone Analysis

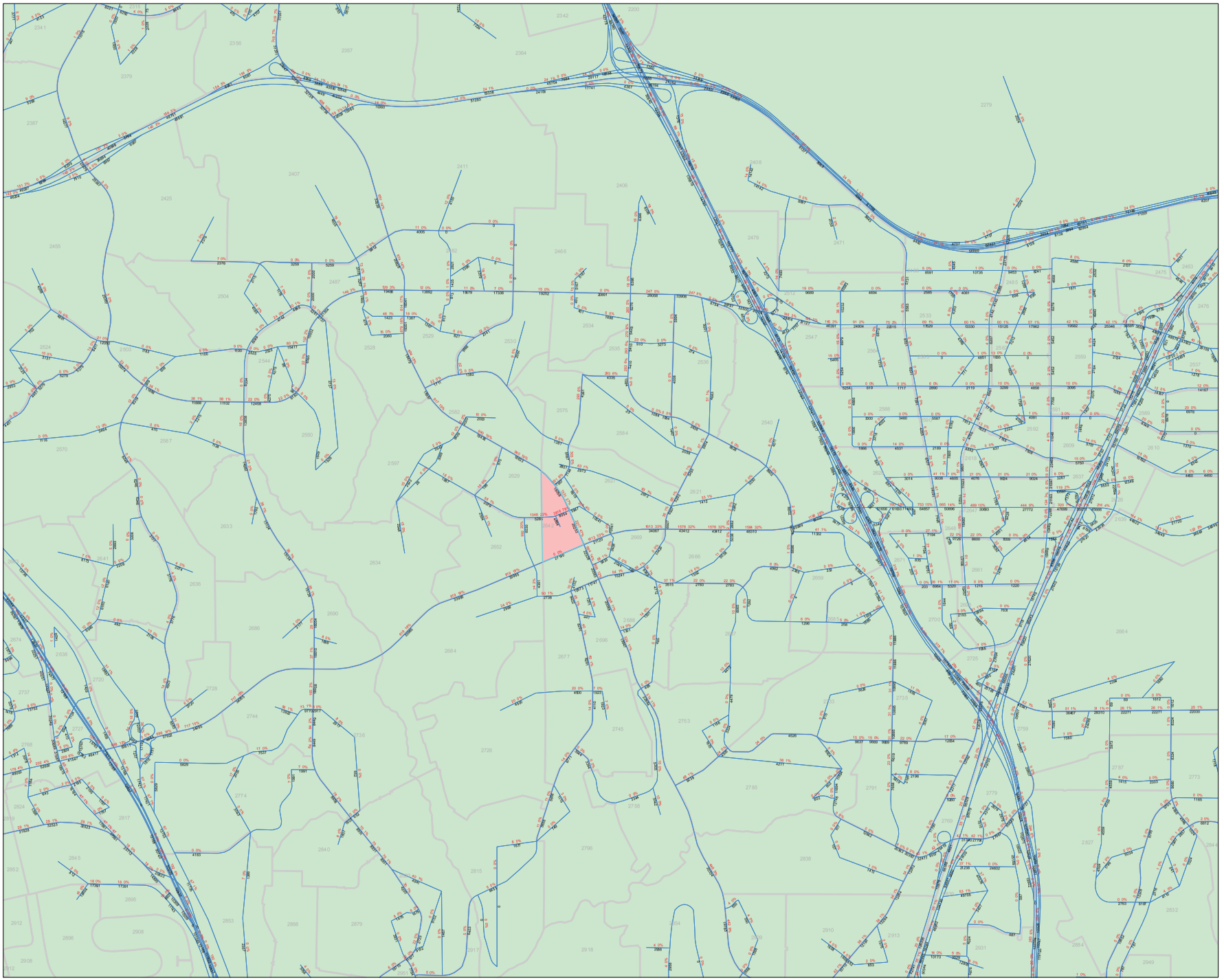
SANDAG
SR13
versiom13_3_2

KMC 2050rc Adopted
Follow Up Run

County Crime Lab
Affordable Housing

Select Zone Run

TAZ 2642



hwy_load_1029_join

hwy_load_1029

zones

Select Zone Vol and %

Model Estimated ADT

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N

0 0.08 0.16 0.24
Miles

SANDAG
servicebureau

Date: January 3, 2019

Appendix C
Existing Traffic Counts

Prepared by NDS/ATD

VOLUME

Genesee Ave Bet. Clairemont Mesa Blvd & Appleton St

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_001

DAILY TOTALS	NB	SB	EB	WB	Total
	12,214	10,883	0	0	23,097

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	11		14				25		12:00	162		148				310	
00:15	7		13				20		12:15	166		161				327	
00:30	7		15				22		12:30	191		160				351	
00:45	14	39	9	51			23	90	12:45	196	715	158	627			354	1342
01:00	9		8				17		13:00	168		180				348	
01:15	9		9				18		13:15	180		174				354	
01:30	5		13				18		13:30	207		166				373	
01:45	6	29	9	39			15	68	13:45	173	728	177	697			350	1425
02:00	6		7				13		14:00	181		191				372	
02:15	4		0				4		14:15	203		201				404	
02:30	2		1				3		14:30	207		256				463	
02:45	8	20	8	16			16	36	14:45	172	763	264	912			436	1675
03:00	9		7				16		15:00	192		263				455	
03:15	3		3				6		15:15	174		274				448	
03:30	9		6				15		15:30	139		284				423	
03:45	5	26	4	20			9	46	15:45	148	653	287	1108			435	1761
04:00	10		5				15		16:00	151		256				407	
04:15	18		1				19		16:15	149		265				414	
04:30	25		4				29		16:30	159		279				438	
04:45	27	80	5	15			32	95	16:45	149	608	275	1075			424	1683
05:00	30		13				43		17:00	133		264				397	
05:15	60		7				67		17:15	117		278				395	
05:30	74		18				92		17:30	127		271				398	
05:45	100	264	16	54			116	318	17:45	132	509	258	1071			390	1580
06:00	85		24				109		18:00	122		267				389	
06:15	154		27				181		18:15	144		236				380	
06:30	191		45				236		18:30	134		244				378	
06:45	300	730	62	158			362	888	18:45	124	524	222	969			346	1493
07:00	359		116				475		19:00	111		175				286	
07:15	372		135				507		19:15	119		143				262	
07:30	388		122				510		19:30	90		105				195	
07:45	404	1523	148	521			552	2044	19:45	97	417	84	507			181	924
08:00	396		112				508		20:00	84		101				185	
08:15	399		97				496		20:15	91		82				173	
08:30	389		109				498		20:30	92		86				178	
08:45	342	1526	130	448			472	1974	20:45	85	352	76	345			161	697
09:00	274		116				390		21:00	85		84				169	
09:15	219		109				328		21:15	76		85				161	
09:30	226		118				344		21:30	74		70				144	
09:45	184	903	154	497			338	1400	21:45	46	281	52	291			98	572
10:00	172		160				332		22:00	49		48				97	
10:15	145		138				283		22:15	36		48				84	
10:30	148		141				289		22:30	31		36				67	
10:45	145	610	142	581			287	1191	22:45	29	145	37	169			66	314
11:00	166		144				310		23:00	27		32				59	
11:15	173		176				349		23:15	16		15				31	
11:30	177		152				329		23:30	20		27				47	
11:45	177	693	142	614			319	1307	23:45	13	76	24	98			37	174
TOTALS		6443		3014				9457	TOTALS		5771		7869				13640
SPLIT %		68.1%		31.9%				40.9%	SPLIT %		42.3%		57.7%				59.1%

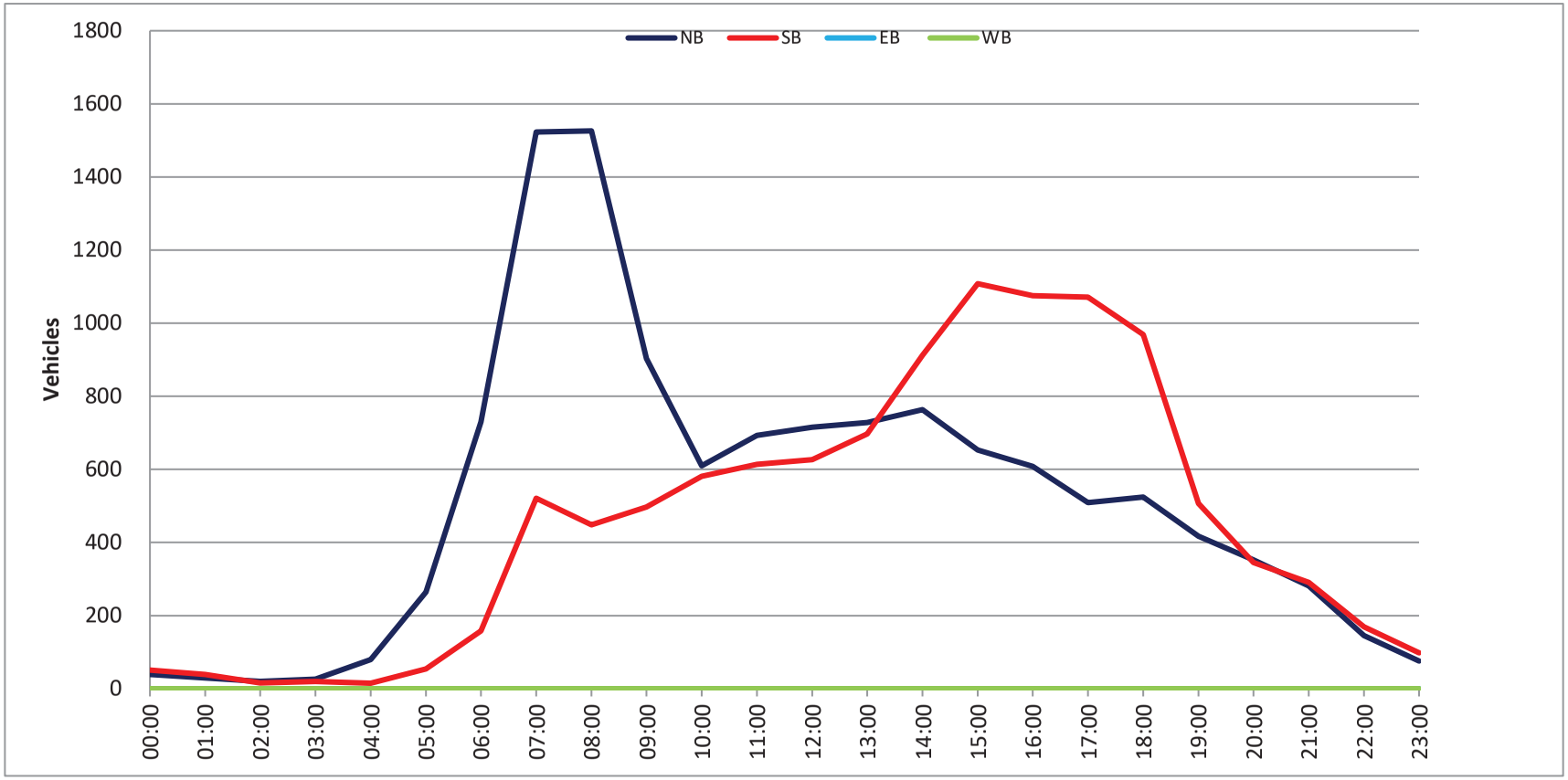
DAILY TOTALS	NB	SB	EB	WB	Total
	12,214	10,883	0	0	23,097

AM Peak Hour	07:45	11:15						07:15	PM Peak Hour	14:15	15:00						14:30
AM Pk Volume	1588	618						2077	PM Pk Volume	774	1108						1802
Pk Hr Factor	0.983	0.878						0.941	Pk Hr Factor	0.935	0.965						0.973
7 - 9 Volume	3049	969	0	0				4018	4 - 6 Volume	1117	2146	0	0				3263
7 - 9 Peak Hour	07:45	07:00						07:15	4 - 6 Peak Hour	16:00	16:30						16:00
7 - 9 Pk Volume	1588	521	0	0				2077	4 - 6 Pk Volume	608	1096	0	0				1683
Pk Hr Factor	0.983	0.880	0.000	0.000				0.941	Pk Hr Factor	0.956	0.982	0.000	0.000				0.961

Prepared by NDS/ATD

Project #: CA19_4037_001 **City:** Clairemont

Location: Genesee Ave Bet. Clairemont Mesa Blvd & **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Genesee Ave Bet. Clairemont Mesa Blvd & Bannock Ave

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_002

DAILY TOTALS	NB	SB	EB	WB	Total
	12,748	11,735	0	0	24,483

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	9		11				20		12:00	195		215				410	
00:15	10		12				22		12:15	198		181				379	
00:30	10		11				21		12:30	219		174				393	
00:45	10	39	10	44			20	83	12:45	221	833	198	768			419	1601
01:00	9		11				20		13:00	205		196				401	
01:15	7		9				16		13:15	210		205				415	
01:30	8		11				19		13:30	203		193				396	
01:45	5	29	7	38			12	67	13:45	207	825	189	783			396	1608
02:00	7		9				16		14:00	215		209				424	
02:15	7		2				9		14:15	207		206				413	
02:30	3		2				5		14:30	231		257				488	
02:45	7	24	3	16			10	40	14:45	219	872	240	912			459	1784
03:00	6		7				13		15:00	193		255				448	
03:15	2		5				7		15:15	212		249				461	
03:30	4		8				12		15:30	172		268				440	
03:45	5	17	3	23			8	40	15:45	197	774	299	1071			496	1845
04:00	7		2				9		16:00	212		286				498	
04:15	13		2				15		16:15	198		305				503	
04:30	21		6				27		16:30	211		320				531	
04:45	22	63	5	15			27	78	16:45	199	820	336	1247			535	2067
05:00	26		13				39		17:00	178		298				476	
05:15	34		12				46		17:15	185		310				495	
05:30	56		10				66		17:30	168		322				490	
05:45	75	191	23	58			98	249	17:45	181	712	288	1218			469	1930
06:00	78		24				102		18:00	169		290				459	
06:15	108		30				138		18:15	167		273				440	
06:30	165		36				201		18:30	157		209				366	
06:45	280	631	54	144			334	775	18:45	139	632	244	1016			383	1648
07:00	281		93				374		19:00	130		173				303	
07:15	267		150				417		19:15	150		159				309	
07:30	315		140				455		19:30	122		114				236	
07:45	271	1134	138	521			409	1655	19:45	101	503	121	567			222	1070
08:00	313		121				434		20:00	104		109				213	
08:15	304		121				425		20:15	95		75				170	
08:30	339		119				458		20:30	97		84				181	
08:45	299	1255	162	523			461	1778	20:45	87	383	83	351			170	734
09:00	250		142				392		21:00	88		92				180	
09:15	218		117				335		21:15	78		81				159	
09:30	252		147				399		21:30	78		64				142	
09:45	184	904	145	551			329	1455	21:45	58	302	65	302			123	604
10:00	188		161				349		22:00	43		50				93	
10:15	178		159				337		22:15	43		31				74	
10:30	202		154				356		22:30	33		33				66	
10:45	207	775	158	632			365	1407	22:45	32	151	34	148			66	299
11:00	207		166				373		23:00	24		26				50	
11:15	206		200				406		23:15	20		15				35	
11:30	198		164				362		23:30	17		22				39	
11:45	193	804	180	710			373	1514	23:45	14	75	14	77			28	152
TOTALS		5866		3275				9141	TOTALS		6882		8460				15342
SPLIT %		64.2%		35.8%				37.3%	SPLIT %		44.9%		55.1%				62.7%

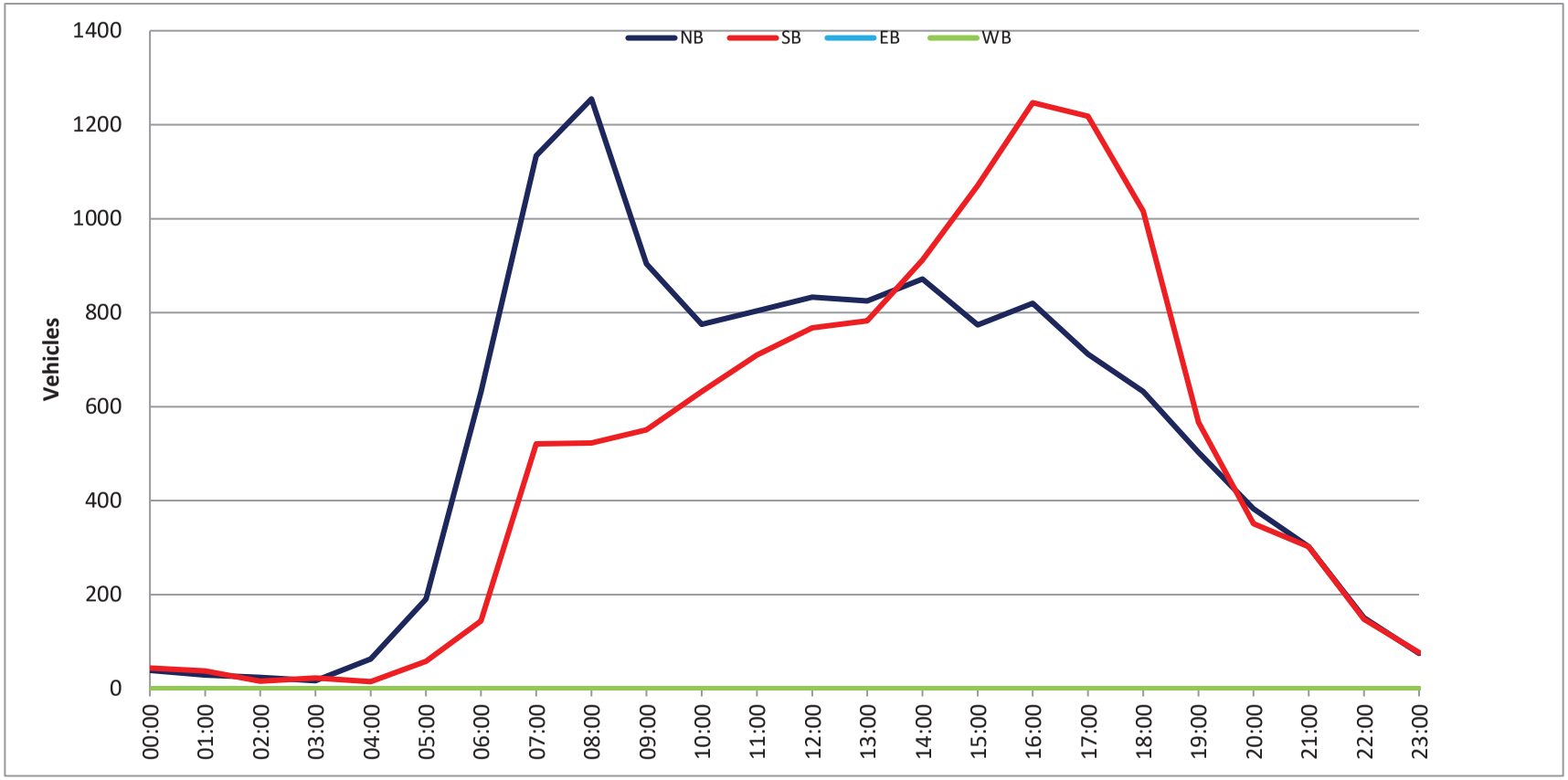
DAILY TOTALS	NB	SB	EB	WB	Total
	12,748	11,735	0	0	24,483

AM Peak Hour	08:00	11:15					08:00		PM Peak Hour	14:00	16:45					16:00		
AM Pk Volume	1255	759					1778		PM Pk Volume	872	1266					2067		
Pk Hr Factor	0.926	0.883					0.964		Pk Hr Factor	0.944	0.942					0.966		
7 - 9 Volume	2389	1044	0	0			3433		4 - 6 Volume	1532	2465	0	0			3997		
7 - 9 Peak Hour	08:00	07:15					08:00		4 - 6 Peak Hour	16:00	16:45					16:00		
7 - 9 Pk Volume	1255	549	0	0			1778		4 - 6 Pk Volume	820	1266	0	0			2067		
Pk Hr Factor	0.926	0.915	0.000	0.000			0.964		Pk Hr Factor	0.967	0.942	0.000	0.000			0.966		

Prepared by NDS/ATD

Project #: CA19_4037_002 **City:** Clairemont

Location: Genesee Ave Bet. Clairemont Mesa Blvd & **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Genesee Ave Bet. Bannock Ave & Chateau Dr

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_003

DAILY TOTALS	NB	SB	EB	WB	Total
	12,894	12,350	0	0	25,244

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	10		13				23		12:00	198		220				418	
00:15	11		11				22		12:15	204		195				399	
00:30	9		11				20		12:30	209		190				399	
00:45	10	40	10	45			20	85	12:45	225	836	204	809			429	1645
01:00	8		11				19		13:00	211		206				417	
01:15	7		9				16		13:15	217		208				425	
01:30	10		10				20		13:30	203		190				393	
01:45	5	30	7	37			12	67	13:45	221	852	189	793			410	1645
02:00	7		8				15		14:00	223		210				433	
02:15	7		2				9		14:15	203		222				425	
02:30	3		3				6		14:30	225		263				488	
02:45	8	25	2	15			10	40	14:45	215	866	252	947			467	1813
03:00	6		7				13		15:00	192		275				467	
03:15	2		5				7		15:15	210		262				472	
03:30	3		7				10		15:30	179		292				471	
03:45	4	15	5	24			9	39	15:45	217	798	313	1142			530	1940
04:00	9		2				11		16:00	205		298				503	
04:15	10		0				10		16:15	211		321				532	
04:30	21		7				28		16:30	209		322				531	
04:45	19	59	4	13			23	72	16:45	216	841	342	1283			558	2124
05:00	23		14				37		17:00	187		332				519	
05:15	34		14				48		17:15	195		338				533	
05:30	48		11				59		17:30	189		329				518	
05:45	67	172	27	66			94	238	17:45	181	752	309	1308			490	2060
06:00	75		27				102		18:00	160		314				474	
06:15	108		29				137		18:15	187		283				470	
06:30	159		40				199		18:30	152		229				381	
06:45	284	626	62	158			346	784	18:45	143	642	248	1074			391	1716
07:00	288		97				385		19:00	136		198				334	
07:15	248		155				403		19:15	144		153				297	
07:30	376		156				532		19:30	130		121				251	
07:45	269	1181	160	568			429	1749	19:45	112	522	128	600			240	1122
08:00	289		135				424		20:00	104		110				214	
08:15	305		130				435		20:15	104		85				189	
08:30	304		134				438		20:30	97		91				188	
08:45	297	1195	162	561			459	1756	20:45	96	401	85	371			181	772
09:00	254		151				405		21:00	90		96				186	
09:15	223		123				346		21:15	74		80				154	
09:30	249		154				403		21:30	74		70				144	
09:45	200	926	153	581			353	1507	21:45	60	298	66	312			126	610
10:00	186		164				350		22:00	43		51				94	
10:15	174		175				349		22:15	43		34				77	
10:30	208		155				363		22:30	36		30				66	
10:45	204	772	175	669			379	1441	22:45	38	160	32	147			70	307
11:00	209		175				384		23:00	25		25				50	
11:15	203		199				402		23:15	19		20				39	
11:30	196		181				377		23:30	20		24				44	
11:45	199	807	189	744			388	1551	23:45	14	78	14	83			28	161
TOTALS		5848		3481				9329	TOTALS		7046		8869				15915
SPLIT %		62.7%		37.3%				37.0%	SPLIT %		44.3%		55.7%				63.0%

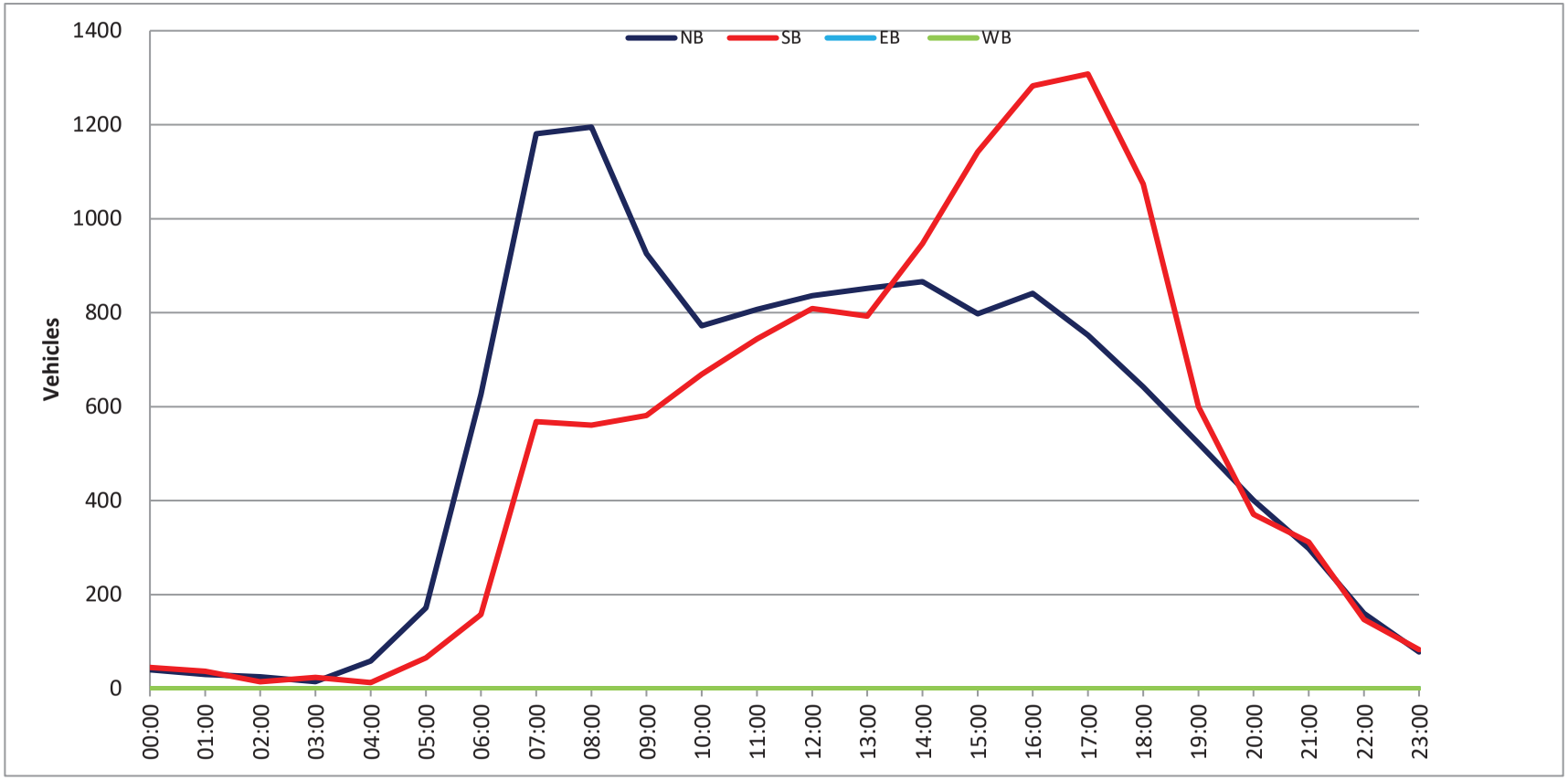
DAILY TOTALS	NB	SB	EB	WB	Total
	12,894	12,350	0	0	25,244

AM Peak Hour	07:30	11:45					07:30		PM Peak Hour	13:45	16:45					16:30		
AM Pk Volume	1239	794					1820		PM Pk Volume	872	1341					2141		
Pk Hr Factor	0.824	0.902					0.855		Pk Hr Factor	0.969	0.980					0.959		
7 - 9 Volume	2376	1129	0	0			3505		4 - 6 Volume	1593	2591	0	0			4184		
7 - 9 Peak Hour	07:30	07:15					07:30		4 - 6 Peak Hour	16:00	16:45					16:30		
7 - 9 Pk Volume	1239	606	0	0			1820		4 - 6 Pk Volume	841	1341	0	0			2141		
Pk Hr Factor	0.824	0.947	0.000	0.000			0.855		Pk Hr Factor	0.973	0.980	0.000	0.000			0.959		

Prepared by NDS/ATD

Project #: CA19_4037_003 **City:** Clairemont

Location: Genesee Ave Bet. Bannock Ave & Chateau **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Genesee Ave Bet. Chateau Dr & Mt Herbert Ave

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_004

DAILY TOTALS	NB	SB	EB	WB	Total
	12,700	12,258	0	0	24,958

AM Period	NB		SB		EB		WB		TOTAL	
00:00	8		14						22	
00:15	11		12						23	
00:30	9		12						21	
00:45	9	37	9	47					18	84
01:00	8		10						18	
01:15	7		9						16	
01:30	10		11						21	
01:45	4	29	5	35					9	64
02:00	7		7						14	
02:15	7		2						9	
02:30	3		2						5	
02:45	8	25	2	13					10	38
03:00	6		7						13	
03:15	3		6						9	
03:30	3		8						11	
03:45	4	16	6	27					10	43
04:00	9		3						12	
04:15	10		0						10	
04:30	18		7						25	
04:45	18	55	5	15					23	70
05:00	22		14						36	
05:15	30		16						46	
05:30	45		13						58	
05:45	65	162	28	71					93	233
06:00	72		27						99	
06:15	100		27						127	
06:30	154		43						197	
06:45	263	589	68	165					331	754
07:00	272		93						365	
07:15	227		155						382	
07:30	382		153						535	
07:45	247	1128	179	580					426	1708
08:00	283		136						419	
08:15	306		133						439	
08:30	291		138						429	
08:45	292	1172	157	564					449	1736
09:00	244		148						392	
09:15	221		133						354	
09:30	233		161						394	
09:45	199	897	148	590					347	1487
10:00	179		165						344	
10:15	172		174						346	
10:30	204		153						357	
10:45	206	761	174	666					380	1427
11:00	199		180						379	
11:15	208		203						411	
11:30	196		178						374	
11:45	197	800	190	751					387	1551
TOTALS		5671		3524						9195
SPLIT %		61.7%		38.3%						36.8%

PM Period	NB		SB		EB		WB		TOTAL	
12:00	186		213						399	
12:15	211		179						390	
12:30	205		198						403	
12:45	231	833	200	790					431	1623
13:00	211		196						407	
13:15	203		197						400	
13:30	196		199						395	
13:45	222	832	182	774					404	1606
14:00	213		222						435	
14:15	199		220						419	
14:30	231		249						480	
14:45	216	859	241	932					457	1791
15:00	211		280						491	
15:15	192		260						452	
15:30	187		299						486	
15:45	209	799	296	1135					505	1934
16:00	207		291						498	
16:15	201		325						526	
16:30	208		310						518	
16:45	223	839	341	1267					564	2106
17:00	178		329						507	
17:15	205		328						533	
17:30	182		326						508	
17:45	186	751	311	1294					497	2045
18:00	163		313						476	
18:15	191		284						475	
18:30	145		219						364	
18:45	147	646	243	1059					390	1705
19:00	144		204						348	
19:15	138		148						286	
19:30	125		121						246	
19:45	117	524	117	590					234	1114
20:00	98		117						215	
20:15	107		82						189	
20:30	99		86						185	
20:45	92	396	87	372					179	768
21:00	89		89						178	
21:15	78		79						157	
21:30	78		69						147	
21:45	58	303	66	303					124	606
22:00	46		48						94	
22:15	45		32						77	
22:30	36		28						64	
22:45	41	168	29	137					70	305
23:00	28		25						53	
23:15	21		20						41	
23:30	17		22						39	
23:45	13	79	14	81					27	160
TOTALS		7029		8734						15763
SPLIT %		44.6%		55.4%						63.2%

DAILY TOTALS	NB	SB	EB	WB	Total
	12,700	12,258	0	0	24,958

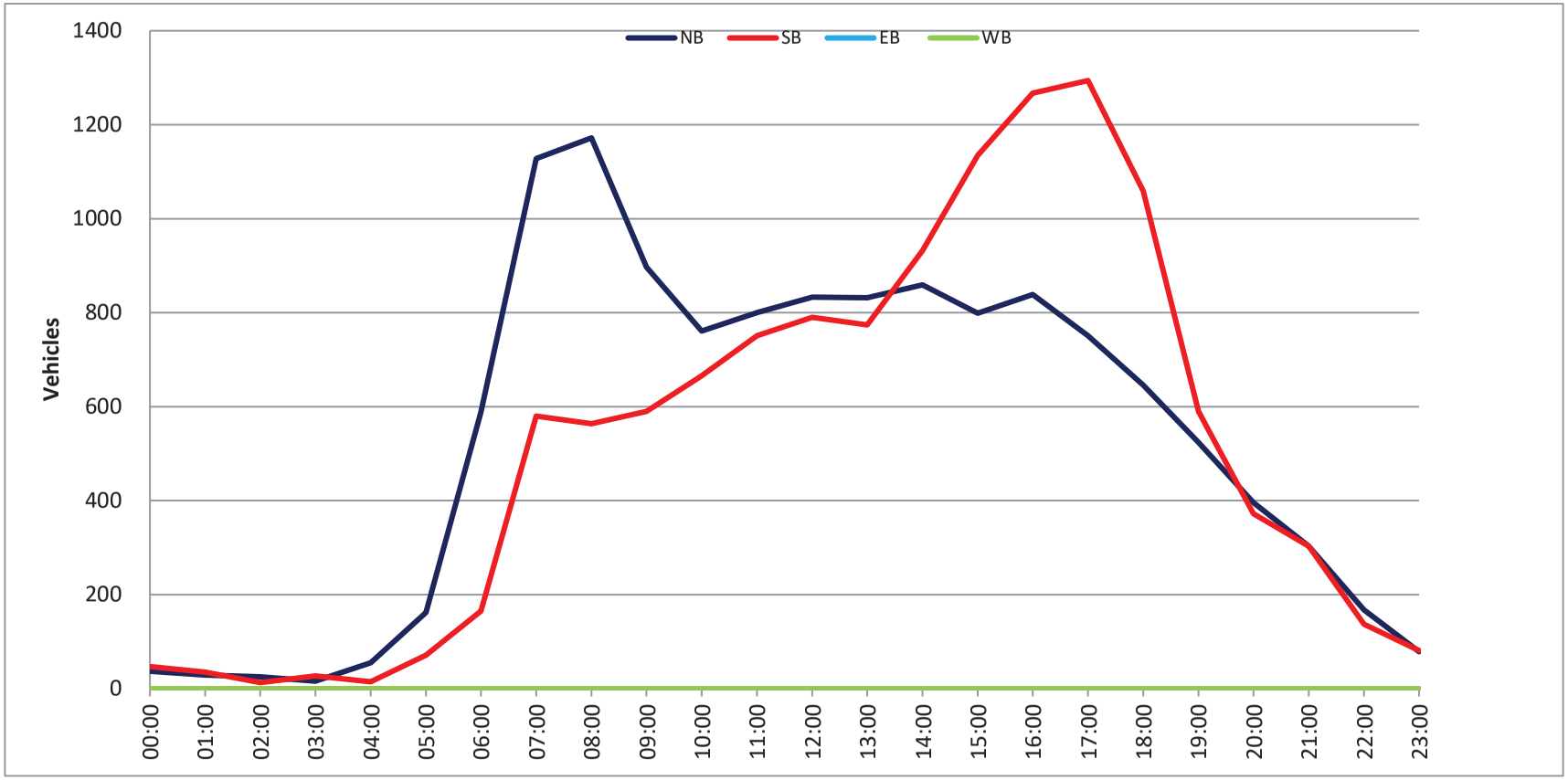
AM Peak Hour	07:30	11:15			07:30
AM Pk Volume	1218	784			1819
Pk Hr Factor	0.797	0.920			0.850
7 - 9 Volume	2300	1144	0	0	3444
7 - 9 Peak Hour	07:30	07:15			07:30
7 - 9 Pk Volume	1218	623	0	0	1819
Pk Hr Factor	0.797	0.870	0.000	0.000	0.850

PM Peak Hour	13:45	16:45			16:30
PM Pk Volume	865	1324			2122
Pk Hr Factor	0.936	0.971			0.941
4 - 6 Volume	1590	2561	0	0	4151
4 - 6 Peak Hour	16:00	16:45			16:30
4 - 6 Pk Volume	839	1324	0	0	2122
Pk Hr Factor	0.941	0.971	0.000	0.000	0.941

Prepared by NDS/ATD

Project #: CA19_4037_004 **City:** Clairemont

Location: Genesee Ave Bet. Chateau Dr & Mt Herbert **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Genesee Ave Bet. Mt Herbert Ave & Derrick Dr

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_005

DAILY TOTALS	NB	SB	EB	WB	Total
	11,713	11,529	0	0	23,242

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	6		13				19		12:00	192		200				392	
00:15	13		12				25		12:15	203		171				374	
00:30	8		13				21		12:30	213		190				403	
00:45	9	36	9	47			18	83	12:45	198	806	193	754			391	1560
01:00	8		7				15		13:00	201		179				380	
01:15	9		8				17		13:15	183		197				380	
01:30	11		11				22		13:30	196		184				380	
01:45	5	33	8	34			13	67	13:45	195	775	181	741			376	1516
02:00	5		5				10		14:00	210		204				414	
02:15	7		2				9		14:15	198		213				411	
02:30	2		1				3		14:30	203		229				432	
02:45	7	21	1	9			8	30	14:45	201	812	246	892			447	1704
03:00	7		7				14		15:00	194		243				437	
03:15	3		5				8		15:15	185		245				430	
03:30	3		5				8		15:30	198		237				435	
03:45	4	17	9	26			13	43	15:45	193	770	277	1002			470	1772
04:00	5		2				7		16:00	219		289				508	
04:15	7		2				9		16:15	188		293				481	
04:30	17		5				22		16:30	204		285				489	
04:45	12	41	7	16			19	57	16:45	211	822	312	1179			523	2001
05:00	21		13				34		17:00	177		282				459	
05:15	26		20				46		17:15	187		275				462	
05:30	31		16				47		17:30	180		297				477	
05:45	44	122	31	80			75	202	17:45	169	713	252	1106			421	1819
06:00	46		30				76		18:00	152		277				429	
06:15	86		35				121		18:15	194		265				459	
06:30	122		53				175		18:30	148		205				353	
06:45	232	486	72	190			304	676	18:45	163	657	207	954			370	1611
07:00	190		115				305		19:00	138		176				314	
07:15	208		147				355		19:15	154		131				285	
07:30	280		151				431		19:30	121		100				221	
07:45	221	899	179	592			400	1491	19:45	112	525	114	521			226	1046
08:00	248		144				392		20:00	108		114				222	
08:15	239		131				370		20:15	103		71				174	
08:30	276		141				417		20:30	104		84				188	
08:45	245	1008	150	566			395	1574	20:45	89	404	102	371			191	775
09:00	212		149				361		21:00	85		72				157	
09:15	189		133				322		21:15	78		81				159	
09:30	204		154				358		21:30	73		68				141	
09:45	168	773	144	580			312	1353	21:45	53	289	54	275			107	564
10:00	168		158				326		22:00	48		56				104	
10:15	157		165				322		22:15	42		33				75	
10:30	180		164				344		22:30	37		22				59	
10:45	183	688	149	636			332	1324	22:45	39	166	26	137			65	303
11:00	192		183				375		23:00	29		19				48	
11:15	201		198				399		23:15	28		22				50	
11:30	175		180				355		23:30	16		20				36	
11:45	198	766	186	747			384	1513	23:45	11	84	13	74			24	158
TOTALS		4890		3523				8413	TOTALS		6823		8006				14829
SPLIT %		58.1%		41.9%				36.2%	SPLIT %		46.0%		54.0%				63.8%

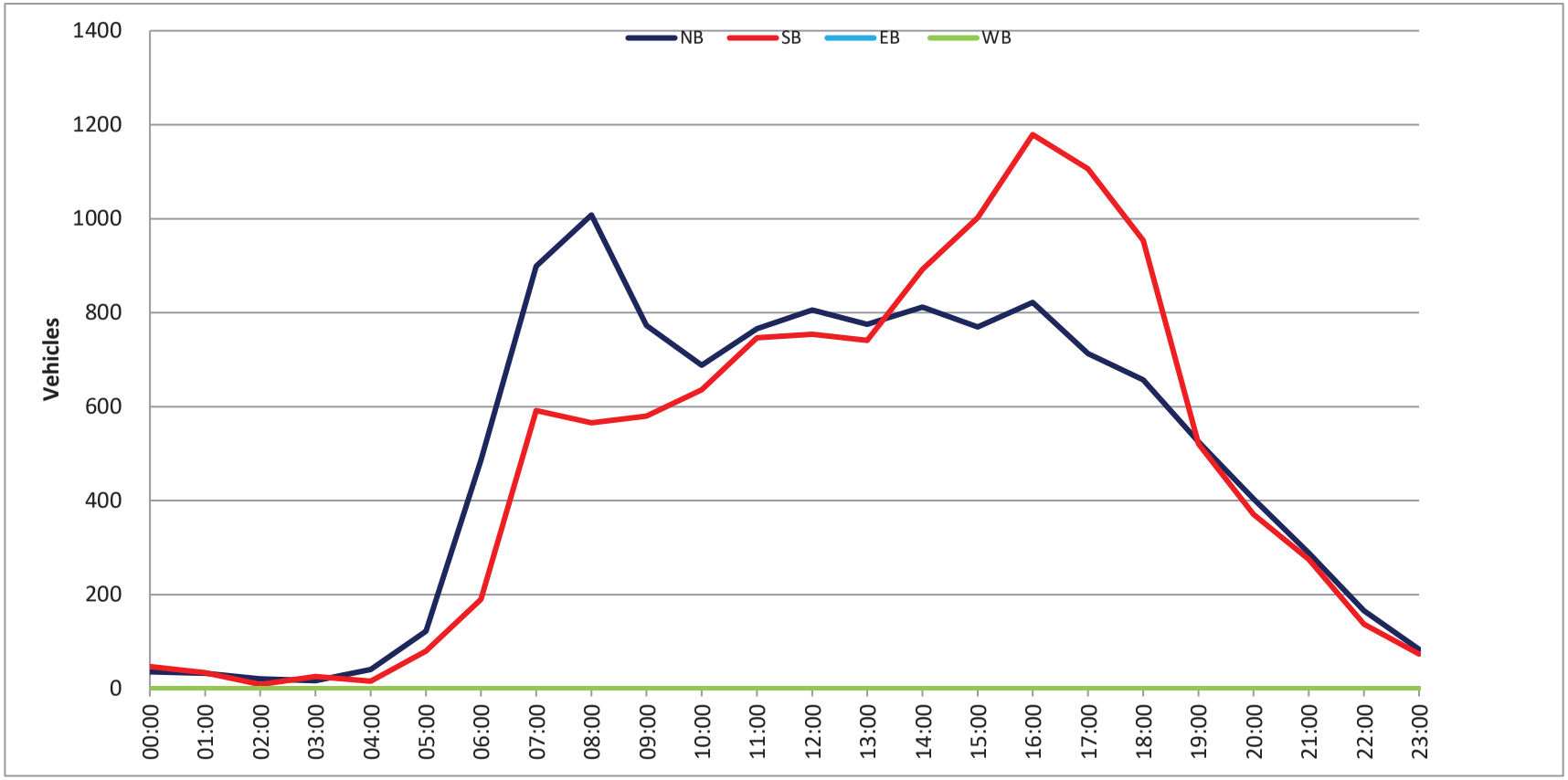
DAILY TOTALS	NB	SB	EB	WB	Total
	11,713	11,529	0	0	23,242

AM Peak Hour	08:00	11:15					07:30		PM Peak Hour	16:00	16:00					16:00		
AM Pk Volume	1008	764					1593		PM Pk Volume	822	1179					2001		
Pk Hr Factor	0.913	0.955					0.924		Pk Hr Factor	0.938	0.945					0.957		
7 - 9 Volume	1907	1158	0	0			3065		4 - 6 Volume	1535	2285	0	0			3820		
7 - 9 Peak Hour	08:00	07:15					07:30		4 - 6 Peak Hour	16:00	16:00					16:00		
7 - 9 Pk Volume	1008	621	0	0			1593		4 - 6 Pk Volume	822	1179	0	0			2001		
Pk Hr Factor	0.913	0.867	0.000	0.000			0.924		Pk Hr Factor	0.938	0.945	0.000	0.000			0.957		

Prepared by NDS/ATD

Project #: CA19_4037_005 **City:** Clairemont

Location: Genesee Ave Bet. Mt Herbert Ave & Derrick **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Genesee Ave Bet. Derrick Dr & Mt Etna Dr

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_006

DAILY TOTALS	NB	SB	EB	WB	Total
	13,794	11,851	0	0	25,645

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	23		20				43		12:00	262		227				489	
00:15	25		11				36		12:15	214		241				455	
00:30	16		6				22		12:30	231		194				425	
00:45	13	77	12	49			25	126	12:45	282	989	200	862			482	1851
01:00	15		10				25		13:00	235		184				419	
01:15	14		11				25		13:15	225		208				433	
01:30	8		5				13		13:30	235		201				436	
01:45	11	48	4	30			15	78	13:45	215	910	218	811			433	1721
02:00	13		8				21		14:00	219		210				429	
02:15	4		2				6		14:15	229		201				430	
02:30	2		0				2		14:30	228		187				415	
02:45	7	26	3	13			10	39	14:45	227	903	230	828			457	1731
03:00	3		2				5		15:00	243		224				467	
03:15	4		6				10		15:15	234		266				500	
03:30	8		4				12		15:30	250		270				520	
03:45	10	25	7	19			17	44	15:45	258	985	317	1077			575	2062
04:00	11		9				20		16:00	232		315				547	
04:15	6		1				7		16:15	231		295				526	
04:30	12		15				27		16:30	227		315				542	
04:45	17	46	15	40			32	86	16:45	200	890	295	1220			495	2110
05:00	17		16				33		17:00	219		305				524	
05:15	23		16				39		17:15	220		303				523	
05:30	36		28				64		17:30	225		287				512	
05:45	44	120	28	88			72	208	17:45	221	885	269	1164			490	2049
06:00	62		42				104		18:00	206		264				470	
06:15	89		42				131		18:15	196		261				457	
06:30	120		47				167		18:30	191		223				414	
06:45	163	434	86	217			249	651	18:45	188	781	186	934			374	1715
07:00	193		78				271		19:00	198		145				343	
07:15	234		101				335		19:15	175		129				304	
07:30	295		167				462		19:30	137		122				259	
07:45	250	972	170	516			420	1488	19:45	113	623	108	504			221	1127
08:00	278		161				439		20:00	119		95				214	
08:15	307		155				462		20:15	116		98				214	
08:30	330		159				489		20:30	132		87				219	
08:45	278	1193	170	645			448	1838	20:45	125	492	109	389			234	881
09:00	232		161				393		21:00	121		83				204	
09:15	238		129				367		21:15	101		82				183	
09:30	259		135				394		21:30	87		36				123	
09:45	243	972	155	580			398	1552	21:45	73	382	52	253			125	635
10:00	186		145				331		22:00	66		39				105	
10:15	201		185				386		22:15	57		40				97	
10:30	197		163				360		22:30	43		41				84	
10:45	229	813	183	676			412	1489	22:45	40	206	22	142			62	348
11:00	203		188				391		23:00	23		19				42	
11:15	255		167				422		23:15	24		16				40	
11:30	228		169				397		23:30	14		14				28	
11:45	252	938	207	731			459	1669	23:45	23	84	14	63			37	147
TOTALS		5664		3604				9268	TOTALS		8130		8247				16377
SPLIT %		61.1%		38.9%				36.1%	SPLIT %		49.6%		50.4%				63.9%

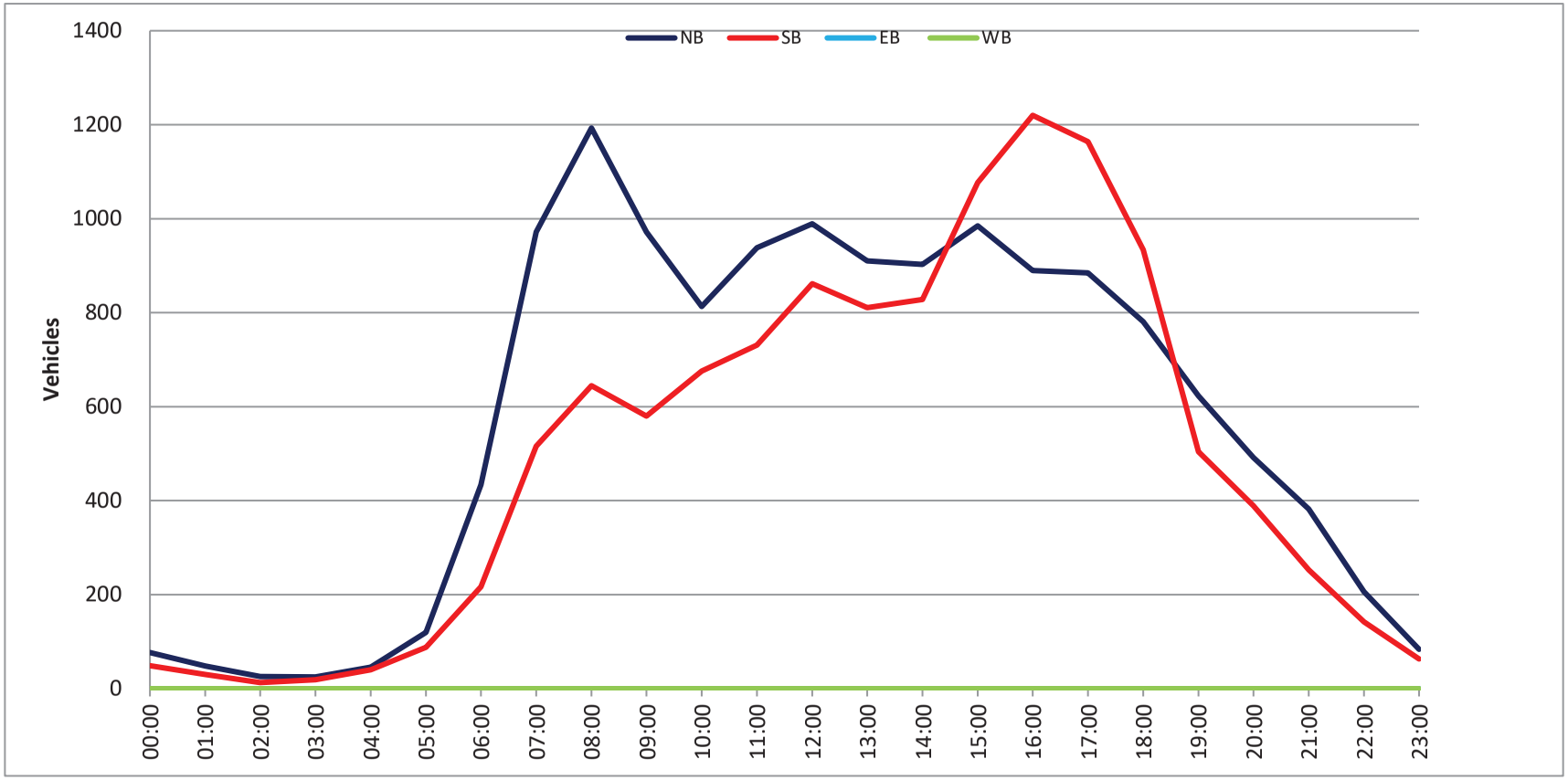
DAILY TOTALS	NB	SB	EB	WB	Total
	13,794	11,851	0	0	25,645

AM Peak Hour	08:00	11:45					08:00		PM Peak Hour	12:00	15:45					15:45		
AM Pk Volume	1193	869					1838		PM Pk Volume	989	1242					2190		
Pk Hr Factor	0.904	0.901					0.940		Pk Hr Factor	0.877	0.979					0.952		
7 - 9 Volume	2165	1161	0	0			3326		4 - 6 Volume	1775	2384	0	0			4159		
7 - 9 Peak Hour	08:00	07:30					08:00		4 - 6 Peak Hour	16:00	16:00					16:00		
7 - 9 Pk Volume	1193	653	0	0			1838		4 - 6 Pk Volume	890	1220	0	0			2110		
Pk Hr Factor	0.904	0.960	0.000	0.000			0.940		Pk Hr Factor	0.959	0.968	0.000	0.000			0.964		

Prepared by NDS/ATD

Project #: CA19_4037_006 **City:** Clairemont

Location: Genesee Ave Bet. Derrick Dr & Mt Etna Dr **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Genesee Ave Bet. Mt Etna Dr & Balboa Ave

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_007

DAILY TOTALS	NB	SB	EB	WB	Total
	14,638	13,105	0	0	27,743

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	23		16				39		12:00	256		253				509	
00:15	18		15				33		12:15	257		289				546	
00:30	16		9				25		12:30	252		247				499	
00:45	12	69	15	55			27	124	12:45	289	1054	232	1021			521	2075
01:00	16		8				24		13:00	272		234				506	
01:15	14		11				25		13:15	259		267				526	
01:30	16		12				28		13:30	265		255				520	
01:45	10	56	8	39			18	95	13:45	256	1052	248	1004			504	2056
02:00	7		9				16		14:00	221		257				478	
02:15	5		1				6		14:15	248		229				477	
02:30	4		3				7		14:30	253		244				497	
02:45	8	24	4	17			12	41	14:45	262	984	279	1009			541	1993
03:00	3		2				5		15:00	277		273				550	
03:15	6		6				12		15:15	255		302				557	
03:30	11		4				15		15:30	252		293				545	
03:45	10	30	7	19			17	49	15:45	276	1060	331	1199			607	2259
04:00	9		12				21		16:00	256		337				593	
04:15	7		1				8		16:15	243		227				470	
04:30	12		20				32		16:30	204		222				426	
04:45	19	47	15	48			34	95	16:45	226	929	216	1002			442	1931
05:00	20		21				41		17:00	221		206				427	
05:15	28		24				52		17:15	237		250				487	
05:30	36		28				64		17:30	232		217				449	
05:45	49	133	32	105			81	238	17:45	243	933	274	947			517	1880
06:00	65		43				108		18:00	207		289				496	
06:15	96		66				162		18:15	191		284				475	
06:30	129		53				182		18:30	204		260				464	
06:45	178	468	100	262			278	730	18:45	177	779	210	1043			387	1822
07:00	205		93				298		19:00	207		191				398	
07:15	259		132				391		19:15	171		159				330	
07:30	303		167				470		19:30	131		157				288	
07:45	265	1032	200	592			465	1624	19:45	120	629	137	644			257	1273
08:00	280		190				470		20:00	99		117				216	
08:15	326		184				510		20:15	114		107				221	
08:30	350		164				514		20:30	130		99				229	
08:45	298	1254	179	717			477	1971	20:45	110	453	115	438			225	891
09:00	265		182				447		21:00	106		110				216	
09:15	261		181				442		21:15	87		108				195	
09:30	281		168				449		21:30	78		45				123	
09:45	263	1070	169	700			432	1770	21:45	69	340	60	323			129	663
10:00	210		182				392		22:00	61		41				102	
10:15	211		192				403		22:15	51		42				93	
10:30	216		197				413		22:30	41		48				89	
10:45	279	916	222	793			501	1709	22:45	33	186	33	164			66	350
11:00	243		226				469		23:00	22		22				44	
11:15	259		205				464		23:15	21		19				40	
11:30	256		213				469		23:30	14		17				31	
11:45	292	1050	247	891			539	1941	23:45	33	90	15	73			48	163
TOTALS		6149		4238				10387	TOTALS		8489		8867				17356
SPLIT %		59.2%		40.8%				37.4%	SPLIT %		48.9%		51.1%				62.6%

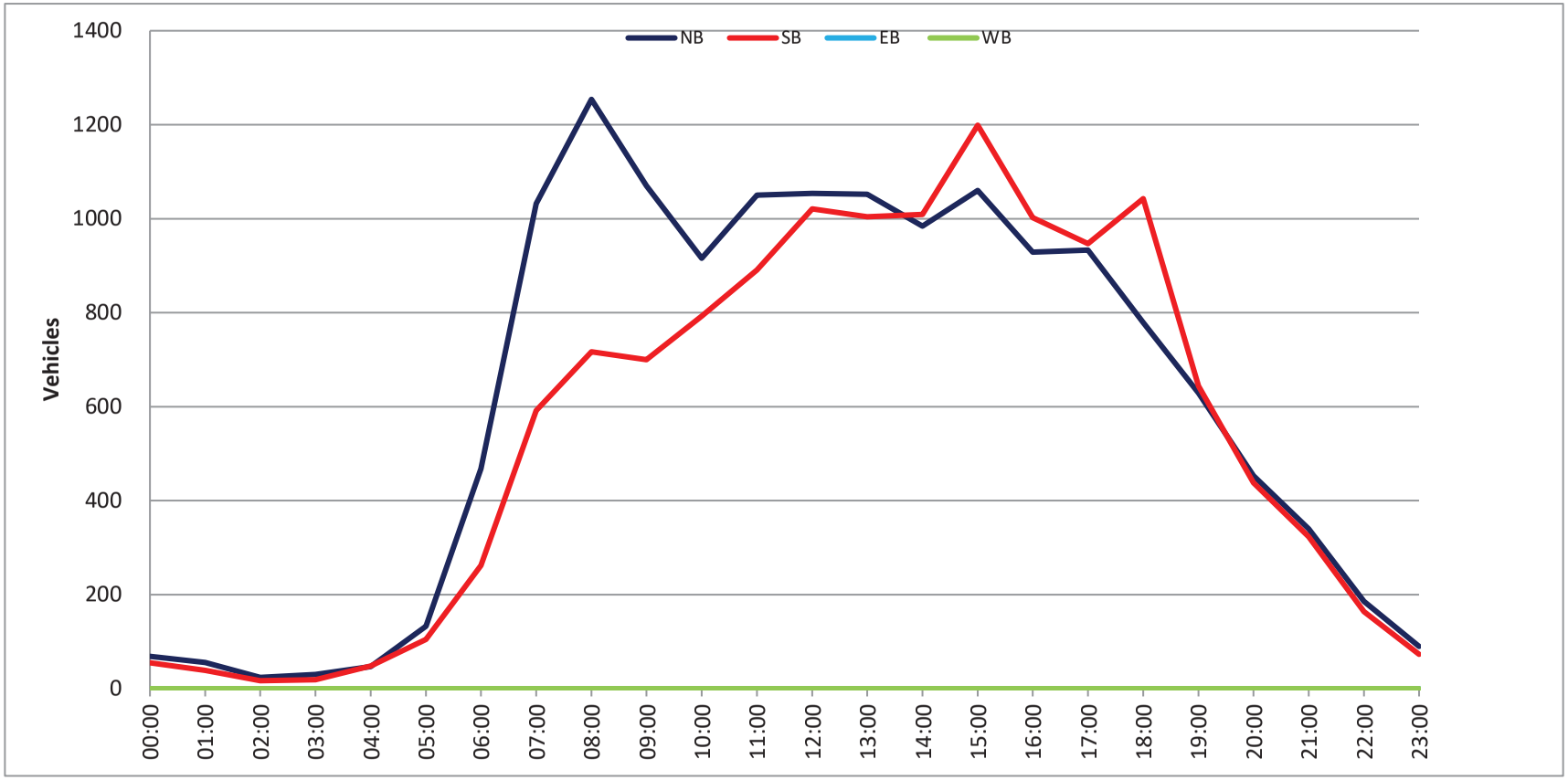
DAILY TOTALS	NB	SB	EB	WB	Total
	14,638	13,105	0	0	27,743

AM Peak Hour	08:00	11:45						11:45	PM Peak Hour	12:45	15:15							15:15
AM Pk Volume	1254	1036						2093	PM Pk Volume	1085	1263							2302
Pk Hr Factor	0.896	0.896						0.958	Pk Hr Factor	0.939	0.937							0.948
7 - 9 Volume	2286	1309	0	0				3595	4 - 6 Volume	1862	1949	0	0					3811
7 - 9 Peak Hour	08:00	07:30						08:00	4 - 6 Peak Hour	17:00	16:00							16:00
7 - 9 Pk Volume	1254	741	0	0				1971	4 - 6 Pk Volume	933	1002	0	0					1931
Pk Hr Factor	0.896	0.926	0.000	0.000				0.959	Pk Hr Factor	0.960	0.743	0.000	0.000					0.814

Prepared by NDS/ATD

Project #: CA19_4037_007 **City:** Clairemont

Location: Genesee Ave Bet. Mt Etna Dr & Balboa Ave **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Genesee Ave Bet. Balboa Ave & Mt Alifan Dr

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_008

DAILY TOTALS	NB	SB	EB	WB	Total
	11,494	11,765	0	0	23,259

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	6		20				26		12:00	187		189				376	
00:15	9		16				25		12:15	172		198				370	
00:30	6		10				16		12:30	218		190				408	
00:45	8	29	10	56			18	85	12:45	262	839	193	770			455	1609
01:00	7		12				19		13:00	201		155				356	
01:15	10		7				17		13:15	162		188				350	
01:30	5		5				10		13:30	167		179				346	
01:45	5	27	5	29			10	56	13:45	206	736	204	726			410	1462
02:00	1		7				8		14:00	180		207				387	
02:15	0		2				2		14:15	232		199				431	
02:30	1		3				4		14:30	219		227				446	
02:45	6	8	5	17			11	25	14:45	199	830	230	863			429	1693
03:00	6		6				12		15:00	207		278				485	
03:15	4		1				5		15:15	211		258				469	
03:30	5		5				10		15:30	208		270				478	
03:45	4	19	4	16			8	35	15:45	240	866	289	1095			529	1961
04:00	2		5				7		16:00	234		289				523	
04:15	8		1				9		16:15	189		281				470	
04:30	7		9				16		16:30	176		288				464	
04:45	9	26	10	25			19	51	16:45	179	778	259	1117			438	1895
05:00	21		9				30		17:00	188		278				466	
05:15	12		14				26		17:15	214		298				512	
05:30	40		14				54		17:30	185		284				469	
05:45	44	117	24	61			68	178	17:45	180	767	290	1150			470	1917
06:00	36		33				69		18:00	162		284				446	
06:15	70		48				118		18:15	177		283				460	
06:30	118		59				177		18:30	150		278				428	
06:45	197	421	91	231			288	652	18:45	137	626	183	1028			320	1654
07:00	199		83				282		19:00	137		187				324	
07:15	229		150				379		19:15	101		167				268	
07:30	280		172				452		19:30	92		140				232	
07:45	241	949	157	562			398	1511	19:45	97	427	123	617			220	1044
08:00	233		192				425		20:00	71		118				189	
08:15	280		190				470		20:15	66		99				165	
08:30	305		145				450		20:30	85		80				165	
08:45	248	1066	181	708			429	1774	20:45	93	315	96	393			189	708
09:00	204		168				372		21:00	92		108				200	
09:15	180		156				336		21:15	95		90				185	
09:30	245		120				365		21:30	59		59				118	
09:45	188	817	116	560			304	1377	21:45	43	289	46	303			89	592
10:00	129		121				250		22:00	45		54				99	
10:15	120		144				264		22:15	40		51				91	
10:30	140		143				283		22:30	16		49				65	
10:45	178	567	166	574			344	1141	22:45	18	119	43	197			61	316
11:00	182		146				328		23:00	15		31				46	
11:15	225		129				354		23:15	13		24				37	
11:30	195		151				346		23:30	11		17				28	
11:45	211	813	154	580			365	1393	23:45	4	43	15	87			19	130
TOTALS		4859		3419				8278	TOTALS		6635		8346				14981
SPLIT %		58.7%		41.3%				35.6%	SPLIT %		44.3%		55.7%				64.4%

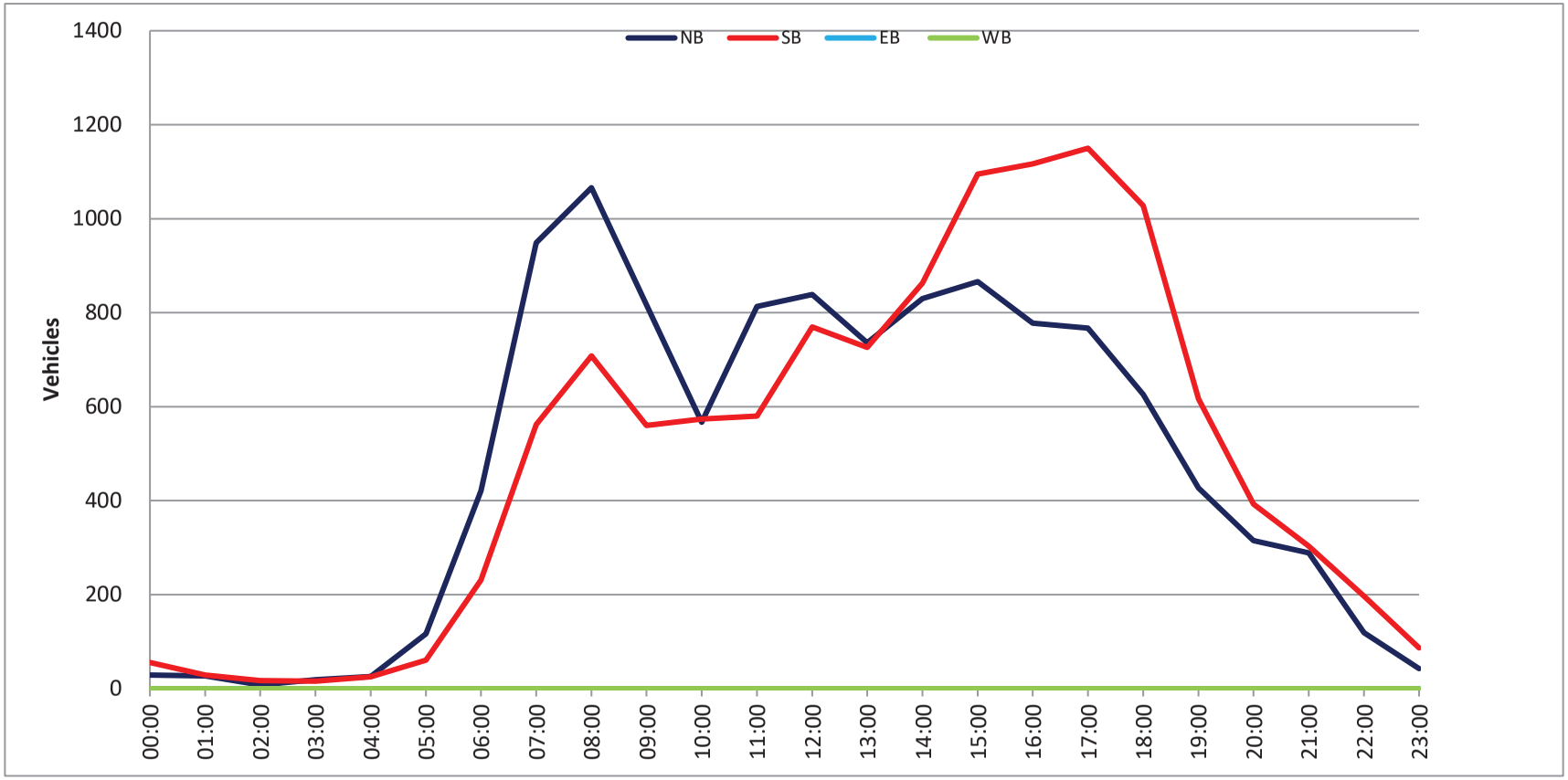
DAILY TOTALS	NB	SB	EB	WB	Total
	11,494	11,765	0	0	23,259

AM Peak Hour	08:00	11:45					08:00	PM Peak Hour	15:15	17:15					15:30
AM Pk Volume	1066	731					1774	PM Pk Volume	893	1156					2000
Pk Hr Factor	0.874	0.923					0.944	Pk Hr Factor	0.930	0.970					0.945
7 - 9 Volume	2015	1270	0	0			3285	4 - 6 Volume	1545	2267	0	0			3812
7 - 9 Peak Hour	08:00	07:30					08:00	4 - 6 Peak Hour	16:00	17:00					17:00
7 - 9 Pk Volume	1066	711	0	0			1774	4 - 6 Pk Volume	778	1150	0	0			1917
Pk Hr Factor	0.874	0.926	0.000	0.000			0.944	Pk Hr Factor	0.831	0.965	0.000	0.000			0.936

Prepared by NDS/ATD

Project #: CA19_4037_008 **City:** Clairemont

Location: Genesee Ave Bet. Balboa Ave & Mt Alifan Dr **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Genesee Ave Bet. Mt Alifan Dr & Genesee Ct

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_009

DAILY TOTALS	NB	SB	EB	WB	Total
	11,759	11,983	0	0	23,742

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	8		13				21		12:00	169		174				343	
00:15	13		22				35		12:15	183		196				379	
00:30	10		11				21		12:30	198		176				374	
00:45	5	36	7	53			12	89	12:45	253	803	222	768			475	1571
01:00	9		9				18		13:00	188		148				336	
01:15	10		5				15		13:15	151		183				334	
01:30	1		2				3		13:30	179		165				344	
01:45	5	25	21	37			26	62	13:45	183	701	206	702			389	1403
02:00	4		6				10		14:00	197		215				412	
02:15	0		1				1		14:15	216		210				426	
02:30	9		6				15		14:30	207		230				437	
02:45	5	18	3	16			8	34	14:45	191	811	209	864			400	1675
03:00	4		4				8		15:00	201		278				479	
03:15	9		0				9		15:15	227		235				462	
03:30	5		6				11		15:30	208		247				455	
03:45	12	30	4	14			16	44	15:45	220	856	295	1055			515	1911
04:00	3		7				10		16:00	220		335				555	
04:15	11		2				13		16:15	200		321				521	
04:30	12		10				22		16:30	191		330				521	
04:45	18	44	16	35			34	79	16:45	173	784	322	1308			495	2092
05:00	25		8				33		17:00	168		317				485	
05:15	16		11				27		17:15	223		344				567	
05:30	53		16				69		17:30	189		331				520	
05:45	52	146	16	51			68	197	17:45	195	775	335	1327			530	2102
06:00	49		29				78		18:00	165		312				477	
06:15	78		46				124		18:15	160		305				465	
06:30	140		53				193		18:30	129		248				377	
06:45	198	465	93	221			291	686	18:45	133	587	161	1026			294	1613
07:00	208		98				306		19:00	138		156				294	
07:15	239		142				381		19:15	112		153				265	
07:30	295		191				486		19:30	102		135				237	
07:45	255	997	154	585			409	1582	19:45	96	448	115	559			211	1007
08:00	249		180				429		20:00	89		107				196	
08:15	291		175				466		20:15	74		101				175	
08:30	294		165				459		20:30	96		77				173	
08:45	253	1087	166	686			419	1773	20:45	101	360	106	391			207	751
09:00	212		173				385		21:00	110		102				212	
09:15	188		156				344		21:15	108		91				199	
09:30	264		113				377		21:30	79		57				136	
09:45	173	837	110	552			283	1389	21:45	55	352	51	301			106	653
10:00	129		112				241		22:00	49		68				117	
10:15	132		136				268		22:15	43		47				90	
10:30	150		130				280		22:30	30		35				65	
10:45	160	571	178	556			338	1127	22:45	25	147	41	191			66	338
11:00	191		142				333		23:00	14		31				45	
11:15	217		134				351		23:15	23		26				49	
11:30	211		151				362		23:30	13		17				30	
11:45	197	816	164	591			361	1407	23:45	13	63	20	94			33	157
TOTALS		5072		3397				8469	TOTALS		6687		8586				15273
SPLIT %		59.9%		40.1%				35.7%	SPLIT %		43.8%		56.2%				64.3%

DAILY TOTALS	NB	SB	EB	WB	Total
	11,759	11,983	0	0	23,742

AM Peak Hour	07:30	11:45					07:30		PM Peak Hour	15:15	17:00					15:45		
AM Pk Volume	1090	710					1790		PM Pk Volume	875	1327					2112		
Pk Hr Factor	0.924	0.906					0.921		Pk Hr Factor	0.964	0.964					0.951		
7 - 9 Volume	2084	1271	0	0			3355		4 - 6 Volume	1559	2635	0	0			4194		
7 - 9 Peak Hour	07:30	07:30					07:30		4 - 6 Peak Hour	16:00	17:00					17:00		
7 - 9 Pk Volume	1090	700	0	0			1790		4 - 6 Pk Volume	784	1327	0	0			2102		
Pk Hr Factor	0.924	0.916	0.000	0.000			0.921		Pk Hr Factor	0.891	0.964	0.000	0.000			0.927		

Prepared by NDS/ATD

Project #: CA19_4037_009 **City:** Clairemont

Location: Genesee Ave Bet. Mt Alifan Dr & Genesee Ct **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Mt Everest Blvd Bet. Mt Etna Dr & Balboa Ave

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_010

DAILY TOTALS	NB	SB	EB	WB	Total
	2,053	2,153	0	0	4,206

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	3		0				3		12:00	25		43				68	
00:15	2		0				2		12:15	35		42				77	
00:30	1		0				1		12:30	37		30				67	
00:45	1	7	1	1			2	8	12:45	38	135	29	144			67	279
01:00	1		0				1		13:00	27		44				71	
01:15	1		2				3		13:15	30		34				64	
01:30	1		2				3		13:30	30		37				67	
01:45	0	3	1	5			1	8	13:45	32	119	39	154			71	273
02:00	1		0				1		14:00	31		28				59	
02:15	0		1				1		14:15	45		26				71	
02:30	1		0				1		14:30	37		50				87	
02:45	0	2	0	1			0	3	14:45	39	152	55	159			94	311
03:00	0		0				0		15:00	49		38				87	
03:15	0		0				0		15:15	39		47				86	
03:30	0		0				0		15:30	24		46				70	
03:45	0		0				0		15:45	44	156	41	172			85	328
04:00	0		0				0		16:00	39		38				77	
04:15	2		0				2		16:15	33		38				71	
04:30	5		1				6		16:30	53		57				110	
04:45	1	8	1	2			2	10	16:45	38	163	80	213			118	376
05:00	4		3				7		17:00	46		77				123	
05:15	2		1				3		17:15	41		78				119	
05:30	3		1				4		17:30	55		84				139	
05:45	4	13	6	11			10	24	17:45	43	185	70	309			113	494
06:00	6		9				15		18:00	44		65				109	
06:15	10		15				25		18:15	25		38				63	
06:30	17		12				29		18:30	27		22				49	
06:45	17	50	18	54			35	104	18:45	27	123	28	153			55	276
07:00	22		20				42		19:00	20		17				37	
07:15	45		24				69		19:15	20		14				34	
07:30	45		38				83		19:30	15		12				27	
07:45	59	171	51	133			110	304	19:45	24	79	12	55			36	134
08:00	34		55				89		20:00	16		12				28	
08:15	38		52				90		20:15	20		7				27	
08:30	63		31				94		20:30	13		5				18	
08:45	44	179	30	168			74	347	20:45	12	61	6	30			18	91
09:00	34		31				65		21:00	12		5				17	
09:15	25		26				51		21:15	13		8				21	
09:30	27		26				53		21:30	11		4				15	
09:45	31	117	18	101			49	218	21:45	6	42	6	23			12	65
10:00	31		22				53		22:00	3		3				6	
10:15	24		30				54		22:15	4		5				9	
10:30	34		36				70		22:30	4		0				4	
10:45	26	115	37	125			63	240	22:45	4	15	1	9			5	24
11:00	27		28				55		23:00	3		0				3	
11:15	24		37				61		23:15	4		1				5	
11:30	43		31				74		23:30	9		1				10	
11:45	43	137	29	125			72	262	23:45	5	21	4	6			9	27
TOTALS		802		726				1528	TOTALS		1251		1427				2678
SPLIT %		52.5%		47.5%				36.3%	SPLIT %		46.7%		53.3%				63.7%

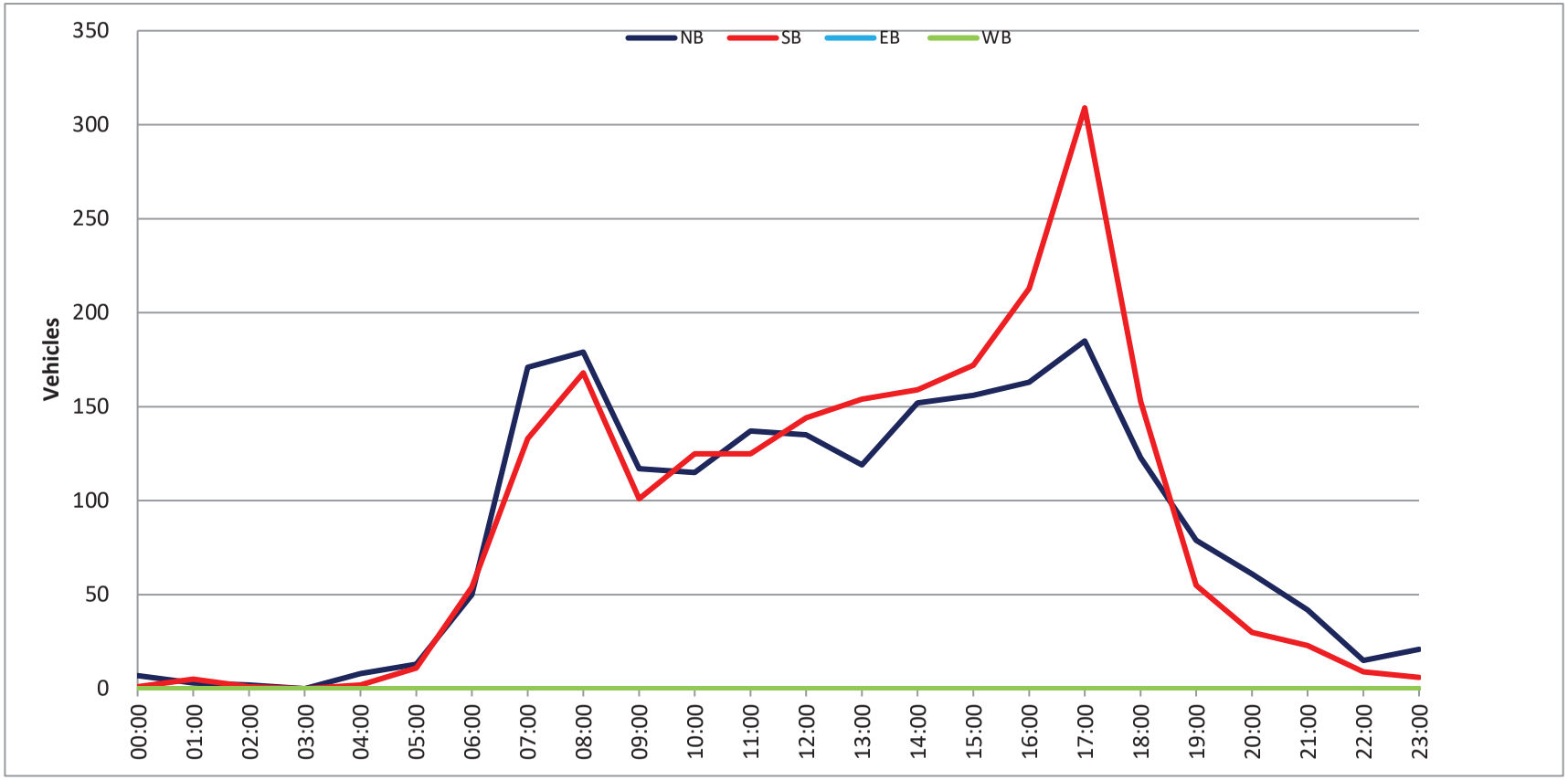
DAILY TOTALS	NB	SB	EB	WB	Total
	2,053	2,153	0	0	4,206

AM Peak Hour	07:45	07:30				07:45	PM Peak Hour	17:00	16:45				16:45
AM Pk Volume	194	196				383	PM Pk Volume	185	319				499
Pk Hr Factor	0.770	0.891				0.870	Pk Hr Factor	0.841	0.949				0.897
7 - 9 Volume	350	301	0	0		651	4 - 6 Volume	348	522	0	0		870
7 - 9 Peak Hour	07:45	07:30				07:45	4 - 6 Peak Hour	17:00	16:45				16:45
7 - 9 Pk Volume	194	196	0	0		383	4 - 6 Pk Volume	185	319	0	0		499
Pk Hr Factor	0.770	0.891	0.000	0.000		0.870	Pk Hr Factor	0.841	0.949	0.000	0.000		0.897

Prepared by NDS/ATD

Project #: CA19_4037_010 **City:** Clairemont

Location: Mt Everest Blvd Bet. Mt Etna Dr & Balboa **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Mt Etna Dr Bet. Mt Everest Blvd & Genesee Ave

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_011

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	2,189	1,901	4,090

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00					1		1		2		12:00					50		39		89	
00:15					1		1		2		12:15					34		31		65	
00:30					1		0		1		12:30					33		26		59	
00:45					0	3	1	3	1	6	12:45					52	169	37	133	89	302
01:00					1		0		1		13:00					46		38		84	
01:15					2		2		4		13:15					43		26		69	
01:30					0		0		0		13:30					30		41		71	
01:45					1	4	0	2	1	6	13:45					42	161	35	140	77	301
02:00					2		2		4		14:00					47		25		72	
02:15					2		1		3		14:15					50		26		76	
02:30					1		0		1		14:30					57		38		95	
02:45					0	5	0	3	0	8	14:45					43	197	43	132	86	329
03:00					0		0		0		15:00					48		27		75	
03:15					0		0		0		15:15					44		44		88	
03:30					0		1		1		15:30					43		40		83	
03:45					2	2	0	1	2	3	15:45					42	177	33	144	75	321
04:00					0		0		0		16:00					38		36		74	
04:15					2		0		2		16:15					50		42		92	
04:30					3		2		5		16:30					47		47		94	
04:45					7	12	0	2	7	14	16:45					42	177	79	204	121	381
05:00					6		1		7		17:00					31		56		87	
05:15					10		3		13		17:15					35		64		99	
05:30					7		6		13		17:30					47		88		135	
05:45					9	32	4	14	13	46	17:45					42	155	50	258	92	413
06:00					6		3		9		18:00					52		52		104	
06:15					14		9		23		18:15					27		33		60	
06:30					22		10		32		18:30					25		27		52	
06:45					26	68	14	36	40	104	18:45					29	133	14	126	43	259
07:00					21		17		38		19:00					27		19		46	
07:15					37		20		57		19:15					14		23		37	
07:30					38		18		56		19:30					23		19		42	
07:45					33	129	30	85	63	214	19:45					18	82	15	76	33	158
08:00					32		21		53		20:00					13		12		25	
08:15					25		25		50		20:15					12		12		24	
08:30					32		30		62		20:30					11		13		24	
08:45					35	124	25	101	60	225	20:45					8	44	5	42	13	86
09:00					45		27		72		21:00					7		8		15	
09:15					31		22		53		21:15					12		12		24	
09:30					31		42		73		21:30					12		5		17	
09:45					26	133	23	114	49	247	21:45					5	36	5	30	10	66
10:00					35		20		55		22:00					3		7		10	
10:15					38		30		68		22:15					3		0		3	
10:30					36		23		59		22:30					3		3		6	
10:45					39	148	25	98	64	246	22:45					5	14	3	13	8	27
11:00					31		34		65		23:00					2		1		3	
11:15					46		28		74		23:15					5		1		6	
11:30					43		36		79		23:30					2		1		3	
11:45					50	170	43	141	93	311	23:45					5	14	0	3	5	17
TOTALS						830		600		1430	TOTALS					2189	1359	1901	1301		2660
SPLIT %						58.0%		42.0%		35.0%	SPLIT %						51.1%		48.9%		65.0%

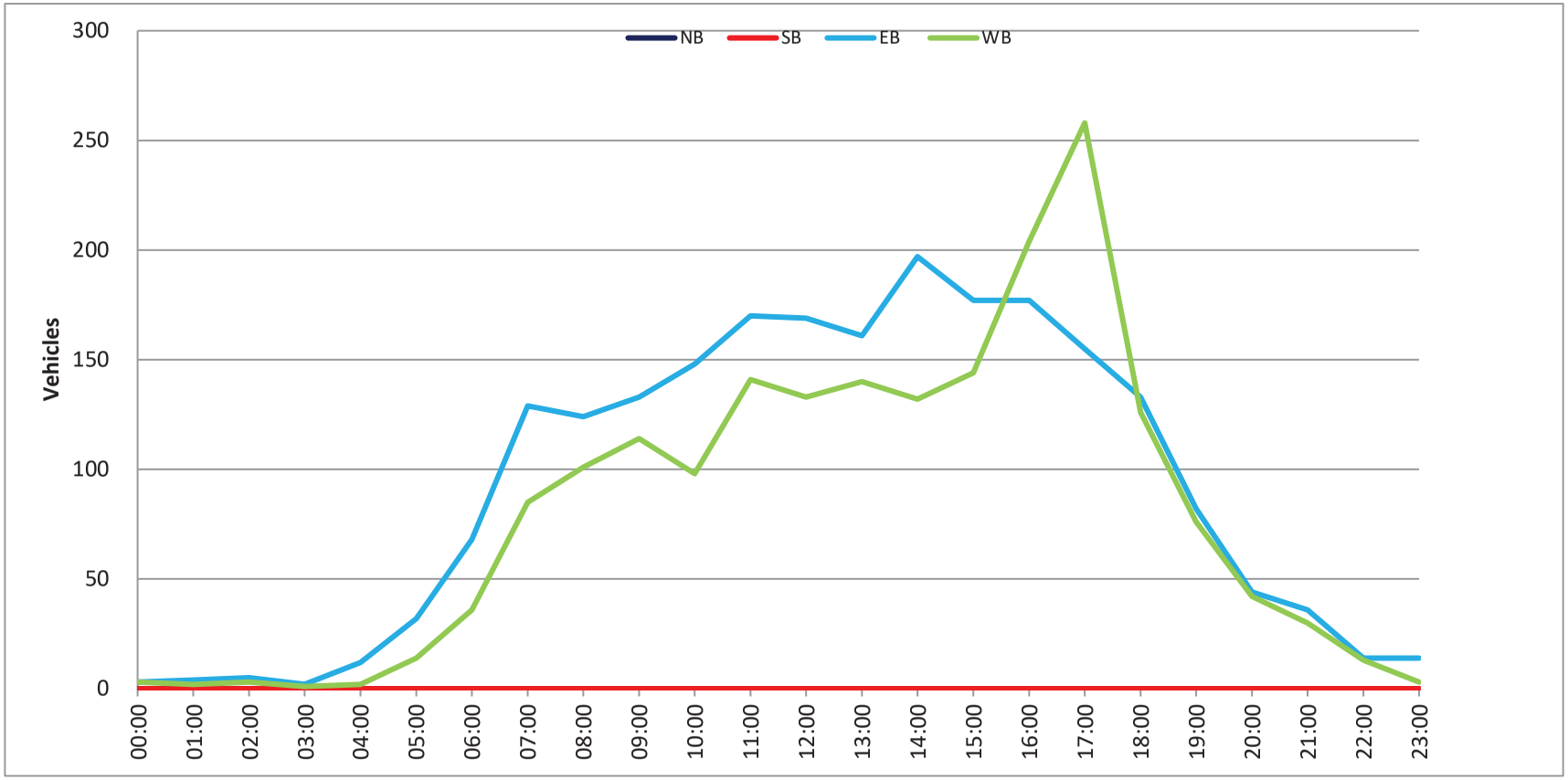
DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	2,189	1,901	4,090

AM Peak Hour			11:15	11:30	11:15	PM Peak Hour			14:15	16:45	16:45
AM Pk Volume			189	149	335	PM Pk Volume			198	287	442
Pk Hr Factor			0.945	0.866	0.901	Pk Hr Factor			0.868	0.815	0.819
7 - 9 Volume	0	0	253	186	439	4 - 6 Volume	0	0	332	462	794
7 - 9 Peak Hour			07:15	07:45	07:15	4 - 6 Peak Hour			16:00	16:45	16:45
7 - 9 Pk Volume	0	0	140	106	229	4 - 6 Pk Volume	0	0	177	287	442
Pk Hr Factor	0.000	0.000	0.921	0.883	0.909	Pk Hr Factor	0.000	0.000	0.885	0.815	0.819

Prepared by NDS/ATD

Project #: CA19_4037_011 **City:** Clairemont

Location: Mt Etna Dr Bet. Mt Everest Blvd & Genesee **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Balboa Ave Bet. Clairemont Dr & Mt Everest Blvd

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_012

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	17,892	17,122	35,014

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00			25	25	50	12:00			284	251	535
00:15			19	21	40	12:15			298	223	521
00:30			27	13	40	12:30			259	242	501
00:45			18	11	29	12:45			284	274	558
			89	70	159				1125	990	2115
01:00			15	13	28	13:00			292	268	560
01:15			21	12	33	13:15			274	231	505
01:30			15	5	20	13:30			270	283	553
01:45			11	10	21	13:45			254	335	589
			62	40	102				1090	1117	2207
02:00			7	7	14	14:00			277	285	562
02:15			8	4	12	14:15			296	317	613
02:30			10	4	14	14:30			320	312	632
02:45			11	6	17	14:45			314	309	623
			36	21	57				1207	1223	2430
03:00			5	9	14	15:00			296	300	596
03:15			9	5	14	15:15			334	342	676
03:30			13	13	26	15:30			329	335	664
03:45			11	10	21	15:45			410	312	722
			38	37	75				1369	1289	2658
04:00			11	10	21	16:00			404	346	750
04:15			17	9	26	16:15			382	309	691
04:30			19	26	45	16:30			402	388	790
04:45			22	30	52	16:45			371	363	734
			69	75	144				1559	1406	2965
05:00			37	30	67	17:00			388	359	747
05:15			44	34	78	17:15			398	382	780
05:30			65	61	126	17:30			370	325	695
05:45			83	77	160	17:45			369	383	752
			229	202	431				1525	1449	2974
06:00			72	76	148	18:00			358	343	701
06:15			107	122	229	18:15			275	285	560
06:30			148	144	292	18:30			267	258	525
06:45			190	221	411	18:45			280	277	557
			517	563	1080				1180	1163	2343
07:00			248	319	567	19:00			231	227	458
07:15			390	267	657	19:15			199	211	410
07:30			341	283	624	19:30			213	191	404
07:45			359	357	716	19:45			150	187	337
			1338	1226	2564				793	816	1609
08:00			298	322	620	20:00			163	195	358
08:15			336	312	648	20:15			153	161	314
08:30			282	346	628	20:30			130	148	278
08:45			358	284	642	20:45			116	125	241
			1274	1264	2538				562	629	1191
09:00			295	238	533	21:00			117	123	240
09:15			212	237	449	21:15			119	90	209
09:30			220	230	450	21:30			82	111	193
09:45			220	201	421	21:45			78	90	168
			947	906	1853				396	414	810
10:00			225	200	425	22:00			83	67	150
10:15			219	252	471	22:15			72	54	126
10:30			253	210	463	22:30			63	38	101
10:45			278	224	502	22:45			57	52	109
			975	886	1861				275	211	486
11:00			224	239	463	23:00			58	52	110
11:15			252	243	495	23:15			57	37	94
11:30			282	251	533	23:30			49	34	83
11:45			273	242	515	23:45			42	27	69
			1031	975	2006				206	150	356
TOTALS			6605	6265	12870	TOTALS			11287	10857	22144
SPLIT %			51.3%	48.7%	36.8%	SPLIT %			51.0%	49.0%	63.2%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	17,892	17,122	35,014

AM Peak Hour			07:15	07:45	07:15	PM Peak Hour			15:45	16:30	16:30
AM Pk Volume			1388	1337	2617	PM Pk Volume			1598	1492	3051
Pk Hr Factor			0.890	0.936	0.914	Pk Hr Factor			0.974	0.961	0.966
7 - 9 Volume	0	0	2612	2490	5102	4 - 6 Volume	0	0	3084	2855	5939
7 - 9 Peak Hour			07:15	07:45	07:15	4 - 6 Peak Hour			16:00	16:30	16:30
7 - 9 Pk Volume	0	0	1388	1337	2617	4 - 6 Pk Volume	0	0	1559	1492	3051
Pk Hr Factor	0.000	0.000	0.890	0.936	0.914	Pk Hr Factor	0.000	0.000	0.965	0.961	0.966

Prepared by NDS/ATD

Project #: CA19_4037_012 **City:** Clairemont

Location: Balboa Ave Bet. Clairemont Dr & Mt Everest **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Balboa Ave Bet. Mt Everest Blvd & Genesee Ave

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_013

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	16,228	16,193	32,421

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00					18		25		43		12:00					272		233		505	
00:15					21		19		40		12:15					266		233		499	
00:30					25		14		39		12:30					230		263		493	
00:45					17	81	11	69	28	150	12:45					267	1035	262	991	529	2026
01:00					12		16		28		13:00					288		251		539	
01:15					18		11		29		13:15					239		208		447	
01:30					16		6		22		13:30					250		290		540	
01:45					9	55	8	41	17	96	13:45					240	1017	316	1065	556	2082
02:00					5		7		12		14:00					251		282		533	
02:15					8		5		13		14:15					257		312		569	
02:30					9		6		15		14:30					260		301		561	
02:45					12	34	7	25	19	59	14:45					289	1057	300	1195	589	2252
03:00					5		8		13		15:00					244		262		506	
03:15					8		4		12		15:15					317		301		618	
03:30					15		11		26		15:30					287		312		599	
03:45					12	40	14	37	26	77	15:45					326	1174	330	1205	656	2379
04:00					10		9		19		16:00					342		330		672	
04:15					17		6		23		16:15					306		294		600	
04:30					21		18		39		16:30					320		406		726	
04:45					21	69	18	51	39	120	16:45					340	1308	322	1352	662	2660
05:00					39		23		62		17:00					319		366		685	
05:15					52		28		80		17:15					348		345		693	
05:30					67		44		111		17:30					284		340		624	
05:45					85	243	72	167	157	410	17:45					329	1280	364	1415	693	2695
06:00					82		63		145		18:00					281		308		589	
06:15					113		94		207		18:15					267		308		575	
06:30					157		118		275		18:30					215		256		471	
06:45					200	552	176	451	376	1003	18:45					256	1019	275	1147	531	2166
07:00					232		239		471		19:00					196		220		416	
07:15					326		230		556		19:15					184		225		409	
07:30					355		253		608		19:30					175		166		341	
07:45					304	1217	308	1030	612	2247	19:45					124	679	209	820	333	1499
08:00					311		278		589		20:00					144		188		332	
08:15					280		251		531		20:15					136		171		307	
08:30					308		276		584		20:30					104		152		256	
08:45					325	1224	266	1071	591	2295	20:45					108	492	135	646	243	1138
09:00					295		225		520		21:00					99		130		229	
09:15					226		210		436		21:15					95		105		200	
09:30					218		216		434		21:30					72		108		180	
09:45					223	962	195	846	418	1808	21:45					62	328	96	439	158	767
10:00					216		188		404		22:00					84		69		153	
10:15					224		214		438		22:15					65		55		120	
10:30					253		215		468		22:30					57		45		102	
10:45					264	957	197	814	461	1771	22:45					51	257	45	214	96	471
11:00					214		225		439		23:00					48		55		103	
11:15					229		240		469		23:15					53		40		93	
11:30					269		244		513		23:30					42		35		77	
11:45					252	964	234	943	486	1907	23:45					41	184	29	159	70	343
TOTALS						6398		5545		11943	TOTALS						9830		10648		20478
SPLIT %						53.6%		46.4%		36.8%	SPLIT %						48.0%		52.0%		63.2%

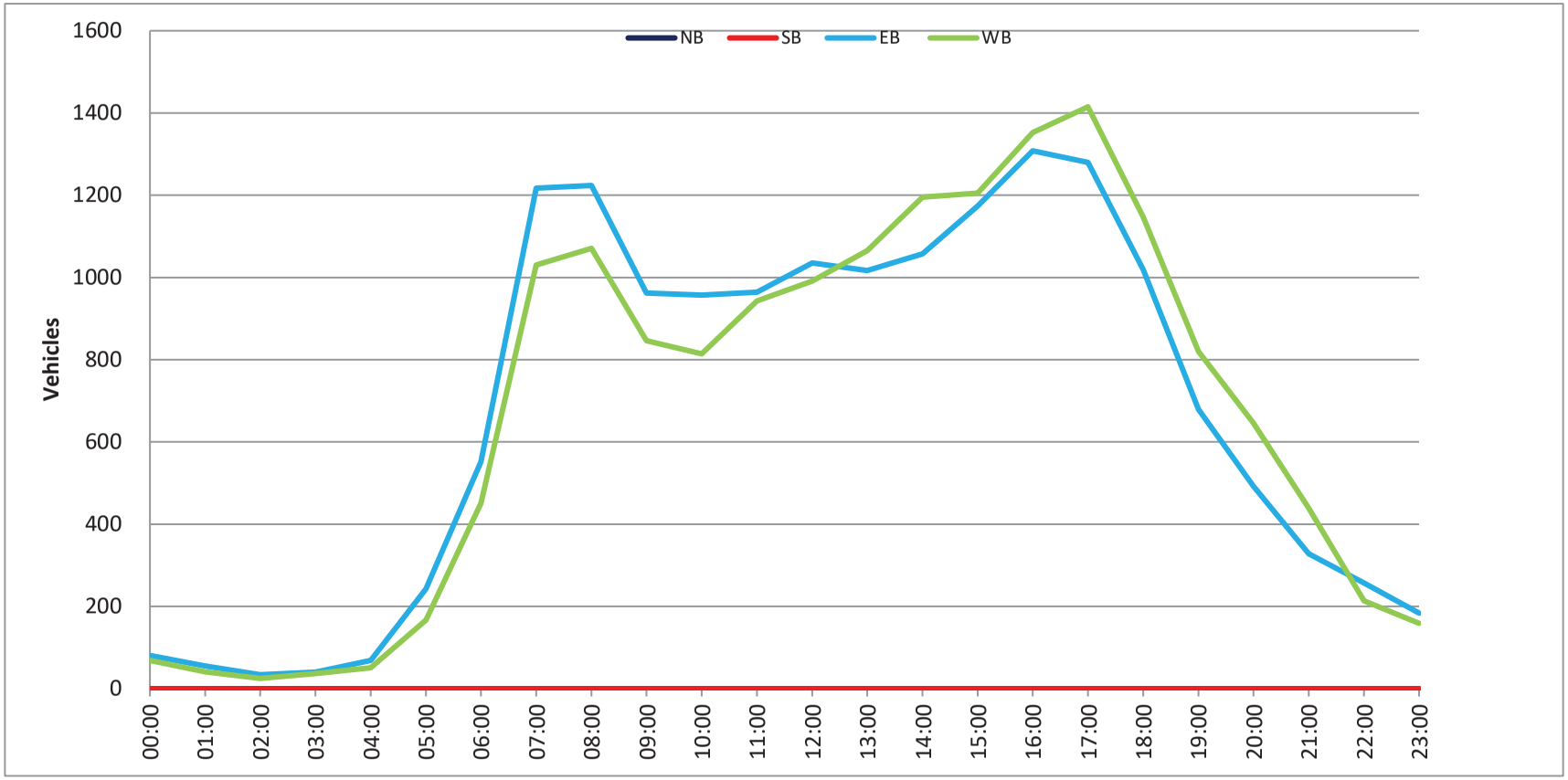
DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	16,228	16,193	32,421

AM Peak Hour			07:15	07:45	07:15	PM Peak Hour			16:30	16:30	16:30
AM Pk Volume			1296	1113	2365	PM Pk Volume			1327	1439	2766
Pk Hr Factor			0.913	0.903	0.966	Pk Hr Factor			0.953	0.886	0.952
7 - 9 Volume	0	0	2441	2101	4542	4 - 6 Volume	0	0	2588	2767	5355
7 - 9 Peak Hour			07:15	07:45	07:15	4 - 6 Peak Hour			16:30	16:30	16:30
7 - 9 Pk Volume	0	0	1296	1113	2365	4 - 6 Pk Volume	0	0	1327	1439	2766
Pk Hr Factor	0.000	0.000	0.913	0.903	0.966	Pk Hr Factor	0.000	0.000	0.953	0.886	0.952

Prepared by NDS/ATD

Project #: CA19_4037_013 **City:** Clairemont

Location: Balboa Ave Bet. Mt Everest Blvd & Genesee **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Balboa Ave Bet. Genesee Ave & Shopping Center Dwy

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_014

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	15,890	16,341	32,231

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00					19		32		51		12:00					282		273		555	
00:15					21		28		49		12:15					300		280		580	
00:30					12		27		39		12:30					261		257		518	
00:45					19	71	18	105	37	176	12:45					307	1150	261	1071	568	2221
01:00					11		16		27		13:00					262		257		519	
01:15					11		15		26		13:15					326		243		569	
01:30					16		16		32		13:30					281		279		560	
01:45					10	48	15	62	25	110	13:45					248	1117	249	1028	497	2145
02:00					11		7		18		14:00					281		260		541	
02:15					10		10		20		14:15					297		251		548	
02:30					14		2		16		14:30					301		288		589	
02:45					10	45	14	33	24	78	14:45					273	1152	284	1083	557	2235
03:00					11		7		18		15:00					298		303		601	
03:15					9		7		16		15:15					277		299		576	
03:30					10		11		21		15:30					308		279		587	
03:45					17	47	7	32	24	79	15:45					286	1169	333	1214	619	2383
04:00					13		9		22		16:00					307		313		620	
04:15					10		6		16		16:15					292		366		658	
04:30					30		14		44		16:30					303		321		624	
04:45					26	79	19	48	45	127	16:45					295	1197	311	1311	606	2508
05:00					37		32		69		17:00					282		350		632	
05:15					53		34		87		17:15					326		341		667	
05:30					51		50		101		17:30					293		384		677	
05:45					76	217	56	172	132	389	17:45					293	1194	358	1433	651	2627
06:00					74		64		138		18:00					290		360		650	
06:15					107		88		195		18:15					273		304		577	
06:30					137		126		263		18:30					261		287		548	
06:45					181	499	117	395	298	894	18:45					235	1059	282	1233	517	2292
07:00					205		177		382		19:00					213		300		513	
07:15					226		191		417		19:15					184		231		415	
07:30					309		214		523		19:30					169		172		341	
07:45					263	1003	235	817	498	1820	19:45					150	716	176	879	326	1595
08:00					244		199		443		20:00					159		164		323	
08:15					288		242		530		20:15					139		177		316	
08:30					251		249		500		20:30					133		152		285	
08:45					270	1053	268	958	538	2011	20:45					106	537	159	652	265	1189
09:00					218		220		438		21:00					112		144		256	
09:15					237		266		503		21:15					129		123		252	
09:30					187		259		446		21:30					74		106		180	
09:45					204	846	231	976	435	1822	21:45					84	399	122	495	206	894
10:00					217		238		455		22:00					72		95		167	
10:15					190		205		395		22:15					70		80		150	
10:30					228		252		480		22:30					52		71		123	
10:45					236	871	237	932	473	1803	22:45					38	232	54	300	92	532
11:00					262		226		488		23:00					45		46		91	
11:15					262		210		472		23:15					39		38		77	
11:30					247		231		478		23:30					18		36		54	
11:45					292	1063	279	946	571	2009	23:45					24	126	46	166	70	292
TOTALS						5842		5476		11318	TOTALS						10048		10865		20913
SPLIT %						51.6%		48.4%		35.1%	SPLIT %						48.0%		52.0%		64.9%

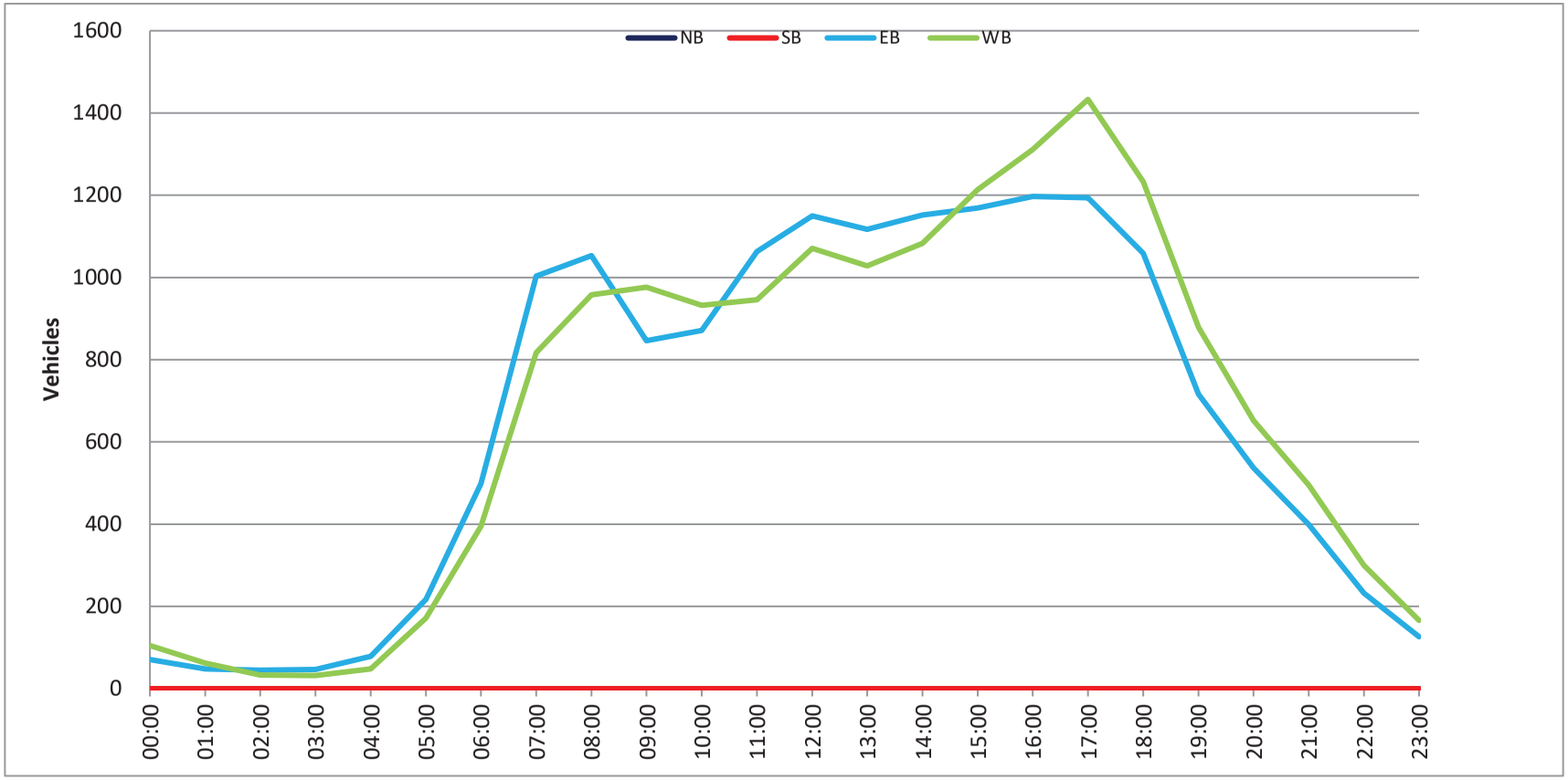
DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	15,890	16,341	32,231

AM Peak Hour			11:45	11:45	11:45	PM Peak Hour			16:30	17:15	17:15
AM Pk Volume			1135	1089	2224	PM Pk Volume			1206	1443	2645
Pk Hr Factor			0.946	0.972	0.959	Pk Hr Factor			0.925	0.939	0.977
7 - 9 Volume	0	0	2056	1775	3831	4 - 6 Volume	0	0	2391	2744	5135
7 - 9 Peak Hour			07:30	08:00	08:00	4 - 6 Peak Hour			16:30	17:00	17:00
7 - 9 Pk Volume	0	0	1104	958	2011	4 - 6 Pk Volume	0	0	1206	1433	2627
Pk Hr Factor	0.000	0.000	0.893	0.894	0.934	Pk Hr Factor	0.000	0.000	0.925	0.933	0.970

Prepared by NDS/ATD

Project #: CA19_4037_014 **City:** Clairemont

Location: Balboa Ave Bet. Genesee Ave & Shopping **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Balboa Ave Bet. Shopping Center Dwy & Mt Abernathy Ave

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_015

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	18,213	17,771	35,984

AM Period	NB		SB		EB		WB		TOTAL	
00:00					32		25		57	
00:15					24		24		48	
00:30					13		30		43	
00:45					21	90	18	97	39	187
01:00					11		14		25	
01:15					14		17		31	
01:30					16		15		31	
01:45					12	53	14	60	26	113
02:00					9		9		18	
02:15					11		11		22	
02:30					15		4		19	
02:45					10	45	9	33	19	78
03:00					10		6		16	
03:15					11		7		18	
03:30					12		15		27	
03:45					14	47	19	47	33	94
04:00					15		12		27	
04:15					11		8		19	
04:30					29		16		45	
04:45					27	82	28	64	55	146
05:00					36		31		67	
05:15					59		39		98	
05:30					56		56		112	
05:45					97	248	69	195	166	443
06:00					79		74		153	
06:15					116		119		235	
06:30					163		136		299	
06:45					207	565	128	457	335	1022
07:00					209		204		413	
07:15					245		261		506	
07:30					306		228		534	
07:45					292	1052	289	982	581	2034
08:00					239		272		511	
08:15					335		261		596	
08:30					243		289		532	
08:45					304	1121	318	1140	622	2261
09:00					241		314		555	
09:15					257		302		559	
09:30					224		297		521	
09:45					221	943	287	1200	508	2143
10:00					233		255		488	
10:15					226		261		487	
10:30					281		255		536	
10:45					290	1030	292	1063	582	2093
11:00					286		265		551	
11:15					296		260		556	
11:30					281		306		587	
11:45					359	1222	322	1153	681	2375
TOTALS						6498		6491		12989
SPLIT %						50.0%		50.0%		36.1%

PM Period	NB		SB		EB		WB		TOTAL	
12:00					317		362		679	
12:15					347		312		659	
12:30					332		328		660	
12:45					370	1366	299	1301	669	2667
13:00					329		297		626	
13:15					356		290		646	
13:30					298		303		601	
13:45					299	1282	305	1195	604	2477
14:00					359		279		638	
14:15					318		269		587	
14:30					362		328		690	
14:45					318	1357	288	1164	606	2521
15:00					306		334		640	
15:15					309		300		609	
15:30					331		263		594	
15:45					325	1271	325	1222	650	2493
16:00					311		325		636	
16:15					329		359		688	
16:30					312		289		601	
16:45					338	1290	315	1288	653	2578
17:00					328		330		658	
17:15					362		366		728	
17:30					353		404		757	
17:45					306	1349	344	1444	650	2793
18:00					336		372		708	
18:15					330		309		639	
18:30					297		269		566	
18:45					281	1244	287	1237	568	2481
19:00					263		268		531	
19:15					222		245		467	
19:30					194		161		355	
19:45					182	861	173	847	355	1708
20:00					197		166		363	
20:15					189		181		370	
20:30					155		146		301	
20:45					140	681	144	637	284	1318
21:00					151		145		296	
21:15					152		137		289	
21:30					109		116		225	
21:45					107	519	125	523	232	1042
22:00					98		75		173	
22:15					86		71		157	
22:30					78		66		144	
22:45					67	329	57	269	124	598
23:00					64		41		105	
23:15					50		31		81	
23:30					24		36		60	
23:45					28	166	45	153	73	319
TOTALS						11715		11280		22995
SPLIT %						50.9%		49.1%		63.9%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	18,213	17,771	35,984

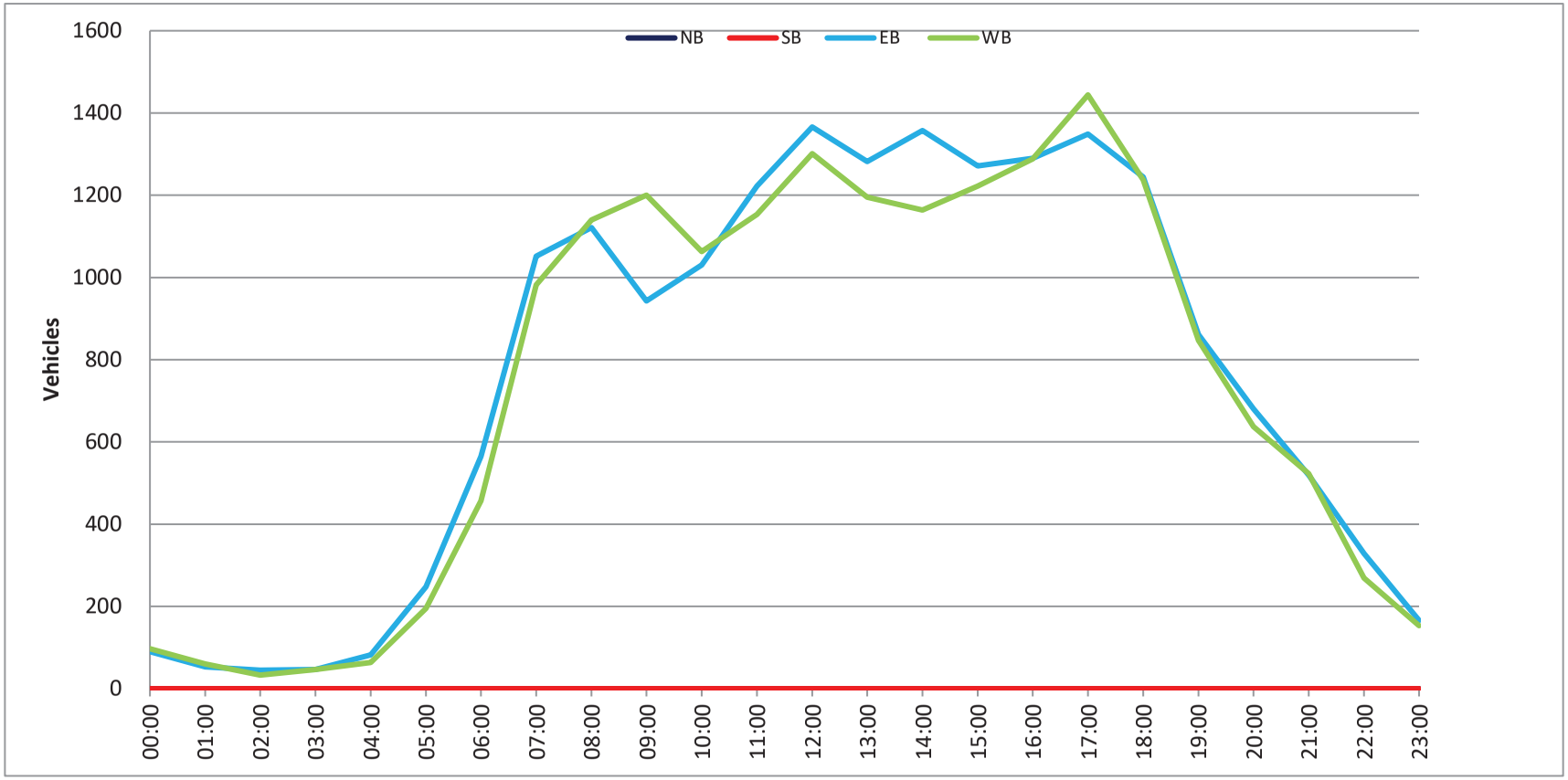
AM Peak Hour			11:45	11:45	11:45
AM Pk Volume			1355	1324	2679
Pk Hr Factor			0.944	0.914	0.983
7 - 9 Volume	0	0	2173	2122	4295
7 - 9 Peak Hour			07:30	08:00	08:00
7 - 9 Pk Volume	0	0	1172	1140	2261
Pk Hr Factor	0.000	0.000	0.875	0.896	0.909

PM Peak Hour			12:30	17:15	17:15
PM Pk Volume			1387	1486	2843
Pk Hr Factor			0.937	0.920	0.939
4 - 6 Volume	0	0	2639	2732	5371
4 - 6 Peak Hour			16:45	17:00	16:45
4 - 6 Pk Volume	0	0	1381	1444	2796
Pk Hr Factor	0.000	0.000	0.954	0.894	0.923

Prepared by NDS/ATD

Project #: CA19_4037_015 **City:** Clairemont

Location: Balboa Ave Bet. Shopping Center Dwy & Mt **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Balboa Ave Bet. Mt Abernathy Ave & Cannington Dr

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_016

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	22,935	24,212	47,147

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00					41		45		86		12:00					360		458		818	
00:15					33		43		76		12:15					371		417		788	
00:30					26		44		70		12:30					437		477		914	
00:45					20	120	27	159	47	279	12:45					422	1590	380	1732	802	3322
01:00					13		22		35		13:00					419		372		791	
01:15					15		14		29		13:15					445		414		859	
01:30					21		24		45		13:30					411		369		780	
01:45					13	62	21	81	34	143	13:45					378	1653	449	1604	827	3257
02:00					9		9		18		14:00					419		373		792	
02:15					10		17		27		14:15					381		365		746	
02:30					14		6		20		14:30					434		414		848	
02:45					14	47	21	53	35	100	14:45					369	1603	330	1482	699	3085
03:00					13		9		22		15:00					369		459		828	
03:15					17		13		30		15:15					380		408		788	
03:30					19		26		45		15:30					414		372		786	
03:45					21	70	30	78	51	148	15:45					386	1549	431	1670	817	3219
04:00					20		14		34		16:00					339		416		755	
04:15					17		14		31		16:15					399		514		913	
04:30					45		23		68		16:30					384		423		807	
04:45					61	143	43	94	104	237	16:45					391	1513	432	1785	823	3298
05:00					64		41		105		17:00					360		454		814	
05:15					99		46		145		17:15					397		501		898	
05:30					103		66		169		17:30					398		488		886	
05:45					140	406	105	258	245	664	17:45					350	1505	454	1897	804	3402
06:00					141		106		247		18:00					384		528		912	
06:15					169		141		310		18:15					378		409		787	
06:30					245		195		440		18:30					338		383		721	
06:45					282	837	183	625	465	1462	18:45					305	1405	382	1702	687	3107
07:00					294		245		539		19:00					287		362		649	
07:15					327		298		625		19:15					322		330		652	
07:30					419		275		694		19:30					243		248		491	
07:45					391	1431	366	1184	757	2615	19:45					251	1103	283	1223	534	2326
08:00					328		346		674		20:00					254		258		512	
08:15					421		371		792		20:15					227		234		461	
08:30					371		365		736		20:30					221		233		454	
08:45					385	1505	380	1462	765	2967	20:45					172	874	208	933	380	1807
09:00					345		415		760		21:00					226		218		444	
09:15					303		377		680		21:15					201		207		408	
09:30					330		386		716		21:30					158		174		332	
09:45					288	1266	351	1529	639	2795	21:45					159	744	177	776	336	1520
10:00					299		369		668		22:00					156		113		269	
10:15					267		358		625		22:15					123		122		245	
10:30					354		383		737		22:30					100		119		219	
10:45					380	1300	397	1507	777	2807	22:45					94	473	89	443	183	916
11:00					333		365		698		23:00					77		80		157	
11:15					410		409		819		23:15					65		54		119	
11:30					336		428		764		23:30					35		64		99	
11:45					444	1523	467	1669	911	3192	23:45					36	213	68	266	104	479
TOTALS						8710		8699		17409	TOTALS						14225		15513		29738
SPLIT %						50.0%		50.0%		36.9%	SPLIT %						47.8%		52.2%		63.1%

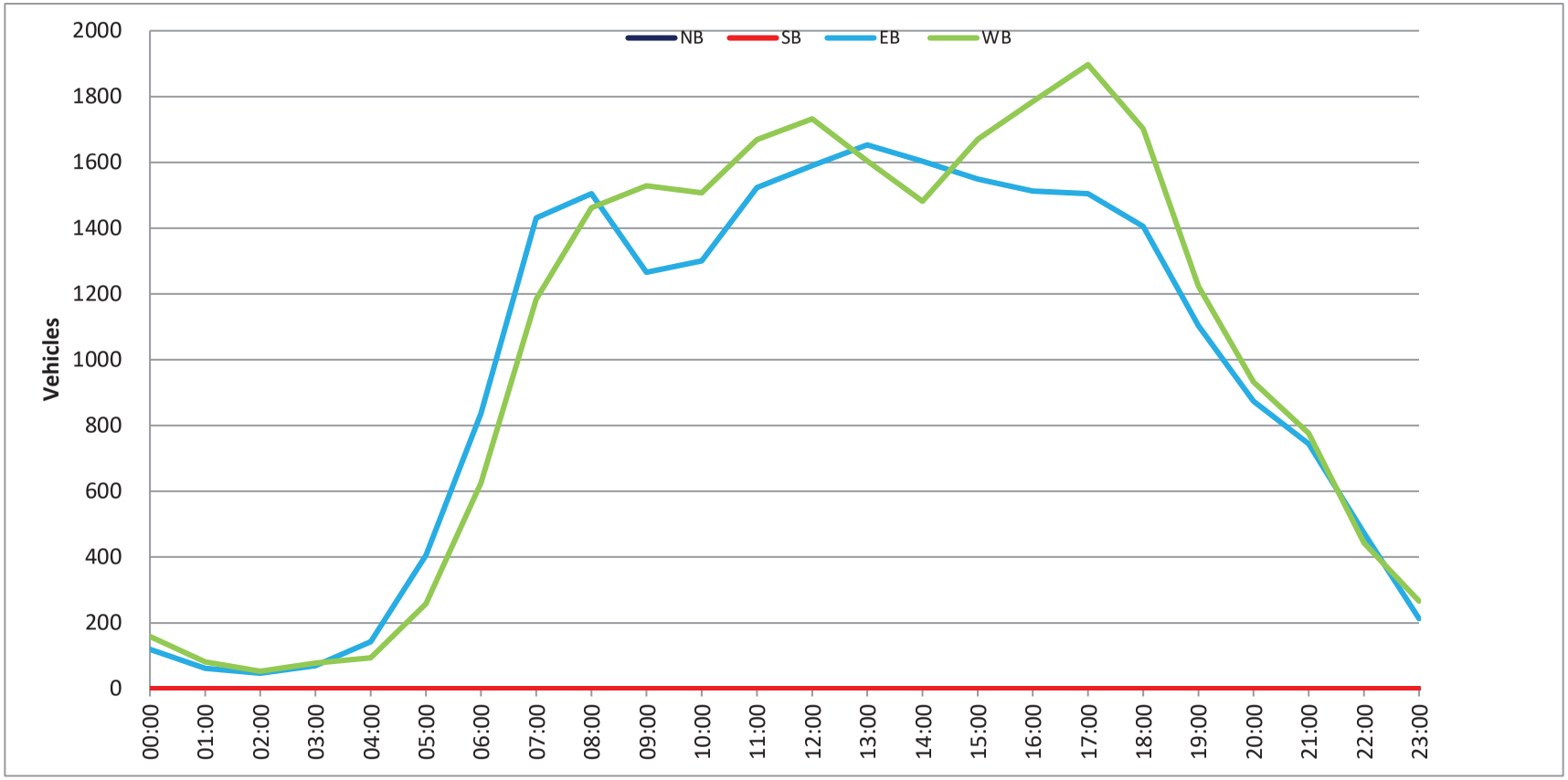
DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	22,935	24,212	47,147

AM Peak Hour			11:45	11:45	11:45	PM Peak Hour			12:30	17:15	17:15
AM Pk Volume			1612	1819	3431	PM Pk Volume			1723	1971	3500
Pk Hr Factor			0.908	0.953	0.938	Pk Hr Factor			0.968	0.933	0.959
7 - 9 Volume	0	0	2936	2646	5582	4 - 6 Volume	0	0	3018	3682	6700
7 - 9 Peak Hour			07:30	08:00	08:00	4 - 6 Peak Hour			16:45	17:00	16:45
7 - 9 Pk Volume	0	0	1559	1462	2967	4 - 6 Pk Volume	0	0	1546	1897	3421
Pk Hr Factor	0.000	0.000	0.926	0.962	0.937	Pk Hr Factor	0.000	0.000	0.971	0.947	0.952

Prepared by NDS/ATD

Project #: CA19_4037_016 **City:** Clairemont

Location: Balboa Ave Bet. Mt Abernathy Ave & **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Balboa Ave Bet. Cannington Dr & Charger Blvd

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_017

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	24,543	24,878	49,421

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			53		55		108		12:00			447		465		912	
00:15			33		44		77		12:15			384		429		813	
00:30			28		49		77		12:30			457		478		935	
00:45			23	137	31	179	54	316	12:45			458	1746	381	1753	839	3499
01:00			15		23		38		13:00			442		406		848	
01:15			17		13		30		13:15			478		396		874	
01:30			22		27		49		13:30			466		372		838	
01:45			15	69	18	81	33	150	13:45			392	1778	461	1635	853	3413
02:00			14		9		23		14:00			440		392		832	
02:15			11		18		29		14:15			425		382		807	
02:30			12		9		21		14:30			429		368		797	
02:45			17	54	24	60	41	114	14:45			421	1715	381	1523	802	3238
03:00			13		7		20		15:00			409		412		821	
03:15			17		15		32		15:15			372		421		793	
03:30			25		24		49		15:30			410		391		801	
03:45			26	81	28	74	54	155	15:45			398	1589	461	1685	859	3274
04:00			23		12		35		16:00			343		444		787	
04:15			21		15		36		16:15			404		512		916	
04:30			56		21		77		16:30			411		429		840	
04:45			64	164	49	97	113	261	16:45			374	1532	438	1823	812	3355
05:00			76		39		115		17:00			399		484		883	
05:15			119		51		170		17:15			365		500		865	
05:30			124		76		200		17:30			449		493		942	
05:45			159	478	102	268	261	746	17:45			386	1599	549	2026	935	3625
06:00			166		104		270		18:00			396		487		883	
06:15			183		161		344		18:15			389		430		819	
06:30			255		195		450		18:30			328		397		725	
06:45			341	945	197	657	538	1602	18:45			324	1437	409	1723	733	3160
07:00			338		261		599		19:00			297		351		648	
07:15			435		309		744		19:15			319		359		678	
07:30			468		303		771		19:30			248		275		523	
07:45			420	1661	367	1240	787	2901	19:45			243	1107	284	1269	527	2376
08:00			438		347		785		20:00			271		276		547	
08:15			471		377		848		20:15			237		243		480	
08:30			453		367		820		20:30			223		242		465	
08:45			425	1787	373	1464	798	3251	20:45			191	922	239	1000	430	1922
09:00			387		392		779		21:00			242		232		474	
09:15			308		383		691		21:15			207		228		435	
09:30			331		391		722		21:30			165		182		347	
09:45			305	1331	340	1506	645	2837	21:45			160	774	195	837	355	1611
10:00			314		357		671		22:00			164		130		294	
10:15			302		358		660		22:15			142		140		282	
10:30			337		395		732		22:30			107		118		225	
10:45			396	1349	382	1492	778	2841	22:45			105	518	98	486	203	1004
11:00			357		356		713		23:00			80		88		168	
11:15			395		439		834		23:15			66		57		123	
11:30			373		437		810		23:30			40		71		111	
11:45			421	1546	478	1710	899	3256	23:45			38	224	74	290	112	514
TOTALS				9602		8828		18430	TOTALS				14941		16050		30991
SPLIT %				52.1%		47.9%		37.3%	SPLIT %				48.2%		51.8%		62.7%

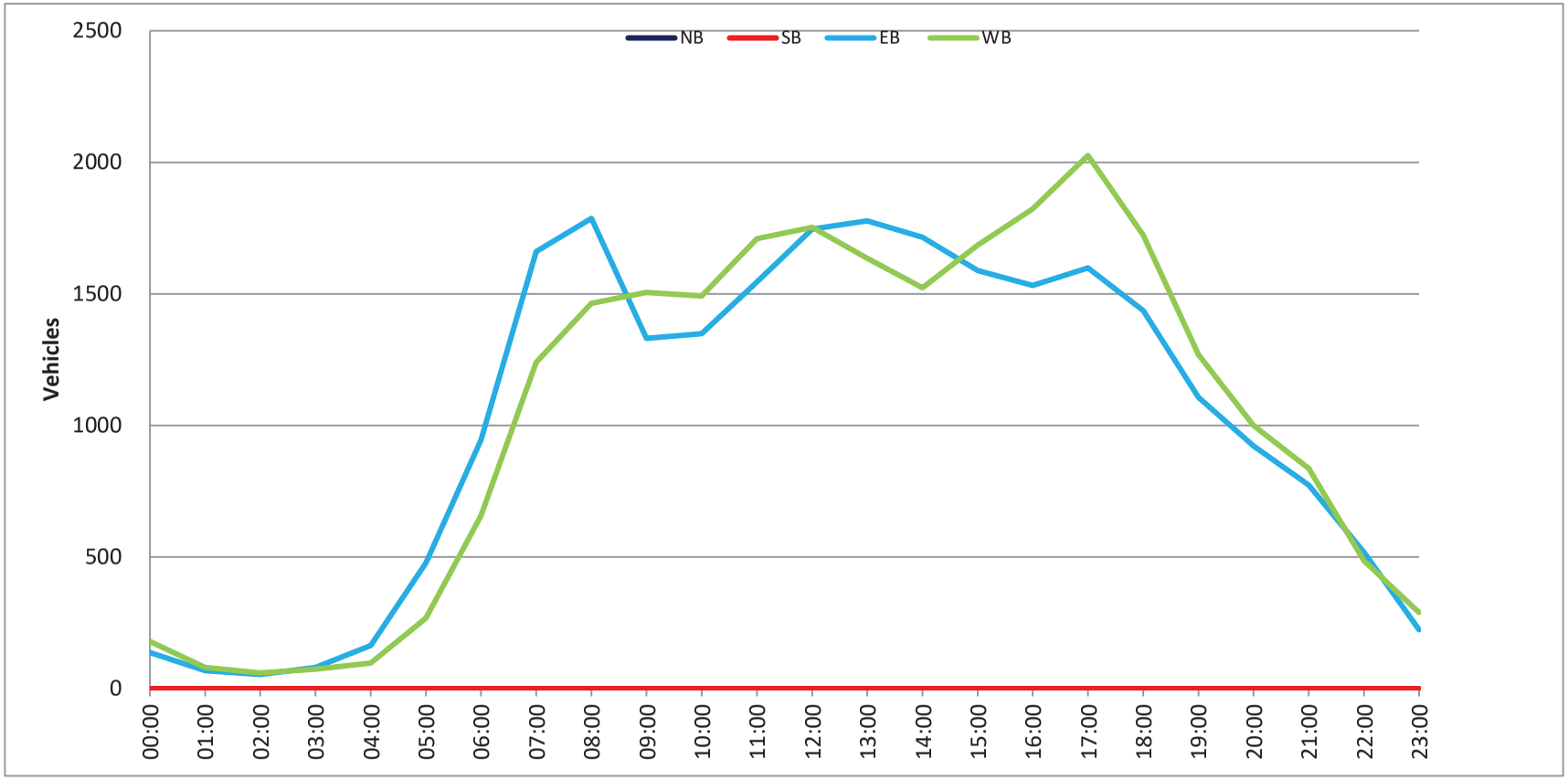
DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	24,543	24,878	49,421

AM Peak Hour			07:30	11:45	11:45	PM Peak Hour		12:45	17:15	17:00
AM Pk Volume			1797	1850	3559	PM Pk Volume		1844	2029	3625
Pk Hr Factor			0.954	0.968	0.952	Pk Hr Factor		0.964	0.924	0.962
7 - 9 Volume	0	0	3448	2704	6152	4 - 6 Volume	0	3131	3849	6980
7 - 9 Peak Hour			07:30	08:00	08:00	4 - 6 Peak Hour		17:00	17:00	17:00
7 - 9 Pk Volume	0	0	1797	1464	3251	4 - 6 Pk Volume	0	1599	2026	3625
Pk Hr Factor	0.000	0.000	0.954	0.971	0.958	Pk Hr Factor	0.000	0.890	0.923	0.962

Prepared by NDS/ATD

Project #: CA19_4037_017 **City:** Clairemont

Location: Balboa Ave Bet. Cannington Dr & Charger **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Balboa Ave Bet. Charger Blvd & I 805 SB Ramps

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_018

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	31,043	30,803	61,846

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			62		75		137		12:00			510		569		1079	
00:15			49		56		105		12:15			466		543		1009	
00:30			40		52		92		12:30			471		527		998	
00:45			35	186	46	229	81	415	12:45			601	2048	474	2113	1075	4161
01:00			29		30		59		13:00			570		443		1013	
01:15			30		22		52		13:15			532		481		1013	
01:30			31		34		65		13:30			552		450		1002	
01:45			15	105	27	113	42	218	13:45			482	2136	525	1899	1007	4035
02:00			30		9		39		14:00			507		464		971	
02:15			18		21		39		14:15			496		484		980	
02:30			17		14		31		14:30			513		447		960	
02:45			24	89	28	72	52	161	14:45			484	2000	498	1893	982	3893
03:00			15		9		24		15:00			469		508		977	
03:15			21		15		36		15:15			475		509		984	
03:30			51		23		74		15:30			489		472		961	
03:45			42	129	32	79	74	208	15:45			441	1874	515	2004	956	3878
04:00			35		13		48		16:00			542		565		1107	
04:15			37		19		56		16:15			528		604		1132	
04:30			74		21		95		16:30			443		586		1029	
04:45			73	219	48	101	121	320	16:45			521	2034	592	2347	1113	4381
05:00			111		50		161		17:00			459		583		1042	
05:15			145		63		208		17:15			517		640		1157	
05:30			219		83		302		17:30			440		615		1055	
05:45			199	674	131	327	330	1001	17:45			481	1897	673	2511	1154	4408
06:00			203		132		335		18:00			400		537		937	
06:15			282		186		468		18:15			419		555		974	
06:30			379		227		606		18:30			444		494		938	
06:45			420	1284	275	820	695	2104	18:45			401	1664	525	2111	926	3775
07:00			476		340		816		19:00			387		467		854	
07:15			544		441		985		19:15			401		470		871	
07:30			665		436		1101		19:30			325		354		679	
07:45			721	2406	492	1709	1213	4115	19:45			349	1462	375	1666	724	3128
08:00			653		438		1091		20:00			285		330		615	
08:15			599		473		1072		20:15			326		309		635	
08:30			562		486		1048		20:30			339		324		663	
08:45			550	2364	497	1894	1047	4258	20:45			302	1252	310	1273	612	2525
09:00			477		478		955		21:00			272		296		568	
09:15			487		449		936		21:15			274		287		561	
09:30			507		435		942		21:30			215		239		454	
09:45			395	1866	410	1772	805	3638	21:45			242	1003	259	1081	501	2084
10:00			404		430		834		22:00			207		183		390	
10:15			451		408		859		22:15			114		182		296	
10:30			389		453		842		22:30			156		167		323	
10:45			400	1644	450	1741	850	3385	22:45			117	594	130	662	247	1256
11:00			422		453		875		23:00			99		114		213	
11:15			466		459		925		23:15			71		89		160	
11:30			439		514		953		23:30			73		104		177	
11:45			477	1804	572	1998	1049	3802	23:45			66	309	81	388	147	697
TOTALS				12770		10855		23625	TOTALS				18273		19948		38221
SPLIT %				54.1%		45.9%		38.2%	SPLIT %				47.8%		52.2%		61.8%

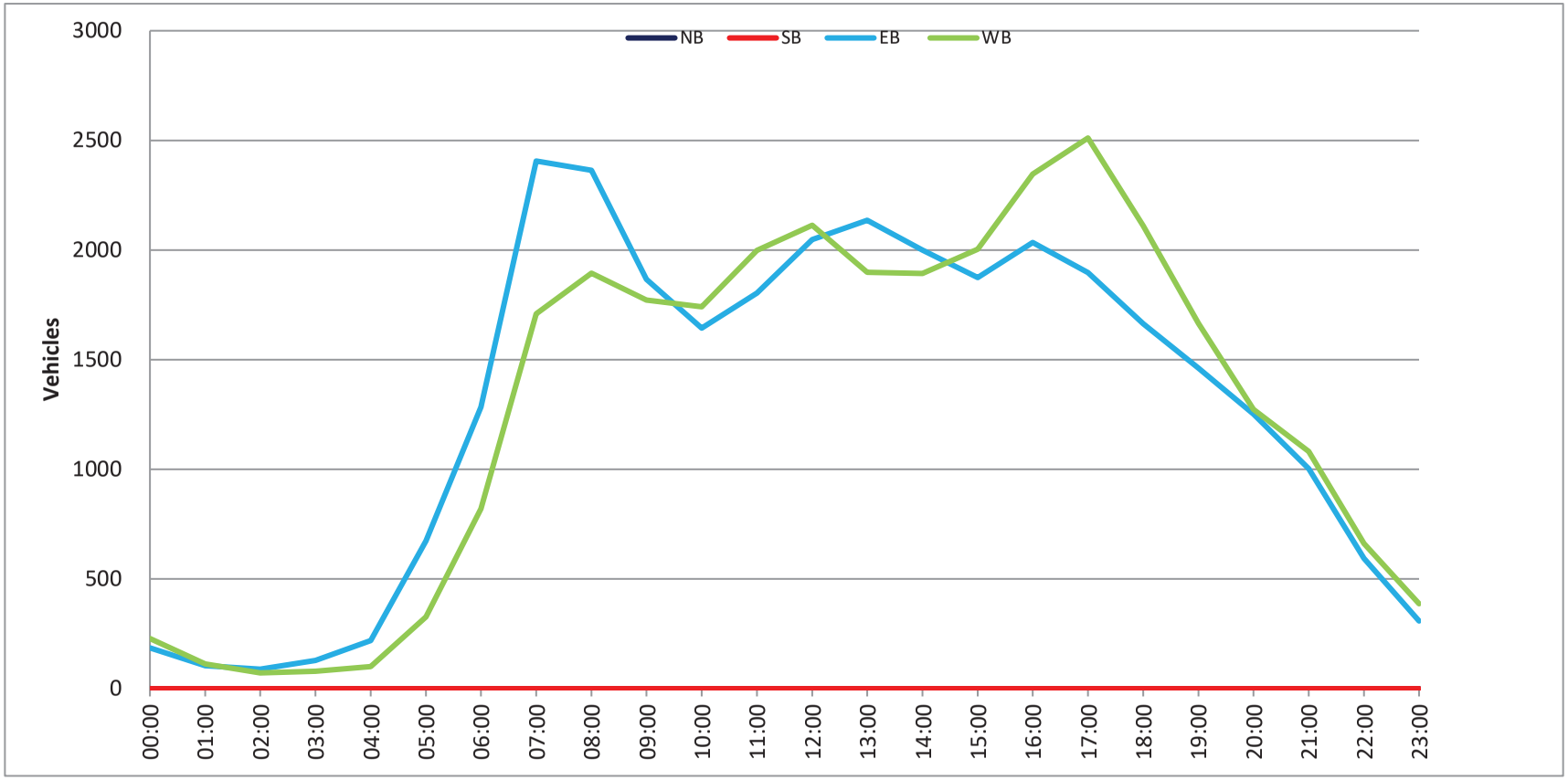
DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	31,043	30,803	61,846

AM Peak Hour			07:30	11:45	07:30	PM Peak Hour		12:45	17:00	17:00
AM Pk Volume			2638	2211	4477	PM Pk Volume		2255	2511	4408
Pk Hr Factor			0.915	0.966	0.923	Pk Hr Factor		0.938	0.933	0.952
7 - 9 Volume	0	0	4770	3603	8373	4 - 6 Volume	0	3931	4858	8789
7 - 9 Peak Hour			07:30	08:00	07:30	4 - 6 Peak Hour		16:00	17:00	17:00
7 - 9 Pk Volume	0	0	2638	1894	4477	4 - 6 Pk Volume	0	2034	2511	4408
Pk Hr Factor	0.000	0.000	0.915	0.953	0.923	Pk Hr Factor	0.000	0.938	0.933	0.952

Prepared by NDS/ATD

Project #: CA19_4037_018 **City:** Clairemont

Location: Balboa Ave Bet. Charger Blvd & I 805 SB **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Balboa Ave Bet. I 805 SB Ramps & I 805 NB Ramps

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_019

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	26,367	22,786	49,153

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			38		50		88		12:00			469		376		845	
00:15			26		43		69		12:15			467		380		847	
00:30			29		48		77		12:30			493		358		851	
00:45			22	115	37	178	59	293	12:45			520	1949	319	1433	839	3382
01:00			19		30		49		13:00			468		343		811	
01:15			18		20		38		13:15			495		318		813	
01:30			15		18		33		13:30			470		334		804	
01:45			19	71	32	100	51	171	13:45			424	1857	357	1352	781	3209
02:00			12		14		26		14:00			408		312		720	
02:15			13		26		39		14:15			471		349		820	
02:30			10		8		18		14:30			437		330		767	
02:45			18	53	19	67	37	120	14:45			437	1753	360	1351	797	3104
03:00			16		10		26		15:00			448		413		861	
03:15			20		8		28		15:15			443		358		801	
03:30			29		14		43		15:30			477		351		828	
03:45			33	98	10	42	43	140	15:45			486	1854	360	1482	846	3336
04:00			36		13		49		16:00			365		466		831	
04:15			37		15		52		16:15			372		553		925	
04:30			68		19		87		16:30			388		538		926	
04:45			78	219	27	74	105	293	16:45			360	1485	449	2006	809	3491
05:00			83		34		117		17:00			369		612		981	
05:15			147		36		183		17:15			359		568		927	
05:30			176		59		235		17:30			406		541		947	
05:45			198	604	73	202	271	806	17:45			341	1475	506	2227	847	3702
06:00			188		86		274		18:00			398		417		815	
06:15			246		119		365		18:15			390		400		790	
06:30			324		137		461		18:30			405		344		749	
06:45			419	1177	157	499	576	1676	18:45			340	1533	351	1512	691	3045
07:00			351		252		603		19:00			306		336		642	
07:15			398		329		727		19:15			326		288		614	
07:30			478		357		835		19:30			269		229		498	
07:45			495	1722	416	1354	911	3076	19:45			259	1160	253	1106	512	2266
08:00			466		345		811		20:00			250		270		520	
08:15			508		352		860		20:15			217		247		464	
08:30			478		400		878		20:30			229		237		466	
08:45			473	1925	383	1480	856	3405	20:45			186	882	244	998	430	1880
09:00			445		319		764		21:00			211		251		462	
09:15			403		303		706		21:15			180		253		433	
09:30			458		303		761		21:30			156		220		376	
09:45			408	1714	256	1181	664	2895	21:45			131	678	216	940	347	1618
10:00			349		246		595		22:00			131		149		280	
10:15			382		263		645		22:15			117		148		265	
10:30			382		301		683		22:30			87		127		214	
10:45			435	1548	283	1093	718	2641	22:45			86	421	82	506	168	927
11:00			457		290		747		23:00			57		86		143	
11:15			445		298		743		23:15			64		87		151	
11:30			478		327		805		23:30			46		89		135	
11:45			471	1851	361	1276	832	3127	23:45			56	223	65	327	121	550
TOTALS				11097		7546		18643	TOTALS				15270		15240		30510
SPLIT %				59.5%		40.5%		37.9%	SPLIT %				50.0%		50.0%		62.1%

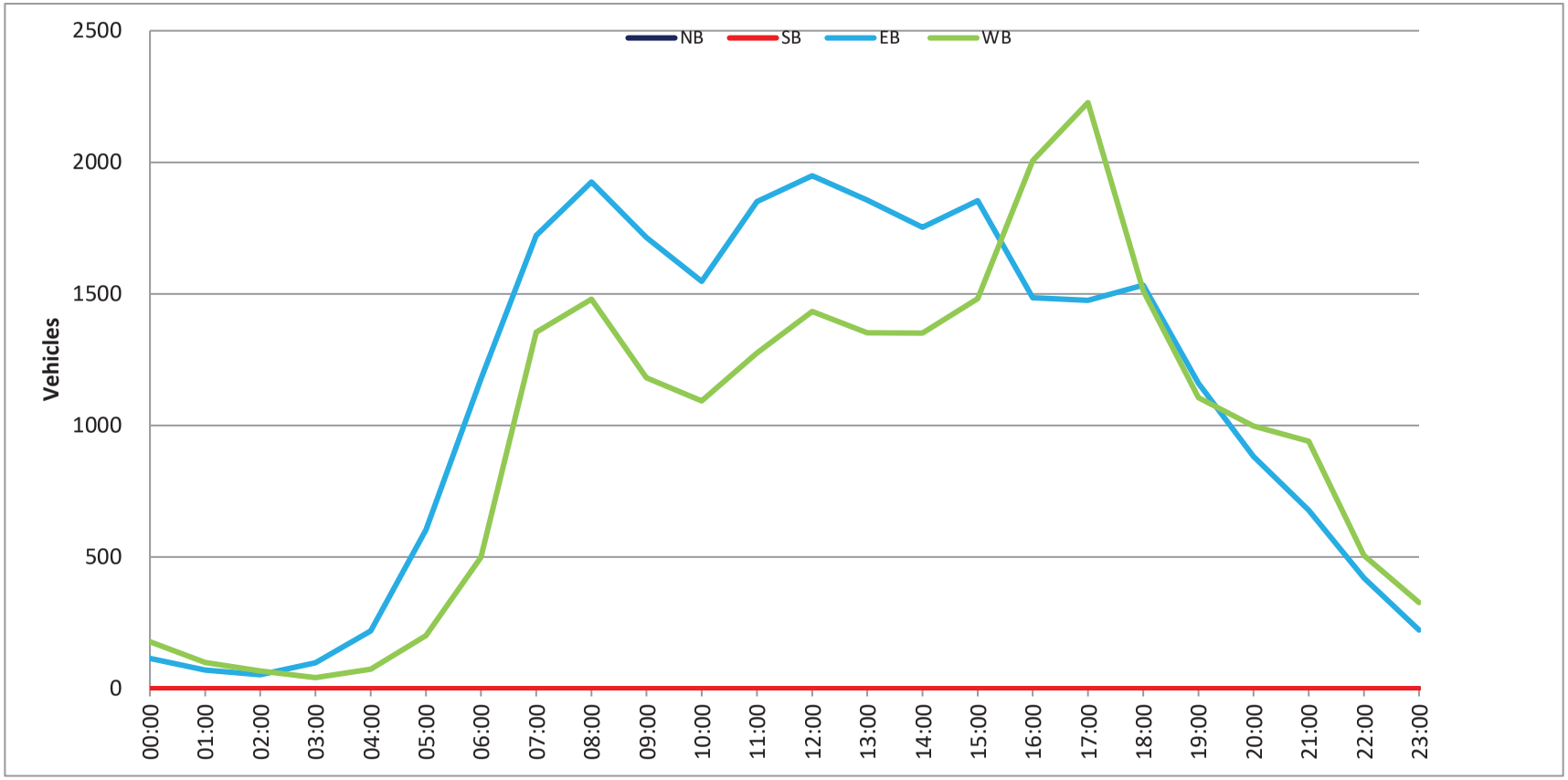
DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	26,367	22,786	49,153

AM Peak Hour				07:30		07:45		07:45	PM Peak Hour				12:30		17:00		17:00
AM Pk Volume				1947		1513		3460	PM Pk Volume				1976		2227		3702
Pk Hr Factor				0.958		0.909		0.950	Pk Hr Factor				0.950		0.910		0.943
7 - 9 Volume	0	0		3647		2834		6481	4 - 6 Volume	0	0		2960		4233		7193
7 - 9 Peak Hour				07:30		07:45		07:45	4 - 6 Peak Hour				16:45		17:00		17:00
7 - 9 Pk Volume	0	0		1947		1513		3460	4 - 6 Pk Volume	0	0		1494		2227		3702
Pk Hr Factor	0.000	0.000		0.958		0.909		0.950	Pk Hr Factor	0.000	0.000		0.920		0.910		0.943

Prepared by NDS/ATD

Project #: CA19_4037_019 **City:** Clairemont

Location: Balboa Ave Bet. I 805 SB Ramps & I 805 NB **Date:** 1/29/2019



Prepared by NDS/ATD

VOLUME

Balboa Ave Bet. I 805 NB Ramps & Ruffner St

Day: Tuesday
Date: 1/29/2019

City: Clairemont
Project #: CA19_4037_020

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	23,552	27,676	51,228

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			32		54		86		12:00			386		529		915	
00:15			26		42		68		12:15			390		495		885	
00:30			27		42		69		12:30			401		491		892	
00:45			19	104	35	173	54	277	12:45			400	1577	492	2007	892	3584
01:00			16		32		48		13:00			385		487		872	
01:15			14		19		33		13:15			376		485		861	
01:30			19		23		42		13:30			371		499		870	
01:45			10	59	32	106	42	165	13:45			379	1511	481	1952	860	3463
02:00			10		16		26		14:00			325		484		809	
02:15			17		21		38		14:15			389		484		873	
02:30			11		10		21		14:30			329		478		807	
02:45			12	50	20	67	32	117	14:45			365	1408	464	1910	829	3318
03:00			18		12		30		15:00			346		555		901	
03:15			14		11		25		15:15			340		473		813	
03:30			34		16		50		15:30			373		523		896	
03:45			55	121	13	52	68	173	15:45			430	1489	491	2042	921	3531
04:00			61		26		87		16:00			408		552		960	
04:15			38		36		74		16:15			403		626		1029	
04:30			69		35		104		16:30			396		597		993	
04:45			63	231	57	154	120	385	16:45			356	1563	539	2314	895	3877
05:00			54		61		115		17:00			383		555		938	
05:15			108		69		177		17:15			399		568		967	
05:30			122		92		214		17:30			425		591		1016	
05:45			152	436	108	330	260	766	17:45			397	1604	535	2249	932	3853
06:00			156		128		284		18:00			355		413		768	
06:15			211		150		361		18:15			373		356		729	
06:30			267		187		454		18:30			325		310		635	
06:45			339	973	197	662	536	1635	18:45			317	1370	359	1438	676	2808
07:00			366		249		615		19:00			300		358		658	
07:15			415		318		733		19:15			302		332		634	
07:30			489		354		843		19:30			256		307		563	
07:45			520	1790	385	1306	905	3096	19:45			222	1080	294	1291	516	2371
08:00			506		370		876		20:00			221		300		521	
08:15			545		387		932		20:15			214		279		493	
08:30			474		386		860		20:30			187		315		502	
08:45			489	2014	368	1511	857	3525	20:45			170	792	269	1163	439	1955
09:00			351		380		731		21:00			183		297		480	
09:15			342		418		760		21:15			179		344		523	
09:30			327		395		722		21:30			134		254		388	
09:45			315	1335	383	1576	698	2911	21:45			132	628	224	1119	356	1747
10:00			331		330		661		22:00			106		188		294	
10:15			289		393		682		22:15			102		157		259	
10:30			315		413		728		22:30			97		133		230	
10:45			369	1304	363	1499	732	2803	22:45			83	388	96	574	179	962
11:00			319		429		748		23:00			56		84		140	
11:15			381		461		842		23:15			47		96		143	
11:30			400		472		872		23:30			51		90		141	
11:45			417	1517	481	1843	898	3360	23:45			54	208	68	338	122	546
TOTALS				9934		9279		19213	TOTALS				13618		18397		32015
SPLIT %				51.7%		48.3%		37.5%	SPLIT %				42.5%		57.5%		62.5%

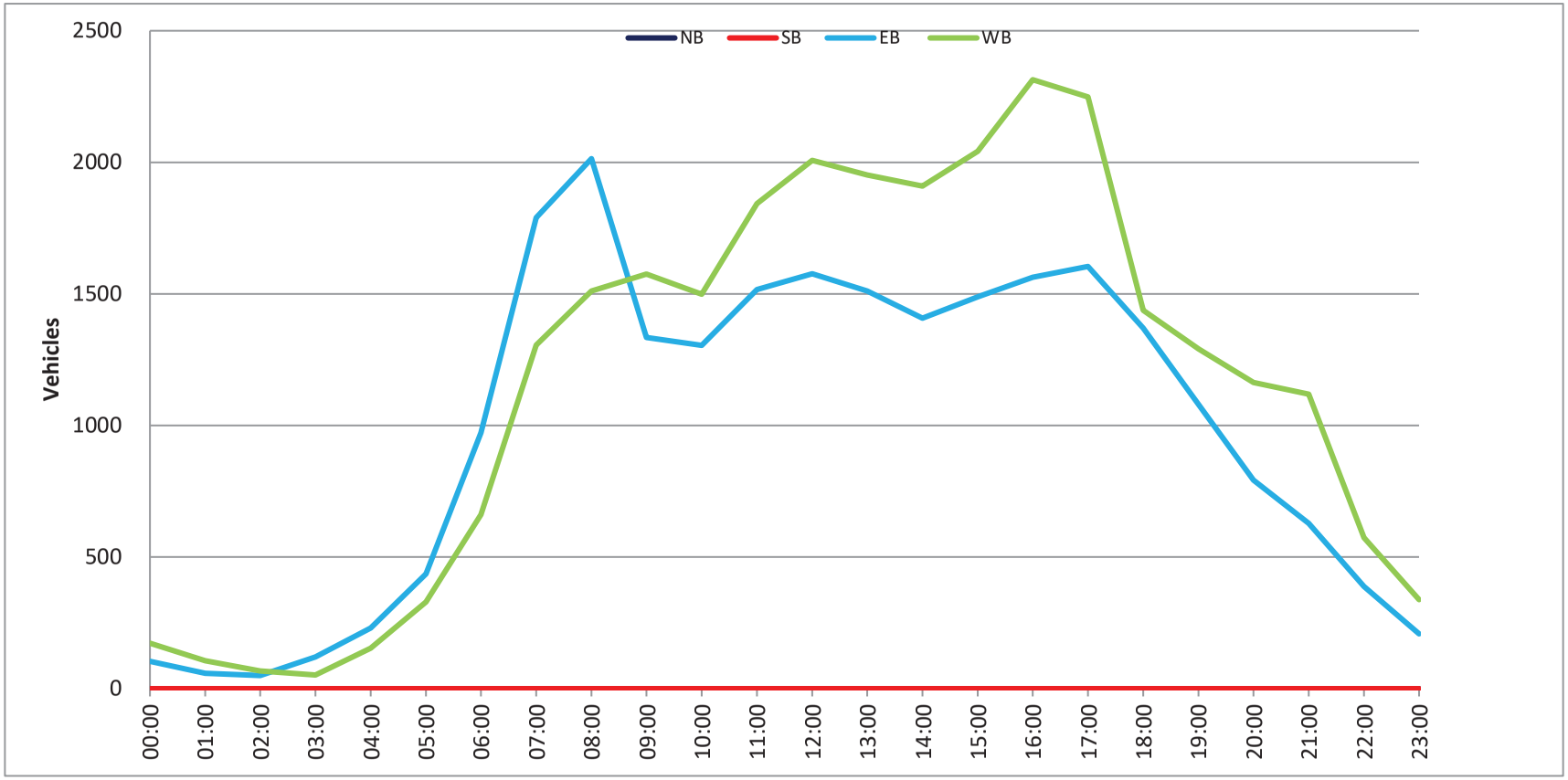
DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	23,552	27,676	51,228

AM Peak Hour			07:30		11:45		11:45	PM Peak Hour			15:45		16:15		15:45
AM Pk Volume			2060		1996		3590	PM Pk Volume			1637		2317		3903
Pk Hr Factor			0.945		0.943		0.981	Pk Hr Factor			0.952		0.925		0.948
7 - 9 Volume	0	0	3804		2817		6621	4 - 6 Volume	0	0	3167		4563		7730
7 - 9 Peak Hour			07:30		07:45		07:45	4 - 6 Peak Hour			17:00		16:15		16:00
7 - 9 Pk Volume	0	0	2060		1528		3573	4 - 6 Pk Volume	0	0	1604		2317		3877
Pk Hr Factor	0.000	0.000	0.945		0.987		0.958	Pk Hr Factor	0.000	0.000	0.944		0.925		0.942

Prepared by NDS/ATD

Project #: CA19_4037_020 **City:** Clairemont

Location: Balboa Ave Bet. I 805 NB Ramps & Ruffner **Date:** 1/29/2019



National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Clairemont Mesa Blvd
City: San Diego
Control: Signalized

Project ID: 19-04036-001
Date: 1/29/2019

Total

NS/EW Streets:	Genesee Ave				Genesee Ave				Clairemont Mesa Blvd				Clairemont Mesa Blvd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	2	0	0	1	2	0	0	2	2	0	0	2	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	31	267	13	0	17	41	8	2	51	108	19	3	17	115	46	0	738
7:15 AM	30	279	21	0	24	70	11	5	61	134	33	1	21	127	58	4	879
7:30 AM	23	300	8	0	28	87	14	0	72	131	35	0	26	145	71	1	941
7:45 AM	29	229	12	0	20	88	28	2	43	85	29	2	25	138	88	6	824
8:00 AM	29	266	15	0	20	96	18	0	55	90	27	2	22	108	73	1	822
8:15 AM	34	251	18	0	32	81	29	1	61	110	28	1	23	118	115	0	902
8:30 AM	49	256	13	0	25	95	26	3	44	129	27	0	30	145	72	3	917
8:45 AM	49	228	21	0	29	110	27	2	48	108	47	3	31	149	60	5	917
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	274	2076	121	0	195	668	161	15	435	895	245	12	195	1045	583	20	6940
APPROACH %'s :	11.09%	84.01%	4.90%	0.00%	18.77%	64.29%	15.50%	1.44%	27.41%	56.40%	15.44%	0.76%	10.58%	56.70%	31.63%	1.09%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	161	1001	67	0	106	382	100	6	208	437	129	6	106	520	320	9	3558
PEAK HR FACTOR :	0.821	0.941	0.798	0.000	0.828	0.868	0.862	0.500	0.852	0.847	0.686	0.500	0.855	0.872	0.696	0.450	0.970
	0.966				0.884				0.947				0.933				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	2	0	0	1	2	0	0	2	2	0	0	2	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	71	97	28	0	29	168	21	0	30	152	76	2	61	218	17	2	972
4:15 PM	69	91	19	0	27	208	25	1	36	162	90	4	47	189	21	3	992
4:30 PM	73	108	27	0	31	210	26	2	35	155	69	1	55	176	34	4	1006
4:45 PM	71	82	29	0	38	235	21	0	40	162	57	4	41	184	27	3	994
5:00 PM	73	99	16	0	43	205	27	1	35	159	65	1	42	171	21	5	963
5:15 PM	57	119	24	0	41	231	29	0	30	145	67	5	49	200	26	6	1029
5:30 PM	52	93	37	0	38	207	24	1	37	196	62	1	54	182	31	1	1016
5:45 PM	65	81	18	0	31	196	22	2	28	166	60	8	38	179	24	5	923
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	531	770	198	0	278	1660	195	7	271	1297	546	26	387	1499	201	29	7895
APPROACH %'s :	35.42%	51.37%	13.21%	0.00%	12.99%	77.57%	9.11%	0.33%	12.66%	60.61%	25.51%	1.21%	18.29%	70.84%	9.50%	1.37%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	253	393	106	0	160	878	101	2	142	662	251	11	186	737	105	15	4002
PEAK HR FACTOR :	0.866	0.826	0.716	0.000	0.930	0.934	0.871	0.500	0.888	0.844	0.937	0.550	0.861	0.921	0.847	0.625	0.972
	0.940				0.948				0.900				0.928				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Clairemont Mesa Blvd
City: San Diego
Control: Signalized

Project ID: 19-04036-001
Date: 1/29/2019

Bikes

NS/EW Streets:	Genesee Ave				Genesee Ave				Clairemont Mesa Blvd				Clairemont Mesa Blvd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	2	0	0	1	2	0	0	2	2	0	0	2	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
7:30 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
7:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
8:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	4	0	0	1	2	0	0	0	3	0	0	1	1	0	0	12
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	33.33%	66.67%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	1	0	0	0	1	0	0	0	2	0	0	1	1	0	0	6
PEAK HR FACTOR :	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.500	0.000	0.000	0.250	0.250	0.000	0.000	0.750
		0.250				0.250				0.500				0.500			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	2	0	0	1	2	0	0	2	2	0	0	2	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	1	0	0	0	0	1	0	0	1	1	0	4
5:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	1	3	0	0	0	3	2	0	0	1	1	0	11
APPROACH %'s :					25.00%	75.00%	0.00%	0.00%	0.00%	60.00%	40.00%	0.00%	0.00%	50.00%	50.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	2	0	0	0	2	1	0	0	1	1	0	7
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.500	0.250	0.000	0.000	0.250	0.250	0.000	0.438
						0.500				0.750				0.250			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Clairemont Mesa Blvd **Project ID:** 19-04036-001
City: San Diego **Date:** 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Genesee Ave		Genesee Ave		Clairemont Mesa Blvd		Clairemont Mesa Blvd		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	6	0	0	0	1	3	1	3	14
7:15 AM	4	1	1	0	0	2	0	1	9
7:30 AM	5	2	0	1	2	1	3	1	15
7:45 AM	1	2	2	0	0	1	0	0	6
8:00 AM	8	4	0	1	2	0	1	2	18
8:15 AM	3	1	4	2	1	1	0	1	13
8:30 AM	2	1	3	1	0	1	0	0	8
8:45 AM	4	2	1	0	0	0	0	3	10
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	33	13	11	5	6	9	5	11	93
APPROACH %'s :	71.74%	28.26%	68.75%	31.25%	40.00%	60.00%	31.25%	68.75%	
PEAK HR :	**08:00 AM - 09:00 AM**								TOTAL
PEAK HR VOL :	17	8	8	4	3	2	1	6	49
PEAK HR FACTOR :	0.531	0.500	0.500	0.500	0.375	0.500	0.250	0.500	0.681
	0.521		0.500		0.625		0.583		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	5	3	3	2	0	1	1	1	16
4:15 PM	4	4	0	0	0	4	2	4	18
4:30 PM	2	4	4	0	1	1	0	0	12
4:45 PM	7	1	4	1	1	4	2	1	21
5:00 PM	1	1	2	2	1	3	1	0	11
5:15 PM	1	1	4	1	0	0	1	4	12
5:30 PM	0	2	4	0	2	2	1	1	12
5:45 PM	6	1	0	0	0	0	1	0	8
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	26	17	21	6	5	15	9	11	110
APPROACH %'s :	60.47%	39.53%	77.78%	22.22%	25.00%	75.00%	45.00%	55.00%	
PEAK HR :	**04:45 PM - 05:45 PM**								TOTAL
PEAK HR VOL :	9	5	14	4	4	9	5	6	56
PEAK HR FACTOR :	0.321	0.625	0.875	0.500	0.500	0.563	0.625	0.375	0.667
	0.438		0.900		0.650		0.550		

Prepared by National Data & Surveying Services

Genesee Ave & Clairemont Mesa Blvd

Peak Hour Turning Movement Count

ID: 19-04036-001
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS	COUNT PERIODS
08:00 AM - 09:00 AM	07:00 AM - 09:00 AM
NONE	NONE
04:45 PM - 05:45 PM	04:00 PM - 06:00 PM

SOUTHBOUND — Genesee Ave

AM	100	382	106	6	1535	AM
NOON	0	0	0	0	0	NOON
PM	101	878	160	2	642	PM
	0	2	1	0		

EASTBOUND — Clairemont Mesa Blvd

AM	NOON	PM	
787	0	1102	
6	0	11	0
208	0	142	2
437	0	662	2
129	0	251	0
AM	NOON	PM	

WESTBOUND — Clairemont Mesa Blvd

PM	NOON	AM	
105	0	320	0
737	0	520	2
186	0	106	2
15	0	9	0
943	0	619	
PM	NOON	AM	

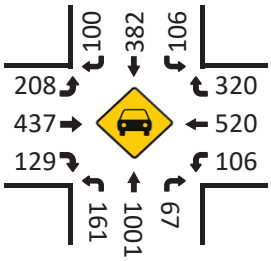
CONTROL: Signalized

TEV	3558 AM	0 NOON	4002 PM
PHF	0.97		0.97

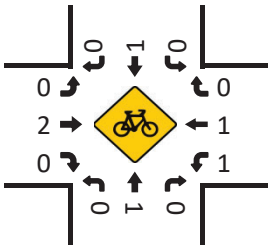
NORTHBOUND — Genesee Ave

PM	1315	0	253	393	106	PM
NOON	0	0	0	0	0	NOON
AM	617	0	161	1001	67	AM
		0	2	2	0	

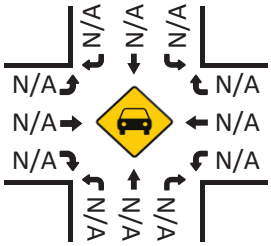
Total Vehicles (AM)



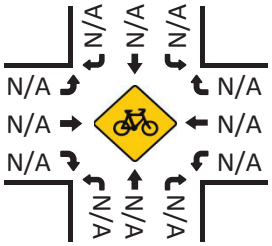
Bikes (AM)



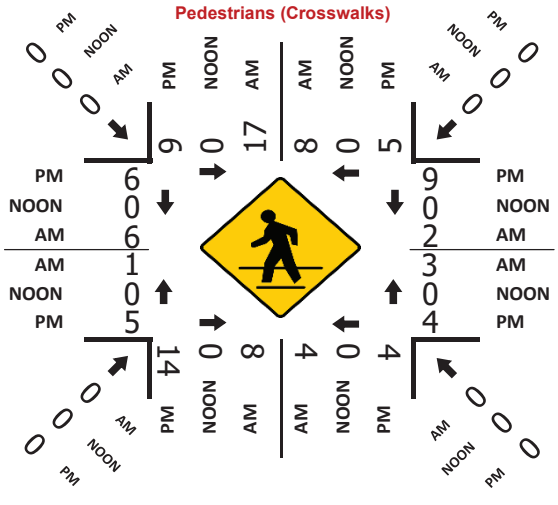
Total Vehicles (Noon)



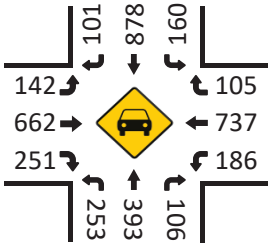
Bikes (NOON)



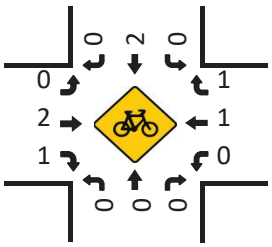
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Bannock Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-002
Date: 1/29/2019

Total

NS/EW Streets:	Genesee Ave				Genesee Ave				Bannock Ave				Bannock Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	9	282	1	0	0	89	6	1	9	0	8	0	1	0	2	0	408
7:15 AM	7	265	0	0	0	147	7	0	2	0	10	0	6	0	4	0	448
7:30 AM	31	326	0	1	1	131	11	0	9	1	22	0	2	4	3	0	542
7:45 AM	17	273	0	1	3	133	2	0	11	1	20	0	4	3	0	0	468
8:00 AM	9	310	3	0	1	120	1	0	3	1	15	0	3	2	5	0	473
8:15 AM	11	300	0	1	1	113	6	1	4	0	9	0	6	1	5	0	458
8:30 AM	3	322	1	2	1	115	3	0	8	0	14	0	1	1	3	0	474
8:45 AM	10	300	0	0	2	158	4	0	2	0	9	0	2	1	3	0	491
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	97	2378	5	5	9	1006	40	2	48	3	107	0	25	12	25	0	3762
APPROACH %'s :	3.90%	95.69%	0.20%	0.20%	0.85%	95.18%	3.78%	0.19%	30.38%	1.90%	67.72%	0.00%	40.32%	19.35%	40.32%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	68	1209	3	3	6	497	20	1	27	3	66	0	15	10	13	0	1941
PEAK HR FACTOR :	0.548	0.927	0.250	0.750	0.500	0.934	0.455	0.250	0.614	0.750	0.750	0.000	0.625	0.625	0.650	0.000	0.895
	0.896				0.916				0.750				0.792				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	13	201	0	0	2	281	6	1	3	3	21	0	1	1	2	0	535
4:15 PM	8	192	1	6	2	314	9	1	3	0	22	0	1	2	0	0	561
4:30 PM	7	210	0	1	0	319	4	0	3	0	20	0	3	0	1	0	568
4:45 PM	22	194	1	3	2	341	6	1	3	0	16	0	3	1	0	0	593
5:00 PM	19	172	0	2	4	299	4	0	8	5	26	0	5	0	2	0	546
5:15 PM	22	181	2	1	2	331	6	0	5	2	19	0	3	0	0	0	574
5:30 PM	21	160	3	2	5	321	4	0	5	0	27	0	4	1	4	0	557
5:45 PM	18	178	0	0	2	293	3	0	4	1	15	0	2	0	1	0	517
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	130	1488	7	15	19	2499	42	3	34	11	166	0	22	5	10	0	4451
APPROACH %'s :	7.93%	90.73%	0.43%	0.91%	0.74%	97.50%	1.64%	0.12%	16.11%	5.21%	78.67%	0.00%	59.46%	13.51%	27.03%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	70	757	3	7	8	1290	20	1	19	7	81	0	14	1	3	0	2281
PEAK HR FACTOR :	0.795	0.901	0.375	0.583	0.500	0.946	0.833	0.250	0.594	0.350	0.779	0.000	0.700	0.250	0.375	0.000	0.962
	0.951				0.942				0.686				0.643				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Bannock Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-002
Date: 1/29/2019

Bikes

NS/EW Streets:	Genesee Ave				Genesee Ave				Bannock Ave				Bannock Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
7:30 AM	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	7	0	0	0	2	0	0	1	0	0	0	0	0	0	0	10
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%					
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4
PEAK HR FACTOR :	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
		0.375								0.250							

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	3
4:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	3
5:30 PM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	3
5:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1	0	0	1	7	1	0	0	0	1	0	0	0	2	0	13
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	11.11%	77.78%	11.11%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	0	1	0	0	0	3	0	0	0	0	0	0	0	0	1	0	5
PEAK HR FACTOR :	0.00	0.250	0.000	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.417
		0.250				0.750									0.250		

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Bannock Ave
City: San Diego
Project ID: 19-04036-002
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Genesee Ave		Genesee Ave		Bannock Ave		Bannock Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	1	0	0	0	0	2	3
7:15 AM	0	2	1	0	1	1	0	0	5
7:30 AM	0	0	0	0	0	0	1	0	1
7:45 AM	1	0	0	2	0	0	0	0	3
8:00 AM	1	2	2	0	0	0	0	1	6
8:15 AM	0	0	0	0	1	0	0	1	2
8:30 AM	0	1	0	1	1	0	0	0	3
8:45 AM	0	1	1	3	0	0	1	1	7
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	2	6	5	6	3	1	2	5	30
APPROACH %'s :	25.00%	75.00%	45.45%	54.55%	75.00%	25.00%	28.57%	71.43%	
PEAK HR :	**07:30 AM - 08:30 AM**								TOTAL
PEAK HR VOL :	2	2	2	2	1	0	1	2	12
PEAK HR FACTOR :	0.500	0.250	0.250	0.250	0.250		0.250	0.500	0.500
	0.333		0.500		0.250		0.750		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	1	5	0	1	0	0	1	8
4:15 PM	0	1	1	1	0	0	0	1	4
4:30 PM	2	2	0	0	1	1	1	3	10
4:45 PM	0	0	1	0	0	0	0	1	2
5:00 PM	0	1	1	3	0	0	2	1	8
5:15 PM	0	1	1	0	0	0	1	0	3
5:30 PM	0	1	0	3	0	0	0	1	5
5:45 PM	1	0	0	1	0	1	0	0	3
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	3	7	9	8	2	2	4	8	43
APPROACH %'s :	30.00%	70.00%	52.94%	47.06%	50.00%	50.00%	33.33%	66.67%	
PEAK HR :	**04:30 PM - 05:30 PM**								TOTAL
PEAK HR VOL :	2	4	3	3	1	1	4	5	23
PEAK HR FACTOR :	0.250	0.500	0.750	0.250	0.250	0.250	0.500	0.417	0.575
	0.375		0.375		0.250		0.563		

Prepared by National Data & Surveying Services

Genesee Ave & Bannock Ave

Peak Hour Turning Movement Count

ID: 19-04036-002
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS

AM: 07:30 AM - 08:30 AM
NOON: NONE
PM: 04:30 PM - 05:30 PM

COUNT PERIODS

AM: 07:00 AM - 09:00 AM
NOON: NONE
PM: 04:00 PM - 06:00 PM

SOUTHBOUND (Genesee Ave)

AM	20	497	6	1	1250	AM
NOON	0	0	0	0	0	NOON
PM	20	1290	8	1	780	PM

EASTBOUND (Bannock Ave)

AM	NOON	PM		
98	0	91		
0	0	0	0	
27	0	19	0	
3	0	7	1	
66	0	81	0	

WESTBOUND (Bannock Ave)

0	3	0	13
1	1	0	10
0	14	0	15
0	0	0	0
	18	0	12

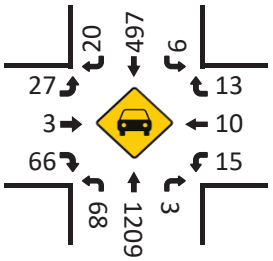
NORTHBOUND (Genesee Ave)

PM	1392	7	70	757	3	PM
NOON	0	0	0	0	0	NOON
AM	581	3	68	1209	3	AM

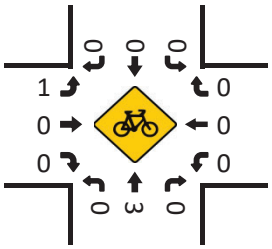
CONTROL: Signalized

TEV	1941 AM	0 NOON	2281 PM
PHF	0.90		0.96

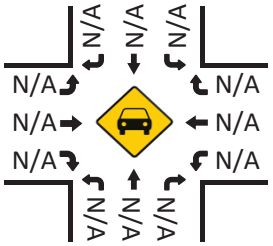
Total Vehicles (AM)



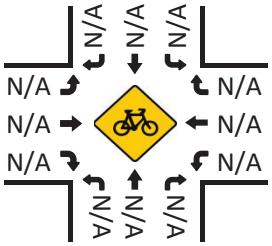
Bikes (AM)



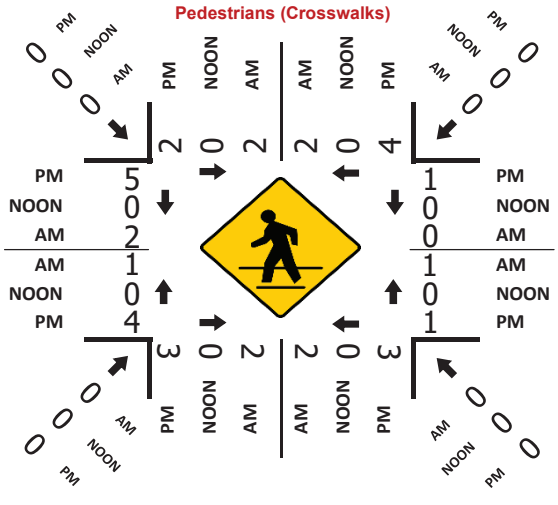
Total Vehicles (Noon)



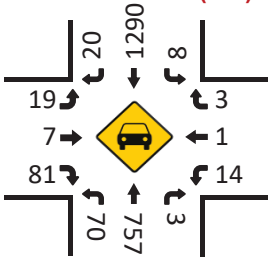
Bikes (NOON)



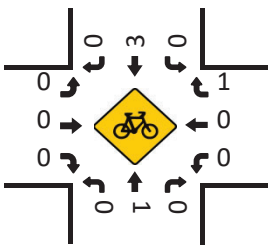
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Chateau Dr
City: San Diego
Control: Signalized

Project ID: 19-04036-003
Date: 1/29/2019

Total

NS/EW Streets:	Genesee Ave				Genesee Ave				Chateau Dr				Chateau Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	0	0	1	2	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	252	10	0	6	78	0	0	0	0	0	0	4	0	23	0	373
7:15 AM	0	240	4	0	5	140	0	0	0	0	0	0	10	0	29	0	428
7:30 AM	0	350	20	0	5	145	0	0	0	0	0	0	10	0	34	0	564
7:45 AM	0	246	16	0	6	166	0	0	0	0	0	0	15	0	22	0	471
8:00 AM	0	260	11	0	8	134	0	0	0	0	0	0	11	0	27	0	451
8:15 AM	0	303	15	0	8	120	0	1	0	0	0	0	10	0	17	0	474
8:30 AM	0	290	8	0	3	126	0	1	0	0	0	0	9	0	24	0	461
8:45 AM	0	286	11	0	2	165	0	0	0	0	0	0	4	0	21	0	489
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	2227	95	0	43	1074	0	2	0	0	0	0	73	0	197	0	3711
APPROACH %'s :	0.00%	95.91%	4.09%	0.00%	3.84%	95.98%	0.00%	0.18%					27.04%	0.00%	72.96%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	1159	62	0	27	565	0	1	0	0	0	0	46	0	100	0	1960
PEAK HR FACTOR :	0.000	0.828	0.775	0.000	0.844	0.851	0.000	0.250	0.000	0.000	0.000	0.000	0.767	0.000	0.735	0.000	0.869
		0.825				0.862								0.830			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	0	0	1	2	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	192	15	0	20	285	0	0	0	0	0	0	11	0	15	0	538
4:15 PM	0	202	8	0	16	324	0	1	0	0	0	0	8	0	19	0	578
4:30 PM	0	195	17	0	18	318	0	0	0	0	0	0	10	0	13	0	571
4:45 PM	0	204	16	0	18	333	0	0	0	0	0	0	15	0	14	0	600
5:00 PM	0	179	10	0	21	312	0	0	0	0	0	0	11	0	13	0	546
5:15 PM	0	186	10	0	19	321	0	1	0	0	0	0	8	0	13	0	558
5:30 PM	0	167	15	0	21	330	0	0	0	0	0	0	11	0	12	0	556
5:45 PM	0	177	12	0	22	288	0	1	0	0	0	0	14	0	13	0	527
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1502	103	0	155	2511	0	3	0	0	0	0	88	0	112	0	4474
APPROACH %'s :	0.00%	93.58%	6.42%	0.00%	5.81%	94.08%	0.00%	0.11%					44.00%	0.00%	56.00%	0.00%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	780	51	0	73	1287	0	1	0	0	0	0	44	0	59	0	2295
PEAK HR FACTOR :	0.000	0.956	0.750	0.000	0.869	0.966	0.000	0.250	0.000	0.000	0.000	0.000	0.733	0.000	0.776	0.000	0.956
		0.944				0.969								0.888			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Chateau Dr
City: San Diego
Control: Signalized

Project ID: 19-04036-003
Date: 1/29/2019

Bikes

NS/EW Streets:	Genesee Ave				Genesee Ave				Chateau Dr				Chateau Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	0	0	1	2	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
7:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	5	0	0	0	3	0	0	0	0	0	0	0	0	0	0	8
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%									
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4
PEAK HR FACTOR :	0.000	0.375	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
	0.375				0.250												

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	2	0	0	1	2	0	0	0	0	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
4:45 PM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	3	0	0	0	8	0	0	0	0	0	0	0	0	0	0	11
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%									
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	7
PEAK HR FACTOR :	0.00	0.500	0.000	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.583
	0.500				0.625												

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Chateau Dr
City: San Diego
Project ID: 19-04036-003
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Genesee Ave		Genesee Ave		Chateau Dr		Chateau Dr		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	1	2	0	0	0	0	0	0	3
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	0	0	0	0	0	1
8:30 AM	0	1	0	0	0	0	0	0	1
8:45 AM	1	0	0	0	1	0	0	0	2
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	2	4	0	0	1	0	0	0	7
APPROACH %'s :	33.33%	66.67%			100.00%	0.00%			
PEAK HR :	**07:30 AM - 08:30 AM**								TOTAL
PEAK HR VOL :	1	3	0	0	0	0	0	0	4
PEAK HR FACTOR :	0.250	0.375							0.333
	0.333								

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	1	0	0	0	2	0	0	3
4:15 PM	1	4	0	0	1	1	0	0	7
4:30 PM	0	1	0	0	0	0	0	0	1
4:45 PM	2	2	0	0	1	1	0	0	6
5:00 PM	1	0	0	0	0	0	0	0	1
5:15 PM	5	0	0	0	0	0	0	0	5
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	9	8	0	0	2	4	0	0	23
APPROACH %'s :	52.94%	47.06%			33.33%	66.67%			
PEAK HR :	**04:15 PM - 05:15 PM**								TOTAL
PEAK HR VOL :	4	7	0	0	2	2	0	0	15
PEAK HR FACTOR :	0.500	0.438			0.500	0.500			0.536
	0.550				0.500				

Prepared by National Data & Surveying Services

Genesee Ave & Chateau Dr

Peak Hour Turning Movement Count

ID: 19-04036-003
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS

AM	07:30 AM - 08:30 AM
NOON	NONE
PM	04:15 PM - 05:15 PM

COUNT PERIODS

AM	07:00 AM - 09:00 AM
NOON	NONE
PM	04:00 PM - 06:00 PM

SOUTHBOUND — Genesee Ave

AM	0	565	27	1	1260	AM
NOON	0	0	0	0	0	NOON
PM	0	1287	73	1	840	PM

EASTBOUND — Chateau Dr

AM	NOON	PM		
0	0	0		
0	0	0	0	
0	0	0	0	
0	0	0	0	
0	0	0	0	
AM	NOON	PM		

WESTBOUND — Chateau Dr

PM	NOON	AM	
59	0	100	0
0	0	0	1
44	0	46	0
0	0	0	0
124	0	89	
PM	NOON	AM	

NORTHBOUND — Genesee Ave

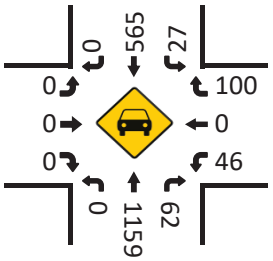
PM	1331	0	0	780	51	PM
NOON	0	0	0	0	0	NOON
AM	611	0	0	1159	62	AM

0	2	1	0
0	0	2	0

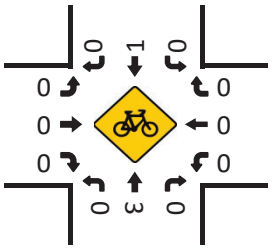
CONTROL: Signalized

TEV	1960 AM	0 NOON	2295 PM
PHF	0.87		0.96

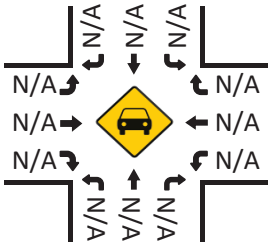
Total Vehicles (AM)



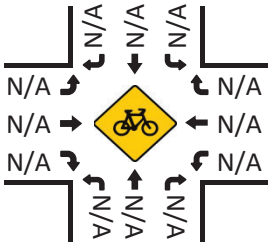
Bikes (AM)



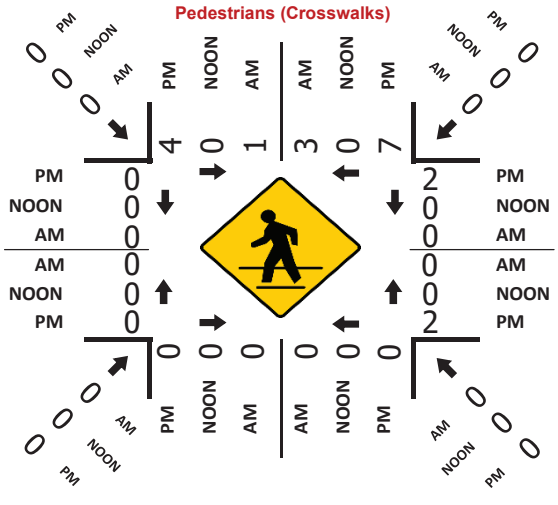
Total Vehicles (Noon)



Bikes (NOON)



Pedestrians (Crosswalks)


PM
NOON
AM
4
0
1
3
0
7
2
0
0
0
0
0
0
0

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Mt Herbert Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-004
Date: 1/29/2019

Total

NS/EW Streets:	Genesee Ave				Genesee Ave				Mt Herbert Ave				Mt Herbert Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	6	222	2	0	0	81	10	0	49	1	14	0	6	1	8	0	400
7:15 AM	5	192	0	0	3	137	16	0	35	1	9	0	6	1	1	0	406
7:30 AM	3	303	2	0	1	125	15	0	61	0	10	0	3	0	15	0	538
7:45 AM	5	229	0	0	4	165	14	1	30	0	4	0	4	0	6	0	462
8:00 AM	2	230	1	1	2	142	6	0	41	0	6	0	2	0	9	0	442
8:15 AM	8	270	1	0	1	113	12	0	32	0	6	0	4	0	9	0	456
8:30 AM	7	247	1	0	0	127	14	0	41	1	3	0	5	2	4	0	452
8:45 AM	6	265	1	0	2	144	15	0	30	0	8	0	3	0	4	0	478
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	42	1958	8	1	13	1034	102	1	319	3	60	0	33	4	56	0	3634
APPROACH %'s :	2.09%	97.46%	0.40%	0.05%	1.13%	89.91%	8.87%	0.09%	83.51%	0.79%	15.71%	0.00%	35.48%	4.30%	60.22%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	18	1032	4	1	8	545	47	1	164	0	26	0	13	0	39	0	1898
PEAK HR FACTOR :	0.563	0.851	0.500	0.250	0.500	0.826	0.783	0.250	0.672	0.000	0.650	0.000	0.813	0.000	0.650	0.000	0.882
		0.856				0.817				0.669				0.722			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	6	189	4	0	1	276	30	0	15	0	8	0	5	0	0	0	534
4:15 PM	5	176	3	2	5	289	36	0	25	0	9	0	2	0	1	0	553
4:30 PM	3	185	6	0	1	287	26	0	21	2	9	0	4	1	9	0	554
4:45 PM	4	193	3	0	4	321	32	0	26	1	12	0	4	2	3	0	605
5:00 PM	7	165	3	1	2	287	35	0	17	3	13	0	5	2	3	0	543
5:15 PM	7	173	2	1	4	283	39	0	20	3	7	0	4	2	4	0	549
5:30 PM	8	167	3	0	4	307	32	2	21	1	4	0	6	1	2	0	558
5:45 PM	9	142	4	1	4	258	40	0	37	3	8	0	3	0	6	0	515
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	49	1390	28	5	25	2308	270	2	182	13	70	0	33	8	28	0	4411
APPROACH %'s :	3.33%	94.43%	1.90%	0.34%	0.96%	88.60%	10.36%	0.08%	68.68%	4.91%	26.42%	0.00%	47.83%	11.59%	40.58%	0.00%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	19	719	15	3	12	1184	129	0	89	6	43	0	15	5	16	0	2255
PEAK HR FACTOR :	0.679	0.931	0.625	0.375	0.600	0.922	0.896	0.000	0.856	0.500	0.827	0.000	0.750	0.625	0.444	0.000	0.932
		0.945				0.928				0.885				0.643			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Mt Herbert Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-004
Date: 1/29/2019

Bikes

NS/EW Streets:	Genesee Ave				Genesee Ave				Mt Herbert Ave				Mt Herbert Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:15 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	4	0	0	0	2	1	0	0	0	0	0	0	0	0	0	7
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	66.67%	33.33%	0.00%									
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	3	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5
PEAK HR FACTOR :	0.000	0.375	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625
		0.375				0.500											

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	3
4:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1	0	0	0	5	3	0	1	0	0	0	0	0	0	0	10
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	62.50%	37.50%	0.00%	100.00%	0.00%	0.00%	0.00%					
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	3	1	0	1	0	0	0	0	0	0	0	5
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.000	0.750	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.417
						0.500				0.250							

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Mt Herbert Ave
City: San Diego
Project ID: 19-04036-004
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Genesee Ave		Genesee Ave		Mt Herbert Ave		Mt Herbert Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	2	0	0	0	0	0	0	0	2
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	4	0	0	0	0	3	7
8:15 AM	0	2	0	0	0	0	0	0	2
8:30 AM	1	0	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	1	0	0	0	1
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	3	2	4	0	1	0	0	3	13
APPROACH %'s :	60.00%	40.00%	100.00%	0.00%	100.00%	0.00%	0.00%	100.00%	
PEAK HR :	**07:30 AM - 08:30 AM**								TOTAL
PEAK HR VOL :	0	2	4	0	0	0	0	3	9
PEAK HR FACTOR :		0.250	0.250					0.250	0.321
	0.250		0.250				0.250		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	1	0	2	1	0	0	4
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	1	0	0	1
4:45 PM	0	1	1	1	0	0	1	0	4
5:00 PM	1	1	0	0	0	1	0	0	3
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	1	0	0	0	0	0	0	0	1
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	2	2	2	1	2	3	1	0	13
APPROACH %'s :	50.00%	50.00%	66.67%	33.33%	40.00%	60.00%	100.00%	0.00%	
PEAK HR :	**04:15 PM - 05:15 PM**								TOTAL
PEAK HR VOL :	1	2	1	1	0	2	1	0	8
PEAK HR FACTOR :	0.250	0.500	0.250	0.250		0.500	0.250		0.500
	0.375		0.250		0.500		0.250		

Prepared by National Data & Surveying Services

Genesee Ave & Mt Herbert Ave

Peak Hour Turning Movement Count

ID: 19-04036-004
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS	COUNT PERIODS
07:30 AM - 08:30 AM	07:00 AM - 09:00 AM
NONE	NONE
04:15 PM - 05:15 PM	04:00 PM - 06:00 PM

Genesee Ave — SOUTHBOUND

AM	47	545	8	1	1236	AM
NOON	0	0	0	0	0	NOON
PM	129	1184	12	0	824	PM

Mt Herbert Ave — EASTBOUND

AM	NOON	PM	
65	0	153	
0	0	0	0
164	0	89	0
0	0	6	1
26	0	43	0
AM	NOON	PM	

CONTROL

Signalized

TEV	1898	0	2255
	AM	NOON	PM
PHF	0.88		0.93

WESTBOUND — Mt Herbert Ave

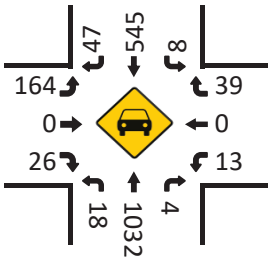
PM	NOON	AM	
16	0	39	0
5	0	0	1
15	0	13	0
0	0	0	0
33	0	12	
PM	NOON	AM	

Genesee Ave — NORTHBOUND

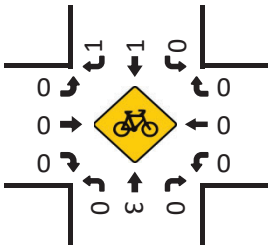
PM	1245	3	19	719	15	PM
NOON	0	0	0	0	0	NOON
AM	585	1	18	1032	4	AM

Turning movements: 0 2 1 0 | 0 1 2 0

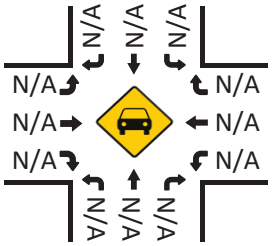
Total Vehicles (AM)



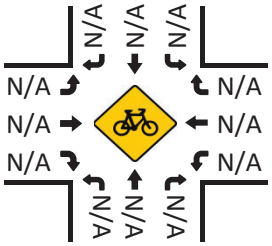
Bikes (AM)



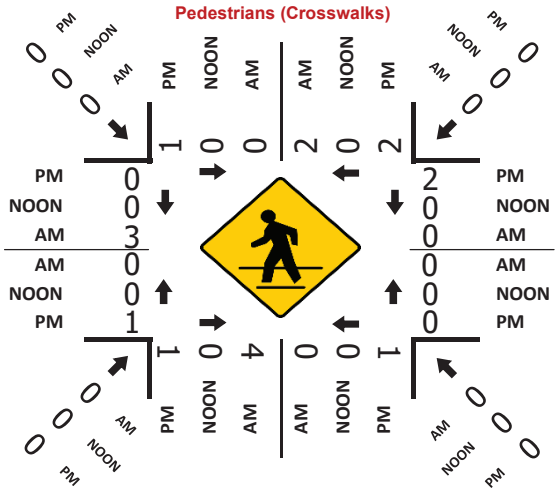
Total Vehicles (Noon)



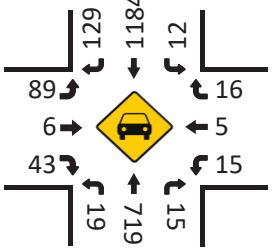
Bikes (NOON)



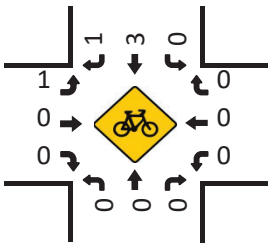
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Derrick Dr
City: San Diego
Control: Signalized

Project ID: 19-04036-005
Date: 1/29/2019

Total

NS/EW Streets:	Genesee Ave				Genesee Ave				Derrick Dr				Derrick Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	0	0	1	3	0	0	0	1	0	0	0	1	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	2	173	20	4	22	78	5	0	7	4	6	0	36	1	23	0	381
7:15 AM	9	201	37	4	19	126	3	3	6	3	4	1	28	4	18	0	466
7:30 AM	7	268	46	1	13	127	5	0	3	6	2	0	29	4	20	0	531
7:45 AM	9	208	46	1	18	148	6	4	6	4	8	0	41	4	18	0	521
8:00 AM	9	229	35	1	24	118	6	0	3	3	7	0	36	4	18	0	493
8:15 AM	8	228	36	3	12	109	0	2	5	4	2	0	50	3	18	0	480
8:30 AM	6	273	55	2	20	114	3	2	3	1	8	0	34	0	18	0	539
8:45 AM	7	222	51	5	20	113	5	5	4	4	8	0	40	3	22	0	509
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	57	1802	326	21	148	933	33	16	37	29	45	1	294	23	155	0	3920
APPROACH %'s :	2.58%	81.69%	14.78%	0.95%	13.10%	82.57%	2.92%	1.42%	33.04%	25.89%	40.18%	0.89%	62.29%	4.87%	32.84%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	32	938	172	7	74	489	15	8	17	12	25	0	161	11	72	0	2033
PEAK HR FACTOR :	0.889	0.859	0.782	0.583	0.771	0.826	0.625	0.500	0.708	0.750	0.781	0.000	0.805	0.688	1.000	0.000	0.943
	0.855				0.832				0.750				0.859				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	0	0	1	3	0	0	0	1	0	0	0	1	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	13	187	78	3	36	241	7	5	7	5	13	0	55	2	24	0	676
4:15 PM	12	156	64	2	25	252	10	3	4	7	7	0	56	6	21	0	625
4:30 PM	9	171	62	1	31	272	12	3	11	10	8	0	61	9	23	0	683
4:45 PM	10	177	60	3	38	225	17	4	9	7	6	0	63	9	20	0	648
5:00 PM	13	139	56	0	40	244	8	7	15	9	15	0	56	10	18	0	630
5:15 PM	7	165	46	2	33	237	15	3	6	9	10	0	51	7	15	0	606
5:30 PM	11	151	58	5	36	221	7	3	9	13	8	0	47	10	7	0	586
5:45 PM	18	149	47	0	34	219	9	4	9	13	10	0	45	8	13	0	578
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	93	1295	471	16	273	1911	85	32	70	73	77	0	434	61	141	0	5032
APPROACH %'s :	4.96%	69.07%	25.12%	0.85%	11.86%	83.05%	3.69%	1.39%	31.82%	33.18%	35.00%	0.00%	68.24%	9.59%	22.17%	0.00%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	44	691	264	9	130	990	46	15	31	29	34	0	235	26	88	0	2632
PEAK HR FACTOR :	0.846	0.924	0.846	0.750	0.855	0.910	0.676	0.750	0.705	0.725	0.654	0.000	0.933	0.722	0.917	0.000	0.963
	0.897				0.928				0.810				0.938				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Derrick Dr
City: San Diego
Control: Signalized

Project ID: 19-04036-005
Date: 1/29/2019

Bikes

NS/EW Streets:	Genesee Ave				Genesee Ave				Derrick Dr				Derrick Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	0	0	1	3	0	0	0	1	0	0	0	1	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
7:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	4	0	0	0	2	0	0	0	0	0	0	2	0	0	0	8
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%					100.00%	0.00%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	4
PEAK HR FACTOR :	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.500
		0.500												0.500			

NS/EW Streets:	Genesee Ave				Genesee Ave				Derrick Dr				Derrick Dr				
PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	0	0	1	3	0	0	0	1	0	0	0	1	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1	1	0	0	4	0	0	0	0	0	0	0	0	1	0	7
APPROACH %'s :	0.00%	50.00%	50.00%	0.00%	0.00%	100.00%	0.00%	0.00%					0.00%	0.00%	100.00%	0.00%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	0	1	1	0	0	3	0	0	0	0	0	0	0	0	0	0	5
PEAK HR FACTOR :	0.00	0.250	0.250	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625
		0.500				0.750											

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Derrick Dr
City: San Diego
Project ID: 19-04036-005
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Genesee Ave		Genesee Ave		Derrick Dr		Derrick Dr		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	3	1	0	0	1	2	7
7:15 AM	0	0	1	0	0	0	0	0	1
7:30 AM	0	1	1	1	1	2	0	0	6
7:45 AM	2	0	2	4	1	1	0	0	10
8:00 AM	2	3	0	2	0	1	0	0	8
8:15 AM	2	0	0	0	4	4	1	0	11
8:30 AM	0	0	1	2	0	0	1	0	4
8:45 AM	1	0	0	0	0	1	0	0	2
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	7	4	8	10	6	9	3	2	49
APPROACH %'s :	63.64%	36.36%	44.44%	55.56%	40.00%	60.00%	60.00%	40.00%	
PEAK HR :	**07:45 AM - 08:45 AM**								TOTAL
PEAK HR VOL :	6	3	3	8	5	6	2	0	33
PEAK HR FACTOR :	0.750	0.250	0.375	0.500	0.313	0.375	0.500		0.750
	0.450		0.458		0.344		0.500		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	3	0	2	1	1	0	7
4:15 PM	0	0	0	1	1	0	1	0	3
4:30 PM	4	0	2	2	1	1	1	0	11
4:45 PM	0	0	1	2	1	4	0	0	8
5:00 PM	0	0	6	2	2	0	1	0	11
5:15 PM	1	0	3	1	3	0	0	0	8
5:30 PM	0	2	1	4	0	3	0	2	12
5:45 PM	0	1	5	1	0	1	0	0	8
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	5	3	21	13	10	10	4	2	68
APPROACH %'s :	62.50%	37.50%	61.76%	38.24%	50.00%	50.00%	66.67%	33.33%	
PEAK HR :	**04:00 PM - 05:00 PM**								TOTAL
PEAK HR VOL :	4	0	6	5	5	6	3	0	29
PEAK HR FACTOR :	0.250		0.500	0.625	0.625	0.375	0.750		0.659
	0.250		0.688		0.550		0.750		

Prepared by National Data & Surveying Services

Genesee Ave & Derrick Dr

Peak Hour Turning Movement Count

ID: 19-04036-005
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS	COUNT PERIODS
07:45 AM - 08:45 AM	07:00 AM - 09:00 AM
NONE	NONE
04:00 PM - 05:00 PM	04:00 PM - 06:00 PM

Genesee Ave — SOUTHBOUND

AM	15	489	74	8	1035	AM
NOON	0	0	0	0	0	NOON
PM	46	990	130	15	825	PM

EASTBOUND — Derrick Dr

AM	NOON	PM	
58	0	116	
0	0	0	0
17	0	31	0
12	0	29	1
25	0	34	0
AM	NOON	PM	

WESTBOUND — Derrick Dr

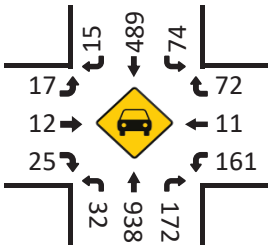
PM	NOON	AM	
88	0	72	1
26	0	11	1
235	0	161	0
0	0	0	0
423	0	258	
PM	NOON	AM	

NORTHBOUND — Genesee Ave

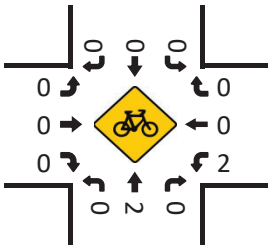
PM	1268	9	44	691	264	PM
NOON	0	0	0	0	0	NOON
AM	682	7	32	938	172	AM

CONTROL			
Signalized			
TEV	2033 AM	0 NOON	2632 PM
PHF	0.94		0.96

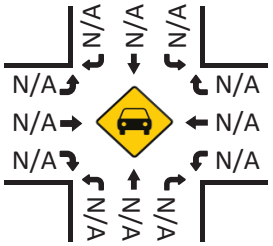
Total Vehicles (AM)



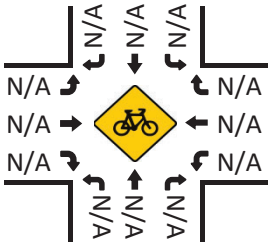
Bikes (AM)



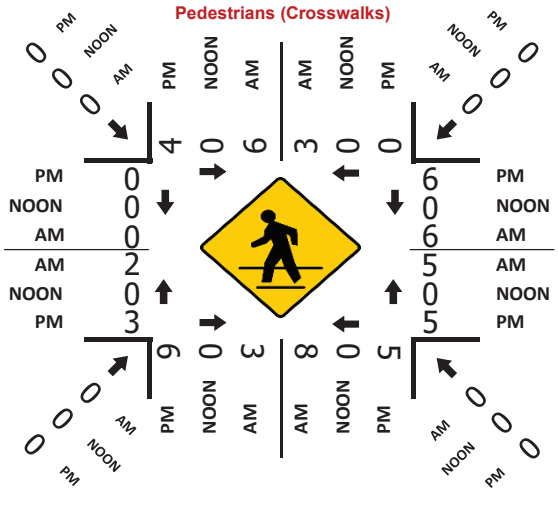
Total Vehicles (Noon)



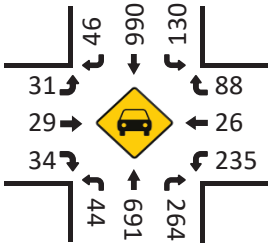
Bikes (NOON)



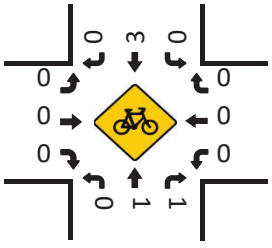
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Mt Everest Blvd & Mt Etna Dr
City: San Diego
Control: 4-Way Stop

Project ID: 19-04036-006
Date: 1/29/2019

Total

NS/EW Streets:	Mt Everest Blvd				Mt Everest Blvd				Mt Etna Dr				Mt Etna Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	8	9	4	1	4	7	0	0	1	11	9	0	4	9	0	0	67
7:15 AM	20	6	17	0	1	7	1	0	1	25	8	0	9	14	1	0	110
7:30 AM	10	15	16	0	4	9	0	0	0	24	20	0	10	5	0	0	113
7:45 AM	11	7	16	0	1	12	1	0	2	16	21	0	11	10	0	0	108
8:00 AM	7	12	6	0	4	18	0	0	0	18	27	0	9	5	4	0	110
8:15 AM	12	9	11	0	2	14	0	0	0	13	24	0	19	5	2	0	111
8:30 AM	22	16	17	0	3	10	1	0	1	15	14	0	10	5	1	0	115
8:45 AM	10	7	23	0	4	10	0	0	1	18	9	0	10	4	3	0	99
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	100	81	110	1	23	87	3	0	6	140	132	0	82	57	11	0	833
APPROACH %'s :	34.25%	27.74%	37.67%	0.34%	20.35%	76.99%	2.65%	0.00%	2.16%	50.36%	47.48%	0.00%	54.67%	38.00%	7.33%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	52	44	50	0	10	54	2	0	3	62	86	0	49	25	7	0	444
PEAK HR FACTOR :	0.591	0.688	0.735	0.000	0.625	0.750	0.500	0.000	0.375	0.861	0.796	0.000	0.645	0.625	0.438	0.000	0.965
	0.664				0.750				0.839				0.779				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	13	10	16	0	2	9	0	0	0	6	5	0	22	20	3	0	106
4:15 PM	15	6	12	0	2	7	0	0	2	19	11	0	20	13	4	0	111
4:30 PM	22	9	24	0	2	14	1	0	0	11	15	0	26	22	1	1	148
4:45 PM	13	14	11	0	1	17	0	0	0	17	10	0	56	10	3	0	152
5:00 PM	23	11	12	0	0	27	1	0	0	11	8	0	44	19	5	0	161
5:15 PM	18	13	10	0	5	22	1	0	0	11	9	0	45	17	4	0	155
5:30 PM	20	6	24	0	0	18	0	0	0	11	10	0	58	17	1	0	165
5:45 PM	22	8	15	0	1	16	0	0	0	23	14	0	38	14	2	0	153
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	146	77	124	0	13	130	3	0	2	109	82	0	309	132	23	1	1151
APPROACH %'s :	42.07%	22.19%	35.73%	0.00%	8.90%	89.04%	2.05%	0.00%	1.04%	56.48%	42.49%	0.00%	66.45%	28.39%	4.95%	0.22%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	83	38	61	0	6	83	2	0	0	56	41	0	185	67	12	0	634
PEAK HR FACTOR :	0.902	0.731	0.635	0.000	0.300	0.769	0.500	0.000	0.000	0.609	0.732	0.000	0.797	0.882	0.600	0.000	0.961
	0.910				0.813				0.655				0.868				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Mt Everest Blvd & Mt Etna Dr
City: San Diego
Control: 4-Way Stop

Project ID: 19-04036-006
Date: 1/29/2019

Bikes

NS/EW Streets:	Mt Everest Blvd				Mt Everest Blvd				Mt Etna Dr				Mt Etna Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
APPROACH %'s :									0.00%	100.00%	0.00%	0.00%					
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.250
										0.250							

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	0.5	0.5	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	1	0	0	1	1	0	1	1	0	0	5
APPROACH %'s :					0.00%	0.00%	100.00%	0.00%	0.00%	50.00%	50.00%	0.00%	50.00%	50.00%	0.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250
														0.250			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Mt Everest Blvd & Mt Etna Dr
City: San Diego
Project ID: 19-04036-006
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Mt Everest Blvd		Mt Everest Blvd		Mt Etna Dr		Mt Etna Dr		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	1	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	1	0	0	0	0	1
7:45 AM	0	0	2	0	0	0	0	2	4
8:00 AM	0	1	0	0	0	0	0	0	1
8:15 AM	0	0	1	1	0	0	1	0	3
8:30 AM	1	1	2	0	0	0	1	0	5
8:45 AM	0	0	0	3	0	2	0	0	5
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	1	2	6	5	0	2	2	2	20
APPROACH %'s :	33.33%	66.67%	54.55%	45.45%	0.00%	100.00%	50.00%	50.00%	
PEAK HR :	**07:45 AM - 08:45 AM**								TOTAL
PEAK HR VOL :	1	2	5	1	0	0	2	2	13
PEAK HR FACTOR :	0.250	0.500	0.625	0.250			0.500	0.250	0.650
	0.375		0.750				0.500		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	2	0	0	0	0	1	3
4:15 PM	1	1	1	1	0	0	0	0	4
4:30 PM	1	1	0	6	0	0	1	0	9
4:45 PM	0	1	0	0	0	0	0	1	2
5:00 PM	0	0	7	0	0	1	0	2	10
5:15 PM	0	0	0	0	0	0	0	1	1
5:30 PM	1	0	1	0	3	0	0	2	7
5:45 PM	0	1	0	0	0	0	0	1	2
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	3	4	11	7	3	1	1	8	38
APPROACH %'s :	42.86%	57.14%	61.11%	38.89%	75.00%	25.00%	11.11%	88.89%	
PEAK HR :	**05:00 PM - 06:00 PM**								TOTAL
PEAK HR VOL :	1	1	8	0	3	1	0	6	20
PEAK HR FACTOR :	0.250	0.250	0.286		0.250	0.250		0.750	0.500
	0.500		0.286		0.333		0.750		

Prepared by National Data & Surveying Services

Mt Everest Blvd & Mt Etna Dr

Peak Hour Turning Movement Count

ID: 19-04036-006
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS

AM: 07:45 AM - 08:45 AM
NOON: NONE
PM: 05:00 PM - 06:00 PM

COUNT PERIODS

AM: 07:00 AM - 09:00 AM
NOON: NONE
PM: 04:00 PM - 06:00 PM

Mt Everest Blvd — SOUTHBOUND

AM	2	54	10	0	54	AM
NOON	0	0	0	0	0	NOON
PM	2	83	6	0	50	PM

Mt Etna Dr — EASTBOUND

AM	NOON	PM		
79	0	152		
0	0	0	0	
3	0	0	0	
62	0	56	1	
86	0	41	0	

Mt Etna Dr — WESTBOUND

PM	NOON	AM	
12	0	7	0
67	0	25	1
185	0	49	0
0	0	0	0
123	0	122	

Mt Everest Blvd — NORTHBOUND

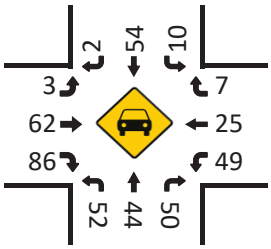
PM	309	0	83	38	61	PM
NOON	0	0	0	0	0	NOON
AM	189	0	52	44	50	AM

	0.5	0.5	0	0
	0	0	1	0

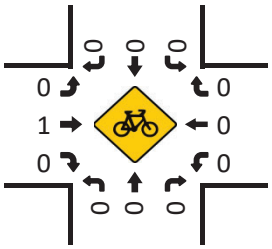
CONTROL: 4-Way Stop

TEV	444 AM	0 NOON	634 PM
PHF	0.97		0.96

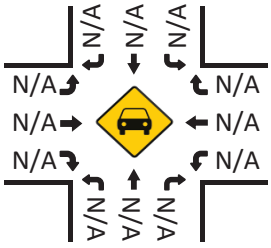
Total Vehicles (AM)



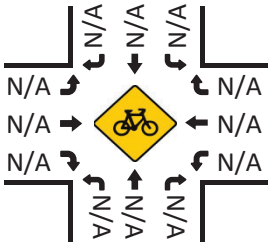
Bikes (AM)



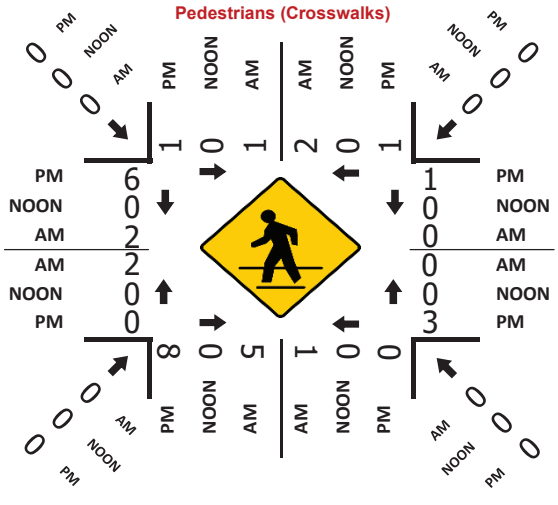
Total Vehicles (Noon)



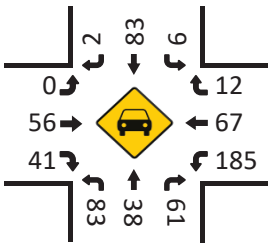
Bikes (NOON)



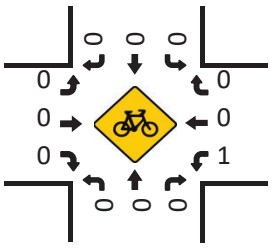
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Mt Etna Dr
City: San Diego
Control: Signalized

Project ID: 19-04036-007
Date: 1/29/2019

Total

NS/EW Streets:	Genesee Ave				Genesee Ave				Mt Etna Dr				Mt Etna Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	0	0	1	2	1	0	1	0.5	0.5	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	15	177	15	1	17	110	2	1	6	3	16	0	16	3	13	0	395
7:15 AM	19	225	15	1	18	146	8	0	12	1	25	0	14	2	17	0	503
7:30 AM	11	308	21	1	18	143	8	1	7	3	29	0	23	2	9	0	584
7:45 AM	24	228	18	2	21	168	8	0	13	8	15	0	19	0	13	0	537
8:00 AM	20	262	31	3	25	121	5	1	4	3	21	0	9	5	12	0	522
8:15 AM	18	245	22	2	26	142	8	0	7	4	14	0	24	4	20	0	536
8:30 AM	22	287	28	1	21	121	10	0	11	9	15	0	27	9	23	0	584
8:45 AM	28	237	34	1	26	119	13	3	11	10	17	0	34	9	20	0	562
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	157	1969	184	12	172	1070	62	6	71	41	152	0	166	34	127	0	4223
APPROACH %'s :	6.76%	84.80%	7.92%	0.52%	13.13%	81.68%	4.73%	0.46%	26.89%	15.53%	57.58%	0.00%	50.76%	10.40%	38.84%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	88	1031	115	7	98	503	36	4	33	26	67	0	94	27	75	0	2204
PEAK HR FACTOR :	0.786	0.898	0.846	0.583	0.942	0.886	0.692	0.333	0.750	0.650	0.798	0.000	0.691	0.750	0.815	0.000	0.943
	0.918				0.911				0.829				0.778				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	0	0	1	2	1	0	1	0.5	0.5	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	22	229	25	5	41	267	18	3	12	9	27	0	31	11	32	0	732
4:15 PM	26	184	48	5	36	249	19	0	16	10	33	0	24	8	35	0	693
4:30 PM	35	182	28	4	54	248	23	1	13	15	28	0	30	10	33	0	704
4:45 PM	21	183	27	3	45	176	66	4	11	9	38	0	19	9	29	0	640
5:00 PM	27	162	27	3	57	222	34	0	14	13	24	0	27	10	36	0	656
5:15 PM	27	176	35	3	52	223	36	1	4	8	32	0	22	9	27	0	655
5:30 PM	35	177	31	4	48	191	58	0	21	11	37	0	23	21	34	0	691
5:45 PM	29	153	22	3	39	196	44	0	13	7	40	0	25	6	27	0	604
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	222	1446	243	30	372	1772	298	9	104	82	259	0	201	84	253	0	5375
APPROACH %'s :	11.44%	74.50%	12.52%	1.55%	15.18%	72.30%	12.16%	0.37%	23.37%	18.43%	58.20%	0.00%	37.36%	15.61%	47.03%	0.00%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	104	778	128	17	176	940	126	8	52	43	126	0	104	38	129	0	2769
PEAK HR FACTOR :	0.743	0.849	0.667	0.850	0.815	0.880	0.477	0.500	0.813	0.717	0.829	0.000	0.839	0.864	0.921	0.000	0.946
	0.914				0.950				0.936				0.916				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Mt Etna Dr
City: San Diego
Control: Signalized

Project ID: 19-04036-007
Date: 1/29/2019

Bikes

NS/EW Streets:	Genesee Ave				Genesee Ave				Mt Etna Dr				Mt Etna Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	0	0	1	2	1	0	1	0.5	0.5	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
7:45 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
8:00 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
8:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
8:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	4	0	0	0	5	0	0	0	1	0	0	0	0	0	0	10
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%					
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	2	0	0	0	2	0	0	0	1	0	0	0	0	0	0	5
PEAK HR FACTOR :	0.000	0.500	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.625
	0.500				0.500				0.250								

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	0	0	1	2	1	0	1	0.5	0.5	0	1	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	3
4:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	3
4:45 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
5:00 PM	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
5:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
5:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	1	2	0	1	0	5	0	0	0	2	0	0	1	2	1	0	15
APPROACH %'s :	25.00%	50.00%	0.00%	25.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	25.00%	50.00%	25.00%	0.00%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	0	1	0	0	0	4	0	0	0	0	0	0	1	1	1	0	8
PEAK HR FACTOR :	0.00	0.250	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.250	0.000	0.667
	0.250				0.500								0.375				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Mt Etna Dr
City: San Diego
Project ID: 19-04036-007
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Genesee Ave		Genesee Ave		Mt Etna Dr		Mt Etna Dr		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	1	0	0	1	0	0	0	0	2
7:15 AM	1	0	0	1	2	1	0	0	5
7:30 AM	0	0	0	2	1	0	1	0	4
7:45 AM	0	2	0	0	0	0	0	0	2
8:00 AM	0	1	1	0	1	0	0	1	4
8:15 AM	1	1	1	0	0	1	2	1	7
8:30 AM	0	0	1	1	1	0	1	0	4
8:45 AM	0	2	0	2	0	1	0	1	6
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	3	6	3	7	5	3	4	3	34
APPROACH %'s :	33.33%	66.67%	30.00%	70.00%	62.50%	37.50%	57.14%	42.86%	
PEAK HR :	**08:00 AM - 09:00 AM**								TOTAL
PEAK HR VOL :	1	4	3	3	2	2	3	3	21
PEAK HR FACTOR :	0.250	0.500	0.750	0.375	0.500	0.500	0.375	0.750	0.750
	0.625		0.750		1.000		0.500		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	3	1	1	2	0	2	9
4:15 PM	0	3	3	0	0	0	1	0	7
4:30 PM	0	1	0	1	0	0	0	1	3
4:45 PM	0	0	1	1	0	1	0	0	3
5:00 PM	0	1	1	0	0	0	0	1	3
5:15 PM	1	0	5	1	2	2	0	1	12
5:30 PM	4	1	0	0	1	0	0	1	7
5:45 PM	1	0	2	2	0	0	0	0	5
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	6	6	15	6	4	5	1	6	49
APPROACH %'s :	50.00%	50.00%	71.43%	28.57%	44.44%	55.56%	14.29%	85.71%	
PEAK HR :	**04:00 PM - 05:00 PM**								TOTAL
PEAK HR VOL :	0	4	7	3	1	3	1	3	22
PEAK HR FACTOR :		0.333	0.583	0.750	0.250	0.375	0.250	0.375	0.611
	0.333		0.625		0.333		0.500		

Prepared by National Data & Surveying Services

Genesee Ave & Mt Etna Dr

Peak Hour Turning Movement Count

ID: 19-04036-007
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS

AM: 08:00 AM - 09:00 AM
NOON: NONE
PM: 04:00 PM - 05:00 PM

COUNT PERIODS

AM: 07:00 AM - 09:00 AM
NOON: NONE
PM: 04:00 PM - 06:00 PM

Genesee Ave — SOUTHBOUND

AM	36	503	98	4	1143	AM
NOON	0	0	0	0	0	NOON
PM	126	940	176	8	967	PM

1 2 1 0

Mt Etna Dr — EASTBOUND

AM	NOON	PM		
151	0	268		
0	0	0	0	
33	0	52	1	
26	0	43	0.5	
67	0	126	0.5	

CONTROL

Signalized

TEV	2204 AM	0 NOON	2769 PM
PHF	0.94		0.95

Mt Etna Dr — WESTBOUND

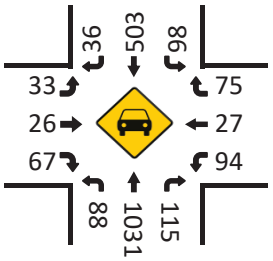
	PM	NOON	AM
0	129	0	75
1	38	0	27
1	104	0	94
0	0	0	0
	347	0	239

0 1 3 0

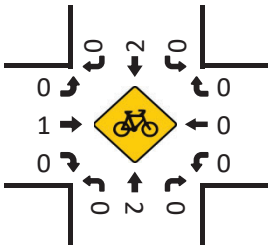
Genesee Ave — NORTHBOUND

PM	1187	17	104	778	128	PM
NOON	0	0	0	0	0	NOON
AM	671	7	88	1031	115	AM

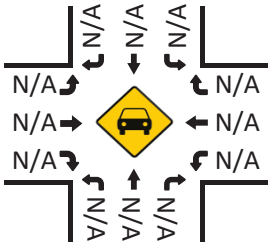
Total Vehicles (AM)



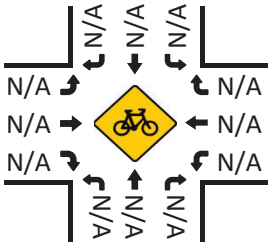
Bikes (AM)



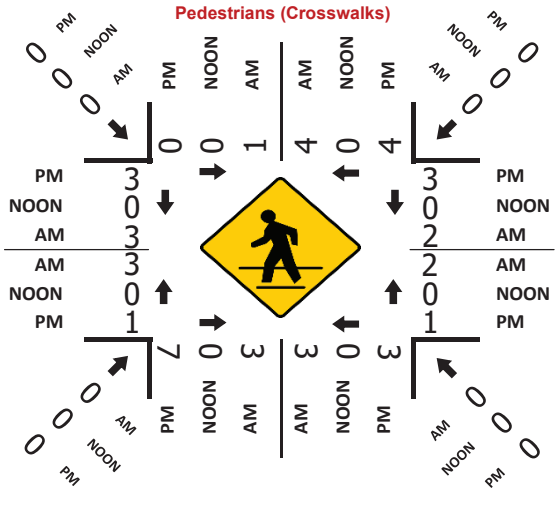
Total Vehicles (NOON)



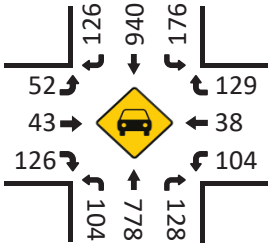
Bikes (NOON)



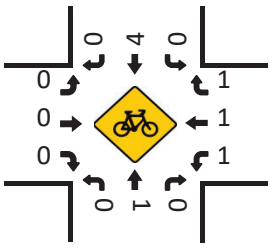
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Clairemont Dr & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-008
Date: 1/29/2019

Total

NS/EW Streets:	Clairemont Dr				Clairemont Dr				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	1	0	1	2	0	0	2	2	0	0	2	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	31	75	76	1	24	73	98	0	26	163	5	8	105	136	10	0	831
7:15 AM	26	59	86	4	27	39	74	0	69	217	7	8	68	198	13	0	895
7:30 AM	16	65	82	2	34	36	91	0	51	210	14	2	54	205	10	0	872
7:45 AM	25	59	79	4	39	47	74	0	44	236	22	3	74	238	20	0	964
8:00 AM	21	106	71	0	40	61	82	0	50	206	18	2	54	211	32	1	955
8:15 AM	36	72	70	3	37	64	81	1	50	217	16	0	79	208	19	0	953
8:30 AM	47	126	88	9	51	83	66	1	43	185	18	0	94	153	25	0	989
8:45 AM	45	104	99	3	25	71	65	0	56	201	22	3	112	182	22	0	1010
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	247	666	651	26	277	474	631	2	389	1635	122	26	640	1531	151	1	7469
APPROACH %'s :	15.53%	41.89%	40.94%	1.64%	20.01%	34.25%	45.59%	0.14%	17.91%	75.28%	5.62%	1.20%	27.55%	65.91%	6.50%	0.04%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	149	408	328	15	153	279	294	2	199	809	74	5	339	754	98	1	3907
PEAK HR FACTOR :	0.793	0.810	0.828	0.417	0.750	0.840	0.896	0.500	0.888	0.932	0.841	0.417	0.757	0.893	0.766	0.250	0.967
	0.833				0.905				0.960				0.943				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	1	0	1	2	0	0	2	2	0	0	2	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	23	87	90	3	65	112	60	0	107	227	14	1	92	209	25	0	1115
4:15 PM	20	78	92	5	48	122	82	0	78	229	21	1	87	226	23	1	1113
4:30 PM	15	92	98	5	54	134	56	0	79	231	10	4	94	227	23	0	1122
4:45 PM	22	61	77	6	81	128	57	0	78	249	18	6	109	204	30	0	1126
5:00 PM	28	83	85	5	55	184	64	0	77	226	16	4	103	224	20	0	1174
5:15 PM	14	78	93	6	67	195	83	0	82	256	13	3	120	225	29	0	1264
5:30 PM	18	85	95	4	54	142	75	0	110	234	14	2	114	194	28	0	1169
5:45 PM	20	75	88	0	56	143	56	0	76	231	13	0	102	221	25	0	1106
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	160	639	718	34	480	1160	533	0	687	1883	119	21	821	1730	203	1	9189
APPROACH %'s :	10.32%	41.20%	46.29%	2.19%	22.09%	53.38%	24.53%	0.00%	25.35%	69.48%	4.39%	0.77%	29.80%	62.79%	7.37%	0.04%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	82	307	350	21	257	649	279	0	347	965	61	15	446	847	107	0	4733
PEAK HR FACTOR :	0.732	0.903	0.921	0.875	0.793	0.832	0.840	0.000	0.789	0.942	0.847	0.625	0.929	0.941	0.892	0.000	0.936
	0.941				0.859				0.964				0.936				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Clairemont Dr & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-008
Date: 1/29/2019

Bikes

NS/EW Streets:	Clairemont Dr				Clairemont Dr				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	1	0	1	2	0	0	2	2	0	0	2	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	3	1	0	0	1	0	0	0	0	0	0	5
7:15 AM	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	3
7:30 AM	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
8:15 AM	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	3
8:30 AM	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	4
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	1	4	1	0	0	7	1	0	1	4	0	0	0	3	0	0	22
APPROACH %'s :	16.67%	66.67%	16.67%	0.00%	0.00%	87.50%	12.50%	0.00%	20.00%	80.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	1	2	1	0	0	4	0	0	0	1	0	0	0	2	0	0	11
PEAK HR FACTOR :	0.250	0.500	0.250	0.000	0.000	0.333	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.500	0.000	0.000	0.688
	0.500				0.333				0.250				0.500				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	1	0	1	2	0	0	2	2	0	0	2	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	1	0	0	0	1	0	0	1	0	1	0	0	0	1	0	5
4:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
4:45 PM	0	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	4
5:00 PM	0	0	0	0	0	3	0	0	1	1	0	0	0	0	0	0	5
5:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	7	0	0	0	6	0	0	3	2	1	0	0	2	1	0	22
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	50.00%	33.33%	16.67%	0.00%	0.00%	66.67%	33.33%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	0	4	0	0	0	5	0	0	2	1	0	0	0	0	0	0	12
PEAK HR FACTOR :	0.00	0.500	0.000	0.000	0.000	0.417	0.000	0.000	0.500	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.600
	0.500				0.417				0.375				0.000				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Clairemont Dr & Balboa Ave
City: San Diego
Project ID: 19-04036-008
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Clairemont Dr		Clairemont Dr		Balboa Ave		Balboa Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	1	4	8	1	2	2	21	39
7:15 AM	0	1	4	2	0	0	1	0	8
7:30 AM	1	0	3	0	0	3	1	3	11
7:45 AM	0	0	2	4	5	1	3	2	17
8:00 AM	0	0	2	1	1	8	3	4	19
8:15 AM	0	0	9	1	0	5	1	2	18
8:30 AM	4	0	1	11	1	5	0	4	26
8:45 AM	0	0	0	0	0	3	0	2	5
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	5	2	25	27	8	27	11	38	143
APPROACH %'s :	71.43%	28.57%	48.08%	51.92%	22.86%	77.14%	22.45%	77.55%	
PEAK HR :	**08:00 AM - 09:00 AM**								TOTAL
PEAK HR VOL :	4	0	12	13	2	21	4	12	68
PEAK HR FACTOR :	0.250		0.333	0.295	0.500	0.656	0.333	0.750	0.654
	0.250		0.521		0.639		0.571		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	1	2	3	2	5	5	1	2	21
4:15 PM	1	1	7	6	4	4	0	3	26
4:30 PM	1	5	1	1	4	2	2	2	18
4:45 PM	2	0	3	0	3	2	2	1	13
5:00 PM	2	2	0	4	2	3	2	0	15
5:15 PM	1	0	0	0	0	1	0	4	6
5:30 PM	0	4	4	1	3	0	0	2	14
5:45 PM	1	0	0	1	1	4	2	2	11
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	9	14	18	15	22	21	9	16	124
APPROACH %'s :	39.13%	60.87%	54.55%	45.45%	51.16%	48.84%	36.00%	64.00%	
PEAK HR :	**04:45 PM - 05:45 PM**								TOTAL
PEAK HR VOL :	5	6	7	5	8	6	4	7	48
PEAK HR FACTOR :	0.625	0.375	0.438	0.313	0.667	0.500	0.500	0.438	0.800
	0.688		0.600		0.700		0.688		

Prepared by National Data & Surveying Services

Clairemont Dr & Balboa Ave

Peak Hour Turning Movement Count

ID: 19-04036-008
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS	COUNT PERIODS
08:00 AM - 09:00 AM	07:00 AM - 09:00 AM
NONE	NONE
04:45 PM - 05:45 PM	04:00 PM - 06:00 PM

SOUTHBOUND — Clairemont Dr

AM	294	279	153	2	707	AM
NOON	0	0	0	0	0	NOON
PM	279	649	257	0	761	PM
	0	2	1	0		

EASTBOUND — Balboa Ave

AM	NOON	PM	
1202	0	1223	
5	0	15	0
199	0	347	2
809	0	965	2
74	0	61	0
AM	NOON	PM	

WESTBOUND — Balboa Ave

PM	NOON	AM	
107	0	98	0
847	0	754	2
446	0	339	2
0	0	1	0
1572	0	1291	
PM	NOON	AM	

NORTHBOUND — Clairemont Dr

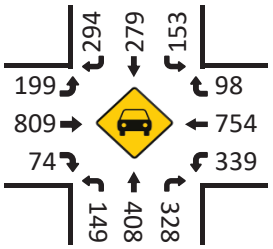
PM	1177	21	82	307	350	PM
NOON	0	0	0	0	0	NOON
AM	707	15	149	408	328	AM
		0	1	2	1	

CONTROL

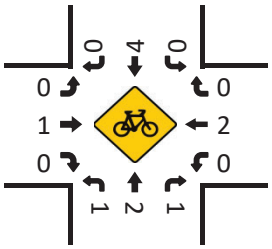
Signalized

TEV	3907 AM	0 NOON	4733 PM
PHF	0.97		0.94

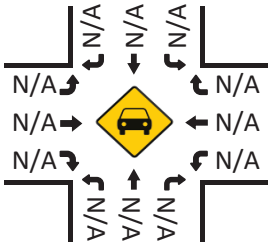
Total Vehicles (AM)



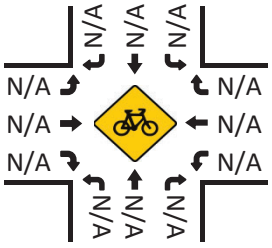
Bikes (AM)



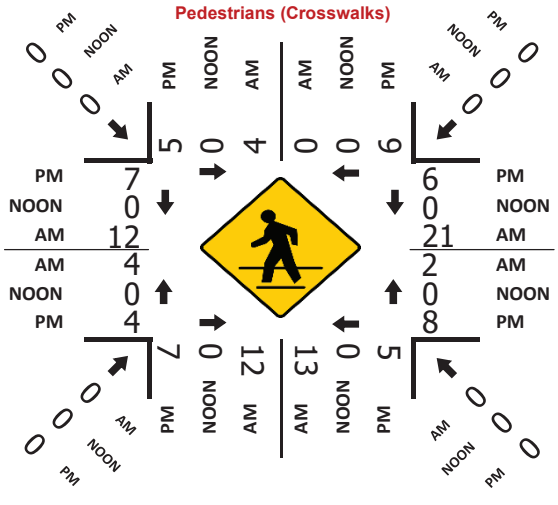
Total Vehicles (Noon)



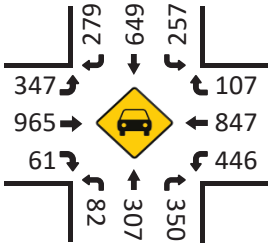
Bikes (NOON)



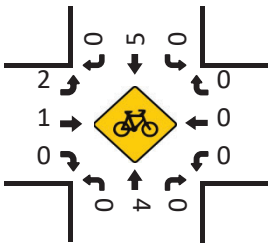
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Mt Everest Blvd & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-009
Date: 1/29/2019

Total

NS/EW Streets:	Mt Everest Blvd				Mt Everest Blvd				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	1	3	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	44	6	11	0	8	6	12	0	3	230	17	3	4	213	11	1	569
7:15 AM	33	19	17	0	13	6	13	0	8	319	20	2	6	212	22	0	690
7:30 AM	27	15	24	0	22	8	24	0	10	304	12	1	10	198	17	0	672
7:45 AM	29	22	14	0	19	18	19	0	8	323	19	1	11	306	32	2	823
8:00 AM	36	14	22	0	18	35	18	0	8	243	17	6	20	213	19	0	669
8:15 AM	54	20	13	0	5	35	18	0	10	290	33	3	13	241	15	1	751
8:30 AM	65	32	34	0	18	7	13	0	7	244	16	3	6	227	26	0	698
8:45 AM	36	12	12	0	12	9	8	0	12	315	19	2	8	229	31	3	708
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	324	140	147	0	115	124	125	0	66	2268	153	21	78	1839	173	7	5580
APPROACH %'s :	53.03%	22.91%	24.06%	0.00%	31.59%	34.07%	34.34%	0.00%	2.63%	90.43%	6.10%	0.84%	3.72%	87.70%	8.25%	0.33%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	184	88	83	0	60	95	68	0	33	1100	85	13	50	987	92	3	2941
PEAK HR FACTOR :	0.708	0.688	0.610	0.000	0.789	0.679	0.895	0.000	0.825	0.851	0.644	0.542	0.625	0.806	0.719	0.375	0.893
	0.677				0.785				0.877				0.806				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	1	3	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	23	6	8	0	7	16	10	0	5	319	37	0	9	320	19	8	787
4:15 PM	22	6	19	0	9	19	20	0	11	283	38	2	17	281	19	11	757
4:30 PM	19	10	10	0	9	21	28	0	8	294	42	1	16	328	27	15	828
4:45 PM	25	11	7	0	11	40	32	0	5	340	27	1	21	311	32	13	876
5:00 PM	23	12	14	0	13	36	33	0	9	281	36	2	16	297	18	4	794
5:15 PM	21	15	7	0	19	32	28	0	10	328	35	2	23	341	21	15	897
5:30 PM	23	12	11	0	15	30	37	0	8	269	29	0	18	286	21	13	772
5:45 PM	14	13	7	0	13	34	23	0	14	292	28	1	13	318	24	10	804
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	170	85	83	0	96	228	211	0	70	2406	272	9	133	2482	181	89	6515
APPROACH %'s :	50.30%	25.15%	24.56%	0.00%	17.94%	42.62%	39.44%	0.00%	2.54%	87.27%	9.87%	0.33%	4.61%	86.03%	6.27%	3.08%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	88	48	38	0	52	129	121	0	32	1243	140	6	76	1277	98	47	3395
PEAK HR FACTOR :	0.880	0.800	0.679	0.000	0.684	0.806	0.917	0.000	0.800	0.914	0.833	0.750	0.826	0.936	0.766	0.783	0.946
	0.888				0.910				0.947				0.936				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Mt Everest Blvd & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-009
Date: 1/29/2019

Bikes

NS/EW Streets:	Mt Everest Blvd				Mt Everest Blvd				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	1	3	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	0	0	0	6	0	0	0	0	0	0	0	0	0	0	7
8:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3
8:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	4	0	0	0	7	0	0	0	1	1	0	0	2	0	0	15
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	50.00%	50.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	0	3	0	0	0	7	0	0	0	0	0	0	0	1	0	0	11
PEAK HR FACTOR :	0.000	0.375	0.000	0.000	0.000	0.292	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.393
		0.375				0.292								0.250			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	1	3	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
4:15 PM	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	3
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1	0	0	0	0	0	0	0	4	1	0	0	3	0	0	9
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%					0.00%	80.00%	20.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.250
										0.250							

National Data & Surveying Services

Intersection Turning Movement Count

Location: Mt Everest Blvd & Balboa Ave
City: San Diego
Project ID: 19-04036-009
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Mt Everest Blvd		Mt Everest Blvd		Balboa Ave		Balboa Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	1	0	0	0	0	1	2
7:15 AM	0	0	0	0	0	1	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	1	0	0	1	0	0	0	0	2
8:15 AM	0	0	0	0	0	0	0	1	1
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	1	0	0	0	0	1
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	1	0	1	2	0	1	0	2	7
APPROACH %'s :	100.00%	0.00%	33.33%	66.67%	0.00%	100.00%	0.00%	100.00%	
PEAK HR :	**07:45 AM - 08:45 AM**								TOTAL
PEAK HR VOL :	1	0	0	1	0	0	0	1	3
PEAK HR FACTOR :	0.250			0.250				0.250	0.375
	0.250		0.250				0.250		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	1	0	1
4:45 PM	0	0	0	1	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	1	1
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	1	0	0	1	1	3
APPROACH %'s :			0.00%	100.00%			50.00%	50.00%	
PEAK HR :	**04:30 PM - 05:30 PM**								TOTAL
PEAK HR VOL :	0	0	0	1	0	0	1	0	2
PEAK HR FACTOR :				0.250			0.250		0.500
			0.250				0.250		

Prepared by National Data & Surveying Services

Mt Everest Blvd & Balboa Ave

Peak Hour Turning Movement Count

ID: 19-04036-009
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS

AM: 07:45 AM - 08:45 AM
NOON: NONE
PM: 04:30 PM - 05:30 PM

COUNT PERIODS

AM: 07:00 AM - 09:00 AM
NOON: NONE
PM: 04:00 PM - 06:00 PM

SOUTHBOUND — Mt Everest Blvd

AM	68	95	60	0	213	AM
NOON	0	0	0	0	0	NOON
PM	121	129	52	0	178	PM

EASTBOUND — Balboa Ave

AM	NOON	PM	
1252	0	1492	
13	0	6	0
33	0	32	1
1100	0	1243	3
85	0	140	0

WESTBOUND — Balboa Ave

PM	NOON	AM	
98	0	92	0
1277	0	987	2
76	0	50	1
47	0	3	0
1380	0	1246	

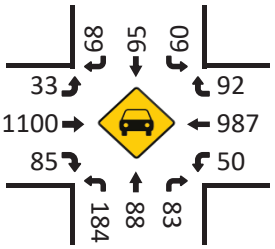
NORTHBOUND — Mt Everest Blvd

PM	345	0	88	48	38	PM
NOON	0	0	0	0	0	NOON
AM	230	0	184	88	83	AM

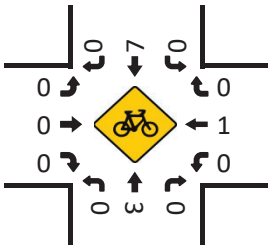
CONTROL: Signalized

TEV	2941 AM	0 NOON	3395 PM
PHF	0.89		0.95

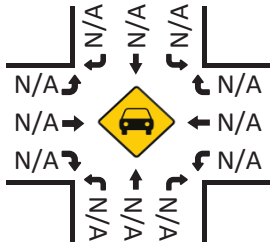
Total Vehicles (AM)



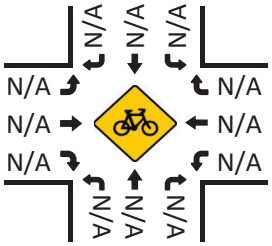
Bikes (AM)



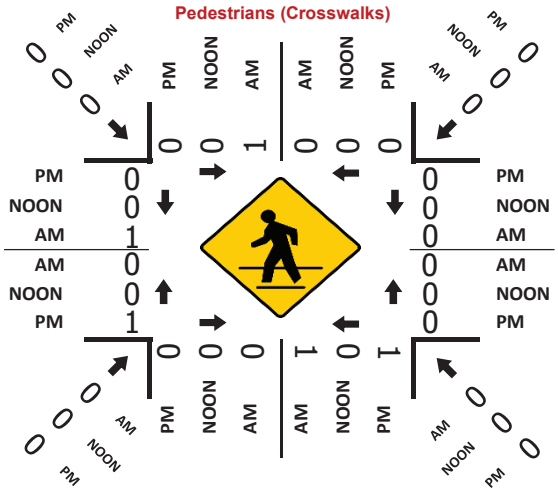
Total Vehicles (Noon)



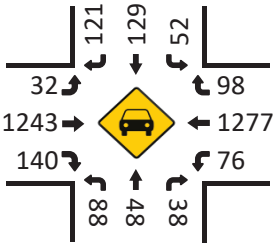
Bikes (NOON)



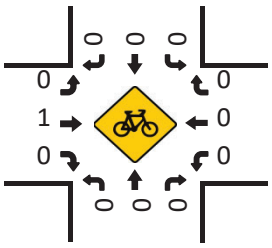
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-010
Date: 1/29/2019

Total

NS/EW Streets:	Genesee Ave				Genesee Ave				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	3	0	0	2	2	1	0	1	2	0	0	2	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	86	160	6	0	33	53	44	0	33	148	44	0	12	122	40	0	781
7:15 AM	50	151	11	1	41	82	39	2	34	237	75	1	16	147	56	0	943
7:30 AM	63	198	9	0	59	96	36	2	54	241	73	0	19	153	71	2	1076
7:45 AM	71	210	21	0	41	124	48	1	30	208	73	1	25	192	52	1	1098
8:00 AM	79	167	19	0	30	93	42	1	52	234	54	1	27	204	70	0	1073
8:15 AM	69	207	17	2	39	90	42	1	36	185	59	1	21	145	64	2	980
8:30 AM	59	212	22	2	51	52	45	2	59	226	42	2	28	199	68	3	1072
8:45 AM	73	204	23	1	50	86	55	1	51	195	60	1	25	148	71	1	1045
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	550	1509	128	6	344	676	351	10	349	1674	480	7	173	1310	492	9	8068
APPROACH %'s :	25.08%	68.81%	5.84%	0.27%	24.91%	48.95%	25.42%	0.72%	13.90%	66.69%	19.12%	0.28%	8.72%	66.03%	24.80%	0.45%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	282	782	66	2	169	403	168	5	172	868	259	3	92	694	257	5	4227
PEAK HR FACTOR :	0.892	0.931	0.786	0.250	0.716	0.813	0.875	0.625	0.796	0.900	0.887	0.750	0.852	0.850	0.905	0.625	0.962
	0.937				0.870				0.885				0.870				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	3	0	0	2	2	1	0	1	2	0	0	2	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	77	138	26	3	82	168	55	9	73	243	53	0	50	181	70	3	1231
4:15 PM	61	121	31	0	123	160	43	11	66	187	56	1	66	231	59	0	1216
4:30 PM	71	133	21	7	76	175	48	6	65	208	48	0	67	248	65	4	1242
4:45 PM	56	113	20	3	65	136	31	5	66	220	66	2	57	278	65	1	1184
5:00 PM	71	111	22	8	100	171	40	1	49	204	48	4	63	234	61	2	1189
5:15 PM	69	111	19	5	82	139	33	3	63	223	76	1	70	278	66	1	1239
5:30 PM	74	132	23	7	88	152	17	2	54	179	67	0	72	244	67	1	1179
5:45 PM	51	106	28	6	65	170	27	7	50	212	73	2	67	269	64	1	1198
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	530	965	190	39	681	1271	294	44	486	1676	487	10	512	1963	517	13	9678
APPROACH %'s :	30.74%	55.97%	11.02%	2.26%	29.74%	55.50%	12.84%	1.92%	18.28%	63.03%	18.32%	0.38%	17.04%	65.32%	17.20%	0.43%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	265	505	98	13	346	639	177	31	270	858	223	3	240	938	259	8	4873
PEAK HR FACTOR :	0.860	0.915	0.790	0.464	0.703	0.913	0.805	0.705	0.925	0.883	0.845	0.375	0.896	0.844	0.925	0.500	0.981
	0.903				0.885				0.917				0.901				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-010
Date: 1/29/2019

Bikes

NS/EW Streets:	Genesee Ave				Genesee Ave				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	3	0	0	2	2	1	0	1	2	0	0	2	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:30 AM	0	1	0	0	1	1	0	0	0	0	1	0	0	1	0	0	5
7:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	3	0	0	1	1	1	1	0	1	1	0	0	1	0	0	10
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	25.00%	25.00%	25.00%	25.00%	0.00%	50.00%	50.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	2	0	0	1	1	0	1	0	0	1	0	0	1	0	0	7
PEAK HR FACTOR :	0.000	0.500	0.000	0.000	0.250	0.250	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.350
	0.500				0.375				0.250				0.250				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	3	0	0	2	2	1	0	1	2	0	0	2	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	3
4:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	3
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1	0	0	1	4	0	0	1	2	1	0	1	1	0	0	12
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	20.00%	80.00%	0.00%	0.00%	25.00%	50.00%	25.00%	0.00%	50.00%	50.00%	0.00%	0.00%	
PEAK HR :	04:00 PM - 05:00 PM																TOTAL
PEAK HR VOL :	0	1	0	0	0	3	0	0	0	0	1	0	1	1	0	0	7
PEAK HR FACTOR :	0.00	0.250	0.000	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.250	0.000	0.000	0.583
	0.250				0.750				0.250				0.250				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Balboa Ave
City: San Diego
Project ID: 19-04036-010
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Genesee Ave		Genesee Ave		Balboa Ave		Balboa Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	1	3	1	0	2	1	1	3	12
7:15 AM	2	1	0	0	3	2	0	1	9
7:30 AM	1	3	0	0	1	0	0	0	5
7:45 AM	0	1	0	1	5	2	1	0	10
8:00 AM	0	2	0	0	0	0	0	2	4
8:15 AM	0	0	2	0	1	0	0	0	3
8:30 AM	0	4	2	0	4	1	0	1	12
8:45 AM	0	2	1	2	1	1	2	1	10
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	4	16	6	3	17	7	4	8	65
APPROACH %'s :	20.00%	80.00%	66.67%	33.33%	70.83%	29.17%	33.33%	66.67%	
PEAK HR :	**07:30 AM - 08:30 AM**								TOTAL
PEAK HR VOL :	1	6	2	1	7	2	1	2	22
PEAK HR FACTOR :	0.250	0.500	0.250	0.250	0.350	0.250	0.250	0.250	0.550
	0.438		0.375		0.321		0.375		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	2	1	1	3	1	0	0	1	9
4:15 PM	7	6	0	0	2	6	2	7	30
4:30 PM	1	0	1	2	1	0	0	0	5
4:45 PM	3	3	1	2	2	3	3	9	26
5:00 PM	7	0	1	0	1	0	1	10	20
5:15 PM	2	0	1	0	0	0	1	0	4
5:30 PM	1	0	1	3	1	3	2	2	13
5:45 PM	0	2	2	1	1	2	2	3	13
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	23	12	8	11	9	14	11	32	120
APPROACH %'s :	65.71%	34.29%	42.11%	57.89%	39.13%	60.87%	25.58%	74.42%	
PEAK HR :	**04:00 PM - 05:00 PM**								TOTAL
PEAK HR VOL :	13	10	3	7	6	9	5	17	70
PEAK HR FACTOR :	0.464	0.417	0.750	0.583	0.750	0.375	0.417	0.472	0.583
	0.442		0.625		0.469		0.458		

Prepared by National Data & Surveying Services

Genesee Ave & Balboa Ave

Peak Hour Turning Movement Count

ID: 19-04036-010
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS	COUNT PERIODS
07:30 AM - 08:30 AM	07:00 AM - 09:00 AM
NONE	NONE
04:00 PM - 05:00 PM	04:00 PM - 06:00 PM

SOUTHBOUND (Genesee Ave)

AM	168	403	169	5	1216	AM
NOON	0	0	0	0	0	NOON
PM	177	639	346	31	1065	PM
	1	2	2	0		

EASTBOUND (Balboa Ave)

AM	NOON	PM	
1147	0	1383	
3	0	3	0
172	0	270	1
868	0	858	2
259	0	223	0
AM	NOON	PM	

WESTBOUND (Balboa Ave)

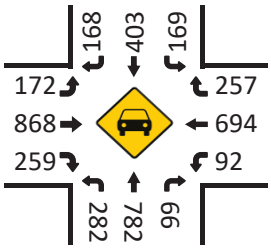
PM	NOON	AM	
259	0	257	0
938	0	694	3
240	0	92	2
8	0	5	0
1310	0	1108	
PM	NOON	AM	

NORTHBOUND (Genesee Ave)

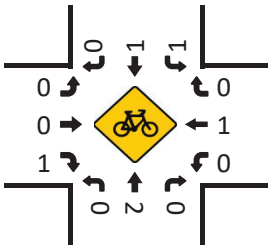
PM	1115	13	265	505	98	PM
NOON	0	0	0	0	0	NOON
AM	756	2	282	782	66	AM
		0	2	3	0	

CONTROL			
Signalized			
TEV	4227 AM	0 NOON	4873 PM
PHF	0.96		0.98

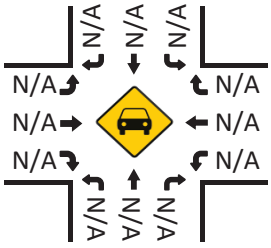
Total Vehicles (AM)



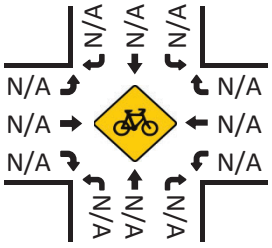
Bikes (AM)



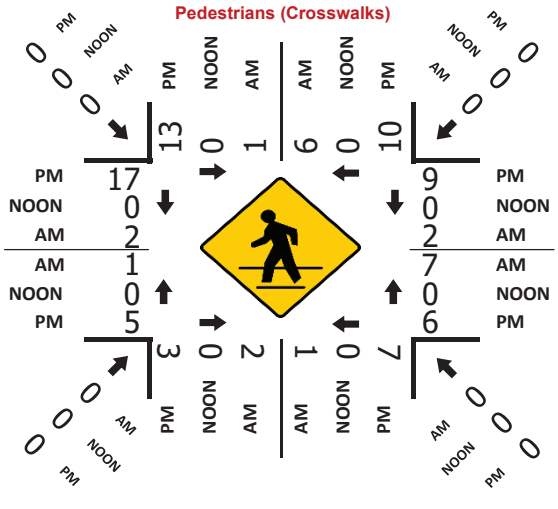
Total Vehicles (Noon)



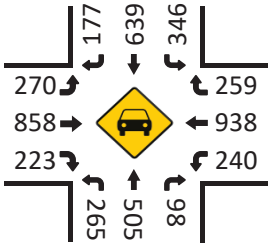
Bikes (NOON)



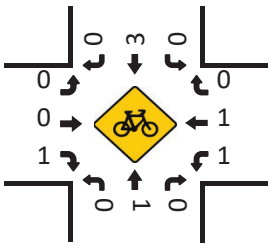
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Shopping Center Dwy & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-011
Date: 1/29/2019

Total

NS/EW Streets:	Shopping Center Dwy				Shopping Center Dwy				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	1	1	0	1	1	1	0	2	3	0	0	2	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	3	1	6	0	14	2	2	0	2	189	4	1	11	185	24	1	445
7:15 AM	8	1	6	0	17	0	4	0	6	257	8	4	6	180	15	0	512
7:30 AM	10	0	15	0	18	3	7	0	5	280	12	0	3	247	33	1	634
7:45 AM	6	0	8	0	15	3	5	0	9	285	10	0	10	249	36	1	637
8:00 AM	6	6	12	0	22	4	7	0	16	236	8	2	11	272	30	0	632
8:15 AM	8	6	9	0	18	1	11	0	12	240	5	4	16	245	48	2	625
8:30 AM	6	7	16	0	37	12	12	0	24	239	12	1	9	231	51	0	657
8:45 AM	10	2	10	0	31	6	16	0	15	255	15	4	18	272	36	3	693
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	57	23	82	0	172	31	64	0	89	1981	74	16	84	1881	273	8	4835
APPROACH %'s :	35.19%	14.20%	50.62%	0.00%	64.42%	11.61%	23.97%	0.00%	4.12%	91.71%	3.43%	0.74%	3.74%	83.75%	12.15%	0.36%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	30	21	47	0	108	23	46	0	67	970	40	11	54	1020	165	5	2607
PEAK HR FACTOR :	0.750	0.750	0.734	0.000	0.730	0.479	0.719	0.000	0.698	0.951	0.667	0.688	0.750	0.938	0.809	0.417	0.940
	0.845				0.725				0.941				0.945				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	1	1	0	1	1	1	0	2	3	0	0	2	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	28	6	26	0	61	10	39	0	40	271	21	3	33	228	43	7	816
4:15 PM	23	16	28	0	40	7	55	0	28	279	12	3	43	265	44	4	847
4:30 PM	32	10	33	0	54	11	54	0	36	251	10	2	35	321	39	6	894
4:45 PM	27	15	30	0	60	18	42	0	22	226	6	5	35	285	42	1	814
5:00 PM	22	11	33	0	62	13	48	0	29	278	20	1	27	317	29	5	895
5:15 PM	30	9	26	0	51	12	50	0	39	233	21	4	45	306	32	11	869
5:30 PM	31	13	33	0	52	26	46	0	24	242	23	1	37	311	38	7	884
5:45 PM	33	10	27	0	64	17	62	0	34	229	21	1	34	304	41	7	884
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	226	90	236	0	444	114	396	0	252	2009	134	20	289	2337	308	48	6903
APPROACH %'s :	40.94%	16.30%	42.75%	0.00%	46.54%	11.95%	41.51%	0.00%	10.43%	83.19%	5.55%	0.83%	9.69%	78.37%	10.33%	1.61%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	116	43	119	0	229	68	206	0	126	982	85	7	143	1238	140	30	3532
PEAK HR FACTOR :	0.879	0.827	0.902	0.000	0.895	0.654	0.831	0.000	0.808	0.883	0.924	0.438	0.794	0.976	0.854	0.682	0.987
	0.903				0.879				0.915				0.984				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Shopping Center Dwy & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-011
Date: 1/29/2019

Bikes

NS/EW Streets:	Shopping Center Dwy				Shopping Center Dwy				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	1	1	0	1	1	1	0	2	3	0	0	2	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	1	0	0	0	1	0	0	0	2	0	0	0	0	0	0	4
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%					
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
PEAK HR FACTOR :	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250
	0.250																

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	1	1	0	1	1	1	0	2	3	0	0	2	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
4:15 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
5:45 PM	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	3
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	2	0	0	1	0	0	0	2	1	0	0	3	0	0	9
APPROACH %'s :	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	2	0	0	0	0	0	0	2	1	0	0	0	0	0	5
PEAK HR FACTOR :	0.00	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.417
	0.250								0.375								

National Data & Surveying Services

Intersection Turning Movement Count

Location: Shopping Center Dwy & Balboa Ave
City: San Diego
Project ID: 19-04036-011
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Shopping Center Dwy		Shopping Center Dwy		Balboa Ave		Balboa Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	3	0	1	0	0	0	0	4
7:15 AM	0	1	0	0	0	0	0	0	1
7:30 AM	0	0	2	0	0	1	3	1	7
7:45 AM	0	0	0	0	2	0	2	1	5
8:00 AM	2	0	0	0	0	0	0	0	2
8:15 AM	0	1	0	0	1	1	0	0	3
8:30 AM	0	0	1	0	1	1	1	0	4
8:45 AM	2	1	1	1	0	0	1	3	9
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	4	6	4	2	4	3	7	5	35
APPROACH %'s :	40.00%	60.00%	66.67%	33.33%	57.14%	42.86%	58.33%	41.67%	
PEAK HR :	**08:00 AM - 09:00 AM**								TOTAL
PEAK HR VOL :	4	2	2	1	2	2	2	3	18
PEAK HR FACTOR :	0.500	0.500	0.500	0.250	0.500	0.500	0.500	0.250	0.500
	0.500		0.375		0.500		0.313		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	3	1	3	1	1	2	1	0	12
4:15 PM	0	6	0	1	5	0	1	0	13
4:30 PM	2	2	2	3	0	4	4	3	20
4:45 PM	0	0	2	0	3	0	4	2	11
5:00 PM	4	1	7	3	1	2	2	1	21
5:15 PM	1	1	2	3	3	1	0	3	14
5:30 PM	1	1	0	0	2	2	3	2	11
5:45 PM	1	2	0	0	1	2	0	1	7
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	12	14	16	11	16	13	15	12	109
APPROACH %'s :	46.15%	53.85%	59.26%	40.74%	55.17%	44.83%	55.56%	44.44%	
PEAK HR :	**05:00 PM - 06:00 PM**								TOTAL
PEAK HR VOL :	7	5	9	6	7	7	5	7	53
PEAK HR FACTOR :	0.438	0.625	0.321	0.500	0.583	0.875	0.417	0.583	0.631
	0.600		0.375		0.875		0.600		

Prepared by National Data & Surveying Services

Shopping Center Dwy & Balboa Ave

Peak Hour Turning Movement Count

ID: 19-04036-011
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS	COUNT PERIODS
08:00 AM - 09:00 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

SOUTHBOUND — Shopping Center Dwy

AM	46	23	108	0	253	AM
NOON	0	0	0	0	0	NOON
PM	206	68	229	0	309	PM

EASTBOUND — Balboa Ave

AM	NOON	PM	
1107	0	1567	
11	0	7	0
67	0	126	2
970	0	982	3
40	0	85	0
AM	NOON	PM	

WESTBOUND — Balboa Ave

PM	NOON	AM	
140	0	165	0
1238	0	1020	3
143	0	54	2
30	0	5	0
1360	0	1130	
PM	NOON	AM	

NORTHBOUND — Shopping Center Dwy

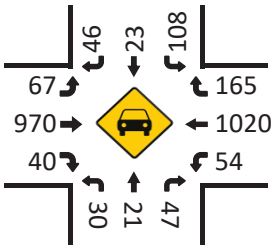
PM	296	0	116	43	119	PM
NOON	0	0	0	0	0	NOON
AM	117	0	30	21	47	AM

	1	1	1	0
	0	1	1	1

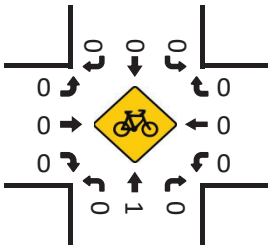
CONTROL: Signalized

TEV	2607 AM	0 NOON	3532 PM
PHF	0.94		0.99

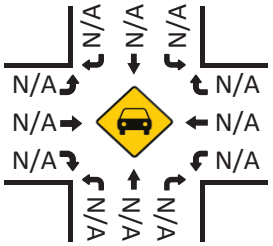
Total Vehicles (AM)



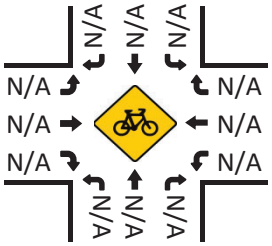
Bikes (AM)



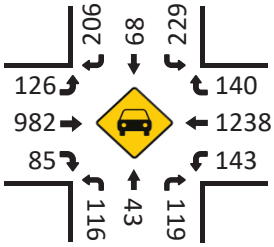
Total Vehicles (Noon)



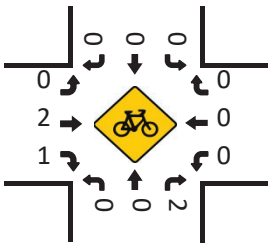
Bikes (NOON)



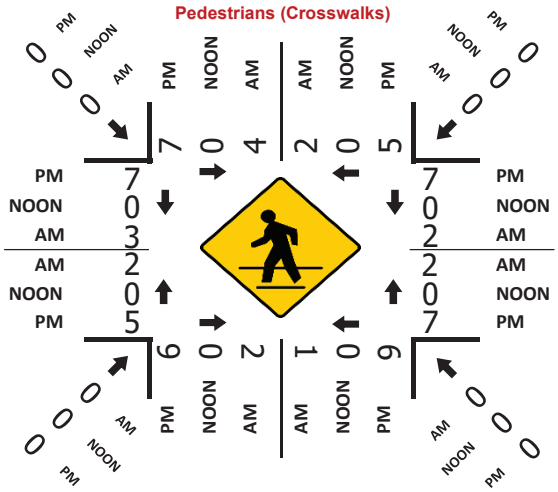
Total Vehicles (PM)



Bikes (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Mt Abernathy Ave & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-012
Date: 1/29/2019

Total

NS/EW Streets:	Mt Abernathy Ave				Mt Abernathy Ave				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	1	1	0	2	2	1	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	15	44	77	0	28	18	11	0	10	165	7	1	24	174	19	0	593
7:15 AM	9	34	88	0	32	29	22	0	13	272	9	1	21	225	21	0	776
7:30 AM	11	54	120	0	52	46	19	0	8	263	7	0	30	212	18	0	840
7:45 AM	18	34	86	0	32	43	29	0	8	297	6	4	37	318	29	0	941
8:00 AM	18	25	92	0	27	28	21	0	9	240	5	1	56	300	24	2	848
8:15 AM	14	26	74	0	29	26	34	0	8	270	3	8	50	244	23	0	809
8:30 AM	15	31	116	0	47	27	28	0	7	284	4	3	36	306	29	0	933
8:45 AM	23	35	95	0	40	36	16	0	11	255	14	5	41	328	27	2	928
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	123	283	748	0	287	253	180	0	74	2046	55	23	295	2107	190	4	6668
APPROACH %'s :	10.66%	24.52%	64.82%	0.00%	39.86%	35.14%	25.00%	0.00%	3.37%	93.08%	2.50%	1.05%	11.36%	81.16%	7.32%	0.15%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	65	116	368	0	135	124	112	0	32	1091	18	16	179	1168	105	2	3531
PEAK HR FACTOR :	0.903	0.853	0.793	0.000	0.718	0.721	0.824	0.000	0.889	0.918	0.750	0.500	0.799	0.918	0.905	0.250	0.938
	0.847				0.892				0.918				0.947				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	1	1	0	2	2	1	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	24	32	66	0	49	70	40	0	30	289	22	5	65	306	40	1	1039
4:15 PM	20	28	63	0	50	79	29	0	33	278	20	13	66	370	34	0	1083
4:30 PM	26	38	64	0	65	79	33	0	30	265	19	4	67	288	38	0	1016
4:45 PM	15	21	59	0	59	93	46	0	34	267	26	9	75	371	45	1	1121
5:00 PM	20	24	47	0	75	117	44	0	28	277	20	6	64	352	38	0	1112
5:15 PM	17	27	52	0	58	109	58	0	31	285	25	10	83	359	29	0	1143
5:30 PM	27	37	47	0	45	91	33	0	25	309	21	13	76	410	43	2	1179
5:45 PM	23	28	61	0	68	112	42	0	27	251	24	9	78	344	33	1	1101
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	172	235	459	0	469	750	325	0	238	2221	177	69	574	2800	300	5	8794
APPROACH %'s :	19.86%	27.14%	53.00%	0.00%	30.38%	48.58%	21.05%	0.00%	8.80%	82.11%	6.54%	2.55%	15.60%	76.11%	8.15%	0.14%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	79	109	205	0	237	410	181	0	118	1138	92	38	298	1492	155	3	4555
PEAK HR FACTOR :	0.731	0.736	0.869	0.000	0.790	0.876	0.780	0.000	0.868	0.921	0.885	0.731	0.898	0.910	0.861	0.375	0.966
	0.885				0.877				0.942				0.917				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Mt Abernathy Ave & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-012
Date: 1/29/2019

Bikes

NS/EW Streets:	Mt Abernathy Ave				Mt Abernathy Ave				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	1	1	0	2	2	1	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	5
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:30 AM	0	1	0	0	0	3	0	0	0	1	0	0	0	0	0	0	5
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	0	0	1	0	0	0	1	0	0	0	0	2	0	5
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	1	3	0	0	0	5	0	0	0	4	0	0	0	3	2	0	18
APPROACH %'s :	25.00%	75.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	60.00%	40.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	0	1	0	0	0	1	0	0	0	1	0	0	0	1	2	0	6
PEAK HR FACTOR :	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.250	0.000	0.300
		0.250				0.250				0.250				0.375			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	2	1	1	0	2	2	1	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	3
4:15 PM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	1	0	0	0	0	0	0	0	2	0	0	0	1	0	0	4
5:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	2	0	0	2	1	1	0	0	4	0	0	0	1	1	0	12
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	50.00%	25.00%	25.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	50.00%	50.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	0	1	0	0	1	0	0	0	0	2	0	0	0	1	0	0	5
PEAK HR FACTOR :	0.00	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.313
		0.250				0.250				0.250				0.250			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Mt Abernathy Ave & Balboa Ave
City: San Diego
Project ID: 19-04036-012
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Mt Abernathy Ave		Mt Abernathy Ave		Balboa Ave		Balboa Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	1	0	0	0	1	1	0	3
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	1	0	1	1	0	2	0	1	6
7:45 AM	0	1	0	0	1	2	0	1	5
8:00 AM	0	1	1	2	0	2	0	2	8
8:15 AM	0	2	1	2	1	0	3	1	10
8:30 AM	0	0	1	2	1	1	2	3	10
8:45 AM	0	0	0	0	2	0	2	0	4
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	1	5	4	7	5	8	8	8	46
APPROACH %'s :	16.67%	83.33%	36.36%	63.64%	38.46%	61.54%	50.00%	50.00%	
PEAK HR :	**07:45 AM - 08:45 AM**								TOTAL
PEAK HR VOL :	0	4	3	6	3	5	5	7	33
PEAK HR FACTOR :		0.500	0.750	0.750	0.750	0.625	0.417	0.583	0.825
	0.500		0.750		0.667		0.600		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	4	1	1	3	2	4	2	3	20
4:15 PM	3	3	5	1	2	4	2	2	22
4:30 PM	1	0	2	5	8	1	3	1	21
4:45 PM	1	1	2	2	4	3	9	2	24
5:00 PM	0	0	4	2	1	0	2	6	15
5:15 PM	0	0	2	3	3	2	1	6	17
5:30 PM	3	0	1	5	3	4	3	0	19
5:45 PM	1	0	2	1	2	2	0	3	11
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	13	5	19	22	25	20	22	23	149
APPROACH %'s :	72.22%	27.78%	46.34%	53.66%	55.56%	44.44%	48.89%	51.11%	
PEAK HR :	**04:45 PM - 05:45 PM**								TOTAL
PEAK HR VOL :	4	1	9	12	11	9	15	14	75
PEAK HR FACTOR :	0.333	0.250	0.563	0.600	0.688	0.563	0.417	0.583	0.781
	0.417		0.875		0.714		0.659		

Prepared by National Data & Surveying Services

Mt Abernathy Ave & Balboa Ave

Peak Hour Turning Movement Count

ID: 19-04036-012
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS	COUNT PERIODS
07:45 AM - 08:45 AM	07:00 AM - 09:00 AM
NONE	NONE
04:45 PM - 05:45 PM	04:00 PM - 06:00 PM

SOUTHBOUND — Mt Abernathy Ave

AM	112	124	135	0	253	AM
NOON	0	0	0	0	0	NOON
PM	181	410	237	0	382	PM
	1	2	2	0		

EASTBOUND — Balboa Ave

AM	NOON	PM	
1361	0	1790	
16	0	38	0
32	0	118	1
1091	0	1138	3
18	0	92	0
AM	NOON	PM	

WESTBOUND — Balboa Ave

PM	NOON	AM	
155	0	105	0
1492	0	1168	3
298	0	179	1
3	0	2	0
1583	0	1596	
PM	NOON	AM	

NORTHBOUND — Mt Abernathy Ave

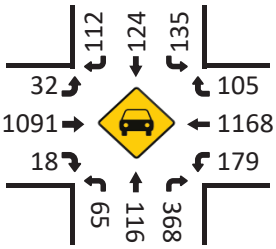
	0	2	1	1		
PM	800	0	79	109	205	PM
NOON	0	0	0	0	0	NOON
AM	321	0	65	116	368	AM

CONTROL

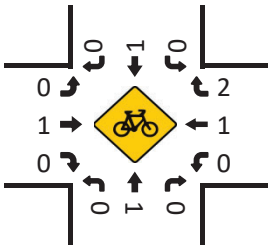
Signalized

TEV	3531	0	4555
	AM	NOON	PM
PHF	0.94		0.97

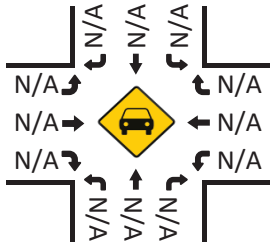
Total Vehicles (AM)



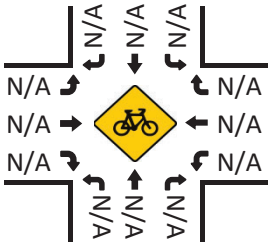
Bikes (AM)



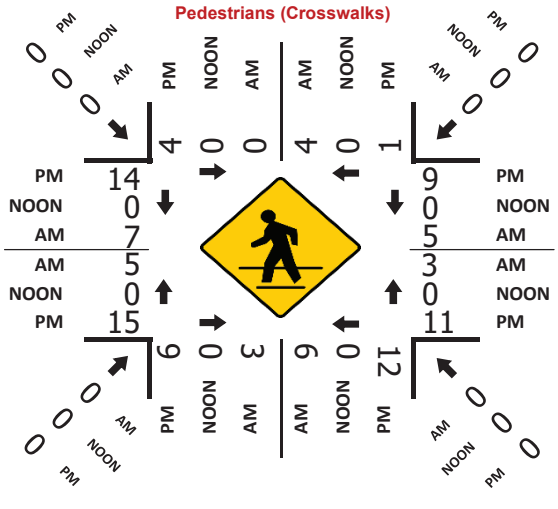
Total Vehicles (Noon)



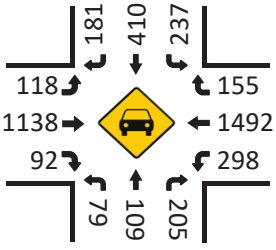
Bikes (NOON)



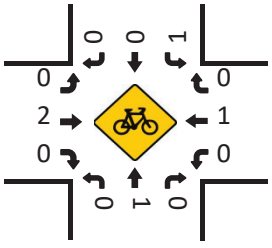
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Cannington Dr & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-013
Date: 1/29/2019

Total

NS/EW Streets:	Cannington Dr				Cannington Dr				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	8	10	29	0	9	5	14	0	4	291	7	1	25	217	8	2	630
7:15 AM	13	13	44	0	13	9	7	0	7	391	6	0	22	254	7	0	786
7:30 AM	6	15	54	0	10	10	15	0	6	436	3	2	17	298	6	5	883
7:45 AM	10	17	35	0	22	6	22	0	6	386	5	2	32	333	7	13	896
8:00 AM	4	4	37	0	18	11	8	0	6	404	8	0	14	380	9	0	903
8:15 AM	3	7	37	0	11	6	12	0	5	361	4	1	7	331	5	0	790
8:30 AM	3	9	25	0	13	2	10	0	7	436	4	2	3	348	5	3	870
8:45 AM	3	5	24	0	16	3	5	0	5	402	2	1	18	399	3	1	887
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	50	80	285	0	112	52	93	0	46	3107	39	9	138	2560	50	24	6645
APPROACH %'s :	12.05%	19.28%	68.67%	0.00%	43.58%	20.23%	36.19%	0.00%	1.44%	97.06%	1.22%	0.28%	4.98%	92.35%	1.80%	0.87%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	23	43	163	0	61	33	57	0	23	1587	20	5	70	1342	27	18	3472
PEAK HR FACTOR :	0.575	0.632	0.755	0.000	0.693	0.750	0.648	0.000	0.958	0.910	0.625	0.625	0.547	0.883	0.750	0.346	0.961
	0.763				0.755				0.914				0.904				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	3	9	13	0	7	7	14	0	3	388	12	3	19	429	12	0	919
4:15 PM	3	8	18	0	14	9	16	0	5	355	4	0	27	434	10	3	906
4:30 PM	4	4	19	0	5	6	9	0	9	389	8	2	14	417	11	1	898
4:45 PM	4	1	20	0	9	6	18	0	12	357	8	1	21	470	13	5	945
5:00 PM	2	4	19	0	12	7	14	0	12	356	15	2	25	482	5	3	958
5:15 PM	3	9	14	0	9	11	14	0	23	393	15	7	26	462	9	3	998
5:30 PM	3	3	21	0	12	14	14	0	10	355	15	1	31	501	6	0	986
5:45 PM	6	0	23	0	6	14	7	0	10	387	9	3	30	476	10	2	983
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	28	38	147	0	74	74	106	0	84	2980	86	19	193	3671	76	17	7593
APPROACH %'s :	13.15%	17.84%	69.01%	0.00%	29.13%	29.13%	41.73%	0.00%	2.65%	94.04%	2.71%	0.60%	4.88%	92.77%	1.92%	0.43%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	14	16	77	0	39	46	49	0	55	1491	54	13	112	1921	30	8	3925
PEAK HR FACTOR :	0.583	0.444	0.837	0.000	0.813	0.821	0.875	0.000	0.598	0.948	0.900	0.464	0.903	0.959	0.750	0.667	0.983
	0.922				0.838				0.921				0.962				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Cannington Dr & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-013
Date: 1/29/2019

Bikes

NS/EW Streets:	Cannington Dr				Cannington Dr				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	3
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	1	1	0	0	4	1	0	0	0	1	0	8
APPROACH %'s :					0.00%	50.00%	50.00%	0.00%	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	100.00%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.500
										0.500							

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	1	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
4:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	3
5:15 PM	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	1	0	1	1	1	0	0	2	0	0	0	3	3	0	12
APPROACH %'s :	0.00%	0.00%	100.00%	0.00%	33.33%	33.33%	33.33%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	50.00%	50.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	1	0	1	0	0	0	0	2	0	0	0	3	1	0	8
PEAK HR FACTOR :	0.00	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.750	0.250	0.000	0.667
			0.250				0.250				0.500				0.500		

National Data & Surveying Services

Intersection Turning Movement Count

Location: Cannington Dr & Balboa Ave
City: San Diego
Project ID: 19-04036-013
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Cannington Dr		Cannington Dr		Balboa Ave		Balboa Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	3	0	8	0	0	11
7:30 AM	1	0	2	1	3	3	0	0	10
7:45 AM	0	0	1	0	1	5	0	0	7
8:00 AM	0	1	0	0	2	1	0	0	4
8:15 AM	1	0	0	0	1	0	0	0	2
8:30 AM	1	0	0	1	1	0	0	0	3
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	3	1	3	5	8	17	0	0	37
APPROACH %'s :	75.00%	25.00%	37.50%	62.50%	32.00%	68.00%			
PEAK HR :	**07:30 AM - 08:30 AM**								TOTAL
PEAK HR VOL :	2	1	3	1	7	9	0	0	23
PEAK HR FACTOR :	0.500	0.250	0.375	0.250	0.583	0.450			0.575
	0.750		0.333		0.667				

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	1	0	2	0	0	0	3
4:15 PM	1	0	0	1	1	0	0	0	3
4:30 PM	0	0	0	0	0	3	0	0	3
4:45 PM	0	0	1	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	1	0	0	1
5:15 PM	3	1	1	0	5	1	0	0	11
5:30 PM	0	0	0	0	2	1	0	0	3
5:45 PM	0	0	1	1	1	0	0	0	3
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	4	1	4	2	11	6	0	0	28
APPROACH %'s :	80.00%	20.00%	66.67%	33.33%	64.71%	35.29%			
PEAK HR :	**05:00 PM - 06:00 PM**								TOTAL
PEAK HR VOL :	3	1	2	1	8	3	0	0	18
PEAK HR FACTOR :	0.250	0.250	0.500	0.250	0.400	0.750			0.409
	0.250		0.375		0.458				

Prepared by National Data & Surveying Services

Cannington Dr & Balboa Ave

Peak Hour Turning Movement Count

ID: 19-04036-013
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS	COUNT PERIODS
07:30 AM - 08:30 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

SOUTHBOUND — Cannington Dr

AM	57	33	61	0	93	AM
NOON	0	0	0	0	0	NOON
PM	49	46	39	0	101	PM

EASTBOUND — Balboa Ave

AM	NOON	PM	
1427	0	1997	
5	0	13	0
23	0	55	1
1587	0	1491	3
20	0	54	0
AM	NOON	PM	

WESTBOUND — Balboa Ave

PM	NOON	AM	
30	0	27	0
1921	0	1342	3
112	0	70	1
8	0	18	0
1615	0	1829	
PM	NOON	AM	

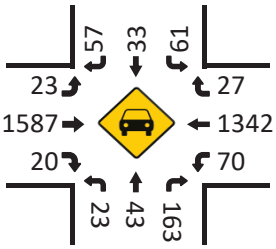
NORTHBOUND — Cannington Dr

PM	212	0	14	16	77	PM
NOON	0	0	0	0	0	NOON
AM	123	0	23	43	163	AM

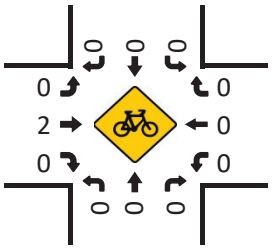
	0	0	1	0

CONTROL			
Signalized			
TEV	3472 AM	0 NOON	3925 PM
PHF	0.96		0.98

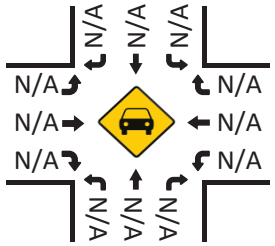
Total Vehicles (AM)



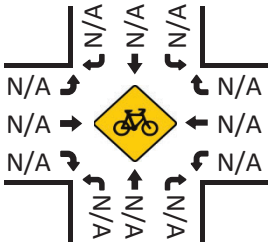
Bikes (AM)



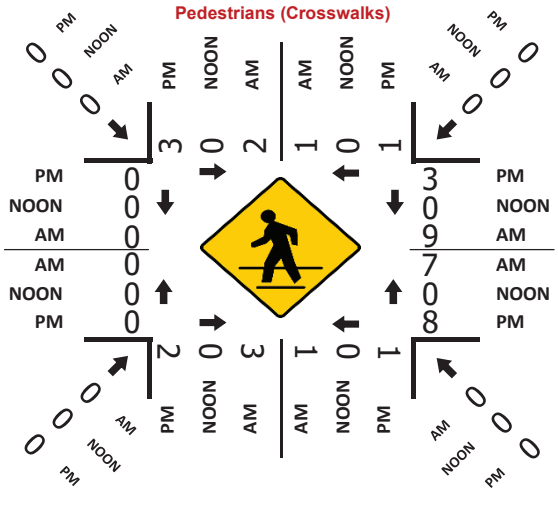
Total Vehicles (Noon)



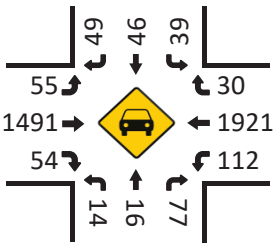
Bikes (NOON)



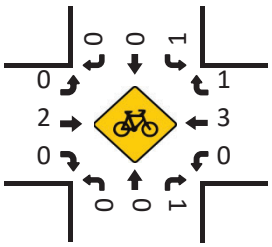
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Charger Blvd & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-014
Date: 1/29/2019

Total

NS/EW Streets:	Charger Blvd				Charger Blvd				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1.5	0.5	2	0	1	1	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	19	26	122	0	62	11	3	0	2	309	7	0	54	225	80	2	922
7:15 AM	15	29	130	0	66	17	1	0	2	434	16	0	77	281	68	0	1136
7:30 AM	17	24	145	0	73	39	2	0	0	451	36	0	97	304	74	0	1262
7:45 AM	23	21	182	0	58	52	0	0	0	432	39	0	93	357	80	0	1337
8:00 AM	33	12	157	0	63	39	2	0	0	461	29	0	98	364	47	1	1306
8:15 AM	22	15	113	0	65	13	2	0	2	393	10	0	77	340	52	0	1104
8:30 AM	26	21	111	0	47	12	2	0	4	478	15	0	68	344	44	0	1172
8:45 AM	17	19	90	0	54	14	2	0	1	434	10	0	70	399	34	3	1147
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	172	167	1050	0	488	197	14	0	11	3392	162	0	634	2614	479	6	9386
APPROACH %'s :	12.38%	12.02%	75.59%	0.00%	69.81%	28.18%	2.00%	0.00%	0.31%	95.15%	4.54%	0.00%	16.98%	70.02%	12.83%	0.16%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	88	86	614	0	260	147	5	0	2	1778	120	0	365	1306	269	1	5041
PEAK HR FACTOR :	0.667	0.741	0.843	0.000	0.890	0.707	0.625	0.000	0.250	0.964	0.769	0.000	0.931	0.897	0.841	0.250	0.943
	0.872				0.904				0.969				0.916				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1.5	0.5	2	0	1	1	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	27	13	97	0	41	30	2	0	4	380	31	1	91	454	76	2	1249
4:15 PM	36	14	73	0	62	42	3	0	6	330	25	0	95	425	61	2	1174
4:30 PM	27	11	87	0	41	17	4	0	4	368	38	0	97	414	66	1	1175
4:45 PM	33	8	75	0	45	25	6	0	0	398	31	0	97	450	62	2	1232
5:00 PM	22	18	56	0	53	29	1	0	6	365	30	0	104	475	68	0	1227
5:15 PM	33	10	82	0	49	38	7	0	5	340	39	0	100	493	78	1	1275
5:30 PM	27	12	74	0	54	41	5	0	5	362	37	0	88	472	81	0	1258
5:45 PM	27	9	72	0	37	42	5	0	4	372	39	0	107	507	67	0	1288
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	232	95	616	0	382	264	33	0	34	2915	270	1	779	3690	559	8	9878
APPROACH %'s :	24.60%	10.07%	65.32%	0.00%	56.26%	38.88%	4.86%	0.00%	1.06%	90.53%	8.39%	0.03%	15.47%	73.27%	11.10%	0.16%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	109	49	284	0	193	150	18	0	20	1439	145	0	399	1947	294	1	5048
PEAK HR FACTOR :	0.826	0.681	0.866	0.000	0.894	0.893	0.643	0.000	0.833	0.967	0.929	0.000	0.932	0.960	0.907	0.250	0.980
	0.884				0.903				0.966				0.970				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Charger Blvd & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-014
Date: 1/29/2019

Bikes

NS/EW Streets:	Charger Blvd				Charger Blvd				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1.5	0.5	2	0	1	1	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	1	1	0	0	2	0	0	0	0	1	0	0	0	0	0	5
7:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
7:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	3
8:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	1	0	0	0	0	0	0	0	2	0	0	1	1	0	0	5
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	1	4	1	0	1	4	1	0	0	3	1	0	1	2	0	0	19
APPROACH %'s :	16.67%	66.67%	16.67%	0.00%	16.67%	66.67%	16.67%	0.00%	0.00%	75.00%	25.00%	0.00%	33.33%	66.67%	0.00%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	0	1	0	0	1	1	0	0	0	1	0	0	0	1	0	0	5
PEAK HR FACTOR :	0.000	0.250	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.625
		0.250				0.500				0.250				0.250			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1.5	0.5	2	0	1	1	0	0	1	3	0	0	1	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
4:45 PM	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	4
5:00 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	1	1	0	0	0	3	0	0	0	2	1	0	0	3	1	0	12
APPROACH %'s :	50.00%	50.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%	75.00%	25.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	5
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.500	0.000	0.000	0.417
						0.500				0.250				0.500			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Charger Blvd & Balboa Ave
City: San Diego
Project ID: 19-04036-014
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Charger Blvd		Charger Blvd		Balboa Ave		Balboa Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	1	0	0	3	0	4
7:15 AM	1	0	0	0	0	0	1	0	2
7:30 AM	0	0	0	0	0	0	1	3	4
7:45 AM	0	0	1	0	0	0	1	1	3
8:00 AM	0	0	0	0	0	0	2	0	2
8:15 AM	0	0	0	1	0	0	0	1	2
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	1	0	1	2	0	0	8	5	17
APPROACH %'s :	100.00%	0.00%	33.33%	66.67%			61.54%	38.46%	
PEAK HR :	**07:15 AM - 08:15 AM**								TOTAL
PEAK HR VOL :	1	0	1	0	0	0	5	4	11
PEAK HR FACTOR :	0.250		0.250				0.625	0.333	0.688
	0.250		0.250				0.563		

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	1	0	0	2	0	0	5	0	8
4:15 PM	0	3	0	0	0	0	3	3	9
4:30 PM	0	1	2	0	0	0	0	0	3
4:45 PM	0	0	0	0	0	0	2	1	3
5:00 PM	0	0	2	0	0	0	1	1	4
5:15 PM	0	0	0	0	0	0	1	4	5
5:30 PM	1	1	0	2	0	0	1	1	6
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	2	5	4	4	0	0	13	10	38
APPROACH %'s :	28.57%	71.43%	50.00%	50.00%			56.52%	43.48%	
PEAK HR :	**05:00 PM - 06:00 PM**								TOTAL
PEAK HR VOL :	1	1	2	2	0	0	3	6	15
PEAK HR FACTOR :	0.250	0.250	0.250	0.250			0.750	0.375	0.625
	0.250		0.500				0.450		

Prepared by National Data & Surveying Services

Charger Blvd & Balboa Ave

Peak Hour Turning Movement Count

ID: 19-04036-014
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS	COUNT PERIODS
07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NONE	NONE
05:00 PM - 06:00 PM	04:00 PM - 06:00 PM

SOUTHBOUND — Charger Blvd

AM	5	147	260	0	357	AM
NOON	0	0	0	0	0	NOON
PM	18	150	193	0	363	PM

EASTBOUND — Balboa Ave

AM	NOON	PM	
1399	0	2074	
0	0	0	0
2	0	20	1
1778	0	1439	3
120	0	145	0
AM	NOON	PM	

WESTBOUND — Balboa Ave

PM	NOON	AM	
294	0	269	0
1947	0	1306	3
399	0	365	1
1	0	1	0
1917	0	2653	
PM	NOON	AM	

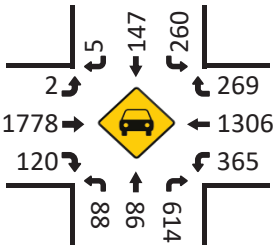
NORTHBOUND — Charger Blvd

PM	694	0	109	49	284	PM
NOON	0	0	0	0	0	NOON
AM	632	0	88	86	614	AM

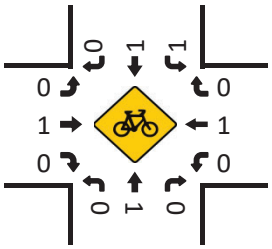
CONTROL			
Signalized			
TEV	5041 AM	0 NOON	5048 PM
PHF	0.94		0.98

0 1 1 0 — 0 1.5 0.5 2

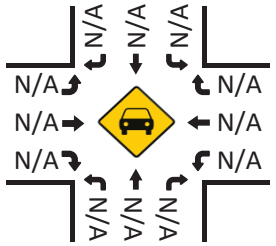
Total Vehicles (AM)



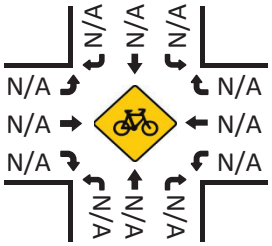
Bikes (AM)



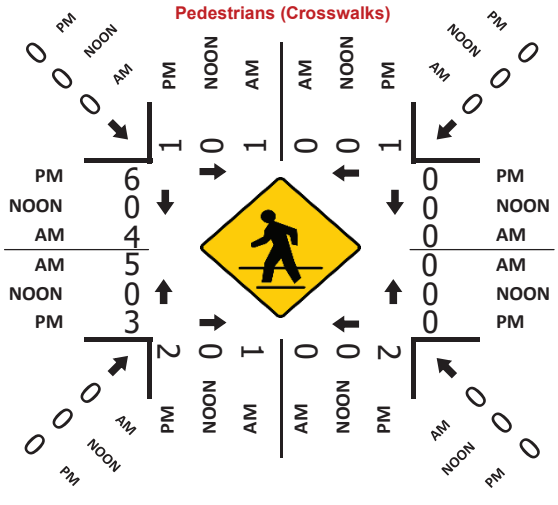
Total Vehicles (Noon)



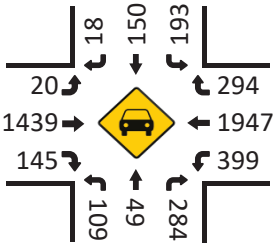
Bikes (NOON)



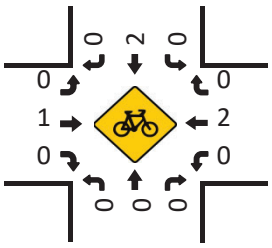
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: I 805 SB Ramps & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-015
Date: 1/29/2019

Total

NS/EW Streets:	I 805 SB Ramps				I 805 SB Ramps				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	2	0	0	3	1	0	0	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	72	0	0	371	141	0	0	307	0	0	891
7:15 AM	0	0	0	0	0	0	90	0	0	438	175	0	0	319	0	0	1022
7:30 AM	0	0	0	0	0	0	143	0	0	464	201	0	0	348	0	0	1156
7:45 AM	0	0	0	0	0	0	86	0	0	497	182	0	0	435	0	0	1200
8:00 AM	0	0	0	0	0	0	113	0	0	489	203	0	0	376	0	0	1181
8:15 AM	0	0	0	0	0	0	88	0	0	412	145	0	0	367	0	0	1012
8:30 AM	0	0	0	0	0	0	92	0	0	458	193	0	0	387	0	0	1130
8:45 AM	0	0	0	0	0	0	110	0	0	439	127	0	0	408	0	0	1084
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	794	0	0	3568	1367	0	0	2947	0	0	8676
APPROACH %'s :					0.00%	0.00%	100.00%	0.00%	0.00%	72.30%	27.70%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	432	0	0	1888	761	0	0	1478	0	0	4559
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.755	0.000	0.000	0.950	0.937	0.000	0.000	0.849	0.000	0.000	0.950
							0.755				0.957				0.849		

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	2	0	0	3	1	0	0	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	73	0	0	377	129	0	0	565	0	0	1144
4:15 PM	0	0	0	0	0	0	90	0	0	346	137	0	0	478	0	0	1051
4:30 PM	0	0	0	0	0	0	92	0	0	391	115	0	0	500	0	0	1098
4:45 PM	0	0	0	0	0	0	103	0	0	390	114	0	0	494	0	0	1101
5:00 PM	0	0	0	0	0	0	82	0	0	350	107	0	0	577	0	0	1116
5:15 PM	0	0	0	0	0	0	82	0	0	353	138	0	0	599	0	0	1172
5:30 PM	0	0	0	0	0	0	97	0	0	371	100	0	0	549	0	0	1117
5:45 PM	0	0	0	0	0	0	92	0	0	359	135	0	0	574	0	0	1160
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	711	0	0	2937	975	0	0	4336	0	0	8959
APPROACH %'s :					0.00%	0.00%	100.00%	0.00%	0.00%	75.08%	24.92%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	353	0	0	1433	480	0	0	2299	0	0	4565
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.910	0.000	0.000	0.966	0.870	0.000	0.000	0.960	0.000	0.000	0.974
							0.910				0.968				0.960		

National Data & Surveying Services

Intersection Turning Movement Count

Location: I 805 SB Ramps & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-015
Date: 1/29/2019

Bikes

NS/EW Streets:	I 805 SB Ramps				I 805 SB Ramps				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	2	0	0	3	1	0	0	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	1	0	0	3	0	0	0	1	0	0	5
APPROACH %'s :					0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	07:15 AM - 08:15 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.500
									0.500								

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	2	0	0	3	1	0	0	3	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	3	1	0	0	6	0	0	10
APPROACH %'s :									0.00%	75.00%	25.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	1	1	0	0	5	0	0	7
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.625	0.000	0.000	0.583
									0.500				0.625				

National Data & Surveying Services

Intersection Turning Movement Count

Location: I 805 SB Ramps & Balboa Ave
City: San Diego
Project ID: 19-04036-015
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	I 805 SB Ramps		I 805 SB Ramps		Balboa Ave		Balboa Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	1	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	1	1	0	0	0	0	2
8:00 AM	0	1	0	1	0	0	0	0	2
8:15 AM	1	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	1	0	0	0	0	0	1
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	1	1	2	3	0	0	0	0	7
APPROACH %'s :	50.00%	50.00%	40.00%	60.00%					
PEAK HR :	**07:15 AM - 08:15 AM**								TOTAL
PEAK HR VOL :	0	1	1	3	0	0	0	0	5
PEAK HR FACTOR :		0.250	0.250	0.750					0.625
	0.250		0.500						

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	1	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	1	0	0	0	0	0	0	1
4:45 PM	0	1	0	0	0	0	0	0	1
5:00 PM	0	1	2	0	0	0	0	0	3
5:15 PM	0	0	2	1	0	0	0	0	3
5:30 PM	0	0	0	3	0	0	0	0	3
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	1	3	4	4	0	0	0	0	12
APPROACH %'s :	25.00%	75.00%	50.00%	50.00%					
PEAK HR :	**05:00 PM - 06:00 PM**								TOTAL
PEAK HR VOL :	0	1	4	4	0	0	0	0	9
PEAK HR FACTOR :		0.250	0.500	0.333					0.750
	0.250		0.667						

Prepared by National Data & Surveying Services

I 805 SB Ramps & Balboa Ave

Peak Hour Turning Movement Count

ID: 19-04036-015
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS

AM: 07:15 AM - 08:15 AM
NOON: NONE
PM: 05:00 PM - 06:00 PM

COUNT PERIODS

AM: 07:00 AM - 09:00 AM
NOON: NONE
PM: 04:00 PM - 06:00 PM

I 805 SB Ramps — SOUTHBOUND

AM	432	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	353	0	0	0	0	PM

Balboa Ave — EASTBOUND

AM	NOON	PM		
1910	0	2652	⇦	
0	0	0	↶	0
0	0	0	↱	0
1888	0	1433	→	3
761	0	480	↴	1
AM	NOON	PM		

WESTBOUND — Balboa Ave

PM	NOON	AM		
				0
0	0	0	↰	0
2299	0	1478	←	3
0	0	0	↰	0
0	0	0	↶	0
PM	NOON	AM		
1433	0	1888	⇨	

I 805 SB Ramps — NORTHBOUND

PM	480	0	0	0	0	PM
NOON	0	0	0	0	0	NOON
AM	761	0	0	0	0	AM

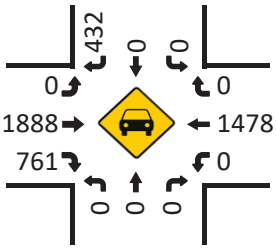
	2	0	0	0
	0	0	0	0

CONTROL

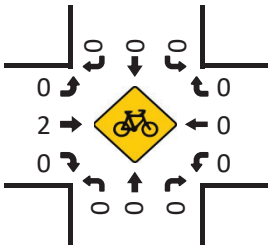
Signalized

TEV	4559 AM	0 NOON	4565 PM
PHF	0.95		0.97

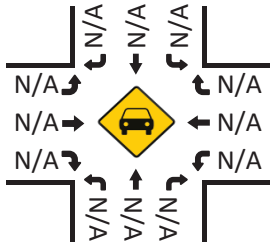
Total Vehicles (AM)



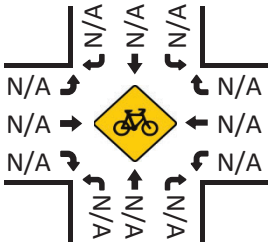
Bikes (AM)



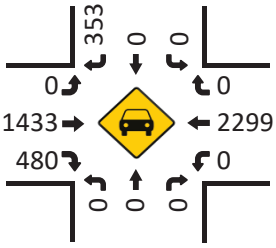
Total Vehicles (Noon)



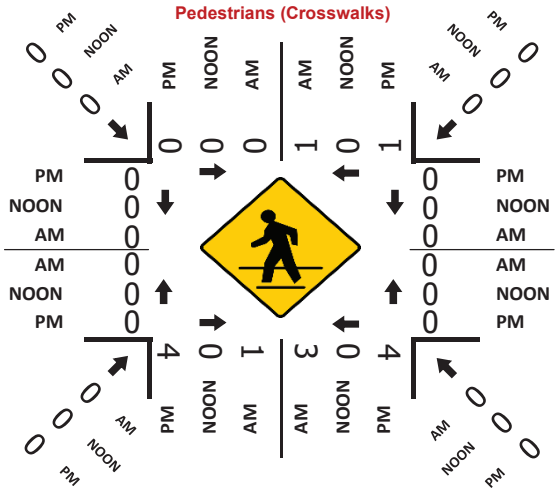
Bikes (NOON)



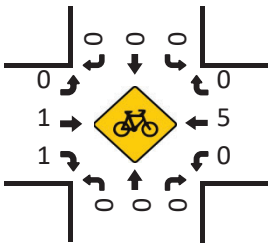
Total Vehicles (PM)



Pedestrians (Crosswalks)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: I 805 NB Ramps & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-016
Date: 1/29/2019

Total

NS/EW Streets:	I 805 NB Ramps				I 805 NB Ramps				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	2	0	0	0	1	0	0	3	1	0	0	3	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	96	0	0	0	158	0	0	352	111	0	0	199	88	0	1004
7:15 AM	0	0	84	0	0	0	141	0	0	473	110	0	0	241	109	0	1158
7:30 AM	0	0	62	0	0	0	142	0	0	454	99	0	0	277	109	0	1143
7:45 AM	0	0	100	0	0	0	132	0	0	567	103	0	0	329	100	0	1331
8:00 AM	0	0	89	0	0	0	117	0	0	496	115	0	0	269	110	0	1196
8:15 AM	0	0	83	0	0	0	140	0	0	508	87	0	0	291	90	0	1199
8:30 AM	0	0	95	0	0	0	129	0	0	486	87	0	0	301	124	0	1222
8:45 AM	0	0	121	0	0	0	94	0	0	493	84	0	0	336	83	0	1211
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	730	0	0	0	1053	0	0	3829	796	0	0	2243	813	0	9464
APPROACH %'s :	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	82.79%	17.21%	0.00%	0.00%	73.40%	26.60%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	0	0	367	0	0	0	518	0	0	2057	392	0	0	1190	424	0	4948
PEAK HR FACTOR :	0.000	0.000	0.918	0.000	0.000	0.000	0.925	0.000	0.000	0.907	0.852	0.000	0.000	0.904	0.855	0.000	0.929
	0.918				0.925				0.914				0.941				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	2	0	0	0	1	0	0	3	1	0	0	3	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	108	0	0	0	182	0	0	434	97	0	0	499	173	0	1493
4:15 PM	0	0	113	0	0	0	170	0	0	356	80	0	0	387	158	0	1264
4:30 PM	0	0	117	0	0	0	137	0	0	347	90	0	0	445	172	0	1308
4:45 PM	0	0	126	0	0	0	152	0	0	387	94	0	0	467	162	0	1388
5:00 PM	0	0	109	0	0	0	180	0	0	342	75	0	0	590	183	0	1479
5:15 PM	0	0	133	0	0	0	188	0	0	394	89	0	0	497	196	0	1497
5:30 PM	0	0	117	0	0	0	172	0	0	367	80	0	0	455	153	0	1344
5:45 PM	0	0	145	0	0	0	128	0	0	315	98	0	0	420	125	0	1231
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	968	0	0	0	1309	0	0	2942	703	0	0	3760	1322	0	11004
APPROACH %'s :	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	80.71%	19.29%	0.00%	0.00%	73.99%	26.01%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	0	0	485	0	0	0	692	0	0	1490	338	0	0	2009	694	0	5708
PEAK HR FACTOR :	0.000	0.000	0.912	0.000	0.000	0.000	0.920	0.000	0.000	0.945	0.899	0.000	0.000	0.851	0.885	0.000	0.953
	0.912				0.920				0.946				0.874				

National Data & Surveying Services

Intersection Turning Movement Count

Location: I 805 NB Ramps & Balboa Ave
City: San Diego
Control: Signalized

Project ID: 19-04036-016
Date: 1/29/2019

Bikes

NS/EW Streets:	I 805 NB Ramps				I 805 NB Ramps				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	2	0	0	0	1	0	0	3	1	0	0	3	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	3	0	0	0	2	0	0	5
APPROACH %'s :									0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.250
										0.250							

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	2	0	0	0	1	0	0	3	1	0	0	3	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
5:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	5
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	5	0	0	0	7	0	0	12
APPROACH %'s :									0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	5	0	0	0	4	0	0	9
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.417	0.000	0.000	0.000	0.250	0.000	0.000	0.450
										0.417				0.250			

National Data & Surveying Services

Intersection Turning Movement Count

Location: I 805 NB Ramps & Balboa Ave
City: San Diego
Project ID: 19-04036-016
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	I 805 NB Ramps		I 805 NB Ramps		Balboa Ave		Balboa Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	1	0	0	0	0	1
7:15 AM	0	0	1	0	0	0	0	0	1
7:30 AM	1	0	0	0	1	1	0	0	3
7:45 AM	1	1	0	0	0	0	0	0	2
8:00 AM	0	0	2	0	0	0	0	0	2
8:15 AM	0	0	0	2	0	0	0	0	2
8:30 AM	0	0	0	0	0	1	0	0	1
8:45 AM	0	2	0	0	0	0	0	0	2
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	2	3	3	3	1	2	0	0	14
APPROACH %'s :	40.00%	60.00%	50.00%	50.00%	33.33%	66.67%			
PEAK HR :	**07:45 AM - 08:45 AM**								TOTAL
PEAK HR VOL :	1	1	2	2	0	1	0	0	7
PEAK HR FACTOR :	0.250	0.250	0.250	0.250		0.250			0.875
	0.250		0.500		0.250				

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	1	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	1	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	2	2	0	0	2	0	0	6
5:15 PM	1	2	1	0	1	2	0	0	7
5:30 PM	3	0	1	0	4	0	0	0	8
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	4	4	5	1	5	4	0	0	23
APPROACH %'s :	50.00%	50.00%	83.33%	16.67%	55.56%	44.44%			
PEAK HR :	**04:45 PM - 05:45 PM**								TOTAL
PEAK HR VOL :	4	4	4	0	5	4	0	0	21
PEAK HR FACTOR :	0.333	0.500	0.500		0.313	0.500			0.656
	0.667		0.500		0.563				

Prepared by National Data & Surveying Services

I 805 NB Ramps & Balboa Ave

Peak Hour Turning Movement Count

ID: 19-04036-016
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS

AM: 07:45 AM - 08:45 AM
NOON: NONE
PM: 04:45 PM - 05:45 PM

COUNT PERIODS

AM: 07:00 AM - 09:00 AM
NOON: NONE
PM: 04:00 PM - 06:00 PM

I 805 NB Ramps — SOUTHBOUND

AM	518	0	0	0	424
NOON	0	0	0	0	0
PM	692	0	0	0	694

EASTBOUND — Balboa Ave

AM	NOON	PM	
1708	0	2701	
0	0	0	0
0	0	0	0
2057	0	1490	3
392	0	338	1

WESTBOUND — Balboa Ave

PM	NOON	AM	
694	0	424	1
2009	0	1190	3
0	0	0	0
0	0	0	0
1975	0	2424	

CONTROL

Signalized

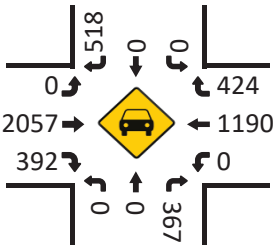
TEV	4948	0	5708
	AM	NOON	PM
PHF	0.93		0.95

I 805 NB Ramps — NORTHBOUND

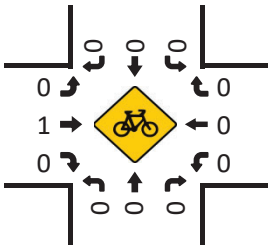
PM	338	0	0	0	485
NOON	0	0	0	0	0
AM	392	0	0	0	367

0 0 0 2

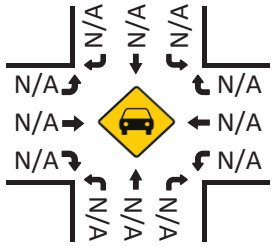
Total Vehicles (AM)



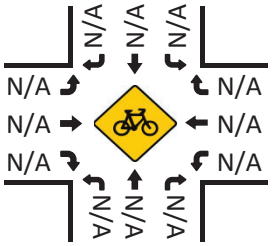
Bikes (AM)



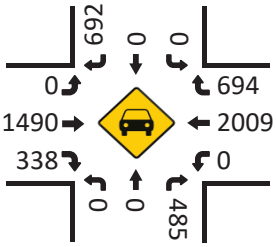
Total Vehicles (Noon)



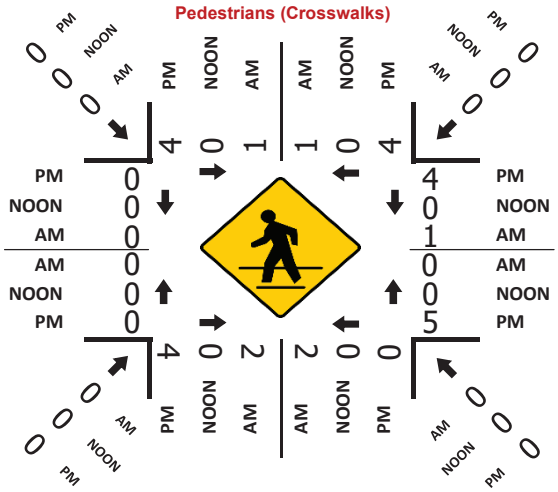
Bikes (NOON)



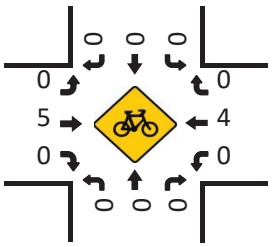
Total Vehicles (PM)



Pedestrians (Crosswalks)



Bikes (PM)



National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Mt Alifan Dr
City: San Diego
Control: Signalized

Project ID: 19-04036-017
Date: 1/29/2019

Total

NS/EW Streets:	Genesee Ave				Genesee Ave				Mt Alifan Dr				Mt Alifan Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	1	0	1	2	1	0	0.5	1	0.5	0	0.5	1.5	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	5	170	52	2	8	101	18	3	19	62	11	0	9	26	44	0	530
7:15 AM	14	154	49	0	5	145	19	3	39	92	12	0	22	26	45	1	626
7:30 AM	9	240	64	0	12	160	25	1	41	99	17	0	38	46	23	0	775
7:45 AM	14	222	48	1	14	175	28	0	35	91	10	0	26	53	35	0	752
8:00 AM	18	223	45	0	4	128	31	3	28	66	21	0	30	75	34	0	706
8:15 AM	25	223	38	1	1	113	45	0	48	114	19	0	24	71	31	0	753
8:30 AM	18	217	45	1	5	100	31	3	58	92	11	0	24	53	32	0	690
8:45 AM	14	193	48	4	13	122	26	2	48	77	18	0	25	35	29	0	654
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	117	1642	389	9	62	1044	223	15	316	693	119	0	198	385	273	1	5486
APPROACH %'s :	5.42%	76.12%	18.03%	0.42%	4.61%	77.68%	16.59%	1.12%	28.01%	61.44%	10.55%	0.00%	23.10%	44.92%	31.86%	0.12%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	66	908	195	2	31	576	129	4	152	370	67	0	118	245	123	0	2986
PEAK HR FACTOR :	0.660	0.946	0.762	0.500	0.554	0.823	0.717	0.333	0.792	0.811	0.798	0.000	0.776	0.817	0.879	0.000	0.963
	0.935				0.853				0.814				0.874				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	1	0	1	2	1	0	0.5	1	0.5	0	0.5	1.5	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	21	196	39	5	21	214	48	2	49	70	28	0	67	54	27	0	841
4:15 PM	14	134	28	1	13	200	47	2	44	68	27	0	69	80	25	1	753
4:30 PM	19	151	34	2	23	220	47	1	40	60	36	0	75	87	28	0	823
4:45 PM	11	115	32	2	21	214	41	2	39	79	29	0	102	105	28	0	820
5:00 PM	19	135	32	0	18	222	46	0	41	62	30	0	80	59	28	0	772
5:15 PM	14	141	49	0	18	230	55	1	29	57	28	0	108	85	32	0	847
5:30 PM	17	149	32	2	29	230	51	3	50	64	27	0	86	95	23	0	858
5:45 PM	18	134	37	2	31	221	55	4	51	67	32	0	68	80	24	0	824
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	133	1155	283	14	174	1751	390	15	343	527	237	0	655	645	215	1	6538
APPROACH %'s :	8.39%	72.87%	17.85%	0.88%	7.47%	75.15%	16.74%	0.64%	30.98%	47.61%	21.41%	0.00%	43.21%	42.55%	14.18%	0.07%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	68	559	150	4	96	903	207	8	171	250	117	0	342	319	107	0	3301
PEAK HR FACTOR :	0.895	0.938	0.765	0.500	0.774	0.982	0.941	0.500	0.838	0.933	0.914	0.000	0.792	0.839	0.836	0.000	0.962
	0.957				0.970				0.897				0.853				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Mt Alifan Dr
City: San Diego
Control: Signalized

Project ID: 19-04036-017
Date: 1/29/2019

Bikes

NS/EW Streets:	Genesee Ave				Genesee Ave				Mt Alifan Dr				Mt Alifan Dr				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	1	0	1	2	1	0	0.5	1	0.5	0	0.5	1.5	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
7:30 AM	0	2	0	0	0	1	0	0	0	0	1	0	0	0	0	0	4
7:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	1	1	0	0	0	0	0	1	1	0	0	0	0	1	0	5
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	5	1	0	0	1	0	0	1	1	1	0	0	1	2	0	13
APPROACH %'s :	0.00%	83.33%	16.67%	0.00%	0.00%	100.00%	0.00%	0.00%	33.33%	33.33%	33.33%	0.00%	0.00%	33.33%	66.67%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	5	1	0	0	1	0	0	1	1	1	0	0	0	1	0	11
PEAK HR FACTOR :	0.000	0.625	0.250	0.000	0.000	0.250	0.000	0.000	0.250	0.250	0.250	0.000	0.000	0.000	0.250	0.000	0.550
		0.750				0.250				0.375				0.250			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	3	1	0	1	2	1	0	0.5	1	0.5	0	0.5	1.5	1	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	1	1	0	0	1	0	0	0	0	1	0	4
4:30 PM	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	3
4:45 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	1	1	0	0	0	6	2	0	0	4	1	0	0	0	1	0	16
APPROACH %'s :	50.00%	50.00%	0.00%	0.00%	0.00%	75.00%	25.00%	0.00%	0.00%	80.00%	20.00%	0.00%	0.00%	0.00%	100.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	4
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.500	0.250	0.000	0.000	0.000	0.000	0.000	0.500
						0.250				0.375							

National Data & Surveying Services

Intersection Turning Movement Count

Location: Genesee Ave & Mt Alifan Dr
City: San Diego
Project ID: 19-04036-017
Date: 1/29/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Genesee Ave		Genesee Ave		Mt Alifan Dr		Mt Alifan Dr		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	1	1	0	2	0	2	0	0	6
7:15 AM	1	0	1	7	4	2	0	0	15
7:30 AM	0	1	2	3	2	1	0	0	9
7:45 AM	1	3	0	4	0	0	0	0	8
8:00 AM	0	1	0	6	0	2	0	0	9
8:15 AM	1	1	0	2	4	1	0	0	9
8:30 AM	1	1	2	3	3	2	1	1	14
8:45 AM	2	6	3	5	6	4	1	1	28
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	7	14	8	32	19	14	2	2	98
APPROACH %'s :	33.33%	66.67%	20.00%	80.00%	57.58%	42.42%	50.00%	50.00%	
PEAK HR :	**07:30 AM - 08:30 AM**								TOTAL
PEAK HR VOL :	2	6	2	15	6	4	0	0	35
PEAK HR FACTOR :	0.500	0.500	0.250	0.625	0.375	0.500			0.972
	0.500		0.708		0.500				

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	2	1	2	3	3	6	1	1	19
4:15 PM	0	0	4	5	3	3	0	2	17
4:30 PM	2	1	2	5	3	6	0	0	19
4:45 PM	3	4	2	2	0	2	0	3	16
5:00 PM	0	1	5	2	0	5	1	0	14
5:15 PM	2	1	3	2	4	2	1	3	18
5:30 PM	0	3	1	1	1	6	0	1	13
5:45 PM	3	2	2	2	2	6	1	0	18
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	12	13	21	22	16	36	4	10	134
APPROACH %'s :	48.00%	52.00%	48.84%	51.16%	30.77%	69.23%	28.57%	71.43%	
PEAK HR :	**05:00 PM - 06:00 PM**								TOTAL
PEAK HR VOL :	5	7	11	7	7	19	3	4	63
PEAK HR FACTOR :	0.417	0.583	0.550	0.875	0.438	0.792	0.750	0.333	0.875
	0.600		0.643		0.813		0.438		

Prepared by National Data & Surveying Services

Genesee Ave & Mt Alifan Dr

Peak Hour Turning Movement Count

ID: 19-04036-017
City: San Diego

Day: Tuesday
Date: 01/29/2019

PEAK HOURS

AM	07:30 AM - 08:30 AM
NOON	NONE
PM	05:00 PM - 06:00 PM

COUNT PERIODS

AM	07:00 AM - 09:00 AM
NOON	NONE
PM	04:00 PM - 06:00 PM

Genesee Ave — SOUTHBOUND

AM	129	576	31	4	1187	AM
NOON	0	0	0	0	0	NOON
PM	207	903	96	8	845	PM

EASTBOUND — Mt Alifan Dr

AM	NOON	PM	
440	0	594	
0	0	0	0
152	0	171	0.5
370	0	250	1
67	0	117	0.5

WESTBOUND — Mt Alifan Dr

PM	NOON	AM	
107	0	123	1
319	0	245	1.5
342	0	118	0.5
0	0	0	0
496	0	596	

NORTHBOUND — Genesee Ave

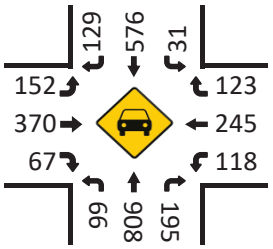
PM	1366	4	68	559	150	PM
NOON	0	0	0	0	0	NOON
AM	763	2	66	908	195	AM

	1	2	1	0
	0	1	3	1

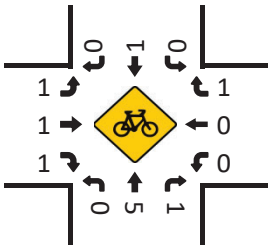
CONTROL: Signalized

TEV	2986 AM	0 NOON	3301 PM
PHF	0.96		0.96

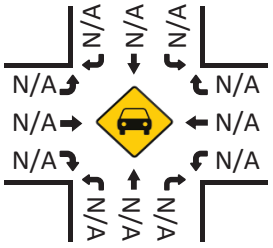
Total Vehicles (AM)



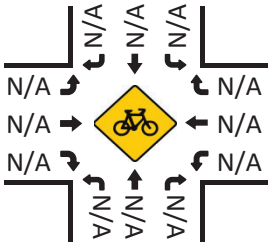
Bikes (AM)



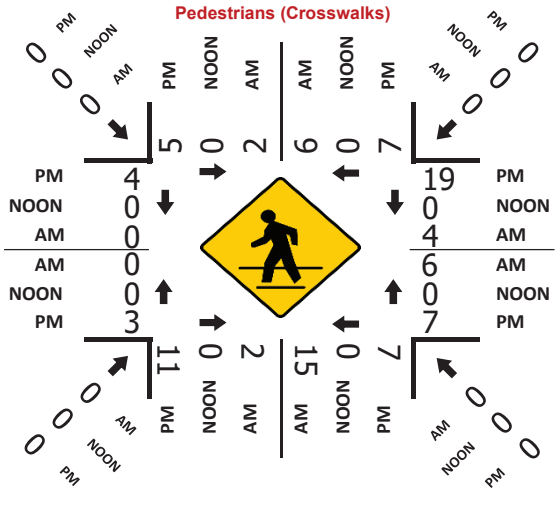
Total Vehicles (Noon)



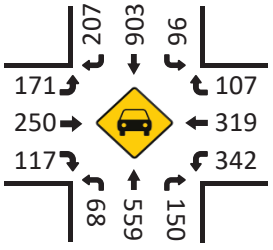
Bikes (NOON)



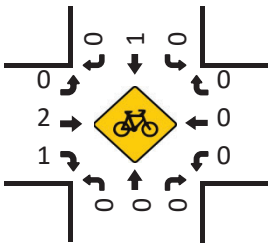
Pedestrians (Crosswalks)



Total Vehicles (PM)



Bikes (PM)



Appendix D
Peak Hour Intersection LOS Worksheets – Existing Conditions

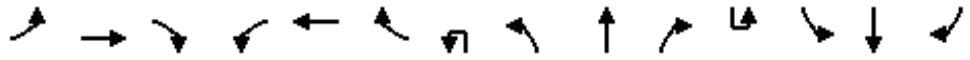
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	129	9	106	520	320	161	1001	67	6
Future Volume (veh/h)	6	208	437	129	9	106	520	320	161	1001	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	95		114	559	241	166	1032	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	970	199		290	811	349	228	1088	51	
Arrive On Green		0.08	0.33	0.33		0.08	0.34	0.34	0.09	0.42	0.42	
Sat Flow, veh/h		3442	2910	596		3442	2380	1023	3442	3439	160	
Grp Volume(v), veh/h		219	278	277		114	415	385	166	531	549	
Grp Sat Flow(s),veh/h/ln		1721	1770	1736		1721	1770	1634	1721	1770	1829	
Q Serve(g_s), s		6.7	13.4	13.6		3.4	21.8	21.9	5.1	31.2	31.3	
Cycle Q Clear(g_c), s		6.7	13.4	13.6		3.4	21.8	21.9	5.1	31.2	31.3	
Prop In Lane		1.00		0.34		1.00		0.63	1.00		0.09	
Lane Grp Cap(c), veh/h		283	590	579		290	603	557	228	560	579	
V/C Ratio(X)		0.77	0.47	0.48		0.39	0.69	0.69	0.73	0.95	0.95	
Avail Cap(c_a), veh/h		433	590	579		290	603	557	402	575	594	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.87	0.87	0.87	
Uniform Delay (d), s/veh		48.6	28.5	28.5		46.8	30.7	30.7	48.3	30.4	30.4	
Incr Delay (d2), s/veh		1.9	2.7	2.8		0.3	6.3	6.9	1.5	22.5	22.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.0	7.0		1.6	11.7	10.9	2.4	18.6	19.2	
LnGrp Delay(d),s/veh		50.5	31.2	31.4		47.2	37.0	37.6	49.8	52.9	52.5	
LnGrp LOS		D	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			774				914			1246		
Approach Delay, s/veh			36.7				38.5			52.3		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.1	41.0	11.6	41.4	13.3	41.8	13.8	39.1
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	15.6	7.1	14.4	8.7	23.9	9.2	33.3
Green Ext Time (p_c), s	0.0	3.5	0.1	1.6	0.2	3.0	0.0	0.9

Intersection Summary	
HCM 2010 Ctrl Delay	42.6
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	382	100
Future Volume (veh/h)	106	382	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	434	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1002	183
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	2968	542
Grp Volume(v), veh/h	120	257	257
Grp Sat Flow(s),veh/h/ln	1774	1770	1740
Q Serve(g_s), s	7.2	12.2	12.4
Cycle Q Clear(g_c), s	7.2	12.2	12.4
Prop In Lane	1.00		0.31
Lane Grp Cap(c), veh/h	147	597	587
V/C Ratio(X)	0.82	0.43	0.44
Avail Cap(c_a), veh/h	158	597	587
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.7	27.8
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.0	6.0
LnGrp Delay(d),s/veh	72.5	27.9	28.0
LnGrp LOS	E	C	C
Approach Vol, veh/h		634	
Approach Delay, s/veh		36.4	
Approach LOS		D	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	27	3	66	15	10	13	3	68	1209	3	1	6	497	20
Future Volume (veh/h)	27	3	66	15	10	13	3	68	1209	3	1	6	497	20
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.98	0.99		0.97		1.00		1.00		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	36	4	61	19	13	11		76	1343	2		7	540	15
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.75	0.75	0.75	0.79	0.79	0.79		0.90	0.90	0.90		0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	86	19	91	103	67	42		681	2763	4		12	1338	37
Arrive On Green	0.10	0.10	0.10	0.10	0.10	0.10		0.26	0.51	0.51		0.01	0.38	0.38
Sat Flow, veh/h	416	189	923	554	677	423		1774	3626	5		1774	3516	98
Grp Volume(v), veh/h	101	0	0	43	0	0		76	655	690		7	272	283
Grp Sat Flow(s),veh/h/ln	1528	0	0	1654	0	0		1774	1770	1862		1774	1770	1844
Q Serve(g_s), s	4.3	0.0	0.0	0.0	0.0	0.0		3.5	26.0	26.0		0.4	12.1	12.2
Cycle Q Clear(g_c), s	6.8	0.0	0.0	2.4	0.0	0.0		3.5	26.0	26.0		0.4	12.1	12.2
Prop In Lane	0.36		0.60	0.44		0.26		1.00		0.00		1.00		0.05
Lane Grp Cap(c), veh/h	196	0	0	211	0	0		681	1349	1419		12	673	702
V/C Ratio(X)	0.52	0.00	0.00	0.20	0.00	0.00		0.11	0.49	0.49		0.56	0.40	0.40
Avail Cap(c_a), veh/h	491	0	0	509	0	0		681	1349	1419		158	673	702
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.67	0.67	0.67		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.76	0.76	0.76		0.87	0.87	0.87
Uniform Delay (d), s/veh	46.9	0.0	0.0	45.0	0.0	0.0		26.0	12.7	12.7		53.5	24.5	24.5
Incr Delay (d2), s/veh	0.8	0.0	0.0	0.2	0.0	0.0		0.0	1.0	0.9		12.2	1.6	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	0.0	0.0	1.2	0.0	0.0		1.7	13.1	13.7		0.3	6.2	6.4
LnGrp Delay(d),s/veh	47.6	0.0	0.0	45.2	0.0	0.0		26.0	13.6	13.6		65.7	26.0	26.0
LnGrp LOS	D			D				C	B	B		E	C	C
Approach Vol, veh/h		101			43				1421				562	
Approach Delay, s/veh		47.6			45.2				14.3				26.5	
Approach LOS		D			D				B				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	5.2	87.3		15.5	46.5	46.0		15.5
Change Period (Y+Rc), s	4.4	5.0		4.9	5.0	* 4.9		4.9
Max Green Setting (Gmax), s	9.6	52.0		32.1	20.6	* 41		32.1
Max Q Clear Time (g_c+I1), s	2.4	28.0		8.8	5.5	14.2		4.4
Green Ext Time (p_c), s	0.0	17.4		0.3	0.1	2.3		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	19.7
HCM 2010 LOS	B

Notes

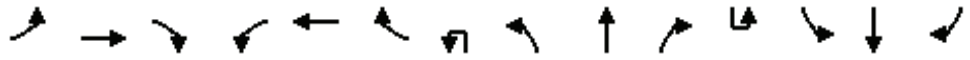


Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	46	100	1159	62	1	27	565
Future Volume (veh/h)	46	100	1159	62	1	27	565
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.99		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	55	84	1413	53		31	657
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.83	0.83	0.82	0.82		0.86	0.86
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	70	107	1846	69		354	2771
Arrive On Green	0.11	0.11	1.00	1.00		0.07	0.26
Sat Flow, veh/h	646	986	3572	130		1774	3632
Grp Volume(v), veh/h	140	0	718	748		31	657
Grp Sat Flow(s),veh/h/ln	1643	0	1770	1840		1774	1770
Q Serve(g_s), s	9.0	0.0	0.0	0.0		1.8	15.8
Cycle Q Clear(g_c), s	9.0	0.0	0.0	0.0		1.8	15.8
Prop In Lane	0.39	0.60		0.07		1.00	
Lane Grp Cap(c), veh/h	179	0	939	976		354	2771
V/C Ratio(X)	0.78	0.00	0.76	0.77		0.09	0.24
Avail Cap(c_a), veh/h	367	0	939	976		354	2771
HCM Platoon Ratio	1.00	1.00	2.00	2.00		0.33	0.33
Upstream Filter(I)	1.00	0.00	0.86	0.86		0.98	0.98
Uniform Delay (d), s/veh	46.9	0.0	0.0	0.0		41.2	14.6
Incr Delay (d2), s/veh	2.9	0.0	5.1	5.0		0.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	4.2	0.0	1.3	1.3		0.9	7.9
LnGrp Delay(d),s/veh	49.8	0.0	5.1	5.0		41.2	14.8
LnGrp LOS	D		A	A		D	B
Approach Vol, veh/h	140		1466				688
Approach Delay, s/veh	49.8		5.0				16.0
Approach LOS	D		A				B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	27.4	63.0				90.4		17.6
Change Period (Y+Rc), s	5.8	* 5.7				5.8		5.9
Max Green Setting (Gmax), s	9.6	* 57				72.2		24.1
Max Q Clear Time (g_c+I1), s	13.8	2.0				17.8		11.0
Green Ext Time (p_c), s	0.0	28.4				8.7		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	11.0
HCM 2010 LOS	B

Notes

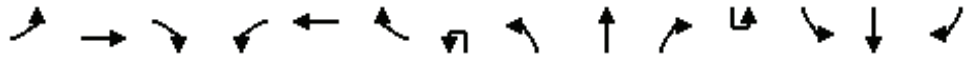


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	164	0	26	13	0	39	1	18	1032	4	1	8	545	47
Future Volume (veh/h)	164	0	26	13	0	39	1	18	1032	4	1	8	545	47
Number	7	4	14	3	8	18		1	6	16		5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	0.99		0.98		1.00		1.00		1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	245	0	27	18	0	37		21	1200	4		10	665	40
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.67	0.67	0.67	0.72	0.72	0.72		0.86	0.86	0.86		0.82	0.82	0.82
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	339	0	30	145	20	249		31	2301	8		17	2131	128
Arrive On Green	0.21	0.00	0.21	0.21	0.00	0.21		0.02	0.64	0.64		0.02	1.00	1.00
Sat Flow, veh/h	1284	0	142	470	94	1159		1774	3618	12		1774	3392	204
Grp Volume(v), veh/h	272	0	0	55	0	0		21	587	617		10	347	358
Grp Sat Flow(s),veh/h/ln	1426	0	0	1723	0	0		1774	1770	1861		1774	1770	1826
Q Serve(g_s), s	16.9	0.0	0.0	0.0	0.0	0.0		1.3	19.5	19.5		0.6	0.0	0.0
Cycle Q Clear(g_c), s	19.8	0.0	0.0	2.9	0.0	0.0		1.3	19.5	19.5		0.6	0.0	0.0
Prop In Lane	0.90		0.10	0.33		0.67		1.00		0.01		1.00		0.11
Lane Grp Cap(c), veh/h	369	0	0	414	0	0		31	1126	1183		17	1112	1147
V/C Ratio(X)	0.74	0.00	0.00	0.13	0.00	0.00		0.68	0.52	0.52		0.59	0.31	0.31
Avail Cap(c_a), veh/h	458	0	0	509	0	0		174	1126	1183		174	1112	1147
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.91	0.91	0.91		0.95	0.95	0.95
Uniform Delay (d), s/veh	40.8	0.0	0.0	34.5	0.0	0.0		52.8	10.7	10.7		52.8	0.0	0.0
Incr Delay (d2), s/veh	3.4	0.0	0.0	0.1	0.0	0.0		8.8	1.6	1.5		10.9	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	0.0	0.0	1.3	0.0	0.0		0.7	9.9	10.4		0.3	0.2	0.2
LnGrp Delay(d),s/veh	44.1	0.0	0.0	34.5	0.0	0.0		61.5	12.3	12.2		63.6	0.7	0.7
LnGrp LOS	D			C				E	B	B		E	A	A
Approach Vol, veh/h		272			55				1225				715	
Approach Delay, s/veh		44.1			34.5				13.1				1.6	
Approach LOS		D			C				B				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	6.3	73.7		28.1	5.4	74.5		28.1
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	10.6	* 53		30.1	10.6	52.2		30.1
Max Q Clear Time (g_c+I1), s	3.3	2.0		21.8	2.6	21.5		4.9
Green Ext Time (p_c), s	0.0	7.2		0.7	0.0	12.9		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	13.7
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	17	12	25	161	11	72	7	32	938	172	8	74	489	15
Future Volume (veh/h)	17	12	25	161	11	72	7	32	938	172	8	74	489	15
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.94		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	23	16	22	187	13	58		38	1104	141		89	589	12
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.75	0.75	0.75	0.86	0.86	0.86		0.85	0.85	0.85		0.83	0.83	0.83
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	51	37	30	259	15	435		246	2483	317		111	2359	48
Arrive On Green	0.29	0.29	0.29	0.29	0.29	0.29		0.28	1.00	1.00		0.06	0.46	0.46
Sat Flow, veh/h	53	127	102	719	50	1495		1774	4555	581		1774	5129	104
Grp Volume(v), veh/h	61	0	0	200	0	58		38	821	424		89	389	212
Grp Sat Flow(s),veh/h/ln	282	0	0	769	0	1495		1774	1695	1746		1774	1695	1843
Q Serve(g_s), s	1.7	0.0	0.0	0.0	0.0	4.0		2.3	0.0	0.0		6.9	9.8	9.8
Cycle Q Clear(g_c), s	38.7	0.0	0.0	37.0	0.0	4.0		2.3	0.0	0.0		6.9	9.8	9.8
Prop In Lane	0.38		0.36	0.93		1.00		1.00		0.33		1.00		0.06
Lane Grp Cap(c), veh/h	118	0	0	274	0	435		246	1848	952		111	1559	848
V/C Ratio(X)	0.52	0.00	0.00	0.73	0.00	0.13		0.15	0.44	0.45		0.81	0.25	0.25
Avail Cap(c_a), veh/h	165	0	0	317	0	481		246	1848	952		286	1559	848
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.93	0.93	0.93		0.96	0.96	0.96
Uniform Delay (d), s/veh	42.7	0.0	0.0	48.3	0.0	36.6		44.4	0.0	0.0		64.8	23.1	23.1
Incr Delay (d2), s/veh	1.3	0.0	0.0	5.5	0.0	0.1		0.1	0.7	1.4		4.9	0.4	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	0.0	7.9	0.0	1.7		1.1	0.2	0.4		3.6	4.7	5.2
LnGrp Delay(d),s/veh	44.0	0.0	0.0	53.8	0.0	36.6		44.5	0.7	1.4		69.7	23.4	23.7
LnGrp LOS	D			D		D		D	A	A		E	C	C
Approach Vol, veh/h		61			258				1283				690	
Approach Delay, s/veh		44.0			49.9				2.2				29.5	
Approach LOS		D			D				A				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	13.1	81.2		45.7	24.3	70.0		45.7
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	22.6	58.1		45.1	15.6	* 64		45.1
Max Q Clear Time (g_c+I1), s	8.9	2.0		40.7	4.3	11.8		39.0
Green Ext Time (p_c), s	0.1	41.9		0.0	0.0	10.9		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	16.9
HCM 2010 LOS	B

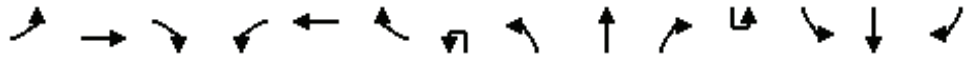
Notes

Intersection	
Intersection Delay, s/veh	9
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	62	86	49	25	7	52	44	50	10	54	2
Future Vol, veh/h	3	62	86	49	25	7	52	44	50	10	54	2
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	74	102	63	32	9	79	67	76	13	72	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	8.8	8.8	9.4	8.6
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	36%	2%	60%	15%
Vol Thru, %	30%	41%	31%	82%
Vol Right, %	34%	57%	9%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	146	151	81	66
LT Vol	52	3	49	10
Through Vol	44	62	25	54
RT Vol	50	86	7	2
Lane Flow Rate	221	180	104	88
Geometry Grp	1	1	1	1
Degree of Util (X)	0.281	0.223	0.143	0.119
Departure Headway (Hd)	4.57	4.458	4.946	4.874
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	783	802	722	731
Service Time	2.616	2.503	2.997	2.929
HCM Lane V/C Ratio	0.282	0.224	0.144	0.12
HCM Control Delay	9.4	8.8	8.8	8.6
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	1.2	0.9	0.5	0.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	33	26	67	94	27	75	7	88	1031	115	4	98	503	36
Future Volume (veh/h)	33	26	67	94	27	75	7	88	1031	115	4	98	503	36
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.98		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	40	31	57	121	35	67		96	1121	87		108	553	28
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	201	99	183	213	97	186		118	3134	243		130	2332	1035
Arrive On Green	0.17	0.17	0.17	0.17	0.17	0.17		0.07	0.65	0.65		0.15	1.00	1.00
Sat Flow, veh/h	1273	575	1057	1283	561	1074		1774	4802	372		1774	3539	1570
Grp Volume(v), veh/h	40	0	88	121	0	102		96	791	417		108	553	28
Grp Sat Flow(s),veh/h/ln	1273	0	1631	1283	0	1634		1774	1695	1784		1774	1770	1570
Q Serve(g_s), s	4.0	0.0	6.6	12.7	0.0	7.7		7.5	14.8	14.8		8.3	0.0	0.0
Cycle Q Clear(g_c), s	11.7	0.0	6.6	19.3	0.0	7.7		7.5	14.8	14.8		8.3	0.0	0.0
Prop In Lane	1.00		0.65	1.00		0.66		1.00		0.21		1.00		1.00
Lane Grp Cap(c), veh/h	201	0	282	213	0	283		118	2212	1164		130	2332	1035
V/C Ratio(X)	0.20	0.00	0.31	0.57	0.00	0.36		0.81	0.36	0.36		0.83	0.24	0.03
Avail Cap(c_a), veh/h	382	0	514	395	0	515		400	2212	1164		400	2332	1035
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.99	0.99	0.99
Uniform Delay (d), s/veh	56.2	0.0	50.6	59.1	0.0	51.1		64.5	11.0	11.0		58.9	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.5	1.8	0.0	0.6		4.9	0.5	0.9		5.1	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	3.0	4.6	0.0	3.5		3.8	7.1	7.6		4.2	0.1	0.0
LnGrp Delay(d),s/veh	56.6	0.0	51.1	60.9	0.0	51.7		69.4	11.5	11.9		64.0	0.2	0.0
LnGrp LOS	E		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		128			223				1304				689	
Approach Delay, s/veh		52.8			56.6				15.9				10.2	
Approach LOS		D			E				B				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	96.3		29.1	13.7	97.2		29.1
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	10.3	16.8		13.7	9.5	2.0		21.3
Green Ext Time (p_c), s	0.1	11.9		0.5	0.1	5.1		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	20.1
HCM 2010 LOS	C

Notes

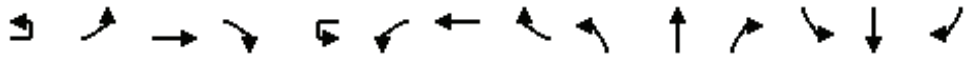


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	199	809	74	340	754	98	15	149	408	328	2	153	279	294
Future Volume (veh/h)	5	199	809	74	340	754	98	15	149	408	328	2	153	279	294
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		207	843	54	362	802	73		180	492	395		168	307	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		428	1065	68	438	981	89		212	904	606		200	482	344
Arrive On Green		0.12	0.32	0.32	0.13	0.30	0.30		0.12	0.26	0.26		0.11	0.25	0.25
Sat Flow, veh/h		3442	3365	216	3442	3268	297		1774	3539	1583		1774	1940	1384
Grp Volume(v), veh/h		207	443	454	362	434	441		180	492	395		168	279	254
Grp Sat Flow(s),veh/h/ln		1721	1770	1811	1721	1770	1796		1774	1770	1583		1774	1770	1555
Q Serve(g_s), s		5.9	24.1	24.1	10.8	24.0	24.0		10.5	12.7	21.6		9.8	14.8	15.4
Cycle Q Clear(g_c), s		5.9	24.1	24.1	10.8	24.0	24.0		10.5	12.7	21.6		9.8	14.8	15.4
Prop In Lane		1.00		0.12	1.00		0.17		1.00		1.00		1.00		0.89
Lane Grp Cap(c), veh/h		428	560	573	438	531	539		212	904	606		200	440	386
V/C Ratio(X)		0.48	0.79	0.79	0.83	0.82	0.82		0.85	0.54	0.65		0.84	0.64	0.66
Avail Cap(c_a), veh/h		981	1008	1032	981	1008	1023		506	1345	803		506	672	591
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		42.9	32.8	32.8	44.8	34.1	34.2		45.4	33.9	26.7		45.8	35.3	35.5
Incr Delay (d2), s/veh		0.3	3.1	3.0	1.5	3.1	3.1		3.6	0.3	0.8		3.6	1.2	1.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.8	12.2	12.5	5.2	12.2	12.3		5.4	6.3	9.6		5.0	7.4	6.8
LnGrp Delay(d),s/veh		43.3	35.9	35.8	46.4	37.3	37.3		49.0	34.3	27.6		49.4	36.5	37.1
LnGrp LOS		D	D	D	D	D	D		D	C	C		D	D	D
Approach Vol, veh/h			1104			1237				1067				701	
Approach Delay, s/veh			37.2			39.9				34.3				39.8	
Approach LOS			D			D				C				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.8	39.0	17.0	31.4	18.8	38.0	16.3	32.2
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	12.8	26.1	12.5	17.4	7.9	26.0	11.8	23.6
Green Ext Time (p_c), s	0.6	7.3	0.2	2.8	0.3	5.7	0.2	3.3

Intersection Summary	
HCM 2010 Ctrl Delay	37.7
HCM 2010 LOS	D

Notes

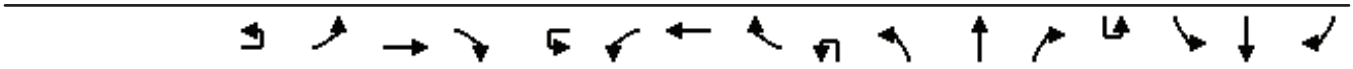


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	33	1100	85	3	50	987	92	184	88	83	60	95	68
Future Volume (veh/h)	13	33	1100	85	3	50	987	92	184	88	83	60	95	68
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		38	1250	67		62	1219	79	271	129	85	76	120	61
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		49	1350	72		79	1392	90	246	117	77	85	133	68
Arrive On Green		0.03	0.40	0.40		0.01	0.14	0.14	0.25	0.25	0.25	0.16	0.16	0.16
Sat Flow, veh/h		1774	3411	183		1774	3370	218	983	468	308	519	819	417
Grp Volume(v), veh/h		38	648	669		62	639	659	485	0	0	257	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1824		1774	1770	1818	1759	0	0	1755	0	0
Q Serve(g_s), s		3.0	48.8	49.0		4.9	49.6	49.8	35.1	0.0	0.0	20.1	0.0	0.0
Cycle Q Clear(g_c), s		3.0	48.8	49.0		4.9	49.6	49.8	35.1	0.0	0.0	20.1	0.0	0.0
Prop In Lane		1.00		0.10		1.00		0.12	0.56		0.18	0.30		0.24
Lane Grp Cap(c), veh/h		49	701	722		79	731	751	441	0	0	286	0	0
V/C Ratio(X)		0.78	0.92	0.93		0.78	0.87	0.88	1.10	0.00	0.00	0.90	0.00	0.00
Avail Cap(c_a), veh/h		122	701	722		122	731	751	441	0	0	352	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.73	0.73	0.73	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.7	40.3	40.4		68.3	56.9	57.0	52.5	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		9.5	19.8	19.7		5.4	10.5	10.4	72.7	0.0	0.0	19.7	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	27.6	28.7		2.5	26.5	27.3	25.9	0.0	0.0	11.3	0.0	0.0
LnGrp Delay(d),s/veh		77.2	60.1	60.1		73.7	67.4	67.4	125.2	0.0	0.0	77.2	0.0	0.0
LnGrp LOS		E	E	E		E	E	E	F			E		
Approach Vol, veh/h			1355				1360			485			257	
Approach Delay, s/veh			60.6				67.7			125.2			77.2	
Approach LOS			E				E			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.7	61.6		27.7	8.3	64.0		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	6.9	51.0		22.1	5.0	51.8		37.1
Green Ext Time (p_c), s	0.0	0.0		0.5	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	73.7
HCM 2010 LOS	E

Notes

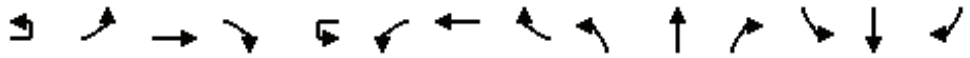


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	172	868	259	5	92	694	257	2	282	782	66	5	169	403	168
Future Volume (veh/h)	3	172	868	259	5	92	694	257	2	282	782	66	5	169	403	168
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		193	975	203		106	798	206		300	832	49		194	463	136
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		467	1563	325		153	1249	319		346	1043	61		241	644	280
Arrive On Green		0.35	0.71	0.71		0.06	0.41	0.41		0.20	0.42	0.42		0.14	0.36	0.36
Sat Flow, veh/h		1774	2910	605		3442	4011	1026		3442	4908	288		3442	3539	1537
Grp Volume(v), veh/h		193	592	586		106	673	331		300	574	307		194	463	136
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1646		1721	1695	1806		1721	1770	1537
Q Serve(g_s), s		11.6	24.1	24.2		4.2	22.1	22.5		11.8	20.6	20.8		7.6	15.8	5.6
Cycle Q Clear(g_c), s		11.6	24.1	24.2		4.2	22.1	22.5		11.8	20.6	20.8		7.6	15.8	5.6
Prop In Lane		1.00		0.35		1.00		0.62		1.00		0.16		1.00		1.00
Lane Grp Cap(c), veh/h		467	951	937		153	1056	513		346	720	384		241	644	280
V/C Ratio(X)		0.41	0.62	0.62		0.69	0.64	0.64		0.87	0.80	0.80		0.80	0.72	0.49
Avail Cap(c_a), veh/h		467	951	937		383	1056	513		457	826	440		383	786	341
HCM Platoon Ratio		1.33	1.33	1.33		1.33	1.33	1.33		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.94	0.94	0.94		0.89	0.89	0.89		1.00	1.00	1.00
Uniform Delay (d), s/veh		37.3	12.7	12.7		64.9	34.7	34.8		55.0	37.6	37.7		59.3	41.4	13.7
Incr Delay (d2), s/veh		0.0	0.3	0.3		2.0	2.8	5.8		9.6	5.2	9.5		2.7	3.4	2.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.7	11.7	11.6		2.0	10.8	11.0		6.0	10.1	11.2		3.7	8.0	3.5
LnGrp Delay(d),s/veh		37.3	13.0	13.0		66.9	37.5	40.6		64.6	42.8	47.2		62.0	44.8	15.9
LnGrp LOS		D	B	B		E	D	D		E	D	D		E	D	B
Approach Vol, veh/h			1371				1110				1181				793	
Approach Delay, s/veh			16.4				41.2				49.5				44.0	
Approach LOS			B				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.6	80.5	18.5	30.4	42.1	49.0	14.2	34.6
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	6.2	26.2	13.8	17.8	13.6	24.5	9.6	22.8
Green Ext Time (p_c), s	0.1	9.6	0.3	4.4	0.2	5.9	0.2	6.1

Intersection Summary	
HCM 2010 Ctrl Delay	36.3
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	11	67	970	40	5	54	1020	165	30	21	47	108	23	46
Future Volume (veh/h)	11	67	970	40	5	54	1020	165	30	21	47	108	23	46
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	0.97		0.98	0.99		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		71	1032	30		57	1085	123	36	25	39	150	32	45
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.84	0.84	0.84	0.72	0.72	0.72
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		113	3313	96		94	2992	339	247	202	168	312	283	235
Arrive On Green		0.01	0.22	0.22		0.05	1.00	1.00	0.03	0.11	0.11	0.08	0.15	0.15
Sat Flow, veh/h		3442	5079	148		3442	4626	524	1774	1863	1553	1774	1863	1549
Grp Volume(v), veh/h		71	689	373		57	795	413	36	25	39	150	32	45
Grp Sat Flow(s),veh/h/ln		1721	1695	1836		1721	1695	1760	1774	1863	1553	1774	1863	1549
Q Serve(g_s), s		2.9	23.9	23.9		2.3	0.0	0.0	2.5	1.7	3.2	10.4	2.1	3.6
Cycle Q Clear(g_c), s		2.9	23.9	23.9		2.3	0.0	0.0	2.5	1.7	3.2	10.4	2.1	3.6
Prop In Lane		1.00		0.08		1.00		0.30	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		113	2211	1198		94	2193	1138	247	202	168	312	283	235
V/C Ratio(X)		0.63	0.31	0.31		0.61	0.36	0.36	0.15	0.12	0.23	0.48	0.11	0.19
Avail Cap(c_a), veh/h		310	2211	1198		310	2193	1138	324	547	456	312	547	455
HCM Platoon Ratio		0.33	0.33	0.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.57	0.57	0.57		0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		68.4	28.5	28.5		65.4	0.0	0.0	52.8	56.4	57.1	49.2	51.2	51.9
Incr Delay (d2), s/veh		1.2	0.2	0.4		2.1	0.4	0.8	0.1	0.1	0.3	0.4	0.1	0.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.4	11.3	12.3		1.1	0.1	0.3	1.2	0.9	1.4	5.1	1.1	1.5
LnGrp Delay(d),s/veh		69.6	28.7	28.9		67.5	0.4	0.8	52.9	56.5	57.4	49.6	51.3	52.0
LnGrp LOS		E	C	C		E	A	A	D	E	E	D	D	D
Approach Vol, veh/h			1133				1265			100			227	
Approach Delay, s/veh			31.3				3.6			55.5			50.3	
Approach LOS			C				A			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.2	96.7	8.9	26.1	9.0	95.9	15.0	20.0
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	* 57	10.6	41.1	12.6	56.6	10.6	41.1
Max Q Clear Time (g_c+I1), s	4.3	25.9	4.5	5.6	4.9	2.0	12.4	5.2
Green Ext Time (p_c), s	0.0	14.5	0.0	0.2	0.0	14.0	0.0	0.1

Intersection Summary	
HCM 2010 Ctrl Delay	20.9
HCM 2010 LOS	C

Notes

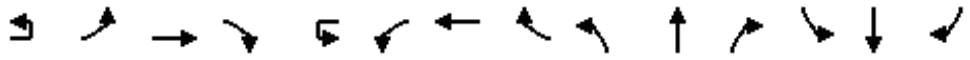


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	16	32	1091	18	181	1168	105	65	116	368	135	124	112
Future Volume (veh/h)	16	32	1091	18	181	1168	105	65	116	368	135	124	112
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.97	1.00		0.95	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		35	1186	15	191	1229	77	76	136	368	152	139	88
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.92	0.92	0.92	0.95	0.95	0.95	0.85	0.85	0.85	0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		45	1393	18	678	3089	194	119	274	827	201	605	259
Arrive On Green		0.01	0.09	0.09	0.76	1.00	1.00	0.01	0.05	0.05	0.06	0.17	0.17
Sat Flow, veh/h		1774	5173	65	1774	4882	306	3442	1863	1508	3442	3539	1519
Grp Volume(v), veh/h		35	777	424	191	853	453	76	136	368	152	139	88
Grp Sat Flow(s),veh/h/ln		1774	1695	1848	1774	1695	1798	1721	1863	1508	1721	1770	1519
Q Serve(g_s), s		2.8	31.6	31.6	4.5	0.0	0.0	3.1	10.0	3.7	6.1	4.7	7.1
Cycle Q Clear(g_c), s		2.8	31.6	31.6	4.5	0.0	0.0	3.1	10.0	3.7	6.1	4.7	7.1
Prop In Lane		1.00		0.04	1.00		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		45	913	498	678	2145	1138	119	274	827	201	605	259
V/C Ratio(X)		0.78	0.85	0.85	0.28	0.40	0.40	0.64	0.50	0.44	0.76	0.23	0.34
Avail Cap(c_a), veh/h		172	913	498	678	2145	1138	236	520	1027	334	1090	468
HCM Platoon Ratio		0.33	0.33	0.33	2.00	2.00	2.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)		0.95	0.95	0.95	0.80	0.80	0.80	0.61	0.61	0.61	1.00	1.00	1.00
Uniform Delay (d), s/veh		69.0	61.0	61.0	10.7	0.0	0.0	68.3	61.6	10.8	64.9	50.1	51.1
Incr Delay (d2), s/veh		9.7	9.4	15.8	0.1	0.4	0.8	1.3	0.3	0.1	2.2	0.1	0.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.5	16.0	18.4	2.1	0.1	0.3	1.5	5.2	6.5	3.0	2.3	3.0
LnGrp Delay(d),s/veh		78.8	70.4	76.9	10.8	0.4	0.8	69.6	61.9	10.8	67.1	50.2	51.4
LnGrp LOS		E	E	E	B	A	A	E	E	B	E	D	D
Approach Vol, veh/h			1236			1497			580			379	
Approach Delay, s/veh			72.8			1.9			30.5			57.2	
Approach LOS			E			A			C			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.9	43.0	9.2	28.8	7.9	94.0	12.6	25.5
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	30.6	* 38	9.6	43.1	13.6	54.6	13.6	39.1
Max Q Clear Time (g_c+I1), s	6.5	33.6	5.1	9.1	4.8	2.0	8.1	12.0
Green Ext Time (p_c), s	0.2	3.5	0.0	0.7	0.0	29.0	0.1	1.2

Intersection Summary	
HCM 2010 Ctrl Delay	35.8
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	5	23	1587	20	18	70	1342	27	23	43	163	61	33	57
Future Volume (veh/h)	5	23	1587	20	18	70	1342	27	23	43	163	61	33	57
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.95	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		25	1744	15		78	1491	21	30	57	150	80	43	53
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.91	0.91	0.91		0.90	0.90	0.90	0.76	0.76	0.76	0.76	0.76	0.76
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		32	2633	23		97	2807	40	37	70	185	92	49	61
Arrive On Green		0.04	1.00	1.00		0.11	1.00	1.00	0.18	0.18	0.18	0.12	0.12	0.12
Sat Flow, veh/h		1774	5200	45		1774	5166	73	204	388	1021	776	417	514
Grp Volume(v), veh/h		25	1137	622		78	979	533	237	0	0	176	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1855		1774	1695	1848	1613	0	0	1708	0	0
Q Serve(g_s), s		2.0	0.0	0.0		6.0	0.0	0.0	19.7	0.0	0.0	14.2	0.0	0.0
Cycle Q Clear(g_c), s		2.0	0.0	0.0		6.0	0.0	0.0	19.7	0.0	0.0	14.2	0.0	0.0
Prop In Lane		1.00		0.02		1.00		0.04	0.13		0.63	0.45		0.30
Lane Grp Cap(c), veh/h		32	1717	939		97	1842	1004	292	0	0	202	0	0
V/C Ratio(X)		0.79	0.66	0.66		0.80	0.53	0.53	0.81	0.00	0.00	0.87	0.00	0.00
Avail Cap(c_a), veh/h		134	1717	939		185	1842	1004	404	0	0	294	0	0
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.78	0.78	0.78		0.89	0.89	0.89	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.3	0.0	0.0		61.6	0.0	0.0	55.1	0.0	0.0	60.7	0.0	0.0
Incr Delay (d2), s/veh		12.2	1.6	2.9		5.1	1.0	1.8	6.0	0.0	0.0	13.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.1	0.4	0.8		3.1	0.3	0.5	9.3	0.0	0.0	7.4	0.0	0.0
LnGrp Delay(d),s/veh		79.4	1.6	2.9		66.7	1.0	1.8	61.0	0.0	0.0	73.7	0.0	0.0
LnGrp LOS		E	A	A		E	A	A	E			E		
Approach Vol, veh/h			1784				1590			237			176	
Approach Delay, s/veh			3.1				4.5			61.0			73.7	
Approach LOS			A				A			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.1	76.3		30.2	6.9	81.5		21.4
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	14.6	* 47		35.1	10.6	50.6		24.1
Max Q Clear Time (g_c+I1), s	8.0	2.0		21.7	4.0	2.0		16.2
Green Ext Time (p_c), s	0.0	31.5		0.8	0.0	20.6		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	10.6
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1778	120	366	1306	269	88	86	614	260	147	5
Future Volume (veh/h)	2	1778	120	366	1306	269	88	86	614	260	147	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	1833	87	398	1420	204	100	100	614	289	163	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	1880	89	350	2917	889	255	267	1064	293	298	7
Arrive On Green	0.00	0.76	0.76	0.20	0.57	0.57	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4966	235	1774	5085	1549	1774	1863	3066	1774	1809	44
Grp Volume(v), veh/h	2	1250	670	398	1420	204	100	100	614	289	0	167
Grp Sat Flow(s),veh/h/ln	1774	1695	1812	1774	1695	1549	1774	1863	1533	1774	0	1853
Q Serve(g_s), s	0.2	47.8	48.3	27.6	23.1	9.1	7.2	6.8	20.1	22.7	0.0	11.6
Cycle Q Clear(g_c), s	0.2	47.8	48.3	27.6	23.1	9.1	7.2	6.8	20.1	22.7	0.0	11.6
Prop In Lane	1.00		0.13	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	4	1283	686	350	2917	889	255	267	1064	293	0	306
V/C Ratio(X)	0.53	0.97	0.98	1.14	0.49	0.23	0.39	0.37	0.58	0.99	0.00	0.55
Avail Cap(c_a), veh/h	274	1283	686	350	2917	889	255	267	1064	293	0	306
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.60	0.60	0.60	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.6	16.4	16.4	56.2	17.7	14.7	54.4	54.3	38.0	58.3	0.0	53.6
Incr Delay (d2), s/veh	23.0	14.2	21.6	91.0	0.6	0.6	0.7	0.6	0.7	48.9	0.0	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	23.7	27.2	22.3	10.9	4.0	3.6	3.5	9.8	15.1	0.0	6.0
LnGrp Delay(d),s/veh	92.6	30.6	38.0	147.2	18.2	15.3	55.1	54.9	38.7	107.2	0.0	54.8
LnGrp LOS	F	C	D	F	B	B	E	D	D	F		D
Approach Vol, veh/h		1922			2022			814			456	
Approach Delay, s/veh		33.3			43.3			42.7			88.0	
Approach LOS		C			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	32.0	58.5		25.0	4.7	85.8		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	50.3		22.1	2.2	25.1		24.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.5		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	43.4
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	0	1478	0	0	0	0	0	1	432
Future Volume (veh/h)	0	0	0	0	1478	0	0	0	0	0	1	432
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	1739	0				0	1	482
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.85	0.85	0.85				0.76	0.76	0.76
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	2692	838				0	409	611
Arrive On Green				0.00	0.53	0.00				0.00	0.22	0.22
Sat Flow, veh/h				0	5253	1583				0	1863	2783
Grp Volume(v), veh/h				0	1739	0				0	1	482
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1391
Q Serve(g_s), s				0.0	10.6	0.0				0.0	0.0	7.1
Cycle Q Clear(g_c), s				0.0	10.6	0.0				0.0	0.0	7.1
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	2692	838				0	409	611
V/C Ratio(X)				0.00	0.65	0.00				0.00	0.00	0.79
Avail Cap(c_a), veh/h				0	5855	1823				0	1501	2243
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	7.3	0.0				0.0	13.2	16.0
Incr Delay (d2), s/veh				0.0	0.1	0.0				0.0	0.0	0.9
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	4.9	0.0				0.0	0.0	2.8
LnGrp Delay(d),s/veh				0.0	7.4	0.0				0.0	13.2	16.9
LnGrp LOS					A						B	B
Approach Vol, veh/h					1739						483	
Approach Delay, s/veh					7.4						16.9	
Approach LOS					A						B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				14.6		28.8		
Change Period (Y+Rc), s				5.1		5.8		
Max Green Setting (Gmax), s				35.0		50.0		
Max Q Clear Time (g_c+I1), s				9.1		12.6		
Green Ext Time (p_c), s				0.5		10.4		

Intersection Summary	
HCM 2010 Ctrl Delay	9.5
HCM 2010 LOS	A

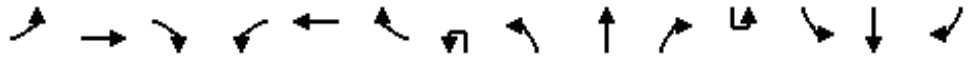
Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	2057	392	0	0	0	0	1	367	0	0	0
Future Volume (veh/h)	0	2057	392	0	0	0	0	1	367	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.98			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	2260	0				0	1	339			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.91	0.91	0.91				0.92	0.92	0.92			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	3179	990				0	316	462			
Arrive On Green	0.00	0.63	0.00				0.00	0.17	0.17			
Sat Flow, veh/h	0	5253	1583				0	1863	2725			
Grp Volume(v), veh/h	0	2260	0				0	1	339			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1363			
Q Serve(g_s), s	0.0	15.9	0.0				0.0	0.0	6.3			
Cycle Q Clear(g_c), s	0.0	15.9	0.0				0.0	0.0	6.3			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	3179	990				0	316	462			
V/C Ratio(X)	0.00	0.71	0.00				0.00	0.00	0.73			
Avail Cap(c_a), veh/h	0	4790	1491				0	1579	2310			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	6.7	0.0				0.0	18.3	20.9			
Incr Delay (d2), s/veh	0.0	0.1	0.0				0.0	0.0	0.9			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	7.4	0.0				0.0	0.0	2.4			
LnGrp Delay(d),s/veh	0.0	6.8	0.0				0.0	18.3	21.8			
LnGrp LOS		A						B	C			
Approach Vol, veh/h		2260						340				
Approach Delay, s/veh		6.8						21.7				
Approach LOS		A						C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		39.0						14.1
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						45.0
Max Q Clear Time (g_c+I1), s		17.9						8.3
Green Ext Time (p_c), s		15.3						0.8

Intersection Summary	
HCM 2010 Ctrl Delay	8.8
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	152	370	67	118	245	123	2	66	908	195	4	31	576	129
Future Volume (veh/h)	152	370	67	118	245	123	2	66	908	195	4	31	576	129
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.95		1.00		0.96		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	188	457	58	136	282	98		70	966	144		36	678	106
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.81	0.81	0.81	0.87	0.87	0.87		0.94	0.94	0.94		0.85	0.85	0.85
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	210	540	71	184	409	249		89	1471	440		308	1489	662
Arrive On Green	0.23	0.23	0.23	0.17	0.17	0.17		0.05	0.29	0.29		0.17	0.42	0.42
Sat Flow, veh/h	923	2375	313	1109	2468	1504		1774	5085	1520		1774	3539	1574
Grp Volume(v), veh/h	370	0	333	222	196	98		70	966	144		36	678	106
Grp Sat Flow(s),veh/h/ln	1817	0	1794	1807	1770	1504		1774	1695	1520		1774	1770	1574
Q Serve(g_s), s	27.7	0.0	24.6	16.3	14.6	8.1		5.5	23.3	10.4		2.4	19.2	5.9
Cycle Q Clear(g_c), s	27.7	0.0	24.6	16.3	14.6	8.1		5.5	23.3	10.4		2.4	19.2	5.9
Prop In Lane	0.51		0.17	0.61		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	413	0	408	299	293	249		89	1471	440		308	1489	662
V/C Ratio(X)	0.90	0.00	0.82	0.74	0.67	0.39		0.79	0.66	0.33		0.12	0.46	0.16
Avail Cap(c_a), veh/h	507	0	501	401	393	334		185	1471	440		308	1489	662
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.92	0.92	0.92		1.00	1.00	1.00		0.76	0.76	0.76
Uniform Delay (d), s/veh	52.5	0.0	51.3	55.5	54.8	52.1		65.8	43.6	39.1		48.8	29.1	25.2
Incr Delay (d2), s/veh	14.5	0.0	6.9	2.7	0.9	0.3		5.7	2.3	2.0		0.0	0.8	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	15.5	0.0	13.0	8.4	7.2	3.4		2.8	11.2	4.6		1.2	9.6	2.6
LnGrp Delay(d),s/veh	66.9	0.0	58.3	58.3	55.7	52.5		71.5	46.0	41.0		48.9	29.8	25.6
LnGrp LOS	E		E	E	E	D		E	D	D		D	C	C
Approach Vol, veh/h		703			516				1180				820	
Approach Delay, s/veh		62.8			56.2				46.9				30.1	
Approach LOS		E			E				D				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.2	46.0		36.7	11.4	63.8		28.1
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	9.6	* 41		39.1	14.6	36.1		31.1
Max Q Clear Time (g_c+I1), s	4.4	25.3		29.7	7.5	21.2		18.3
Green Ext Time (p_c), s	0.0	7.6		2.1	0.0	10.4		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	47.6
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1	0	2	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	1	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1622	-	1021	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1622	-	1021	1084
Mov Cap-2 Maneuver	-	-	-	-	1021	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	1622	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

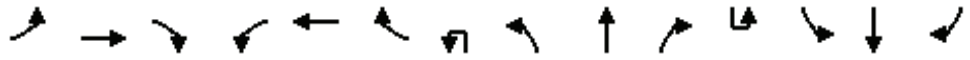
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	251	15	186	737	105	253	393	106	2
Future Volume (veh/h)	11	142	662	251	15	186	737	105	253	393	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	196		200	792	79	269	418	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1174	313		255	1428	142	326	709	133	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.09	0.24	0.24	
Sat Flow, veh/h		3442	2744	731		3442	3245	324	3442	2948	551	
Grp Volume(v), veh/h		158	475	457		200	432	439	269	249	248	
Grp Sat Flow(s),veh/h/ln		1721	1770	1705		1721	1770	1799	1721	1770	1730	
Q Serve(g_s), s		5.7	26.4	26.4		7.2	22.8	22.8	9.7	15.7	16.0	
Cycle Q Clear(g_c), s		5.7	26.4	26.4		7.2	22.8	22.8	9.7	15.7	16.0	
Prop In Lane		1.00		0.43		1.00		0.18	1.00		0.32	
Lane Grp Cap(c), veh/h		213	757	729		255	779	792	326	425	416	
V/C Ratio(X)		0.74	0.63	0.63		0.78	0.55	0.55	0.83	0.59	0.60	
Avail Cap(c_a), veh/h		399	757	729		399	779	792	481	479	468	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.2	28.2		57.3	26.1	26.1	56.0	42.3	42.4	
Incr Delay (d2), s/veh		1.9	3.9	4.0		2.1	2.8	2.8	4.6	0.7	0.8	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	13.7	13.3		3.5	11.8	12.0	4.8	7.8	7.7	
LnGrp Delay(d),s/veh		60.0	32.1	32.2		59.4	28.9	28.9	60.6	43.0	43.3	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1090				1071			766		
Approach Delay, s/veh			36.2				34.6			49.2		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.9	16.3	37.0	12.2	60.5	18.1	35.2
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	28.4	11.7	34.1	7.7	24.8	13.7	18.0
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.6

Intersection Summary	
HCM 2010 Ctrl Delay	59.9
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	878	101
Future Volume (veh/h)	160	878	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	924	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	843	67
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3307	265
Grp Volume(v), veh/h	168	494	504
Grp Sat Flow(s),veh/h/ln	1774	1770	1802
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.15
Lane Grp Cap(c), veh/h	194	451	459
V/C Ratio(X)	0.87	1.10	1.10
Avail Cap(c_a), veh/h	220	451	459
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	71.2	70.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	24.6	25.0
LnGrp Delay(d),s/veh	79.8	118.1	117.8
LnGrp LOS	E	F	F
Approach Vol, veh/h		1166	
Approach Delay, s/veh		112.5	
Approach LOS		F	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	19	7	81	14	1	3	7	70	757	3	1	8	1290	20
Future Volume (veh/h)	19	7	81	14	1	3	7	70	757	3	1	8	1290	20
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.94	0.98		0.97		1.00		0.99		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	28	10	82	22	2	3		74	797	2		9	1372	15
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.69	0.69	0.69	0.64	0.64	0.64		0.95	0.95	0.95		0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	65	30	129	162	16	16		93	2731	7		15	2546	28
Arrive On Green	0.12	0.12	0.12	0.12	0.12	0.12		0.11	1.00	1.00		0.01	0.71	0.71
Sat Flow, veh/h	244	238	1041	889	128	127		1774	3622	9		1774	3586	39
Grp Volume(v), veh/h	120	0	0	27	0	0		74	389	410		9	677	710
Grp Sat Flow(s),veh/h/ln	1523	0	0	1144	0	0		1774	1770	1861		1774	1770	1855
Q Serve(g_s), s	4.6	0.0	0.0	0.0	0.0	0.0		5.1	0.0	0.0		0.6	22.6	22.7
Cycle Q Clear(g_c), s	9.3	0.0	0.0	2.7	0.0	0.0		5.1	0.0	0.0		0.6	22.6	22.7
Prop In Lane	0.23		0.68	0.81		0.11		1.00		0.00		1.00		0.02
Lane Grp Cap(c), veh/h	224	0	0	194	0	0		93	1334	1403		15	1256	1317
V/C Ratio(X)	0.54	0.00	0.00	0.14	0.00	0.00		0.79	0.29	0.29		0.59	0.54	0.54
Avail Cap(c_a), veh/h	384	0	0	335	0	0		234	1334	1403		191	1256	1317
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.94	0.94	0.94		0.09	0.09	0.09
Uniform Delay (d), s/veh	52.4	0.0	0.0	49.4	0.0	0.0		55.7	0.0	0.0		62.2	8.6	8.6
Incr Delay (d2), s/veh	0.7	0.0	0.0	0.1	0.0	0.0		5.3	0.5	0.5		1.2	0.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	0.0	0.9	0.0	0.0		2.6	0.2	0.2		0.3	11.0	11.5
LnGrp Delay(d),s/veh	53.1	0.0	0.0	49.5	0.0	0.0		61.0	0.5	0.5		63.5	8.7	8.7
LnGrp LOS	D			D				E	A	A		E	A	A
Approach Vol, veh/h		120			27				873				1396	
Approach Delay, s/veh		53.1			49.5				5.6				9.1	
Approach LOS		D			D				A				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	5.5	100.0		20.5	11.0	94.5		20.5
Change Period (Y+Rc), s	4.4	5.0		4.9	4.4	* 5		4.9
Max Green Setting (Gmax), s	13.6	69.0		29.1	16.6	* 66		29.1
Max Q Clear Time (g_c+I1), s	2.6	2.0		11.3	7.1	24.7		4.7
Green Ext Time (p_c), s	0.0	14.1		0.4	0.0	8.3		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	10.5
HCM 2010 LOS	B

Notes



Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	44	59	780	51	1	73	1287
Future Volume (veh/h)	44	59	780	51	1	73	1287
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.94		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	49	46	830	38		75	1327
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.89	0.89	0.94	0.94		0.97	0.97
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	82	77	2454	112		95	2861
Arrive On Green	0.10	0.10	1.00	1.00		0.11	1.00
Sat Flow, veh/h	829	778	3539	158		1774	3632
Grp Volume(v), veh/h	96	0	426	442		75	1327
Grp Sat Flow(s),veh/h/ln	1625	0	1770	1834		1774	1770
Q Serve(g_s), s	7.1	0.0	0.0	0.0		5.2	0.0
Cycle Q Clear(g_c), s	7.1	0.0	0.0	0.0		5.2	0.0
Prop In Lane	0.51	0.48		0.09		1.00	
Lane Grp Cap(c), veh/h	161	0	1260	1306		95	2861
V/C Ratio(X)	0.60	0.00	0.34	0.34		0.79	0.46
Avail Cap(c_a), veh/h	311	0	1260	1306		248	2861
HCM Platoon Ratio	1.00	1.00	2.00	2.00		2.00	2.00
Upstream Filter(I)	1.00	0.00	0.96	0.96		0.83	0.83
Uniform Delay (d), s/veh	54.4	0.0	0.0	0.0		55.6	0.0
Incr Delay (d2), s/veh	1.3	0.0	0.7	0.7		4.6	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	3.3	0.0	0.2	0.2		2.7	0.2
LnGrp Delay(d),s/veh	55.7	0.0	0.7	0.7		60.2	0.4
LnGrp LOS	E		A	A		E	A
Approach Vol, veh/h	96		868				1402
Approach Delay, s/veh	55.7		0.7				3.6
Approach LOS	E		A				A

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	12.1	95.5				107.6		18.4
Change Period (Y+Rc), s	5.4	* 5.8				5.8		5.9
Max Green Setting (Gmax), s	17.6	* 67				90.2		24.1
Max Q Clear Time (g_c+I1), s	7.2	2.0				2.0		9.1
Green Ext Time (p_c), s	0.1	12.3				28.3		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	4.7
HCM 2010 LOS	A

Notes

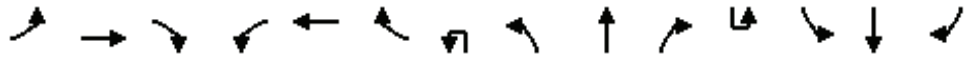


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	89	6	43	15	5	16	3	19	719	15	12	1184	129
Future Volume (veh/h)	89	6	43	15	5	16	3	19	719	15	12	1184	129
Number	7	4	14	3	8	18		1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	1.00		0.99		1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	100	7	33	23	8	17		20	765	11	13	1273	97
Adj No. of Lanes	0	1	0	0	1	0		1	2	0	1	2	0
Peak Hour Factor	0.89	0.89	0.89	0.64	0.64	0.64		0.94	0.94	0.94	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h	170	10	41	115	45	65		28	2694	39	21	2499	190
Arrive On Green	0.11	0.11	0.11	0.11	0.11	0.11		0.02	0.75	0.75	0.02	1.00	1.00
Sat Flow, veh/h	1059	91	355	640	391	565		1774	3572	51	1774	3333	253
Grp Volume(v), veh/h	140	0	0	48	0	0		20	379	397	13	675	695
Grp Sat Flow(s),veh/h/ln	1504	0	0	1596	0	0		1774	1770	1854	1774	1770	1817
Q Serve(g_s), s	8.0	0.0	0.0	0.0	0.0	0.0		1.4	8.4	8.4	0.9	0.0	0.0
Cycle Q Clear(g_c), s	11.3	0.0	0.0	3.3	0.0	0.0		1.4	8.4	8.4	0.9	0.0	0.0
Prop In Lane	0.71		0.24	0.48		0.35		1.00		0.03	1.00		0.14
Lane Grp Cap(c), veh/h	221	0	0	225	0	0		28	1335	1398	21	1327	1363
V/C Ratio(X)	0.63	0.00	0.00	0.21	0.00	0.00		0.71	0.28	0.28	0.63	0.51	0.51
Avail Cap(c_a), veh/h	421	0	0	434	0	0		234	1335	1398	234	1327	1363
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.92	0.92	0.92	0.88	0.88	0.88
Uniform Delay (d), s/veh	54.1	0.0	0.0	50.8	0.0	0.0		61.7	4.8	4.8	61.3	0.0	0.0
Incr Delay (d2), s/veh	1.1	0.0	0.0	0.2	0.0	0.0		10.4	0.5	0.5	10.0	1.2	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	0.0	0.0	1.5	0.0	0.0		0.8	4.3	4.5	0.5	0.5	0.5
LnGrp Delay(d),s/veh	55.3	0.0	0.0	51.0	0.0	0.0		72.1	5.3	5.3	71.2	1.2	1.2
LnGrp LOS	E			D				E	A	A	E	A	A
Approach Vol, veh/h		140			48				796			1383	
Approach Delay, s/veh		55.3			51.0				7.0			1.9	
Approach LOS		E			D				A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	6.4	100.3		19.3	5.9	100.8		19.3
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	16.6	* 63		32.1	16.6	62.2		32.1
Max Q Clear Time (g_c+I1), s	13.4	2.0		13.3	2.9	10.4		5.3
Green Ext Time (p_c), s	0.0	21.1		0.4	0.0	7.8		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	7.8
HCM 2010 LOS	A

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	31	29	34	235	26	88	9	44	691	264	15	130	990	46
Future Volume (veh/h)	31	29	34	235	26	88	9	44	691	264	15	130	990	46
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.96		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	38	36	30	250	28	66		49	768	205		140	1065	34
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.81	0.81	0.81	0.94	0.94	0.94		0.90	0.90	0.90		0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	35	31	13	279	26	532		191	1815	479		164	2184	70
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35		0.04	0.15	0.15		0.09	0.43	0.43
Sat Flow, veh/h	0	88	36	655	73	1517		1774	3985	1052		1774	5061	161
Grp Volume(v), veh/h	104	0	0	278	0	66		49	652	321		140	713	386
Grp Sat Flow(s),veh/h/ln	124	0	0	729	0	1517		1774	1695	1646		1774	1695	1833
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	4.1		3.8	24.4	24.8		10.9	21.2	21.2
Cycle Q Clear(g_c), s	49.1	0.0	0.0	49.1	0.0	4.1		3.8	24.4	24.8		10.9	21.2	21.2
Prop In Lane	0.37		0.29	0.90		1.00		1.00		0.64		1.00		0.09
Lane Grp Cap(c), veh/h	79	0	0	304	0	532		191	1544	750		164	1463	791
V/C Ratio(X)	1.32	0.00	0.00	0.91	0.00	0.12		0.26	0.42	0.43		0.85	0.49	0.49
Avail Cap(c_a), veh/h	79	0	0	304	0	532		198	1544	750		274	1463	791
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.33	0.33	0.33		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.95	0.95	0.95		0.80	0.80	0.80
Uniform Delay (d), s/veh	43.8	0.0	0.0	47.4	0.0	30.9		62.0	42.8	42.9		62.6	28.7	28.7
Incr Delay (d2), s/veh	209.4	0.0	0.0	29.8	0.0	0.0		0.2	0.8	1.7		4.9	0.9	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.6	0.0	0.0	13.2	0.0	1.7		1.9	11.7	11.7		5.6	10.1	11.1
LnGrp Delay(d),s/veh	253.2	0.0	0.0	77.2	0.0	30.9		62.3	43.6	44.6		67.5	29.6	30.4
LnGrp LOS	F			E		C		E	D	D		E	C	C
Approach Vol, veh/h		104			344				1022				1239	
Approach Delay, s/veh		253.2			68.3				44.8				34.1	
Approach LOS		F			E				D				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.3	68.7		54.0	20.0	66.0		54.0
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	12.6	35.1		49.1	15.6	* 60		49.1
Max Q Clear Time (g_c+I1), s	12.9	26.8		51.1	5.8	23.2		51.1
Green Ext Time (p_c), s	0.1	7.1		0.0	0.0	20.2		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	50.9
HCM 2010 LOS	D

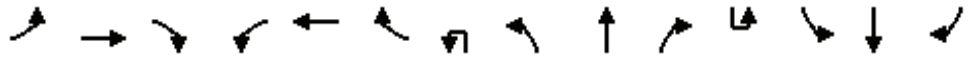
Notes

Intersection	
Intersection Delay, s/veh	10.6
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	56	41	185	67	12	83	38	61	6	83	2
Future Vol, veh/h	0	56	41	185	67	12	83	38	61	6	83	2
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	85	62	213	77	14	91	42	67	7	102	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.3	11.8	10.3	9.5
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	46%	0%	70%	7%
Vol Thru, %	21%	58%	25%	91%
Vol Right, %	34%	42%	5%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	182	97	264	91
LT Vol	83	0	185	6
Through Vol	38	56	67	83
RT Vol	61	41	12	2
Lane Flow Rate	200	147	303	112
Geometry Grp	1	1	1	1
Degree of Util (X)	0.288	0.203	0.423	0.169
Departure Headway (Hd)	5.192	4.979	5.129	5.431
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	696	723	707	663
Service Time	3.192	2.996	3.129	3.444
HCM Lane V/C Ratio	0.287	0.203	0.429	0.169
HCM Control Delay	10.3	9.3	11.8	9.5
HCM Lane LOS	B	A	B	A
HCM 95th-tile Q	1.2	0.8	2.1	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	52	43	126	104	38	129	17	104	778	128	8	176	940	126
Future Volume (veh/h)	52	43	126	104	38	129	17	104	778	128	8	176	940	126
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.96	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	55	46	94	113	41	98		114	855	99		185	989	93
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	202	105	215	201	95	226		539	2698	311		207	1393	604
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20		0.30	0.58	0.58		0.23	0.79	0.79
Sat Flow, veh/h	1232	533	1089	1226	478	1144		1774	4619	532		1774	3539	1534
Grp Volume(v), veh/h	55	0	140	113	0	139		114	626	328		185	989	93
Grp Sat Flow(s),veh/h/ln	1232	0	1621	1226	0	1622		1774	1695	1761		1774	1770	1534
Q Serve(g_s), s	5.7	0.0	10.6	12.5	0.0	10.5		6.7	13.2	13.3		14.1	18.9	2.1
Cycle Q Clear(g_c), s	16.3	0.0	10.6	23.1	0.0	10.5		6.7	13.2	13.3		14.1	18.9	2.1
Prop In Lane	1.00		0.67	1.00		0.71		1.00		0.30		1.00		1.00
Lane Grp Cap(c), veh/h	202	0	320	201	0	321		539	1980	1029		207	1393	604
V/C Ratio(X)	0.27	0.00	0.44	0.56	0.00	0.43		0.21	0.32	0.32		0.89	0.71	0.15
Avail Cap(c_a), veh/h	400	0	580	397	0	581		539	1980	1029		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.92	0.92	0.92
Uniform Delay (d), s/veh	56.4	0.0	49.3	59.5	0.0	49.3		36.3	14.9	14.9		52.8	11.0	9.3
Incr Delay (d2), s/veh	0.5	0.0	0.7	1.8	0.0	0.7		0.1	0.4	0.8		4.8	2.8	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	4.8	4.3	0.0	4.8		3.3	6.3	6.7		7.2	9.3	0.9
LnGrp Delay(d),s/veh	57.0	0.0	50.0	61.3	0.0	50.0		36.3	15.3	15.7		57.6	13.9	9.8
LnGrp LOS	E		D	E		D		D	B	B		E	B	A
Approach Vol, veh/h		195			252				1068				1267	
Approach Delay, s/veh		52.0			55.0				17.6				20.0	
Approach LOS		D			E				B				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	86.7		32.6	47.4	60.0		32.6
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	36.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	16.1	15.3		18.3	8.7	20.9		25.1
Green Ext Time (p_c), s	0.2	7.8		0.9	0.1	10.6		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	24.5
HCM 2010 LOS	C

Notes

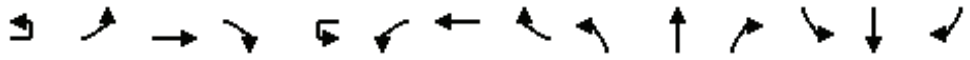


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	347	965	61	446	847	107	21	82	307	350	257	649	279
Future Volume (veh/h)	15	347	965	61	446	847	107	21	82	307	350	257	649	279
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		361	1005	45	474	901	80		87	327	260	299	755	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		559	1161	52	528	1029	91		108	678	530	321	833	249
Arrive On Green		0.16	0.34	0.34	0.15	0.31	0.31		0.06	0.19	0.19	0.18	0.31	0.31
Sat Flow, veh/h		3442	3444	154	3442	3277	291		1774	3539	1499	1774	2671	800
Grp Volume(v), veh/h		361	516	534	474	487	494		87	327	260	299	500	481
Grp Sat Flow(s),veh/h/ln		1721	1770	1829	1721	1770	1798		1774	1770	1499	1774	1770	1701
Q Serve(g_s), s		14.2	39.5	39.5	19.6	37.7	37.7		7.0	11.9	19.9	24.0	39.2	39.2
Cycle Q Clear(g_c), s		14.2	39.5	39.5	19.6	37.7	37.7		7.0	11.9	19.9	24.0	39.2	39.2
Prop In Lane		1.00		0.08	1.00		0.16		1.00		1.00	1.00		0.47
Lane Grp Cap(c), veh/h		559	596	616	528	556	565		108	678	530	321	552	530
V/C Ratio(X)		0.65	0.87	0.87	0.90	0.88	0.88		0.80	0.48	0.49	0.93	0.91	0.91
Avail Cap(c_a), veh/h		713	734	758	713	734	745		368	978	657	368	552	530
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		56.7	44.9	44.9	60.1	47.0	47.0		67.1	52.1	37.5	58.4	47.8	47.8
Incr Delay (d2), s/veh		0.5	9.5	9.2	9.5	9.2	9.1		5.2	0.4	0.5	26.6	18.5	19.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.8	20.9	21.6	10.0	19.8	20.1		3.6	5.8	8.3	14.2	22.0	21.2
LnGrp Delay(d),s/veh		57.2	54.4	54.1	69.6	56.2	56.1		72.3	52.5	38.0	85.0	66.3	66.9
LnGrp LOS		E	D	D	E	E	E		E	D	D	F	E	E
Approach Vol, veh/h			1411			1455				674			1280	
Approach Delay, s/veh			55.0			60.5				49.4			70.9	
Approach LOS			E			E				D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	26.6	54.5	13.2	50.4	29.2	51.9	30.6	33.0
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	21.6	41.5	9.0	41.2	16.2	39.7	26.0	21.9
Green Ext Time (p_c), s	0.6	7.2	0.1	0.0	0.6	5.8	0.2	2.2

Intersection Summary	
HCM 2010 Ctrl Delay	60.1
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	32	1243	140	47	76	1277	98	88	48	38	52	129	121
Future Volume (veh/h)	6	32	1243	140	47	76	1277	98	88	48	38	52	129	121
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		34	1308	103		81	1359	73	99	54	31	57	142	93
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		226	1672	131		102	1435	77	115	63	36	61	152	100
Arrive On Green		0.13	0.50	0.50		0.02	0.14	0.14	0.12	0.12	0.12	0.18	0.18	0.18
Sat Flow, veh/h		1774	3325	261		1774	3417	183	946	516	296	341	849	556
Grp Volume(v), veh/h		34	695	716		81	703	729	184	0	0	292	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1816		1774	1770	1830	1757	0	0	1746	0	0
Q Serve(g_s), s		2.4	45.0	45.3		6.4	55.1	55.3	14.4	0.0	0.0	23.1	0.0	0.0
Cycle Q Clear(g_c), s		2.4	45.0	45.3		6.4	55.1	55.3	14.4	0.0	0.0	23.1	0.0	0.0
Prop In Lane		1.00		0.14		1.00		0.10	0.54		0.17	0.20		0.32
Lane Grp Cap(c), veh/h		226	890	913		102	743	769	213	0	0	313	0	0
V/C Ratio(X)		0.15	0.78	0.78		0.80	0.95	0.95	0.86	0.00	0.00	0.93	0.00	0.00
Avail Cap(c_a), veh/h		226	890	913		172	743	769	315	0	0	313	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.55	0.55	0.55	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		54.3	28.5	28.6		67.9	58.7	58.8	60.4	0.0	0.0	56.6	0.0	0.0
Incr Delay (d2), s/veh		0.1	6.7	6.7		2.9	14.4	14.6	10.7	0.0	0.0	33.4	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.2	23.5	24.4		3.2	30.0	31.2	7.6	0.0	0.0	14.0	0.0	0.0
LnGrp Delay(d),s/veh		54.4	35.2	35.3		70.8	73.1	73.4	71.1	0.0	0.0	90.1	0.0	0.0
LnGrp LOS		D	D	D		E	E	E	E			F		
Approach Vol, veh/h			1445				1513			184			292	
Approach Delay, s/veh			35.7				73.1			71.1			90.1	
Approach LOS			D				E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.4	75.7		30.0	23.2	65.0		21.9
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	19.4	47.3		25.1	4.4	57.3		16.4
Green Ext Time (p_c), s	0.0	7.3		0.0	0.0	1.1		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	58.7
HCM 2010 LOS	E

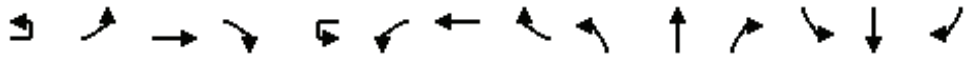
Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	270	858	223	8	240	938	259	13	265	505	98	31	346	639	177
Future Volume (veh/h)	3	270	858	223	8	240	938	259	13	265	505	98	31	346	639	177
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.96		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		293	933	169		267	1042	201		294	561	77		389	718	139
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		319	1055	191		582	1490	287		343	920	124		444	826	344
Arrive On Green		0.06	0.12	0.12		0.06	0.12	0.12		0.20	0.41	0.41		0.13	0.23	0.23
Sat Flow, veh/h		1774	2973	538		3442	4246	818		3442	4510	608		3442	3539	1473
Grp Volume(v), veh/h		293	555	547		267	832	411		294	419	219		389	718	139
Grp Sat Flow(s),veh/h/ln		1774	1770	1741		1721	1695	1674		1721	1695	1728		1721	1770	1473
Q Serve(g_s), s		23.0	43.3	43.3		10.5	33.0	33.1		11.6	13.6	14.0		15.5	27.3	11.2
Cycle Q Clear(g_c), s		23.0	43.3	43.3		10.5	33.0	33.1		11.6	13.6	14.0		15.5	27.3	11.2
Prop In Lane		1.00		0.31		1.00		0.49		1.00		0.35		1.00		1.00
Lane Grp Cap(c), veh/h		319	628	618		582	1190	587		343	692	353		444	826	344
V/C Ratio(X)		0.92	0.88	0.88		0.46	0.70	0.70		0.86	0.61	0.62		0.88	0.87	0.40
Avail Cap(c_a), veh/h		362	628	618		582	1190	587		556	753	384		629	862	359
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.25	0.25	0.25		0.87	0.87	0.87		0.95	0.95	0.95		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.8	59.0	59.0		59.9	54.8	54.8		55.1	37.0	37.1		59.9	51.6	45.4
Incr Delay (d2), s/veh		8.4	5.0	5.1		0.2	3.0	6.0		3.8	1.7	3.7		7.5	9.8	1.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		12.1	22.1	21.8		5.0	16.0	16.3		5.7	6.4	7.0		7.9	14.5	4.7
LnGrp Delay(d),s/veh		73.3	63.9	64.1		60.1	57.8	60.8		58.9	38.7	40.8		67.4	61.4	46.7
LnGrp LOS		E	E	E		E	E	E		E	D	D		E	E	D
Approach Vol, veh/h			1395				1510				932				1246	
Approach Delay, s/veh			65.9				59.0				45.6				61.6	
Approach LOS			E				E				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.1	55.0	18.3	37.6	29.6	54.5	22.5	33.5
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	4.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	2.5	45.3	13.6	29.3	25.0	35.1	17.5	16.0
Green Ext Time (p_c), s	0.1	2.7	0.4	2.9	0.2	0.3	0.5	5.4

Intersection Summary	
HCM 2010 Ctrl Delay	59.1
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	7	126	982	85	30	143	1238	140	116	43	119	229	68	206
Future Volume (veh/h)	7	126	982	85	30	143	1238	140	116	43	119	229	68	206
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.99	0.98		0.94	0.97		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		137	1067	64		146	1263	100	129	48	92	260	77	164
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.92	0.92	0.92		0.98	0.98	0.98	0.90	0.90	0.90	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		184	2569	154		193	2527	200	375	374	300	414	396	325
Arrive On Green		0.11	1.00	1.00		0.11	1.00	1.00	0.07	0.20	0.20	0.08	0.21	0.21
Sat Flow, veh/h		3442	4902	294		3442	4799	380	1774	1863	1494	1774	1863	1530
Grp Volume(v), veh/h		137	738	393		146	892	471	129	48	92	260	77	164
Grp Sat Flow(s),veh/h/ln		1721	1695	1805		1721	1695	1789	1774	1863	1494	1774	1863	1530
Q Serve(g_s), s		5.4	0.0	0.0		5.8	0.0	0.0	8.0	3.0	7.3	11.6	4.8	13.2
Cycle Q Clear(g_c), s		5.4	0.0	0.0		5.8	0.0	0.0	8.0	3.0	7.3	11.6	4.8	13.2
Prop In Lane		1.00		0.16		1.00		0.21	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		184	1776	946		193	1785	942	375	374	300	414	396	325
V/C Ratio(X)		0.75	0.42	0.42		0.76	0.50	0.50	0.34	0.13	0.31	0.63	0.19	0.50
Avail Cap(c_a), veh/h		334	1776	946		334	1785	942	396	573	460	414	573	471
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.43	0.43	0.43		0.68	0.68	0.68	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		61.6	0.0	0.0		61.2	0.0	0.0	40.1	45.9	47.7	43.4	45.3	48.6
Incr Delay (d2), s/veh		1.0	0.3	0.6		1.6	0.7	1.3	0.2	0.1	0.2	2.3	0.1	0.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.6	0.1	0.2		2.8	0.2	0.3	3.9	1.5	3.1	8.2	2.5	5.7
LnGrp Delay(d),s/veh		62.6	0.3	0.6		62.8	0.7	1.3	40.3	46.0	47.9	45.7	45.4	49.1
LnGrp LOS		E	A	A		E	A	A	D	D	D	D	D	D
Approach Vol, veh/h			1268				1509			269			501	
Approach Delay, s/veh			7.1				6.9			43.9			46.8	
Approach LOS			A				A			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.2	78.8	14.4	34.6	11.9	79.1	16.0	33.0
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	13.6	* 53	11.6	43.1	13.6	52.6	11.6	43.1
Max Q Clear Time (g_c+I1), s	7.8	2.0	10.0	15.2	7.4	2.0	13.6	9.3
Green Ext Time (p_c), s	0.1	19.5	0.0	0.6	0.1	16.6	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	15.4
HCM 2010 LOS	B

Notes

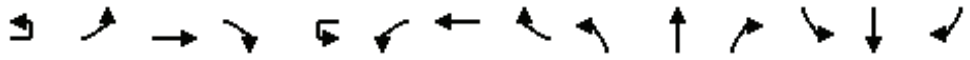


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	38	118	1138	92	301	1492	155	79	109	205	237	410	181
Future Volume (veh/h)	38	118	1138	92	301	1492	155	79	109	205	237	410	181
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.95	1.00		0.92	1.00		0.95
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		126	1211	68	327	1622	117	89	122	195	269	466	145
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.94	0.94	0.94	0.92	0.92	0.92	0.89	0.89	0.89	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		149	1847	104	352	2363	170	134	368	603	317	887	376
Arrive On Green		0.08	0.38	0.38	0.20	0.49	0.49	0.04	0.20	0.20	0.09	0.25	0.25
Sat Flow, veh/h		1774	4915	276	1774	4824	348	3442	1863	1464	3442	3539	1500
Grp Volume(v), veh/h		126	835	444	327	1139	600	89	122	195	269	466	145
Grp Sat Flow(s),veh/h/ln		1774	1695	1801	1774	1695	1782	1721	1863	1464	1721	1770	1500
Q Serve(g_s), s		9.8	28.6	28.6	25.4	36.1	36.2	3.6	7.9	13.0	10.8	15.9	11.2
Cycle Q Clear(g_c), s		9.8	28.6	28.6	25.4	36.1	36.2	3.6	7.9	13.0	10.8	15.9	11.2
Prop In Lane		1.00		0.15	1.00		0.20	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		149	1274	677	352	1661	873	134	368	603	317	887	376
V/C Ratio(X)		0.84	0.66	0.66	0.93	0.69	0.69	0.66	0.33	0.32	0.85	0.53	0.39
Avail Cap(c_a), veh/h		236	1274	677	527	1661	873	310	494	702	359	988	419
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.87	0.87	0.87	0.70	0.70	0.70	0.59	0.59	0.59	1.00	1.00	1.00
Uniform Delay (d), s/veh		63.2	36.2	36.2	55.2	27.4	27.5	66.4	48.2	29.5	62.6	45.3	43.5
Incr Delay (d2), s/veh		7.4	2.3	4.3	10.7	1.6	3.1	1.2	0.1	0.1	14.3	0.2	0.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.1	13.7	15.0	13.5	17.3	18.6	1.7	4.1	5.2	5.7	7.8	4.7
LnGrp Delay(d),s/veh		70.6	38.5	40.5	65.9	29.1	30.6	67.6	48.4	29.6	76.9	45.5	43.8
LnGrp LOS		E	D	D	E	C	C	E	D	C	E	D	D
Approach Vol, veh/h			1405			2066			406			880	
Approach Delay, s/veh			42.0			35.3			43.5			54.8	
Approach LOS			D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	32.2	58.0	9.9	40.0	16.2	74.0	17.3	32.5
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	41.6	* 28	12.6	39.1	18.6	50.6	14.6	37.1
Max Q Clear Time (g_c+I1), s	27.4	30.6	5.6	17.9	11.8	38.2	12.8	15.0
Green Ext Time (p_c), s	0.4	0.0	0.1	2.3	0.1	11.3	0.1	0.8

Intersection Summary	
HCM 2010 Ctrl Delay	41.6
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	55	1491	54	8	112	1921	30	14	16	77	39	46	49
Future Volume (veh/h)	13	55	1491	54	8	112	1921	30	14	16	77	39	46	49
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.95	1.00		0.95
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		60	1621	42		117	2001	22	15	17	59	46	55	40
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.92	0.92	0.92		0.96	0.96	0.96	0.92	0.92	0.92	0.84	0.84	0.84
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		440	2962	77		139	2096	23	28	31	109	54	64	47
Arrive On Green		0.33	0.77	0.77		0.16	0.81	0.81	0.11	0.11	0.11	0.10	0.10	0.10
Sat Flow, veh/h		1774	5097	132		1774	5185	57	263	298	1035	560	670	487
Grp Volume(v), veh/h		60	1078	585		117	1308	715	91	0	0	141	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1839		1774	1695	1851	1596	0	0	1717	0	0
Q Serve(g_s), s		3.3	17.5	17.5		9.0	45.3	45.5	7.6	0.0	0.0	11.3	0.0	0.0
Cycle Q Clear(g_c), s		3.3	17.5	17.5		9.0	45.3	45.5	7.6	0.0	0.0	11.3	0.0	0.0
Prop In Lane		1.00		0.07		1.00		0.03	0.16		0.65	0.33		0.28
Lane Grp Cap(c), veh/h		440	1970	1069		139	1371	749	169	0	0	165	0	0
V/C Ratio(X)		0.14	0.55	0.55		0.84	0.95	0.96	0.54	0.00	0.00	0.86	0.00	0.00
Avail Cap(c_a), veh/h		440	1970	1069		248	1371	749	400	0	0	210	0	0
HCM Platoon Ratio		1.33	1.33	1.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.73	0.73	0.73		0.76	0.76	0.76	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		36.4	8.6	8.6		58.2	12.3	12.3	59.4	0.0	0.0	62.3	0.0	0.0
Incr Delay (d2), s/veh		0.0	0.8	1.5		4.0	12.8	19.7	1.0	0.0	0.0	19.9	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	8.2	9.1		4.5	22.4	25.9	3.4	0.0	0.0	6.3	0.0	0.0
LnGrp Delay(d),s/veh		36.4	9.5	10.1		62.3	25.1	32.0	60.4	0.0	0.0	82.2	0.0	0.0
LnGrp LOS		D	A	B		E	C	C	E			F		
Approach Vol, veh/h			1723				2140			91			141	
Approach Delay, s/veh			10.6				29.5			60.4			82.2	
Approach LOS			B				C			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.3	86.7		19.7	40.0	62.0		18.3
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 5.4		4.9
Max Green Setting (Gmax), s	10.6	48.7		35.1	11.6	* 57		17.1
Max Q Clear Time (g_c+I1), s	11.3	19.5		9.6	5.3	47.5		13.3
Green Ext Time (p_c), s	0.1	21.8		0.3	0.0	8.1		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	24.0
HCM 2010 LOS	C

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1439	145	400	1947	294	109	49	284	193	150	18
Future Volume (veh/h)	20	1439	145	400	1947	294	109	49	284	193	150	18
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1484	104	412	2007	212	90	104	275	214	167	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	2013	141	400	3276	1018	163	171	993	191	182	15
Arrive On Green	0.03	0.87	0.87	0.23	0.64	0.64	0.09	0.09	0.09	0.11	0.11	0.11
Sat Flow, veh/h	1774	4633	325	1774	5085	1581	1774	1863	3030	1774	1688	142
Grp Volume(v), veh/h	21	1014	574	412	2007	212	90	104	275	214	0	181
Grp Sat Flow(s),veh/h/ln	1774	1583	1791	1774	1695	1581	1774	1863	1515	1774	0	1830
Q Serve(g_s), s	1.6	16.3	16.4	31.6	32.5	7.7	6.8	7.5	9.5	15.1	0.0	13.7
Cycle Q Clear(g_c), s	1.6	16.3	16.4	31.6	32.5	7.7	6.8	7.5	9.5	15.1	0.0	13.7
Prop In Lane	1.00		0.18	1.00		1.00	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	28	1376	778	400	3276	1018	163	171	993	191	0	197
V/C Ratio(X)	0.74	0.74	0.74	1.03	0.61	0.21	0.55	0.61	0.28	1.12	0.00	0.92
Avail Cap(c_a), veh/h	134	1376	778	400	3276	1018	318	334	1258	191	0	197
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.78	0.78	0.78	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	6.3	6.3	54.2	14.6	10.2	60.8	61.1	35.8	62.5	0.0	61.8
Incr Delay (d2), s/veh	10.5	2.8	4.9	52.6	0.9	0.5	2.2	2.6	0.1	100.4	0.0	40.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	7.0	8.4	21.3	15.3	3.5	3.4	4.0	4.0	12.7	0.0	9.2
LnGrp Delay(d),s/veh	78.0	9.1	11.1	106.8	15.5	10.7	63.0	63.7	36.0	162.9	0.0	102.7
LnGrp LOS	E	A	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1609			2631			469			395	
Approach Delay, s/veh		10.7			29.4			47.3			135.3	
Approach LOS		B			C			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	66.2		20.0	6.6	95.6		17.8
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	3.6	18.4		17.1	3.6	34.5		11.5
Green Ext Time (p_c), s	0.0	21.6		0.0	0.0	27.0		1.3

Intersection Summary	
HCM 2010 Ctrl Delay	33.3
HCM 2010 LOS	C

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	0	2299	0	0	0	0	0	1	353
Future Volume (veh/h)	0	0	0	0	2299	0	0	0	0	0	1	353
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		0.98
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	2395	0				0	1	330
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.96	0.96	0.96				0.91	0.91	0.91
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	3393	1056				0	296	434
Arrive On Green				0.00	0.67	0.00				0.00	0.16	0.16
Sat Flow, veh/h				0	5253	1583				0	1863	2729
Grp Volume(v), veh/h				0	2395	0				0	1	330
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1364
Q Serve(g_s), s				0.0	15.4	0.0				0.0	0.0	6.0
Cycle Q Clear(g_c), s				0.0	15.4	0.0				0.0	0.0	6.0
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	3393	1056				0	296	434
V/C Ratio(X)				0.00	0.71	0.00				0.00	0.00	0.76
Avail Cap(c_a), veh/h				0	5033	1567				0	1279	1874
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	5.4	0.0				0.0	18.3	20.8
Incr Delay (d2), s/veh				0.0	0.1	0.0				0.0	0.0	1.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	6.9	0.0				0.0	0.0	2.3
LnGrp Delay(d),s/veh				0.0	5.5	0.0				0.0	18.3	21.9
LnGrp LOS					A						B	C
Approach Vol, veh/h					2395						331	
Approach Delay, s/veh					5.5						21.9	
Approach LOS					A						C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				12.8		39.1		
Change Period (Y+Rc), s				4.5		4.5		
Max Green Setting (Gmax), s				35.6		51.3		
Max Q Clear Time (g_c+I1), s				8.0		17.4		
Green Ext Time (p_c), s				0.3		17.2		

Intersection Summary	
HCM 2010 Ctrl Delay	7.5
HCM 2010 LOS	A

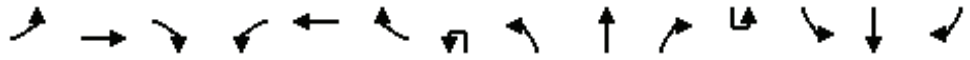
Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1490	338	0	0	0	0	1	485	0	0	0
Future Volume (veh/h)	0	1490	338	0	0	0	0	1	485	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	1568	0				0	1	453			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.95	0.95	0.95				0.91	0.91	0.91			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	2521	785				0	432	624			
Arrive On Green	0.00	0.50	0.00				0.00	0.23	0.23			
Sat Flow, veh/h	0	5253	1583				0	1863	2694			
Grp Volume(v), veh/h	0	1568	0				0	1	453			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1347			
Q Serve(g_s), s	0.0	9.0	0.0				0.0	0.0	6.2			
Cycle Q Clear(g_c), s	0.0	9.0	0.0				0.0	0.0	6.2			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	2521	785				0	432	624			
V/C Ratio(X)	0.00	0.62	0.00				0.00	0.00	0.73			
Avail Cap(c_a), veh/h	0	6356	1979				0	2095	3031			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	7.4	0.0				0.0	11.8	14.2			
Incr Delay (d2), s/veh	0.0	0.1	0.0				0.0	0.0	0.6			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	4.1	0.0				0.0	0.0	2.3			
LnGrp Delay(d),s/veh	0.0	7.4	0.0				0.0	11.8	14.8			
LnGrp LOS		A						B	B			
Approach Vol, veh/h		1568						454				
Approach Delay, s/veh		7.4						14.8				
Approach LOS		A						B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		25.6						14.4
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						45.0
Max Q Clear Time (g_c+I1), s		11.0						8.2
Green Ext Time (p_c), s		8.8						1.1

Intersection Summary	
HCM 2010 Ctrl Delay	9.1
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	171	250	117	342	319	107	4	68	559	150	8	96	903	207
Future Volume (veh/h)	171	250	117	342	319	107	4	68	559	150	8	96	903	207
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.95		1.00		0.94		1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	190	278	91	402	375	88		71	582	109		99	931	149
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.90	0.90	0.90	0.85	0.85	0.85		0.96	0.96	0.96		0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	228	351	119	430	428	365		90	1398	409		249	1320	581
Arrive On Green	0.20	0.20	0.20	0.24	0.24	0.24		0.05	0.28	0.28		0.14	0.37	0.37
Sat Flow, veh/h	1150	1775	600	1774	1770	1509		1774	5085	1487		1774	3539	1559
Grp Volume(v), veh/h	298	0	261	402	375	88		71	582	109		99	931	149
Grp Sat Flow(s),veh/h/ln	1805	0	1720	1774	1770	1509		1774	1695	1487		1774	1770	1559
Q Serve(g_s), s	22.2	0.0	20.1	31.1	28.5	6.6		5.5	13.1	8.0		7.1	31.3	9.3
Cycle Q Clear(g_c), s	22.2	0.0	20.1	31.1	28.5	6.6		5.5	13.1	8.0		7.1	31.3	9.3
Prop In Lane	0.64		0.35	1.00		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	357	0	340	430	428	365		90	1398	409		249	1320	581
V/C Ratio(X)	0.83	0.00	0.77	0.94	0.88	0.24		0.79	0.42	0.27		0.40	0.71	0.26
Avail Cap(c_a), veh/h	401	0	382	445	444	378		134	1398	409		249	1320	581
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.54	0.54	0.54		1.00	1.00	1.00		0.43	0.43	0.43
Uniform Delay (d), s/veh	53.9	0.0	53.1	52.0	51.0	42.7		65.7	41.5	39.7		54.8	37.4	30.4
Incr Delay (d2), s/veh	11.6	0.0	6.8	17.1	9.7	0.1		9.2	0.9	1.6		0.2	1.4	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.3	0.0	10.2	17.2	15.1	2.7		3.0	6.3	3.5		3.5	15.5	4.0
LnGrp Delay(d),s/veh	65.6	0.0	59.8	69.0	60.7	42.8		74.9	42.5	41.3		54.9	38.7	30.9
LnGrp LOS	E		E	E	E	D		E	D	D		D	D	C
Approach Vol, veh/h		559			865				762				1179	
Approach Delay, s/veh		62.9			62.8				45.3				39.1	
Approach LOS		E			E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	24.6	44.0		32.6	11.5	57.1		38.8
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	15.6	* 39		31.1	10.6	44.1		35.1
Max Q Clear Time (g_c+I1), s	19.1	15.1		24.2	7.5	33.3		33.1
Green Ext Time (p_c), s	0.1	5.6		1.4	0.0	9.3		0.8

Intersection Summary	
HCM 2010 Ctrl Delay	50.5
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1	0	2	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	1	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1622	-	1021	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1622	-	1021	1084
Mov Cap-2 Maneuver	-	-	-	-	1021	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	1622	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

Appendix E
Peak Hour Intersection LOS Worksheets – Existing Plus Project Conditions

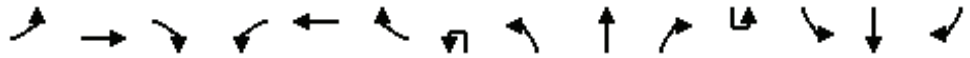
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	131	9	106	520	320	166	1023	67	6
Future Volume (veh/h)	6	208	437	131	9	106	520	320	166	1023	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	97		114	559	241	171	1055	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	966	202		276	801	344	233	1103	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.34	0.34	0.09	0.43	0.43	
Sat Flow, veh/h		3442	2897	606		3442	2380	1023	3442	3443	157	
Grp Volume(v), veh/h		219	280	277		114	415	385	171	542	561	
Grp Sat Flow(s),veh/h/ln		1721	1770	1734		1721	1770	1634	1721	1770	1830	
Q Serve(g_s), s		6.7	13.5	13.7		3.4	22.0	22.1	5.2	32.0	32.1	
Cycle Q Clear(g_c), s		6.7	13.5	13.7		3.4	22.0	22.1	5.2	32.0	32.1	
Prop In Lane		1.00		0.35		1.00		0.63	1.00		0.09	
Lane Grp Cap(c), veh/h		283	590	578		276	596	550	233	567	586	
V/C Ratio(X)		0.77	0.47	0.48		0.41	0.70	0.70	0.73	0.96	0.96	
Avail Cap(c_a), veh/h		433	590	578		276	596	550	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.86	0.86	0.86	
Uniform Delay (d), s/veh		48.6	28.5	28.6		47.3	31.1	31.1	48.2	30.2	30.3	
Incr Delay (d2), s/veh		1.9	2.7	2.8		0.4	6.6	7.2	1.5	24.0	23.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.0	7.0		1.6	11.8	11.0	2.5	19.3	19.8	
LnGrp Delay(d),s/veh		50.5	31.2	31.4		47.6	37.7	38.3	49.6	54.3	53.8	
LnGrp LOS		D	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			776				914			1274		
Approach Delay, s/veh			36.7				39.2			53.5		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.6	41.0	11.7	41.6	13.3	41.4	13.8	39.5
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	15.7	7.2	14.5	8.7	24.1	9.2	34.1
Green Ext Time (p_c), s	0.0	3.5	0.1	1.6	0.2	2.9	0.0	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	43.2
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	389	100
Future Volume (veh/h)	106	389	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	442	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1013	182
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	2977	534
Grp Volume(v), veh/h	120	261	261
Grp Sat Flow(s),veh/h/ln	1774	1770	1742
Q Serve(g_s), s	7.2	12.3	12.5
Cycle Q Clear(g_c), s	7.2	12.3	12.5
Prop In Lane	1.00		0.31
Lane Grp Cap(c), veh/h	147	602	593
V/C Ratio(X)	0.82	0.43	0.44
Avail Cap(c_a), veh/h	158	602	593
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.6	27.6
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.1	6.0
LnGrp Delay(d),s/veh	72.5	27.8	27.8
LnGrp LOS	E	C	C
Approach Vol, veh/h		642	
Approach Delay, s/veh		36.2	
Approach LOS		D	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	27	3	66	15	10	13	3	68	1237	3	1	6	507	20
Future Volume (veh/h)	27	3	66	15	10	13	3	68	1237	3	1	6	507	20
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.98	0.99		0.97		1.00		1.00		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	36	4	61	19	13	11		76	1374	2		7	551	15
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.75	0.75	0.75	0.79	0.79	0.79		0.90	0.90	0.90		0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	86	19	91	103	67	42		681	2763	4		12	1339	36
Arrive On Green	0.10	0.10	0.10	0.10	0.10	0.10		0.26	0.51	0.51		0.01	0.38	0.38
Sat Flow, veh/h	416	189	923	554	677	423		1774	3626	5		1774	3519	96
Grp Volume(v), veh/h	101	0	0	43	0	0		76	671	705		7	277	289
Grp Sat Flow(s),veh/h/ln	1528	0	0	1654	0	0		1774	1770	1862		1774	1770	1845
Q Serve(g_s), s	4.3	0.0	0.0	0.0	0.0	0.0		3.5	26.8	26.8		0.4	12.4	12.4
Cycle Q Clear(g_c), s	6.8	0.0	0.0	2.4	0.0	0.0		3.5	26.8	26.8		0.4	12.4	12.4
Prop In Lane	0.36		0.60	0.44		0.26		1.00		0.00		1.00		0.05
Lane Grp Cap(c), veh/h	196	0	0	211	0	0		681	1349	1419		12	673	702
V/C Ratio(X)	0.52	0.00	0.00	0.20	0.00	0.00		0.11	0.50	0.50		0.56	0.41	0.41
Avail Cap(c_a), veh/h	491	0	0	509	0	0		681	1349	1419		158	673	702
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.67	0.67	0.67		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.75	0.75	0.75		0.86	0.86	0.86
Uniform Delay (d), s/veh	46.9	0.0	0.0	45.0	0.0	0.0		26.0	12.9	12.9		53.5	24.6	24.6
Incr Delay (d2), s/veh	0.8	0.0	0.0	0.2	0.0	0.0		0.0	1.0	0.9		12.1	1.6	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	0.0	0.0	1.2	0.0	0.0		1.7	13.5	14.2		0.3	6.4	6.6
LnGrp Delay(d),s/veh	47.6	0.0	0.0	45.2	0.0	0.0		26.0	13.8	13.8		65.6	26.2	26.1
LnGrp LOS	D			D				C	B	B		E	C	C
Approach Vol, veh/h		101			43				1452				573	
Approach Delay, s/veh		47.6			45.2				14.5				26.6	
Approach LOS		D			D				B				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	5.2	87.3		15.5	46.5	46.0		15.5
Change Period (Y+Rc), s	4.4	5.0		4.9	5.0	* 4.9		4.9
Max Green Setting (Gmax), s	9.6	52.0		32.1	20.6	* 41		32.1
Max Q Clear Time (g_c+I1), s	2.4	28.8		8.8	5.5	14.4		4.4
Green Ext Time (p_c), s	0.0	17.3		0.3	0.1	2.3		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	19.8
HCM 2010 LOS	B

Notes

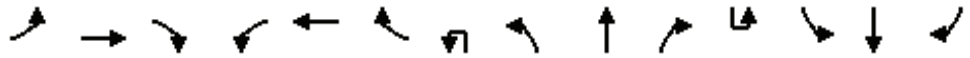


Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	47	100	1187	64	1	27	575
Future Volume (veh/h)	47	100	1187	64	1	27	575
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.99		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	57	84	1448	55		31	669
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.83	0.83	0.82	0.82		0.86	0.86
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	72	107	1845	70		352	2767
Arrive On Green	0.11	0.11	1.00	1.00		0.07	0.26
Sat Flow, veh/h	660	973	3570	132		1774	3632
Grp Volume(v), veh/h	142	0	736	767		31	669
Grp Sat Flow(s),veh/h/ln	1645	0	1770	1839		1774	1770
Q Serve(g_s), s	9.1	0.0	0.0	0.0		1.8	16.2
Cycle Q Clear(g_c), s	9.1	0.0	0.0	0.0		1.8	16.2
Prop In Lane	0.40	0.59		0.07		1.00	
Lane Grp Cap(c), veh/h	181	0	939	976		352	2767
V/C Ratio(X)	0.79	0.00	0.78	0.79		0.09	0.24
Avail Cap(c_a), veh/h	367	0	939	976		352	2767
HCM Platoon Ratio	1.00	1.00	2.00	2.00		0.33	0.33
Upstream Filter(I)	1.00	0.00	0.84	0.84		0.97	0.97
Uniform Delay (d), s/veh	46.8	0.0	0.0	0.0		41.3	14.7
Incr Delay (d2), s/veh	2.9	0.0	5.5	5.4		0.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	0.0	1.4	1.5		0.9	8.0
LnGrp Delay(d),s/veh	49.7	0.0	5.5	5.4		41.3	14.9
LnGrp LOS	D		A	A		D	B
Approach Vol, veh/h	142		1503				700
Approach Delay, s/veh	49.7		5.5				16.1
Approach LOS	D		A				B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	27.2	63.0				90.2		17.8
Change Period (Y+Rc), s	5.8	* 5.7				5.8		5.9
Max Green Setting (Gmax), s	9.6	* 57				72.2		24.1
Max Q Clear Time (g_c+I1), s	13.8	2.0				18.2		11.1
Green Ext Time (p_c), s	0.0	29.6				8.9		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	11.3
HCM 2010 LOS	B

Notes

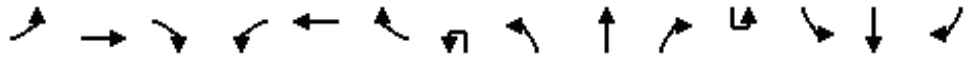


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	164	0	26	13	0	39	1	18	1062	4	1	8	555	47
Future Volume (veh/h)	164	0	26	13	0	39	1	18	1062	4	1	8	555	47
Number	7	4	14	3	8	18		1	6	16		5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	0.99		0.98		1.00		1.00		1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	245	0	27	18	0	37		21	1235	4		10	677	40
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.67	0.67	0.67	0.72	0.72	0.72		0.86	0.86	0.86		0.82	0.82	0.82
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	339	0	30	145	20	249		31	2302	7		17	2134	126
Arrive On Green	0.21	0.00	0.21	0.21	0.00	0.21		0.02	0.64	0.64		0.02	1.00	1.00
Sat Flow, veh/h	1284	0	142	470	94	1159		1774	3619	12		1774	3396	200
Grp Volume(v), veh/h	272	0	0	55	0	0		21	604	635		10	353	364
Grp Sat Flow(s),veh/h/ln	1426	0	0	1723	0	0		1774	1770	1861		1774	1770	1826
Q Serve(g_s), s	16.9	0.0	0.0	0.0	0.0	0.0		1.3	20.4	20.4		0.6	0.0	0.0
Cycle Q Clear(g_c), s	19.8	0.0	0.0	2.9	0.0	0.0		1.3	20.4	20.4		0.6	0.0	0.0
Prop In Lane	0.90		0.10	0.33		0.67		1.00		0.01		1.00		0.11
Lane Grp Cap(c), veh/h	369	0	0	414	0	0		31	1126	1183		17	1112	1148
V/C Ratio(X)	0.74	0.00	0.00	0.13	0.00	0.00		0.68	0.54	0.54		0.59	0.32	0.32
Avail Cap(c_a), veh/h	458	0	0	509	0	0		174	1126	1183		174	1112	1148
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.90	0.90	0.90		0.95	0.95	0.95
Uniform Delay (d), s/veh	40.8	0.0	0.0	34.5	0.0	0.0		52.8	10.9	10.9		52.8	0.0	0.0
Incr Delay (d2), s/veh	3.4	0.0	0.0	0.1	0.0	0.0		8.7	1.7	1.6		10.9	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	0.0	0.0	1.3	0.0	0.0		0.7	10.4	10.9		0.3	0.2	0.2
LnGrp Delay(d),s/veh	44.1	0.0	0.0	34.5	0.0	0.0		61.4	12.5	12.4		63.6	0.7	0.7
LnGrp LOS	D			C				E	B	B		E	A	A
Approach Vol, veh/h		272			55				1260				727	
Approach Delay, s/veh		44.1			34.5				13.3				1.6	
Approach LOS		D			C				B				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	6.3	73.7		28.1	5.4	74.5		28.1
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	10.6	* 53		30.1	10.6	52.2		30.1
Max Q Clear Time (g_c+I1), s	3.3	2.0		21.8	2.6	22.4		4.9
Green Ext Time (p_c), s	0.0	7.3		0.7	0.0	13.2		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	13.7
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	17	12	25	165	11	72	7	32	968	184	8	74	499	15
Future Volume (veh/h)	17	12	25	165	11	72	7	32	968	184	8	74	499	15
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.94		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	23	16	22	192	13	58		38	1139	155		89	601	12
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.75	0.75	0.75	0.86	0.86	0.86		0.85	0.85	0.85		0.83	0.83	0.83
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	51	37	30	264	15	446		234	2429	330		111	2360	47
Arrive On Green	0.30	0.30	0.30	0.30	0.30	0.30		0.26	1.00	1.00		0.06	0.46	0.46
Sat Flow, veh/h	52	124	99	718	49	1496		1774	4515	614		1774	5131	102
Grp Volume(v), veh/h	61	0	0	205	0	58		38	855	439		89	397	216
Grp Sat Flow(s),veh/h/ln	275	0	0	767	0	1496		1774	1695	1739		1774	1695	1843
Q Serve(g_s), s	1.7	0.0	0.0	0.0	0.0	4.0		2.3	0.0	0.0		6.9	10.0	10.1
Cycle Q Clear(g_c), s	39.7	0.0	0.0	38.0	0.0	4.0		2.3	0.0	0.0		6.9	10.0	10.1
Prop In Lane	0.38		0.36	0.94		1.00		1.00		0.35		1.00		0.06
Lane Grp Cap(c), veh/h	118	0	0	279	0	446		234	1824	936		111	1559	848
V/C Ratio(X)	0.52	0.00	0.00	0.74	0.00	0.13		0.16	0.47	0.47		0.81	0.25	0.26
Avail Cap(c_a), veh/h	154	0	0	312	0	482		234	1824	936		286	1559	848
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.92	0.92	0.92		0.96	0.96	0.96
Uniform Delay (d), s/veh	42.0	0.0	0.0	47.8	0.0	35.9		45.6	0.0	0.0		64.8	23.1	23.1
Incr Delay (d2), s/veh	1.3	0.0	0.0	6.3	0.0	0.0		0.1	0.8	1.6		4.9	0.4	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	0.0	8.2	0.0	1.6		1.1	0.2	0.4		3.6	4.8	5.3
LnGrp Delay(d),s/veh	43.4	0.0	0.0	54.1	0.0	35.9		45.7	0.8	1.6		69.7	23.5	23.8
LnGrp LOS	D			D		D		D	A	A		E	C	C
Approach Vol, veh/h		61			263				1332				702	
Approach Delay, s/veh		43.4			50.1				2.3				29.5	
Approach LOS		D			D				A				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	13.1	80.2		46.7	23.3	70.0		46.7
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	22.6	58.1		45.1	15.6	* 64		45.1
Max Q Clear Time (g_c+I1), s	8.9	2.0		41.7	4.3	12.1		40.0
Green Ext Time (p_c), s	0.1	43.3		0.0	0.0	11.1		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	16.8
HCM 2010 LOS	B

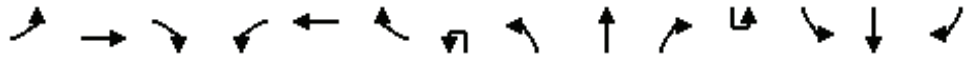
Notes

Intersection	
Intersection Delay, s/veh	9.3
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	63	86	72	27	7	52	44	59	10	54	2
Future Vol, veh/h	3	63	86	72	27	7	52	44	59	10	54	2
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	75	102	92	35	9	79	67	89	13	72	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9	9.3	9.7	8.8
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	34%	2%	68%	15%
Vol Thru, %	28%	41%	25%	82%
Vol Right, %	38%	57%	7%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	155	152	106	66
LT Vol	52	3	72	10
Through Vol	44	63	27	54
RT Vol	59	86	7	2
Lane Flow Rate	235	181	136	88
Geometry Grp	1	1	1	1
Degree of Util (X)	0.302	0.228	0.189	0.122
Departure Headway (Hd)	4.635	4.545	5.017	4.988
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	770	785	711	714
Service Time	2.688	2.6	3.077	3.053
HCM Lane V/C Ratio	0.305	0.231	0.191	0.123
HCM Control Delay	9.7	9	9.3	8.8
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	1.3	0.9	0.7	0.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	77	33	144	94	30	75	7	119	1031	115	4	98	503	54
Future Volume (veh/h)	77	33	144	94	30	75	7	119	1031	115	4	98	503	54
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	93	40	149	121	38	67		129	1121	87		108	553	47
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	274	77	286	197	135	239		153	2871	223		130	2069	917
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23		0.09	0.60	0.60		0.15	1.00	1.00
Sat Flow, veh/h	1272	338	1258	1178	595	1050		1774	4802	372		1774	3539	1568
Grp Volume(v), veh/h	93	0	189	121	0	105		129	791	417		108	553	47
Grp Sat Flow(s),veh/h/ln	1272	0	1596	1178	0	1645		1774	1695	1784		1774	1770	1568
Q Serve(g_s), s	9.1	0.0	14.5	14.0	0.0	7.4		10.0	17.1	17.2		8.3	0.0	0.0
Cycle Q Clear(g_c), s	16.5	0.0	14.5	28.6	0.0	7.4		10.0	17.1	17.2		8.3	0.0	0.0
Prop In Lane	1.00		0.79	1.00		0.64		1.00		0.21		1.00		1.00
Lane Grp Cap(c), veh/h	274	0	363	197	0	374		153	2027	1067		130	2069	917
V/C Ratio(X)	0.34	0.00	0.52	0.61	0.00	0.28		0.84	0.39	0.39		0.83	0.27	0.05
Avail Cap(c_a), veh/h	385	0	503	300	0	518		400	2027	1067		400	2069	917
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.99	0.99	0.99
Uniform Delay (d), s/veh	51.4	0.0	47.4	59.9	0.0	44.6		63.0	14.8	14.8		58.9	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.9	2.3	0.0	0.3		4.7	0.6	1.1		5.1	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	0.0	6.5	4.7	0.0	3.4		5.1	8.2	8.8		4.2	0.1	0.0
LnGrp Delay(d),s/veh	52.0	0.0	48.2	62.2	0.0	44.9		67.7	15.3	15.8		64.0	0.3	0.1
LnGrp LOS	D		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		282			226				1337				708	
Approach Delay, s/veh		49.5			54.2				20.5				10.0	
Approach LOS		D			D				C				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	88.6		36.7	16.5	86.8		36.7
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	10.3	19.2		18.5	12.0	2.0		30.6
Green Ext Time (p_c), s	0.1	11.6		1.2	0.1	5.2		0.7

Intersection Summary		
HCM 2010 Ctrl Delay	23.8	
HCM 2010 LOS	C	

Notes

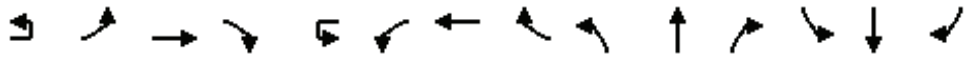


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	199	817	74	345	777	100	15	149	408	330	2	154	279	294
Future Volume (veh/h)	5	199	817	74	345	777	100	15	149	408	330	2	154	279	294
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		207	851	54	367	827	75		180	492	398		169	307	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		412	1070	68	442	1006	91		212	905	608		201	484	345
Arrive On Green		0.12	0.32	0.32	0.13	0.31	0.31		0.12	0.26	0.26		0.11	0.25	0.25
Sat Flow, veh/h		3442	3367	214	3442	3269	296		1774	3539	1583		1774	1940	1385
Grp Volume(v), veh/h		207	447	458	367	448	454		180	492	398		169	279	254
Grp Sat Flow(s),veh/h/ln		1721	1770	1811	1721	1770	1796		1774	1770	1583		1774	1770	1555
Q Serve(g_s), s		6.0	24.7	24.7	11.1	25.1	25.1		10.6	12.9	22.1		10.0	15.1	15.7
Cycle Q Clear(g_c), s		6.0	24.7	24.7	11.1	25.1	25.1		10.6	12.9	22.1		10.0	15.1	15.7
Prop In Lane		1.00		0.12	1.00		0.17		1.00		1.00		1.00		0.89
Lane Grp Cap(c), veh/h		412	563	576	442	545	553		212	905	608		201	441	388
V/C Ratio(X)		0.50	0.80	0.80	0.83	0.82	0.82		0.85	0.54	0.65		0.84	0.63	0.65
Avail Cap(c_a), veh/h		964	991	1015	964	991	1006		497	1322	794		497	661	581
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		44.2	33.3	33.3	45.5	34.3	34.3		46.2	34.4	27.1		46.6	35.8	36.1
Incr Delay (d2), s/veh		0.4	3.1	3.1	1.6	3.2	3.1		3.6	0.3	0.8		3.6	1.2	1.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.9	12.5	12.8	5.4	12.7	12.8		5.4	6.3	9.8		5.1	7.5	6.9
LnGrp Delay(d),s/veh		44.5	36.5	36.4	47.1	37.5	37.5		49.8	34.8	28.0		50.2	37.0	37.6
LnGrp LOS		D	D	D	D	D	D		D	C	C		D	D	D
Approach Vol, veh/h			1112			1269				1070				702	
Approach Delay, s/veh			37.9			40.3				34.8				40.4	
Approach LOS			D			D				C				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.1	39.7	17.2	32.0	18.5	39.4	16.5	32.7
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	13.1	26.7	12.6	17.7	8.0	27.1	12.0	24.1
Green Ext Time (p_c), s	0.6	7.3	0.2	2.8	0.3	5.9	0.2	3.2

Intersection Summary	
HCM 2010 Ctrl Delay	38.3
HCM 2010 LOS	D

Notes

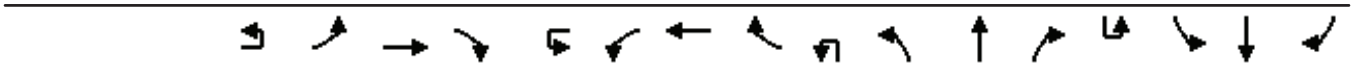


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	43	1100	85	3	50	987	92	184	89	83	60	98	98
Future Volume (veh/h)	13	43	1100	85	3	50	987	92	184	89	83	60	98	98
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		49	1250	67		62	1219	79	271	131	85	76	124	99
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		63	1269	68		79	1285	83	245	119	77	82	134	107
Arrive On Green		0.04	0.37	0.37		0.01	0.13	0.13	0.25	0.25	0.25	0.19	0.19	0.19
Sat Flow, veh/h		1774	3411	183		1774	3369	218	979	473	307	439	717	572
Grp Volume(v), veh/h		49	648	669		62	639	659	487	0	0	299	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1824		1774	1770	1818	1759	0	0	1729	0	0
Q Serve(g_s), s		3.8	50.8	51.0		4.9	50.2	50.4	35.1	0.0	0.0	23.8	0.0	0.0
Cycle Q Clear(g_c), s		3.8	50.8	51.0		4.9	50.2	50.4	35.1	0.0	0.0	23.8	0.0	0.0
Prop In Lane		1.00		0.10		1.00		0.12	0.56		0.17	0.25		0.33
Lane Grp Cap(c), veh/h		63	658	679		79	675	693	441	0	0	323	0	0
V/C Ratio(X)		0.78	0.98	0.99		0.78	0.95	0.95	1.10	0.00	0.00	0.93	0.00	0.00
Avail Cap(c_a), veh/h		122	658	679		122	675	693	441	0	0	347	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.70	0.70	0.70	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.0	43.5	43.6		68.3	59.8	59.9	52.5	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		7.4	31.3	31.4		5.3	18.9	18.9	74.2	0.0	0.0	28.2	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.0	30.6	31.6		2.5	28.2	29.0	26.1	0.0	0.0	13.9	0.0	0.0
LnGrp Delay(d),s/veh		74.4	74.9	75.0		73.5	78.7	78.8	126.7	0.0	0.0	84.2	0.0	0.0
LnGrp LOS		E	E	E		E	E	E	F			F		
Approach Vol, veh/h			1366				1360			487			299	
Approach Delay, s/veh			74.9				78.5			126.7			84.2	
Approach LOS			E				E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.7	58.3		31.0	9.4	59.6		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	6.9	53.0		25.8	5.8	52.4		37.1
Green Ext Time (p_c), s	0.0	0.0		0.3	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	84.3
HCM 2010 LOS	F

Notes

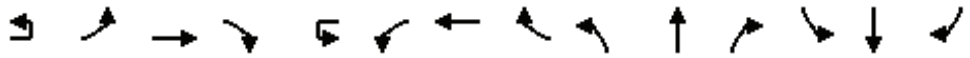


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	172	868	259	5	92	694	274	2	282	789	66	5	220	425	168
Future Volume (veh/h)	3	172	868	259	5	92	694	274	2	282	789	66	5	220	425	168
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		193	975	203		106	798	226		300	839	49		253	489	136
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		436	1512	314		153	1221	343		346	1048	61		298	706	307
Arrive On Green		0.33	0.69	0.69		0.04	0.31	0.31		0.20	0.43	0.43		0.17	0.40	0.40
Sat Flow, veh/h		1774	2909	605		3442	3921	1100		3442	4911	286		3442	3539	1539
Grp Volume(v), veh/h		193	592	586		106	689	335		300	578	310		253	489	136
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1631		1721	1695	1807		1721	1770	1539
Q Serve(g_s), s		12.0	26.1	26.2		4.3	24.6	24.9		11.8	20.8	20.9		10.0	16.1	5.4
Cycle Q Clear(g_c), s		12.0	26.1	26.2		4.3	24.6	24.9		11.8	20.8	20.9		10.0	16.1	5.4
Prop In Lane		1.00		0.35		1.00		0.67		1.00		0.16		1.00		1.00
Lane Grp Cap(c), veh/h		436	920	907		153	1056	508		346	723	385		298	706	307
V/C Ratio(X)		0.44	0.64	0.65		0.69	0.65	0.66		0.87	0.80	0.80		0.85	0.69	0.44
Avail Cap(c_a), veh/h		436	920	907		383	1056	508		457	826	440		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		1.00	1.00	1.00		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.93	0.93	0.93		0.89	0.89	0.89		1.00	1.00	1.00
Uniform Delay (d), s/veh		39.6	14.4	14.4		65.9	41.7	41.8		55.0	37.5	37.6		57.0	38.5	13.2
Incr Delay (d2), s/veh		0.0	0.3	0.3		1.9	2.9	6.2		9.5	5.3	9.7		10.8	2.9	1.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.9	12.6	12.5		2.1	11.9	12.1		6.0	10.2	11.4		5.2	8.0	3.3
LnGrp Delay(d),s/veh		39.6	14.7	14.8		67.9	44.6	47.9		64.6	42.8	47.3		67.8	41.4	14.9
LnGrp LOS		D	B	B		E	D	D		E	D	D		E	D	B
Approach Vol, veh/h			1371				1130				1188				878	
Approach Delay, s/veh			18.2				47.8				49.5				44.9	
Approach LOS			B				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.6	78.1	18.5	32.8	39.7	49.0	16.5	34.8
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	16.3	28.2	13.8	18.1	14.0	26.9	12.0	22.9
Green Ext Time (p_c), s	0.1	9.4	0.3	4.5	0.2	5.7	0.2	6.1

Intersection Summary	
HCM 2010 Ctrl Delay	38.8
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	11	67	1021	40	5	54	1037	165	30	21	47	108	23	46
Future Volume (veh/h)	11	67	1021	40	5	54	1037	165	30	21	47	108	23	46
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	0.97		0.98	0.99		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		71	1086	30		57	1103	123	36	25	39	150	32	45
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.84	0.84	0.84	0.72	0.72	0.72
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		113	3318	92		94	2998	334	247	202	168	312	283	235
Arrive On Green		0.01	0.22	0.22		0.05	1.00	1.00	0.03	0.11	0.11	0.08	0.15	0.15
Sat Flow, veh/h		3442	5087	140		3442	4635	516	1774	1863	1553	1774	1863	1549
Grp Volume(v), veh/h		71	724	392		57	806	420	36	25	39	150	32	45
Grp Sat Flow(s),veh/h/ln		1721	1695	1837		1721	1695	1761	1774	1863	1553	1774	1863	1549
Q Serve(g_s), s		2.9	25.2	25.2		2.3	0.0	0.0	2.5	1.7	3.2	10.4	2.1	3.6
Cycle Q Clear(g_c), s		2.9	25.2	25.2		2.3	0.0	0.0	2.5	1.7	3.2	10.4	2.1	3.6
Prop In Lane		1.00		0.08		1.00		0.29	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		113	2211	1198		94	2193	1139	247	202	168	312	283	235
V/C Ratio(X)		0.63	0.33	0.33		0.61	0.37	0.37	0.15	0.12	0.23	0.48	0.11	0.19
Avail Cap(c_a), veh/h		310	2211	1198		310	2193	1139	324	547	456	312	547	455
HCM Platoon Ratio		0.33	0.33	0.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.53	0.53	0.53		0.90	0.90	0.90	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		68.4	29.0	29.0		65.4	0.0	0.0	52.8	56.4	57.1	49.2	51.2	51.9
Incr Delay (d2), s/veh		1.1	0.2	0.4		2.1	0.4	0.8	0.1	0.1	0.3	0.4	0.1	0.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.4	11.9	13.0		1.1	0.1	0.3	1.2	0.9	1.4	5.1	1.1	1.5
LnGrp Delay(d),s/veh		69.5	29.2	29.4		67.5	0.4	0.8	52.9	56.5	57.4	49.6	51.3	52.0
LnGrp LOS		E	C	C		E	A	A	D	E	E	D	D	D
Approach Vol, veh/h			1187				1283			100			227	
Approach Delay, s/veh			31.7				3.5			55.5			50.3	
Approach LOS			C				A			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.2	96.7	8.9	26.1	9.0	95.9	15.0	20.0
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	* 57	10.6	41.1	12.6	56.6	10.6	41.1
Max Q Clear Time (g_c+I1), s	4.3	27.2	4.5	5.6	4.9	2.0	12.4	5.2
Green Ext Time (p_c), s	0.0	15.0	0.0	0.2	0.0	14.3	0.0	0.1

Intersection Summary	
HCM 2010 Ctrl Delay	21.1
HCM 2010 LOS	C

Notes

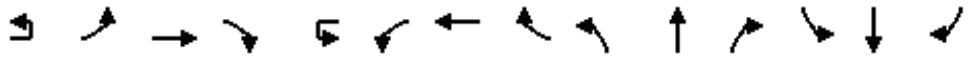


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	16	34	1141	18	181	1185	105	65	116	368	135	124	113
Future Volume (veh/h)	16	34	1141	18	181	1185	105	65	116	368	135	124	113
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.97	1.00		0.95	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		37	1240	15	191	1247	77	76	136	368	152	139	89
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.92	0.92	0.92	0.95	0.95	0.95	0.85	0.85	0.85	0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		48	1394	17	678	3085	190	119	274	827	201	605	259
Arrive On Green		0.01	0.09	0.09	0.76	1.00	1.00	0.01	0.05	0.05	0.06	0.17	0.17
Sat Flow, veh/h		1774	5177	63	1774	4887	302	3442	1863	1508	3442	3539	1519
Grp Volume(v), veh/h		37	812	443	191	865	459	76	136	368	152	139	89
Grp Sat Flow(s),veh/h/ln		1774	1695	1849	1774	1695	1799	1721	1863	1508	1721	1770	1519
Q Serve(g_s), s		2.9	33.2	33.2	4.5	0.0	0.0	3.1	10.0	3.7	6.1	4.7	7.2
Cycle Q Clear(g_c), s		2.9	33.2	33.2	4.5	0.0	0.0	3.1	10.0	3.7	6.1	4.7	7.2
Prop In Lane		1.00		0.03	1.00		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		48	913	498	678	2140	1135	119	274	827	201	605	259
V/C Ratio(X)		0.78	0.89	0.89	0.28	0.40	0.40	0.64	0.50	0.44	0.76	0.23	0.34
Avail Cap(c_a), veh/h		172	913	498	678	2140	1135	236	520	1027	334	1090	468
HCM Platoon Ratio		0.33	0.33	0.33	2.00	2.00	2.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)		0.94	0.94	0.94	0.80	0.80	0.80	0.61	0.61	0.61	1.00	1.00	1.00
Uniform Delay (d), s/veh		69.0	61.7	61.7	10.7	0.0	0.0	68.3	61.6	10.8	64.9	50.1	51.1
Incr Delay (d2), s/veh		9.1	12.0	19.6	0.1	0.5	0.9	1.3	0.3	0.1	2.2	0.1	0.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	17.1	19.7	2.1	0.1	0.3	1.5	5.2	6.5	3.0	2.3	3.1
LnGrp Delay(d),s/veh		78.1	73.7	81.4	10.8	0.5	0.9	69.6	61.9	10.8	67.1	50.2	51.4
LnGrp LOS		E	E	F	B	A	A	E	E	B	E	D	D
Approach Vol, veh/h			1292			1515			580			380	
Approach Delay, s/veh			76.5			1.9			30.5			57.2	
Approach LOS			E			A			C			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.9	43.0	9.2	28.8	8.2	93.8	12.6	25.5
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	30.6	* 38	9.6	43.1	13.6	54.6	13.6	39.1
Max Q Clear Time (g_c+I1), s	6.5	35.2	5.1	9.2	4.9	2.0	8.1	12.0
Green Ext Time (p_c), s	0.2	2.3	0.0	0.7	0.0	29.5	0.1	1.2

Intersection Summary	
HCM 2010 Ctrl Delay	37.5
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	5	23	1637	20	18	70	1359	27	23	43	163	61	33	57
Future Volume (veh/h)	5	23	1637	20	18	70	1359	27	23	43	163	61	33	57
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.95	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		25	1799	15		78	1510	21	30	57	150	80	43	53
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.91	0.91	0.91		0.90	0.90	0.90	0.76	0.76	0.76	0.76	0.76	0.76
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		32	2634	22		97	2807	39	37	70	185	92	49	61
Arrive On Green		0.04	1.00	1.00		0.11	1.00	1.00	0.18	0.18	0.18	0.12	0.12	0.12
Sat Flow, veh/h		1774	5202	43		1774	5167	72	204	388	1021	776	417	514
Grp Volume(v), veh/h		25	1172	642		78	991	540	237	0	0	176	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1855		1774	1695	1849	1613	0	0	1708	0	0
Q Serve(g_s), s		2.0	0.0	0.0		6.0	0.0	0.0	19.7	0.0	0.0	14.2	0.0	0.0
Cycle Q Clear(g_c), s		2.0	0.0	0.0		6.0	0.0	0.0	19.7	0.0	0.0	14.2	0.0	0.0
Prop In Lane		1.00		0.02		1.00		0.04	0.13		0.63	0.45		0.30
Lane Grp Cap(c), veh/h		32	1717	939		97	1842	1004	292	0	0	202	0	0
V/C Ratio(X)		0.79	0.68	0.68		0.80	0.54	0.54	0.81	0.00	0.00	0.87	0.00	0.00
Avail Cap(c_a), veh/h		134	1717	939		185	1842	1004	404	0	0	294	0	0
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.77	0.77	0.77		0.88	0.88	0.88	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.3	0.0	0.0		61.6	0.0	0.0	55.1	0.0	0.0	60.7	0.0	0.0
Incr Delay (d2), s/veh		11.9	1.7	3.1		5.1	1.0	1.8	6.0	0.0	0.0	13.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.1	0.4	0.8		3.1	0.3	0.5	9.3	0.0	0.0	7.4	0.0	0.0
LnGrp Delay(d),s/veh		79.2	1.7	3.1		66.7	1.0	1.8	61.0	0.0	0.0	73.7	0.0	0.0
LnGrp LOS		E	A	A		E	A	A	E			E		
Approach Vol, veh/h			1839				1609			237			176	
Approach Delay, s/veh			3.2				4.5			61.0			73.7	
Approach LOS			A				A			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.1	76.3		30.2	6.9	81.5		21.4
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	14.6	* 47		35.1	10.6	50.6		24.1
Max Q Clear Time (g_c+I1), s	10.0	2.0		21.7	4.0	2.0		16.2
Green Ext Time (p_c), s	0.0	32.5		0.8	0.0	21.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	10.5
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1828	120	366	1323	269	88	86	614	260	147	5
Future Volume (veh/h)	2	1828	120	366	1323	269	88	86	614	260	147	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	1885	87	398	1438	204	100	100	614	289	163	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	1883	87	350	2917	889	255	267	1064	293	298	7
Arrive On Green	0.00	0.76	0.76	0.20	0.57	0.57	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4974	229	1774	5085	1549	1774	1863	3066	1774	1809	44
Grp Volume(v), veh/h	2	1283	689	398	1438	204	100	100	614	289	0	167
Grp Sat Flow(s),veh/h/ln	1774	1695	1813	1774	1695	1549	1774	1863	1533	1774	0	1853
Q Serve(g_s), s	0.2	53.0	53.0	27.6	23.5	9.1	7.2	6.8	20.1	22.7	0.0	11.6
Cycle Q Clear(g_c), s	0.2	53.0	53.0	27.6	23.5	9.1	7.2	6.8	20.1	22.7	0.0	11.6
Prop In Lane	1.00		0.13	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	4	1283	686	350	2917	889	255	267	1064	293	0	306
V/C Ratio(X)	0.53	1.00	1.00	1.14	0.49	0.23	0.39	0.37	0.58	0.99	0.00	0.55
Avail Cap(c_a), veh/h	274	1283	686	350	2917	889	255	267	1064	293	0	306
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.57	0.57	0.57	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.6	17.0	17.0	56.2	17.7	14.7	54.4	54.3	38.0	58.3	0.0	53.6
Incr Delay (d2), s/veh	21.8	18.9	26.6	91.0	0.6	0.6	0.7	0.6	0.7	48.9	0.0	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	26.9	30.2	22.3	11.1	4.0	3.6	3.5	9.8	15.1	0.0	6.0
LnGrp Delay(d),s/veh	91.4	35.9	43.7	147.2	18.3	15.3	55.1	54.9	38.7	107.2	0.0	54.8
LnGrp LOS	F	D	F	F	B	B	E	D	D	F		D
Approach Vol, veh/h		1974			2040			814			456	
Approach Delay, s/veh		38.7			43.2			42.7			88.0	
Approach LOS		D			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.0	58.5		25.0	4.7	85.8		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	7.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	2.2	25.5		24.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	45.3
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	0	1494	0	0	0	0	0	1	433
Future Volume (veh/h)	0	0	0	0	1494	0	0	0	0	0	1	433
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	1758	0				0	1	484
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.85	0.85	0.85				0.76	0.76	0.76
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	2707	843				0	409	612
Arrive On Green				0.00	0.53	0.00				0.00	0.22	0.22
Sat Flow, veh/h				0	5253	1583				0	1863	2783
Grp Volume(v), veh/h				0	1758	0				0	1	484
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1391
Q Serve(g_s), s				0.0	10.9	0.0				0.0	0.0	7.2
Cycle Q Clear(g_c), s				0.0	10.9	0.0				0.0	0.0	7.2
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	2707	843				0	409	612
V/C Ratio(X)				0.00	0.65	0.00				0.00	0.00	0.79
Avail Cap(c_a), veh/h				0	5782	1800				0	1483	2215
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	7.3	0.0				0.0	13.4	16.2
Incr Delay (d2), s/veh				0.0	0.1	0.0				0.0	0.0	0.9
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	4.9	0.0				0.0	0.0	2.8
LnGrp Delay(d),s/veh				0.0	7.4	0.0				0.0	13.4	17.1
LnGrp LOS					A						B	B
Approach Vol, veh/h					1758						485	
Approach Delay, s/veh					7.4						17.1	
Approach LOS					A						B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				14.8		29.2		
Change Period (Y+Rc), s				5.1		5.8		
Max Green Setting (Gmax), s				35.0		50.0		
Max Q Clear Time (g_c+I1), s				9.2		12.9		
Green Ext Time (p_c), s				0.5		10.5		

Intersection Summary	
HCM 2010 Ctrl Delay	9.5
HCM 2010 LOS	A

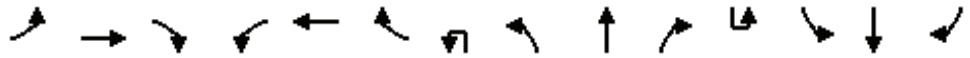
Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	2082	392	0	0	0	0	1	367	0	0	0
Future Volume (veh/h)	0	2082	392	0	0	0	0	1	367	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.98			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	2288	0				0	1	339			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.91	0.91	0.91				0.92	0.92	0.92			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	3205	998				0	308	451			
Arrive On Green	0.00	0.63	0.00				0.00	0.17	0.17			
Sat Flow, veh/h	0	5253	1583				0	1863	2725			
Grp Volume(v), veh/h	0	2288	0				0	1	339			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1362			
Q Serve(g_s), s	0.0	16.1	0.0				0.0	0.0	6.3			
Cycle Q Clear(g_c), s	0.0	16.1	0.0				0.0	0.0	6.3			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	3205	998				0	308	451			
V/C Ratio(X)	0.00	0.71	0.00				0.00	0.00	0.75			
Avail Cap(c_a), veh/h	0	4761	1482				0	607	888			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	6.6	0.0				0.0	18.6	21.2			
Incr Delay (d2), s/veh	0.0	0.1	0.0				0.0	0.0	1.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	7.4	0.0				0.0	0.0	2.4			
LnGrp Delay(d),s/veh	0.0	6.7	0.0				0.0	18.6	22.2			
LnGrp LOS		A						B	C			
Approach Vol, veh/h		2288						340				
Approach Delay, s/veh		6.7						22.2				
Approach LOS		A						C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		39.5						13.9
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						17.4
Max Q Clear Time (g_c+I1), s		18.1						8.3
Green Ext Time (p_c), s		15.5						0.6

Intersection Summary	
HCM 2010 Ctrl Delay	8.7
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	152	370	67	118	245	124	2	66	914	195	4	33	595	129
Future Volume (veh/h)	152	370	67	118	245	124	2	66	914	195	4	33	595	129
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.95		1.00		0.96		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	188	457	58	136	282	100		70	972	144		39	700	106
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.81	0.81	0.81	0.87	0.87	0.87		0.94	0.94	0.94		0.85	0.85	0.85
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	210	540	71	184	409	249		89	1471	440		308	1489	662
Arrive On Green	0.23	0.23	0.23	0.17	0.17	0.17		0.05	0.29	0.29		0.17	0.42	0.42
Sat Flow, veh/h	923	2375	313	1109	2468	1504		1774	5085	1520		1774	3539	1574
Grp Volume(v), veh/h	370	0	333	222	196	100		70	972	144		39	700	106
Grp Sat Flow(s),veh/h/ln	1817	0	1794	1807	1770	1504		1774	1695	1520		1774	1770	1574
Q Serve(g_s), s	27.7	0.0	24.6	16.3	14.6	8.3		5.5	23.5	10.4		2.6	20.0	5.9
Cycle Q Clear(g_c), s	27.7	0.0	24.6	16.3	14.6	8.3		5.5	23.5	10.4		2.6	20.0	5.9
Prop In Lane	0.51		0.17	0.61		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	413	0	408	299	293	249		89	1471	440		308	1489	662
V/C Ratio(X)	0.90	0.00	0.82	0.74	0.67	0.40		0.79	0.66	0.33		0.13	0.47	0.16
Avail Cap(c_a), veh/h	507	0	501	401	393	334		185	1471	440		308	1489	662
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.92	0.92	0.92		1.00	1.00	1.00		0.76	0.76	0.76
Uniform Delay (d), s/veh	52.5	0.0	51.3	55.5	54.8	52.2		65.8	43.7	39.1		48.9	29.3	25.2
Incr Delay (d2), s/veh	14.5	0.0	6.9	2.7	0.9	0.4		5.7	2.3	2.0		0.1	0.8	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	15.5	0.0	13.0	8.4	7.2	3.5		2.8	11.3	4.6		1.3	9.9	2.6
LnGrp Delay(d),s/veh	66.9	0.0	58.3	58.3	55.7	52.6		71.5	46.1	41.0		48.9	30.1	25.6
LnGrp LOS	E		E	E	E	D		E	D	D		D	C	C
Approach Vol, veh/h		703			518				1186				845	
Approach Delay, s/veh		62.8			56.2				47.0				30.4	
Approach LOS		E			E				D				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.2	46.0		36.7	11.4	63.8		28.1
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	9.6	* 41		39.1	14.6	36.1		31.1
Max Q Clear Time (g_c+I1), s	4.6	25.5		29.7	7.5	22.0		18.3
Green Ext Time (p_c), s	0.0	7.6		2.1	0.0	10.1		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	47.6
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	5

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	118	14	51	70	36	127
Future Vol, veh/h	118	14	51	70	36	127
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	128	15	55	76	39	138

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	143	0	322	136
Stage 1	-	-	-	-	136	-
Stage 2	-	-	-	-	186	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1440	-	672	913
Stage 1	-	-	-	-	890	-
Stage 2	-	-	-	-	846	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1440	-	645	913
Mov Cap-2 Maneuver	-	-	-	-	645	-
Stage 1	-	-	-	-	854	-
Stage 2	-	-	-	-	846	-

Approach	EB	WB	NB
HCM Control Delay, s	0	3.2	10.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	836	-	-	1440	-
HCM Lane V/C Ratio	0.212	-	-	0.038	-
HCM Control Delay (s)	10.5	-	-	7.6	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.8	-	-	0.1	-

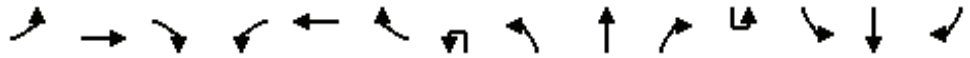
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	256	15	186	737	105	256	407	106	2
Future Volume (veh/h)	11	142	662	256	15	186	737	105	256	407	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	201		200	792	79	272	433	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1164	318		255	1426	142	329	716	129	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2727	745		3442	3245	324	3442	2967	536	
Grp Volume(v), veh/h		158	478	459		200	432	439	272	257	255	
Grp Sat Flow(s),veh/h/ln		1721	1770	1701		1721	1770	1798	1721	1770	1734	
Q Serve(g_s), s		5.7	26.7	26.7		7.2	22.8	22.8	9.8	16.2	16.5	
Cycle Q Clear(g_c), s		5.7	26.7	26.7		7.2	22.8	22.8	9.8	16.2	16.5	
Prop In Lane		1.00		0.44		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		213	756	727		255	778	790	329	427	418	
V/C Ratio(X)		0.74	0.63	0.63		0.78	0.56	0.56	0.83	0.60	0.61	
Avail Cap(c_a), veh/h		399	756	727		399	778	790	481	479	469	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.3	28.3		57.3	26.2	26.2	56.0	42.4	42.5	
Incr Delay (d2), s/veh		1.9	4.0	4.2		2.1	2.9	2.8	4.8	0.9	1.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	13.8	13.3		3.5	11.8	12.0	4.9	8.0	8.1	
LnGrp Delay(d),s/veh		60.0	32.3	32.5		59.4	29.0	29.0	60.8	43.3	43.6	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1095				1071			784		
Approach Delay, s/veh			36.4				34.7			49.5		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.8	16.4	37.0	12.2	60.4	18.1	35.3
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	28.7	11.8	34.1	7.7	24.8	13.7	18.5
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.6

Intersection Summary	
HCM 2010 Ctrl Delay	62.9
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	903	101
Future Volume (veh/h)	160	903	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	951	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	845	66
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3316	258
Grp Volume(v), veh/h	168	508	517
Grp Sat Flow(s),veh/h/ln	1774	1770	1804
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	460
V/C Ratio(X)	0.87	1.13	1.13
Avail Cap(c_a), veh/h	220	451	460
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	81.4	81.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	25.9	26.3
LnGrp Delay(d),s/veh	79.8	128.4	128.1
LnGrp LOS	E	F	F
Approach Vol, veh/h		1193	
Approach Delay, s/veh		121.4	
Approach LOS		F	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	19	7	81	14	1	3	7	70	775	3	1	8	1323	20
Future Volume (veh/h)	19	7	81	14	1	3	7	70	775	3	1	8	1323	20
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.94	0.98		0.97		1.00		0.99		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	28	10	82	22	2	3		74	816	2		9	1407	15
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.69	0.69	0.69	0.64	0.64	0.64		0.95	0.95	0.95		0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	65	30	129	162	16	16		93	2731	7		15	2547	27
Arrive On Green	0.12	0.12	0.12	0.12	0.12	0.12		0.11	1.00	1.00		0.01	0.71	0.71
Sat Flow, veh/h	244	238	1041	889	128	127		1774	3622	9		1774	3587	38
Grp Volume(v), veh/h	120	0	0	27	0	0		74	399	419		9	694	728
Grp Sat Flow(s),veh/h/ln	1523	0	0	1144	0	0		1774	1770	1861		1774	1770	1856
Q Serve(g_s), s	4.6	0.0	0.0	0.0	0.0	0.0		5.1	0.0	0.0		0.6	23.6	23.6
Cycle Q Clear(g_c), s	9.3	0.0	0.0	2.7	0.0	0.0		5.1	0.0	0.0		0.6	23.6	23.6
Prop In Lane	0.23		0.68	0.81		0.11		1.00		0.00		1.00		0.02
Lane Grp Cap(c), veh/h	224	0	0	194	0	0		93	1334	1403		15	1256	1317
V/C Ratio(X)	0.54	0.00	0.00	0.14	0.00	0.00		0.79	0.30	0.30		0.59	0.55	0.55
Avail Cap(c_a), veh/h	384	0	0	335	0	0		234	1334	1403		191	1256	1317
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.94	0.94	0.94		0.09	0.09	0.09
Uniform Delay (d), s/veh	52.4	0.0	0.0	49.4	0.0	0.0		55.7	0.0	0.0		62.2	8.7	8.7
Incr Delay (d2), s/veh	0.7	0.0	0.0	0.1	0.0	0.0		5.2	0.5	0.5		1.2	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	0.0	0.9	0.0	0.0		2.6	0.2	0.2		0.3	11.4	12.0
LnGrp Delay(d),s/veh	53.1	0.0	0.0	49.5	0.0	0.0		60.9	0.5	0.5		63.5	8.9	8.9
LnGrp LOS	D			D				E	A	A		E	A	A
Approach Vol, veh/h		120			27				892				1431	
Approach Delay, s/veh		53.1			49.5				5.5				9.2	
Approach LOS		D			D				A				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	5.5	100.0		20.5	11.0	94.5		20.5
Change Period (Y+Rc), s	4.4	5.0		4.9	4.4	* 5		4.9
Max Green Setting (Gmax), s	13.6	69.0		29.1	16.6	* 66		29.1
Max Q Clear Time (g_c+I1), s	2.6	2.0		11.3	7.1	25.6		4.7
Green Ext Time (p_c), s	0.0	14.7		0.4	0.0	8.6		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	10.5
HCM 2010 LOS	B

Notes



Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	46	59	798	52	1	73	1320
Future Volume (veh/h)	46	59	798	52	1	73	1320
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.94		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	52	46	849	39		75	1361
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.89	0.89	0.94	0.94		0.97	0.97
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	86	76	2449	112		95	2856
Arrive On Green	0.10	0.10	1.00	1.00		0.11	1.00
Sat Flow, veh/h	856	757	3539	158		1774	3632
Grp Volume(v), veh/h	99	0	436	452		75	1361
Grp Sat Flow(s),veh/h/ln	1629	0	1770	1834		1774	1770
Q Serve(g_s), s	7.3	0.0	0.0	0.0		5.2	0.0
Cycle Q Clear(g_c), s	7.3	0.0	0.0	0.0		5.2	0.0
Prop In Lane	0.53	0.46		0.09		1.00	
Lane Grp Cap(c), veh/h	163	0	1258	1304		95	2856
V/C Ratio(X)	0.61	0.00	0.35	0.35		0.79	0.48
Avail Cap(c_a), veh/h	312	0	1258	1304		248	2856
HCM Platoon Ratio	1.00	1.00	2.00	2.00		2.00	2.00
Upstream Filter(I)	1.00	0.00	0.96	0.96		0.81	0.81
Uniform Delay (d), s/veh	54.3	0.0	0.0	0.0		55.6	0.0
Incr Delay (d2), s/veh	1.3	0.0	0.7	0.7		4.5	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	3.4	0.0	0.3	0.3		2.7	0.2
LnGrp Delay(d),s/veh	55.6	0.0	0.7	0.7		60.1	0.5
LnGrp LOS	E		A	A		E	A
Approach Vol, veh/h	99		888				1436
Approach Delay, s/veh	55.6		0.7				3.6
Approach LOS	E		A				A

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	12.1	95.3				107.5		18.5
Change Period (Y+Rc), s	5.4	* 5.8				5.8		5.9
Max Green Setting (Gmax), s	17.6	* 67				90.2		24.1
Max Q Clear Time (g_c+I1), s	7.3	2.0				2.0		9.3
Green Ext Time (p_c), s	0.1	12.8				29.7		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	4.7
HCM 2010 LOS	A

Notes

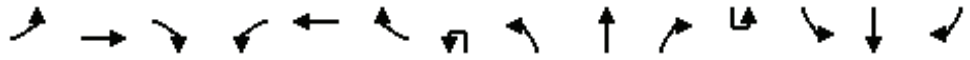


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	89	6	43	15	5	16	3	19	738	15	12	1218	129
Future Volume (veh/h)	89	6	43	15	5	16	3	19	738	15	12	1218	129
Number	7	4	14	3	8	18		1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	1.00		0.99		1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	100	7	33	23	8	17		20	785	11	13	1310	97
Adj No. of Lanes	0	1	0	0	1	0		1	2	0	1	2	0
Peak Hour Factor	0.89	0.89	0.89	0.64	0.64	0.64		0.94	0.94	0.94	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h	170	10	41	115	45	65		28	2695	38	21	2505	185
Arrive On Green	0.11	0.11	0.11	0.11	0.11	0.11		0.02	0.75	0.75	0.02	1.00	1.00
Sat Flow, veh/h	1059	91	355	640	391	565		1774	3573	50	1774	3341	247
Grp Volume(v), veh/h	140	0	0	48	0	0		20	389	407	13	692	715
Grp Sat Flow(s),veh/h/ln	1504	0	0	1596	0	0		1774	1770	1854	1774	1770	1818
Q Serve(g_s), s	8.0	0.0	0.0	0.0	0.0	0.0		1.4	8.7	8.7	0.9	0.0	0.0
Cycle Q Clear(g_c), s	11.3	0.0	0.0	3.3	0.0	0.0		1.4	8.7	8.7	0.9	0.0	0.0
Prop In Lane	0.71		0.24	0.48		0.35		1.00		0.03	1.00		0.14
Lane Grp Cap(c), veh/h	221	0	0	225	0	0		28	1335	1398	21	1327	1363
V/C Ratio(X)	0.63	0.00	0.00	0.21	0.00	0.00		0.71	0.29	0.29	0.63	0.52	0.52
Avail Cap(c_a), veh/h	421	0	0	434	0	0		234	1335	1398	234	1327	1363
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.91	0.91	0.91	0.87	0.87	0.87
Uniform Delay (d), s/veh	54.1	0.0	0.0	50.8	0.0	0.0		61.7	4.9	4.9	61.3	0.0	0.0
Incr Delay (d2), s/veh	1.1	0.0	0.0	0.2	0.0	0.0		10.3	0.5	0.5	9.9	1.3	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	0.0	0.0	1.5	0.0	0.0		0.8	4.4	4.6	0.5	0.5	0.5
LnGrp Delay(d),s/veh	55.3	0.0	0.0	51.0	0.0	0.0		72.0	5.4	5.4	71.1	1.3	1.3
LnGrp LOS	E			D				E	A	A	E	A	A
Approach Vol, veh/h		140			48				816			1420	
Approach Delay, s/veh		55.3			51.0				7.0			1.9	
Approach LOS		E			D				A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	6.4	100.3		19.3	5.9	100.8		19.3
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	16.6	* 63		32.1	16.6	62.2		32.1
Max Q Clear Time (g_c+I1), s	13.4	2.0		13.3	2.9	10.7		5.3
Green Ext Time (p_c), s	0.0	22.2		0.4	0.0	8.1		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	7.7
HCM 2010 LOS	A

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	31	29	34	249	26	88	9	44	710	272	15	130	1024	46
Future Volume (veh/h)	31	29	34	249	26	88	9	44	710	272	15	130	1024	46
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.96		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	38	36	30	265	28	66		49	789	214		140	1101	34
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.81	0.81	0.81	0.94	0.94	0.94		0.90	0.90	0.90		0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	35	31	13	279	24	532		191	1807	485		164	2186	67
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35		0.04	0.15	0.15		0.09	0.43	0.43
Sat Flow, veh/h	0	88	36	657	69	1517		1774	3968	1066		1774	5067	156
Grp Volume(v), veh/h	104	0	0	293	0	66		49	673	330		140	736	399
Grp Sat Flow(s),veh/h/ln	124	0	0	726	0	1517		1774	1695	1644		1774	1695	1834
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	4.1		3.8	25.3	25.6		10.9	22.1	22.1
Cycle Q Clear(g_c), s	49.1	0.0	0.0	49.1	0.0	4.1		3.8	25.3	25.6		10.9	22.1	22.1
Prop In Lane	0.37		0.29	0.90		1.00		1.00		0.65		1.00		0.09
Lane Grp Cap(c), veh/h	79	0	0	304	0	532		191	1544	749		164	1463	791
V/C Ratio(X)	1.32	0.00	0.00	0.97	0.00	0.12		0.26	0.44	0.44		0.85	0.50	0.50
Avail Cap(c_a), veh/h	79	0	0	304	0	532		198	1544	749		274	1463	791
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.33	0.33	0.33		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.93	0.93	0.93		0.79	0.79	0.79
Uniform Delay (d), s/veh	43.8	0.0	0.0	48.7	0.0	30.9		62.0	43.1	43.3		62.6	28.9	28.9
Incr Delay (d2), s/veh	209.4	0.0	0.0	41.9	0.0	0.0		0.2	0.8	1.8		4.8	1.0	1.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.6	0.0	0.0	14.8	0.0	1.7		1.9	12.1	12.0		5.5	10.5	11.6
LnGrp Delay(d),s/veh	253.2	0.0	0.0	90.5	0.0	30.9		62.3	44.0	45.0		67.4	29.9	30.7
LnGrp LOS	F			F		C		E	D	D		E	C	C
Approach Vol, veh/h		104			359				1052				1275	
Approach Delay, s/veh		253.2			79.6				45.1				34.3	
Approach LOS		F			E				D				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.3	68.7		54.0	20.0	66.0		54.0
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	12.6	35.1		49.1	15.6	* 60		49.1
Max Q Clear Time (g_c+I1), s	12.9	27.6		51.1	5.8	24.1		51.1
Green Ext Time (p_c), s	0.1	6.5		0.0	0.0	20.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	52.4
HCM 2010 LOS	D

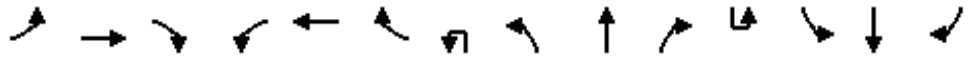
Notes

Intersection	
Intersection Delay, s/veh	11.3
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	58	41	203	68	12	83	38	90	6	83	2
Future Vol, veh/h	0	58	41	203	68	12	83	38	90	6	83	2
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	88	62	233	78	14	91	42	99	7	102	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.6	12.9	10.9	9.8
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	39%	0%	72%	7%
Vol Thru, %	18%	59%	24%	91%
Vol Right, %	43%	41%	4%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	211	99	283	91
LT Vol	83	0	203	6
Through Vol	38	58	68	83
RT Vol	90	41	12	2
Lane Flow Rate	232	150	325	112
Geometry Grp	1	1	1	1
Degree of Util (X)	0.336	0.214	0.472	0.174
Departure Headway (Hd)	5.21	5.13	5.222	5.583
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	691	699	690	641
Service Time	3.243	3.166	3.251	3.622
HCM Lane V/C Ratio	0.336	0.215	0.471	0.175
HCM Control Delay	10.9	9.6	12.9	9.8
HCM Lane LOS	B	A	B	A
HCM 95th-tile Q	1.5	0.8	2.5	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	87	48	186	104	46	129	17	201	778	128	8	176	940	182
Future Volume (veh/h)	87	48	186	104	46	129	17	201	778	128	8	176	940	182
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	93	51	158	113	50	98		221	855	99		185	989	152
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	246	92	284	190	130	255		473	2526	291		207	1393	604
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23		0.27	0.55	0.55		0.23	0.79	0.79
Sat Flow, veh/h	1224	391	1210	1156	553	1085		1774	4619	532		1774	3539	1534
Grp Volume(v), veh/h	93	0	209	113	0	148		221	626	328		185	989	152
Grp Sat Flow(s),veh/h/ln	1224	0	1600	1156	0	1638		1774	1695	1761		1774	1770	1534
Q Serve(g_s), s	9.7	0.0	16.1	13.3	0.0	10.6		14.6	14.4	14.5		14.1	18.9	3.7
Cycle Q Clear(g_c), s	20.3	0.0	16.1	29.4	0.0	10.6		14.6	14.4	14.5		14.1	18.9	3.7
Prop In Lane	1.00		0.76	1.00		0.66		1.00		0.30		1.00		1.00
Lane Grp Cap(c), veh/h	246	0	376	190	0	385		473	1854	963		207	1393	604
V/C Ratio(X)	0.38	0.00	0.56	0.59	0.00	0.38		0.47	0.34	0.34		0.89	0.71	0.25
Avail Cap(c_a), veh/h	396	0	573	332	0	586		473	1854	963		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.91	0.91	0.91
Uniform Delay (d), s/veh	53.6	0.0	47.1	60.1	0.0	45.1		43.0	17.6	17.7		52.8	11.0	9.4
Incr Delay (d2), s/veh	0.7	0.0	1.0	2.2	0.0	0.5		0.3	0.5	1.0		4.8	2.8	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.3	0.0	7.2	4.4	0.0	4.9		7.2	6.8	7.3		7.2	9.3	1.7
LnGrp Delay(d),s/veh	54.3	0.0	48.1	62.3	0.0	45.5		43.3	18.1	18.6		57.6	13.9	10.3
LnGrp LOS	D		D	E		D		D	B	B		E	B	B
Approach Vol, veh/h		302			261				1175				1326	
Approach Delay, s/veh		50.0			52.8				23.0				19.6	
Approach LOS		D			D				C				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	81.5		37.8	42.2	60.0		37.8
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	36.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	16.1	16.5		22.3	16.6	20.9		31.4
Green Ext Time (p_c), s	0.2	7.7		1.4	0.1	11.0		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	26.7
HCM 2010 LOS	C

Notes

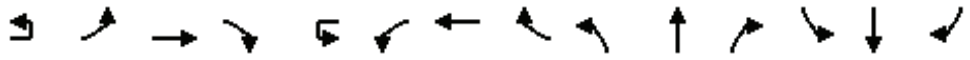


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	347	992	61	449	862	108	21	82	307	355	259	649	279
Future Volume (veh/h)	15	347	992	61	449	862	108	21	82	307	355	259	649	279
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		361	1033	45	478	917	81		87	327	266	301	755	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		568	1177	51	530	1039	92		108	676	530	322	833	249
Arrive On Green		0.16	0.34	0.34	0.15	0.32	0.32		0.06	0.19	0.19	0.18	0.31	0.31
Sat Flow, veh/h		3442	3449	150	3442	3278	290		1774	3539	1499	1774	2671	800
Grp Volume(v), veh/h		361	530	548	478	495	503		87	327	266	301	500	481
Grp Sat Flow(s),veh/h/ln		1721	1770	1830	1721	1770	1798		1774	1770	1499	1774	1770	1701
Q Serve(g_s), s		14.6	42.1	42.1	20.4	39.7	39.7		7.2	12.3	21.1	25.0	40.5	40.5
Cycle Q Clear(g_c), s		14.6	42.1	42.1	20.4	39.7	39.7		7.2	12.3	21.1	25.0	40.5	40.5
Prop In Lane		1.00		0.08	1.00		0.16		1.00		1.00	1.00		0.47
Lane Grp Cap(c), veh/h		568	604	624	530	561	570		108	676	530	322	552	530
V/C Ratio(X)		0.64	0.88	0.88	0.90	0.88	0.88		0.81	0.48	0.50	0.93	0.91	0.91
Avail Cap(c_a), veh/h		691	710	734	691	710	722		356	947	645	356	552	530
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		58.2	46.3	46.3	62.1	48.4	48.5		69.4	53.9	39.0	60.3	49.4	49.4
Incr Delay (d2), s/veh		0.7	11.1	10.8	10.9	10.6	10.4		5.3	0.4	0.5	28.8	18.6	19.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.0	22.5	23.2	10.5	21.0	21.4		3.7	6.1	8.8	14.9	22.7	21.9
LnGrp Delay(d),s/veh		58.9	57.5	57.2	73.0	59.0	58.9		74.7	54.3	39.5	89.1	67.9	68.5
LnGrp LOS		E	E	E	E	E	E		E	D	D	F	E	E
Approach Vol, veh/h			1439			1476				680			1282	
Approach Delay, s/veh			57.7			63.5				51.1			73.1	
Approach LOS			E			E				D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.4	56.7	13.5	51.9	30.4	53.8	31.6	33.8
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I2), s	22.4	44.1	9.2	42.5	16.6	41.7	27.0	23.1
Green Ext Time (p_c), s	0.6	6.9	0.1	0.0	0.6	5.7	0.2	2.1

Intersection Summary	
HCM 2010 Ctrl Delay	62.6
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	66	1243	140	47	76	1277	98	88	52	38	52	131	140
Future Volume (veh/h)	6	66	1243	140	47	76	1277	98	88	52	38	52	131	140
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		69	1308	103		81	1359	73	99	58	31	57	144	114
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		222	1665	131		102	1435	77	114	67	36	56	142	113
Arrive On Green		0.13	0.50	0.50		0.02	0.14	0.14	0.12	0.12	0.12	0.18	0.18	0.18
Sat Flow, veh/h		1774	3325	261		1774	3417	183	927	543	290	314	793	628
Grp Volume(v), veh/h		69	695	716		81	703	729	188	0	0	315	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1816		1774	1770	1830	1760	0	0	1735	0	0
Q Serve(g_s), s		5.0	45.2	45.5		6.4	55.1	55.3	14.7	0.0	0.0	25.1	0.0	0.0
Cycle Q Clear(g_c), s		5.0	45.2	45.5		6.4	55.1	55.3	14.7	0.0	0.0	25.1	0.0	0.0
Prop In Lane		1.00		0.14		1.00		0.10	0.53		0.16	0.18		0.36
Lane Grp Cap(c), veh/h		222	886	909		102	743	769	217	0	0	311	0	0
V/C Ratio(X)		0.31	0.78	0.79		0.80	0.95	0.95	0.87	0.00	0.00	1.01	0.00	0.00
Avail Cap(c_a), veh/h		222	886	909		172	743	769	315	0	0	311	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.48	0.48	0.48	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		55.7	28.7	28.8		67.9	58.7	58.8	60.2	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		0.3	6.9	6.9		2.6	13.2	13.3	11.6	0.0	0.0	54.3	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.5	23.7	24.4		3.2	29.8	30.9	7.9	0.0	0.0	16.7	0.0	0.0
LnGrp Delay(d),s/veh		56.0	35.6	35.7		70.4	71.9	72.1	71.8	0.0	0.0	111.8	0.0	0.0
LnGrp LOS		E	D	D		E	E	E	E			F		
Approach Vol, veh/h			1480				1513			188			315	
Approach Delay, s/veh			36.6				71.9			71.8			111.8	
Approach LOS			D				E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.4	75.4		30.0	22.8	65.0		22.2
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	19.4	47.5		27.1	7.0	57.3		16.7
Green Ext Time (p_c), s	0.0	7.2		0.0	0.0	1.1		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	60.6
HCM 2010 LOS	E

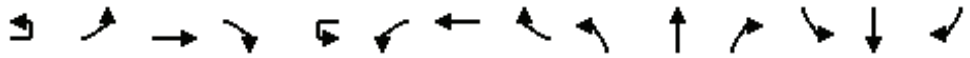
Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	270	858	223	8	240	938	319	13	265	530	98	31	380	653	177
Future Volume (veh/h)	3	270	858	223	8	240	938	319	13	265	530	98	31	380	653	177
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.96		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		293	933	169		267	1042	267		294	589	77		427	734	139
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		319	1055	191		579	1397	358		343	881	113		481	830	346
Arrive On Green		0.06	0.12	0.12		0.06	0.12	0.12		0.20	0.39	0.39		0.14	0.23	0.23
Sat Flow, veh/h		1774	2973	538		3442	3994	1022		3442	4538	584		3442	3539	1474
Grp Volume(v), veh/h		293	555	547		267	884	425		294	438	228		427	734	139
Grp Sat Flow(s),veh/h/ln		1774	1770	1741		1721	1695	1626		1721	1695	1732		1721	1770	1474
Q Serve(g_s), s		23.0	43.3	43.3		10.5	35.3	35.4		11.6	14.9	15.3		17.1	28.0	11.2
Cycle Q Clear(g_c), s		23.0	43.3	43.3		10.5	35.3	35.4		11.6	14.9	15.3		17.1	28.0	11.2
Prop In Lane		1.00		0.31		1.00		0.63		1.00		0.34		1.00		1.00
Lane Grp Cap(c), veh/h		319	628	618		579	1186	569		343	659	336		481	830	346
V/C Ratio(X)		0.92	0.88	0.88		0.46	0.75	0.75		0.86	0.66	0.68		0.89	0.88	0.40
Avail Cap(c_a), veh/h		362	628	618		579	1186	569		556	753	385		629	862	359
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.25	0.25	0.25		0.86	0.86	0.86		0.94	0.94	0.94		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.8	59.0	59.0		60.0	55.9	55.9		55.1	39.0	39.2		59.1	51.7	45.3
Incr Delay (d2), s/veh		8.3	4.9	5.0		0.2	3.7	7.5		3.8	2.4	5.2		10.1	11.1	1.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		12.1	22.1	21.8		5.0	17.2	17.2		5.7	7.1	7.7		8.8	14.9	4.7
LnGrp Delay(d),s/veh		73.1	63.8	64.0		60.2	59.6	63.4		58.9	41.5	44.3		69.2	62.9	46.6
LnGrp LOS		E	E	E		E	E	E		E	D	D		E	E	D
Approach Vol, veh/h			1395				1576				960				1300	
Approach Delay, s/veh			65.8				60.7				47.5				63.2	
Approach LOS			E				E				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.9	55.0	18.3	37.7	29.6	54.4	24.0	32.1
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	14.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	12.5	45.3	13.6	30.0	25.0	37.4	19.1	17.3
Green Ext Time (p_c), s	0.1	2.7	0.4	2.6	0.2	0.0	0.5	5.4

Intersection Summary	
HCM 2010 Ctrl Delay	60.3
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	7	126	1016	85	30	143	1298	140	116	43	119	229	68	206
Future Volume (veh/h)	7	126	1016	85	30	143	1298	140	116	43	119	229	68	206
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.99	0.98		0.94	0.97		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		137	1104	64		146	1324	100	129	48	92	260	77	164
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.92	0.92	0.92		0.98	0.98	0.98	0.90	0.90	0.90	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		184	2574	149		193	2538	192	375	374	300	414	396	325
Arrive On Green		0.11	1.00	1.00		0.11	1.00	1.00	0.07	0.20	0.20	0.08	0.21	0.21
Sat Flow, veh/h		3442	4913	285		3442	4818	364	1774	1863	1494	1774	1863	1530
Grp Volume(v), veh/h		137	762	406		146	932	492	129	48	92	260	77	164
Grp Sat Flow(s),veh/h/ln		1721	1695	1807		1721	1695	1792	1774	1863	1494	1774	1863	1530
Q Serve(g_s), s		5.4	0.0	0.0		5.8	0.0	0.0	8.0	3.0	7.3	11.6	4.8	13.2
Cycle Q Clear(g_c), s		5.4	0.0	0.0		5.8	0.0	0.0	8.0	3.0	7.3	11.6	4.8	13.2
Prop In Lane		1.00		0.16		1.00		0.20	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		184	1776	947		193	1785	944	375	374	300	414	396	325
V/C Ratio(X)		0.75	0.43	0.43		0.76	0.52	0.52	0.34	0.13	0.31	0.63	0.19	0.50
Avail Cap(c_a), veh/h		334	1776	947		334	1785	944	396	573	460	414	573	471
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.42	0.42	0.42		0.65	0.65	0.65	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		61.6	0.0	0.0		61.2	0.0	0.0	40.1	45.9	47.7	43.4	45.3	48.6
Incr Delay (d2), s/veh		1.0	0.3	0.6		1.5	0.7	1.3	0.2	0.1	0.2	2.3	0.1	0.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.6	0.1	0.2		2.8	0.2	0.4	3.9	1.5	3.1	8.2	2.5	5.7
LnGrp Delay(d),s/veh		62.6	0.3	0.6		62.7	0.7	1.3	40.3	46.0	47.9	45.7	45.4	49.1
LnGrp LOS		E	A	A		E	A	A	D	D	D	D	D	D
Approach Vol, veh/h			1305				1570			269			501	
Approach Delay, s/veh			6.9				6.7			43.9			46.8	
Approach LOS			A				A			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.2	78.8	14.4	34.6	11.9	79.1	16.0	33.0
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	13.6	* 53	11.6	43.1	13.6	52.6	11.6	43.1
Max Q Clear Time (g_c+I1), s	7.8	2.0	10.0	15.2	7.4	2.0	13.6	9.3
Green Ext Time (p_c), s	0.1	20.4	0.0	0.6	0.1	17.8	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	15.0
HCM 2010 LOS	B

Notes

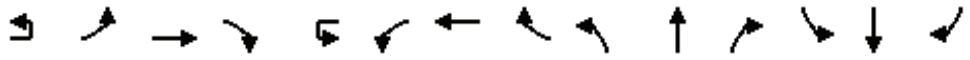


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	38	119	1171	92	301	1550	155	79	109	205	237	410	183
Future Volume (veh/h)	38	119	1171	92	301	1550	155	79	109	205	237	410	183
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.95	1.00		0.92	1.00		0.95
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		127	1246	68	327	1685	117	89	122	195	269	466	147
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.94	0.94	0.94	0.92	0.92	0.92	0.89	0.89	0.89	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		150	1850	101	352	2368	164	134	368	603	317	887	376
Arrive On Green		0.08	0.38	0.38	0.20	0.49	0.49	0.04	0.20	0.20	0.09	0.25	0.25
Sat Flow, veh/h		1774	4924	269	1774	4839	335	3442	1863	1464	3442	3539	1500
Grp Volume(v), veh/h		127	858	456	327	1180	622	89	122	195	269	466	147
Grp Sat Flow(s),veh/h/ln		1774	1695	1802	1774	1695	1785	1721	1863	1464	1721	1770	1500
Q Serve(g_s), s		9.9	29.6	29.6	25.4	38.2	38.3	3.6	7.9	13.0	10.8	15.9	11.4
Cycle Q Clear(g_c), s		9.9	29.6	29.6	25.4	38.2	38.3	3.6	7.9	13.0	10.8	15.9	11.4
Prop In Lane		1.00		0.15	1.00		0.19	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		150	1274	677	352	1659	873	134	368	603	317	887	376
V/C Ratio(X)		0.84	0.67	0.67	0.93	0.71	0.71	0.66	0.33	0.32	0.85	0.53	0.39
Avail Cap(c_a), veh/h		236	1274	677	527	1659	873	310	494	702	359	988	419
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.87	0.87	0.87	0.68	0.68	0.68	0.59	0.59	0.59	1.00	1.00	1.00
Uniform Delay (d), s/veh		63.2	36.5	36.5	55.2	28.0	28.0	66.4	48.2	29.5	62.6	45.3	43.6
Incr Delay (d2), s/veh		7.7	2.5	4.6	10.4	1.8	3.4	1.2	0.1	0.1	14.3	0.2	0.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.2	14.3	15.6	13.5	18.3	19.7	1.7	4.1	5.2	5.7	7.8	4.8
LnGrp Delay(d),s/veh		70.8	39.0	41.1	65.6	29.8	31.4	67.6	48.4	29.6	76.9	45.5	43.8
LnGrp LOS		E	D	D	E	C	C	E	D	C	E	D	D
Approach Vol, veh/h			1441			2129			406			882	
Approach Delay, s/veh			42.5			35.8			43.5			54.8	
Approach LOS			D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	32.2	58.0	9.9	40.0	16.3	73.9	17.3	32.5
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	41.6	* 28	12.6	39.1	18.6	50.6	14.6	37.1
Max Q Clear Time (g_c+I1), s	27.4	31.6	5.6	17.9	11.9	40.3	12.8	15.0
Green Ext Time (p_c), s	0.4	0.0	0.1	2.3	0.1	9.6	0.1	0.8

Intersection Summary	
HCM 2010 Ctrl Delay	41.8
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	55	1524	54	8	112	1979	30	14	16	77	39	46	49
Future Volume (veh/h)	13	55	1524	54	8	112	1979	30	14	16	77	39	46	49
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.95	1.00		0.95
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		60	1657	42		117	2061	22	15	17	59	46	55	40
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.92	0.92	0.92		0.96	0.96	0.96	0.92	0.92	0.92	0.84	0.84	0.84
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		440	2964	75		139	2097	22	28	31	109	54	64	47
Arrive On Green		0.33	0.77	0.77		0.16	0.81	0.81	0.11	0.11	0.11	0.10	0.10	0.10
Sat Flow, veh/h		1774	5100	129		1774	5187	55	263	298	1035	560	670	487
Grp Volume(v), veh/h		60	1101	598		117	1347	736	91	0	0	141	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1840		1774	1695	1852	1596	0	0	1717	0	0
Q Serve(g_s), s		3.3	18.2	18.2		9.0	51.8	52.1	7.6	0.0	0.0	11.3	0.0	0.0
Cycle Q Clear(g_c), s		3.3	18.2	18.2		9.0	51.8	52.1	7.6	0.0	0.0	11.3	0.0	0.0
Prop In Lane		1.00		0.07		1.00		0.03	0.16		0.65	0.33		0.28
Lane Grp Cap(c), veh/h		440	1970	1069		139	1371	749	169	0	0	165	0	0
V/C Ratio(X)		0.14	0.56	0.56		0.84	0.98	0.98	0.54	0.00	0.00	0.86	0.00	0.00
Avail Cap(c_a), veh/h		440	1970	1069		248	1371	749	400	0	0	210	0	0
HCM Platoon Ratio		1.33	1.33	1.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.72	0.72	0.72		0.74	0.74	0.74	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		36.4	8.7	8.7		58.2	12.9	13.0	59.4	0.0	0.0	62.3	0.0	0.0
Incr Delay (d2), s/veh		0.0	0.8	1.5		4.0	17.1	24.6	1.0	0.0	0.0	19.9	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	8.6	9.6		4.5	26.1	30.1	3.4	0.0	0.0	6.3	0.0	0.0
LnGrp Delay(d),s/veh		36.4	9.6	10.2		62.2	30.1	37.5	60.4	0.0	0.0	82.2	0.0	0.0
LnGrp LOS		D	A	B		E	C	D	E			F		
Approach Vol, veh/h			1759				2200			91			141	
Approach Delay, s/veh			10.7				34.3			60.4			82.2	
Approach LOS			B				C			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.3	86.7		19.7	40.0	62.0		18.3
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 5.4		4.9
Max Green Setting (Gmax), s	10.6	48.7		35.1	11.6	* 57		17.1
Max Q Clear Time (g_c+I1), s	11.3	20.2		9.6	5.3	54.1		13.3
Green Ext Time (p_c), s	0.1	21.8		0.3	0.0	2.4		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	26.6
HCM 2010 LOS	C

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1472	145	400	2005	294	109	49	284	193	150	18
Future Volume (veh/h)	20	1472	145	400	2005	294	109	49	284	193	150	18
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1518	104	412	2067	212	90	104	275	214	167	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	2017	138	400	3276	1018	163	171	993	191	182	15
Arrive On Green	0.03	0.87	0.87	0.23	0.64	0.64	0.09	0.09	0.09	0.11	0.11	0.11
Sat Flow, veh/h	1774	4641	318	1774	5085	1581	1774	1863	3030	1774	1688	142
Grp Volume(v), veh/h	21	1036	586	412	2067	212	90	104	275	214	0	181
Grp Sat Flow(s),veh/h/ln	1774	1583	1793	1774	1695	1581	1774	1863	1515	1774	0	1830
Q Serve(g_s), s	1.6	17.3	17.4	31.6	34.1	7.7	6.8	7.5	9.5	15.1	0.0	13.7
Cycle Q Clear(g_c), s	1.6	17.3	17.4	31.6	34.1	7.7	6.8	7.5	9.5	15.1	0.0	13.7
Prop In Lane	1.00		0.18	1.00		1.00	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	28	1376	779	400	3276	1018	163	171	993	191	0	197
V/C Ratio(X)	0.74	0.75	0.75	1.03	0.63	0.21	0.55	0.61	0.28	1.12	0.00	0.92
Avail Cap(c_a), veh/h	134	1376	779	400	3276	1018	318	334	1258	191	0	197
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.77	0.77	0.77	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	6.3	6.3	54.2	14.9	10.2	60.8	61.1	35.8	62.5	0.0	61.8
Incr Delay (d2), s/veh	10.4	3.0	5.2	52.6	0.9	0.5	2.2	2.6	0.1	100.4	0.0	40.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	7.5	8.9	21.3	16.2	3.5	3.4	4.0	4.0	12.7	0.0	9.2
LnGrp Delay(d),s/veh	77.9	9.3	11.5	106.8	15.9	10.7	63.0	63.7	36.0	162.9	0.0	102.7
LnGrp LOS	E	A	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1643			2691			469			395	
Approach Delay, s/veh		11.0			29.4			47.3			135.3	
Approach LOS		B			C			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	66.2		20.0	6.6	95.6		17.8
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	3.6	19.4		17.1	3.6	36.1		11.5
Green Ext Time (p_c), s	0.0	21.5		0.0	0.0	26.7		1.3

Intersection Summary	
HCM 2010 Ctrl Delay	33.2
HCM 2010 LOS	C

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	0	2353	0	0	0	0	0	1	357
Future Volume (veh/h)	0	0	0	0	2353	0	0	0	0	0	1	357
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		0.98
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	2451	0				0	1	334
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.96	0.96	0.96				0.91	0.91	0.91
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	3418	1064				0	297	436
Arrive On Green				0.00	0.67	0.00				0.00	0.16	0.16
Sat Flow, veh/h				0	5253	1583				0	1863	2729
Grp Volume(v), veh/h				0	2451	0				0	1	334
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1364
Q Serve(g_s), s				0.0	16.3	0.0				0.0	0.0	6.3
Cycle Q Clear(g_c), s				0.0	16.3	0.0				0.0	0.0	6.3
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	3418	1064				0	297	436
V/C Ratio(X)				0.00	0.72	0.00				0.00	0.00	0.77
Avail Cap(c_a), veh/h				0	4877	1518				0	1240	1816
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	5.6	0.0				0.0	18.9	21.5
Incr Delay (d2), s/veh				0.0	0.1	0.0				0.0	0.0	1.1
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	7.5	0.0				0.0	0.0	2.4
LnGrp Delay(d),s/veh				0.0	5.7	0.0				0.0	18.9	22.6
LnGrp LOS					A						B	C
Approach Vol, veh/h					2451						335	
Approach Delay, s/veh					5.7						22.6	
Approach LOS					A						C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				13.0		40.5		
Change Period (Y+Rc), s				4.5		4.5		
Max Green Setting (Gmax), s				35.6		51.3		
Max Q Clear Time (g_c+I1), s				8.3		18.3		
Green Ext Time (p_c), s				0.3		17.6		

Intersection Summary	
HCM 2010 Ctrl Delay	7.7
HCM 2010 LOS	A

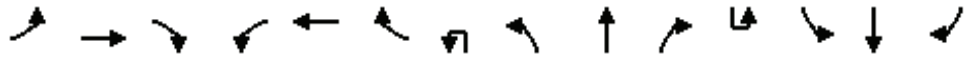
Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1506	338	0	0	0	0	1	485	0	0	0
Future Volume (veh/h)	0	1506	338	0	0	0	0	1	485	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	1585	0				0	1	453			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.95	0.95	0.95				0.91	0.91	0.91			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	2537	790				0	431	623			
Arrive On Green	0.00	0.50	0.00				0.00	0.23	0.23			
Sat Flow, veh/h	0	5253	1583				0	1863	2694			
Grp Volume(v), veh/h	0	1585	0				0	1	453			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1347			
Q Serve(g_s), s	0.0	9.2	0.0				0.0	0.0	6.3			
Cycle Q Clear(g_c), s	0.0	9.2	0.0				0.0	0.0	6.3			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	2537	790				0	431	623			
V/C Ratio(X)	0.00	0.62	0.00				0.00	0.00	0.73			
Avail Cap(c_a), veh/h	0	6295	1960				0	2075	3002			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	7.4	0.0				0.0	11.9	14.4			
Incr Delay (d2), s/veh	0.0	0.1	0.0				0.0	0.0	0.6			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	4.3	0.0				0.0	0.0	2.4			
LnGrp Delay(d),s/veh	0.0	7.5	0.0				0.0	11.9	15.0			
LnGrp LOS		A						B	B			
Approach Vol, veh/h		1585						454				
Approach Delay, s/veh		7.5						15.0				
Approach LOS		A						B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		26.0						14.4
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						45.0
Max Q Clear Time (g_c+I1), s		11.2						8.3
Green Ext Time (p_c), s		9.0						1.1

Intersection Summary	
HCM 2010 Ctrl Delay	9.1
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	171	250	117	342	319	109	4	68	581	150	8	97	915	207
Future Volume (veh/h)	171	250	117	342	319	109	4	68	581	150	8	97	915	207
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.95		1.00		0.94		1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	190	278	91	402	375	90		71	605	109		100	943	149
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.90	0.90	0.90	0.85	0.85	0.85		0.96	0.96	0.96		0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	228	351	119	430	429	365		90	1398	409		249	1320	581
Arrive On Green	0.20	0.20	0.20	0.24	0.24	0.24		0.05	0.28	0.28		0.14	0.37	0.37
Sat Flow, veh/h	1150	1775	600	1774	1770	1509		1774	5085	1487		1774	3539	1559
Grp Volume(v), veh/h	298	0	261	402	375	90		71	605	109		100	943	149
Grp Sat Flow(s),veh/h/ln	1805	0	1720	1774	1770	1509		1774	1695	1487		1774	1770	1559
Q Serve(g_s), s	22.2	0.0	20.1	31.1	28.5	6.7		5.5	13.7	8.0		7.2	31.9	9.3
Cycle Q Clear(g_c), s	22.2	0.0	20.1	31.1	28.5	6.7		5.5	13.7	8.0		7.2	31.9	9.3
Prop In Lane	0.64		0.35	1.00		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	357	0	340	430	429	365		90	1398	409		249	1320	581
V/C Ratio(X)	0.83	0.00	0.77	0.94	0.88	0.25		0.79	0.43	0.27		0.40	0.71	0.26
Avail Cap(c_a), veh/h	401	0	382	445	444	378		134	1398	409		249	1320	581
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.54	0.54	0.54		1.00	1.00	1.00		0.41	0.41	0.41
Uniform Delay (d), s/veh	53.9	0.0	53.1	52.0	51.0	42.8		65.7	41.8	39.7		54.8	37.5	30.4
Incr Delay (d2), s/veh	11.6	0.0	6.8	17.0	9.7	0.1		9.2	1.0	1.6		0.2	1.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.3	0.0	10.2	17.2	15.1	2.8		3.0	6.6	3.5		3.5	15.8	4.0
LnGrp Delay(d),s/veh	65.6	0.0	59.8	69.0	60.7	42.8		74.9	42.7	41.3		55.0	38.9	30.9
LnGrp LOS	E		E	E	E	D		E	D	D		D	D	C
Approach Vol, veh/h		559			867				785				1192	
Approach Delay, s/veh		62.9			62.7				45.5				39.3	
Approach LOS		E			E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	44.0		32.6	11.5	57.1		38.8
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	15.6	* 39		31.1	10.6	44.1		35.1
Max Q Clear Time (g_c+I1), s	9.2	15.7		24.2	7.5	33.9		33.1
Green Ext Time (p_c), s	0.1	5.8		1.4	0.0	8.9		0.8

Intersection Summary	
HCM 2010 Ctrl Delay	50.5
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	4.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	108	46	161	255	28	100
Future Vol, veh/h	108	46	161	255	28	100
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	117	50	175	277	30	109

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	167	0	769	142
Stage 1	-	-	-	-	142	-
Stage 2	-	-	-	-	627	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1411	-	369	906
Stage 1	-	-	-	-	885	-
Stage 2	-	-	-	-	532	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1411	-	315	906
Mov Cap-2 Maneuver	-	-	-	-	315	-
Stage 1	-	-	-	-	755	-
Stage 2	-	-	-	-	532	-

Approach	EB	WB	NB
HCM Control Delay, s	0	3.1	12.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	642	-	-	1411	-
HCM Lane V/C Ratio	0.217	-	-	0.124	-
HCM Control Delay (s)	12.2	-	-	7.9	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.8	-	-	0.4	-

Appendix F
Trigger Analysis and Peak Hour Intersection LOS Worksheets – Existing Plus Project with Mitigation Conditions

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	131	9	106	520	320	166	1023	67	6
Future Volume (veh/h)	6	208	437	131	9	106	520	320	166	1023	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	97		114	559	241	171	1055	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	966	202		276	801	344	233	1103	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.34	0.34	0.09	0.43	0.43	
Sat Flow, veh/h		3442	2897	606		3442	2380	1023	3442	3443	157	
Grp Volume(v), veh/h		219	280	277		114	415	385	171	542	561	
Grp Sat Flow(s),veh/h/ln		1721	1770	1734		1721	1770	1634	1721	1770	1830	
Q Serve(g_s), s		6.7	13.5	13.7		3.4	22.0	22.1	5.2	32.0	32.1	
Cycle Q Clear(g_c), s		6.7	13.5	13.7		3.4	22.0	22.1	5.2	32.0	32.1	
Prop In Lane		1.00		0.35		1.00		0.63	1.00		0.09	
Lane Grp Cap(c), veh/h		283	590	578		276	596	550	233	567	586	
V/C Ratio(X)		0.77	0.47	0.48		0.41	0.70	0.70	0.73	0.96	0.96	
Avail Cap(c_a), veh/h		433	590	578		276	596	550	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.86	0.86	0.86	
Uniform Delay (d), s/veh		48.6	28.5	28.6		47.3	31.1	31.1	48.2	30.2	30.3	
Incr Delay (d2), s/veh		1.9	2.7	2.8		0.4	6.6	7.2	1.5	24.0	23.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.0	7.0		1.6	11.8	11.0	2.5	19.3	19.8	
LnGrp Delay(d),s/veh		50.5	31.2	31.4		47.6	37.7	38.3	49.6	54.3	53.8	
LnGrp LOS		D	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			776				914			1274		
Approach Delay, s/veh			36.7				39.2			53.5		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.6	41.0	11.7	41.6	13.3	41.4	13.8	39.5
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	15.7	7.2	14.5	8.7	24.1	9.2	34.1
Green Ext Time (p_c), s	0.0	3.5	0.1	1.6	0.2	2.9	0.0	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	43.2
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	389	100
Future Volume (veh/h)	106	389	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	442	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1013	182
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	2977	534
Grp Volume(v), veh/h	120	261	261
Grp Sat Flow(s),veh/h/ln	1774	1770	1742
Q Serve(g_s), s	7.2	12.3	12.5
Cycle Q Clear(g_c), s	7.2	12.3	12.5
Prop In Lane	1.00		0.31
Lane Grp Cap(c), veh/h	147	602	593
V/C Ratio(X)	0.82	0.43	0.44
Avail Cap(c_a), veh/h	158	602	593
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.6	27.6
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.1	6.0
LnGrp Delay(d),s/veh	72.5	27.8	27.8
LnGrp LOS	E	C	C
Approach Vol, veh/h		642	
Approach Delay, s/veh		36.2	
Approach LOS		D	
Timer			

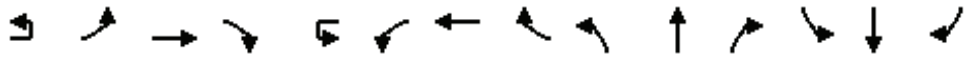


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	199	817	74	345	777	100	15	149	408	330	2	154	279	294
Future Volume (veh/h)	5	199	817	74	345	777	100	15	149	408	330	2	154	279	294
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		207	851	54	367	827	75		180	492	398		169	307	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		412	1070	68	442	1006	91		212	905	608		201	484	345
Arrive On Green		0.12	0.32	0.32	0.13	0.31	0.31		0.12	0.26	0.26		0.11	0.25	0.25
Sat Flow, veh/h		3442	3367	214	3442	3269	296		1774	3539	1583		1774	1940	1385
Grp Volume(v), veh/h		207	447	458	367	448	454		180	492	398		169	279	254
Grp Sat Flow(s),veh/h/ln		1721	1770	1811	1721	1770	1796		1774	1770	1583		1774	1770	1555
Q Serve(g_s), s		6.0	24.7	24.7	11.1	25.1	25.1		10.6	12.9	22.1		10.0	15.1	15.7
Cycle Q Clear(g_c), s		6.0	24.7	24.7	11.1	25.1	25.1		10.6	12.9	22.1		10.0	15.1	15.7
Prop In Lane		1.00		0.12	1.00		0.17		1.00		1.00		1.00		0.89
Lane Grp Cap(c), veh/h		412	563	576	442	545	553		212	905	608		201	441	388
V/C Ratio(X)		0.50	0.80	0.80	0.83	0.82	0.82		0.85	0.54	0.65		0.84	0.63	0.65
Avail Cap(c_a), veh/h		964	991	1015	964	991	1006		497	1322	794		497	661	581
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		44.2	33.3	33.3	45.5	34.3	34.3		46.2	34.4	27.1		46.6	35.8	36.1
Incr Delay (d2), s/veh		0.4	3.1	3.1	1.6	3.2	3.1		3.6	0.3	0.8		3.6	1.2	1.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.9	12.5	12.8	5.4	12.7	12.8		5.4	6.3	9.8		5.1	7.5	6.9
LnGrp Delay(d),s/veh		44.5	36.5	36.4	47.1	37.5	37.5		49.8	34.8	28.0		50.2	37.0	37.6
LnGrp LOS		D	D	D	D	D	D		D	C	C		D	D	D
Approach Vol, veh/h			1112			1269				1070				702	
Approach Delay, s/veh			37.9			40.3				34.8				40.4	
Approach LOS			D			D				C				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.1	39.7	17.2	32.0	18.5	39.4	16.5	32.7
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	13.1	26.7	12.6	17.7	8.0	27.1	12.0	24.1
Green Ext Time (p_c), s	0.6	7.3	0.2	2.8	0.3	5.9	0.2	3.2

Intersection Summary	
HCM 2010 Ctrl Delay	38.3
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	43	1100	85	3	50	987	92	184	89	83	60	98	98
Future Volume (veh/h)	13	43	1100	85	3	50	987	92	184	89	83	60	98	98
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		49	1250	67		62	1219	79	271	131	85	76	124	99
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		63	1269	68		79	1285	83	245	119	77	82	134	107
Arrive On Green		0.04	0.37	0.37		0.01	0.13	0.13	0.25	0.25	0.25	0.19	0.19	0.19
Sat Flow, veh/h		1774	3411	183		1774	3369	218	979	473	307	439	717	572
Grp Volume(v), veh/h		49	648	669		62	639	659	487	0	0	299	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1824		1774	1770	1818	1759	0	0	1729	0	0
Q Serve(g_s), s		3.8	50.8	51.0		4.9	50.2	50.4	35.1	0.0	0.0	23.8	0.0	0.0
Cycle Q Clear(g_c), s		3.8	50.8	51.0		4.9	50.2	50.4	35.1	0.0	0.0	23.8	0.0	0.0
Prop In Lane		1.00		0.10		1.00		0.12	0.56		0.17	0.25		0.33
Lane Grp Cap(c), veh/h		63	658	679		79	675	693	441	0	0	323	0	0
V/C Ratio(X)		0.78	0.98	0.99		0.78	0.95	0.95	1.10	0.00	0.00	0.93	0.00	0.00
Avail Cap(c_a), veh/h		122	658	679		122	675	693	441	0	0	347	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.70	0.70	0.70	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.0	43.5	43.6		68.3	59.8	59.9	52.5	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		7.4	31.3	31.4		5.3	18.9	18.9	74.2	0.0	0.0	28.2	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.0	30.6	31.6		2.5	28.2	29.0	26.1	0.0	0.0	13.9	0.0	0.0
LnGrp Delay(d),s/veh		74.4	74.9	75.0		73.5	78.7	78.8	126.7	0.0	0.0	84.2	0.0	0.0
LnGrp LOS		E	E	E		E	E	E	F			F		
Approach Vol, veh/h			1366				1360			487			299	
Approach Delay, s/veh			74.9				78.5			126.7			84.2	
Approach LOS			E				E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.7	58.3		31.0	9.4	59.6		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	6.9	53.0		25.8	5.8	52.4		37.1
Green Ext Time (p_c), s	0.0	0.0		0.3	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	84.3
HCM 2010 LOS	F

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	256	15	186	737	105	256	407	106	2
Future Volume (veh/h)	11	142	662	256	15	186	737	105	256	407	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	201		200	792	79	272	433	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1164	318		255	1426	142	329	716	129	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2727	745		3442	3245	324	3442	2967	536	
Grp Volume(v), veh/h		158	478	459		200	432	439	272	257	255	
Grp Sat Flow(s),veh/h/ln		1721	1770	1701		1721	1770	1798	1721	1770	1734	
Q Serve(g_s), s		5.7	26.7	26.7		7.2	22.8	22.8	9.8	16.2	16.5	
Cycle Q Clear(g_c), s		5.7	26.7	26.7		7.2	22.8	22.8	9.8	16.2	16.5	
Prop In Lane		1.00		0.44		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		213	756	727		255	778	790	329	427	418	
V/C Ratio(X)		0.74	0.63	0.63		0.78	0.56	0.56	0.83	0.60	0.61	
Avail Cap(c_a), veh/h		399	756	727		399	778	790	481	479	469	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.3	28.3		57.3	26.2	26.2	56.0	42.4	42.5	
Incr Delay (d2), s/veh		1.9	4.0	4.2		2.1	2.9	2.8	4.8	0.9	1.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	13.8	13.3		3.5	11.8	12.0	4.9	8.0	8.1	
LnGrp Delay(d),s/veh		60.0	32.3	32.5		59.4	29.0	29.0	60.8	43.3	43.6	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1095				1071			784		
Approach Delay, s/veh			36.4				34.7			49.5		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.8	16.4	37.0	12.2	60.4	18.1	35.3
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	28.7	11.8	34.1	7.7	24.8	13.7	18.5
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.6

Intersection Summary	
HCM 2010 Ctrl Delay	62.9
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	903	101
Future Volume (veh/h)	160	903	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	951	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	845	66
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3316	258
Grp Volume(v), veh/h	168	508	517
Grp Sat Flow(s),veh/h/ln	1774	1770	1804
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	460
V/C Ratio(X)	0.87	1.13	1.13
Avail Cap(c_a), veh/h	220	451	460
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	81.4	81.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	25.9	26.3
LnGrp Delay(d),s/veh	79.8	128.4	128.1
LnGrp LOS	E	F	F
Approach Vol, veh/h		1193	
Approach Delay, s/veh		121.4	
Approach LOS		F	
Timer			

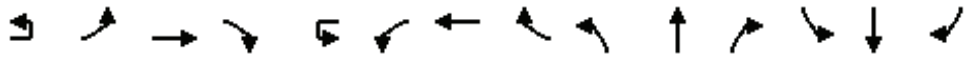


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	347	992	61	449	862	108	21	82	307	355	259	649	279
Future Volume (veh/h)	15	347	992	61	449	862	108	21	82	307	355	259	649	279
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		361	1033	45	478	917	81		87	327	266	301	755	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		568	1177	51	530	1039	92		108	676	530	322	833	249
Arrive On Green		0.16	0.34	0.34	0.15	0.32	0.32		0.06	0.19	0.19	0.18	0.31	0.31
Sat Flow, veh/h		3442	3449	150	3442	3278	290		1774	3539	1499	1774	2671	800
Grp Volume(v), veh/h		361	530	548	478	495	503		87	327	266	301	500	481
Grp Sat Flow(s),veh/h/ln		1721	1770	1830	1721	1770	1798		1774	1770	1499	1774	1770	1701
Q Serve(g_s), s		14.6	42.1	42.1	20.4	39.7	39.7		7.2	12.3	21.1	25.0	40.5	40.5
Cycle Q Clear(g_c), s		14.6	42.1	42.1	20.4	39.7	39.7		7.2	12.3	21.1	25.0	40.5	40.5
Prop In Lane		1.00		0.08	1.00		0.16		1.00		1.00	1.00		0.47
Lane Grp Cap(c), veh/h		568	604	624	530	561	570		108	676	530	322	552	530
V/C Ratio(X)		0.64	0.88	0.88	0.90	0.88	0.88		0.81	0.48	0.50	0.93	0.91	0.91
Avail Cap(c_a), veh/h		691	710	734	691	710	722		356	947	645	356	552	530
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		58.2	46.3	46.3	62.1	48.4	48.5		69.4	53.9	39.0	60.3	49.4	49.4
Incr Delay (d2), s/veh		0.7	11.1	10.8	10.9	10.6	10.4		5.3	0.4	0.5	28.8	18.6	19.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.0	22.5	23.2	10.5	21.0	21.4		3.7	6.1	8.8	14.9	22.7	21.9
LnGrp Delay(d),s/veh		58.9	57.5	57.2	73.0	59.0	58.9		74.7	54.3	39.5	89.1	67.9	68.5
LnGrp LOS		E	E	E	E	E	E		E	D	D	F	E	E
Approach Vol, veh/h			1439			1476				680			1282	
Approach Delay, s/veh			57.7			63.5				51.1			73.1	
Approach LOS			E			E				D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.4	56.7	13.5	51.9	30.4	53.8	31.6	33.8
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I2), s	22.4	44.1	9.2	42.5	16.6	41.7	27.0	23.1
Green Ext Time (p_c), s	0.6	6.9	0.1	0.0	0.6	5.7	0.2	2.1

Intersection Summary	
HCM 2010 Ctrl Delay	62.6
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	66	1243	140	47	76	1277	98	88	52	38	52	131	140
Future Volume (veh/h)	6	66	1243	140	47	76	1277	98	88	52	38	52	131	140
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		69	1308	103		81	1359	73	99	58	31	57	144	114
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		222	1665	131		102	1435	77	114	67	36	56	142	113
Arrive On Green		0.13	0.50	0.50		0.02	0.14	0.14	0.12	0.12	0.12	0.18	0.18	0.18
Sat Flow, veh/h		1774	3325	261		1774	3417	183	927	543	290	314	793	628
Grp Volume(v), veh/h		69	695	716		81	703	729	188	0	0	315	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1816		1774	1770	1830	1760	0	0	1735	0	0
Q Serve(g_s), s		5.0	45.2	45.5		6.4	55.1	55.3	14.7	0.0	0.0	25.1	0.0	0.0
Cycle Q Clear(g_c), s		5.0	45.2	45.5		6.4	55.1	55.3	14.7	0.0	0.0	25.1	0.0	0.0
Prop In Lane		1.00		0.14		1.00		0.10	0.53		0.16	0.18		0.36
Lane Grp Cap(c), veh/h		222	886	909		102	743	769	217	0	0	311	0	0
V/C Ratio(X)		0.31	0.78	0.79		0.80	0.95	0.95	0.87	0.00	0.00	1.01	0.00	0.00
Avail Cap(c_a), veh/h		222	886	909		172	743	769	315	0	0	311	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.48	0.48	0.48	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		55.7	28.7	28.8		67.9	58.7	58.8	60.2	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		0.3	6.9	6.9		2.6	13.2	13.3	11.6	0.0	0.0	54.3	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.5	23.7	24.4		3.2	29.8	30.9	7.9	0.0	0.0	16.7	0.0	0.0
LnGrp Delay(d),s/veh		56.0	35.6	35.7		70.4	71.9	72.1	71.8	0.0	0.0	111.8	0.0	0.0
LnGrp LOS		E	D	D		E	E	E	E			F		
Approach Vol, veh/h			1480				1513			188			315	
Approach Delay, s/veh			36.6				71.9			71.8			111.8	
Approach LOS			D				E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.4	75.4		30.0	22.8	65.0		22.2
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	19.4	47.5		27.1	7.0	57.3		16.7
Green Ext Time (p_c), s	0.0	7.2		0.0	0.0	1.1		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	60.6
HCM 2010 LOS	E

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	131	9	106	520	320	166	1023	67	6
Future Volume (veh/h)	6	208	437	131	9	106	520	320	166	1023	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	97		114	559	241	171	1055	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		274	893	187		361	807	347	229	1104	50	
Arrive On Green		0.08	0.31	0.31		0.10	0.34	0.34	0.13	0.64	0.64	
Sat Flow, veh/h		3442	2897	606		3442	2380	1023	3442	3443	157	
Grp Volume(v), veh/h		219	280	277		114	415	385	171	542	561	
Grp Sat Flow(s),veh/h/ln		1721	1770	1733		1721	1770	1634	1721	1770	1830	
Q Serve(g_s), s		6.8	14.0	14.2		3.3	21.9	22.0	5.2	30.7	30.7	
Cycle Q Clear(g_c), s		6.8	14.0	14.2		3.3	21.9	22.0	5.2	30.7	30.7	
Prop In Lane		1.00		0.35		1.00		0.63	1.00		0.09	
Lane Grp Cap(c), veh/h		274	546	534		361	600	554	229	567	587	
V/C Ratio(X)		0.80	0.51	0.52		0.32	0.69	0.69	0.75	0.96	0.96	
Avail Cap(c_a), veh/h		274	546	534		361	600	554	322	608	629	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	2.00	2.00	2.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.86	0.86	0.86	
Uniform Delay (d), s/veh		48.9	30.7	30.8		44.8	30.8	30.9	45.9	18.7	18.7	
Incr Delay (d2), s/veh		14.2	3.4	3.6		0.2	6.4	7.0	2.7	22.3	21.9	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.8	7.4	7.3		1.6	11.7	11.0	2.5	18.0	18.5	
LnGrp Delay(d),s/veh		63.1	34.1	34.3		44.9	37.3	37.9	48.6	41.0	40.6	
LnGrp LOS		E	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			776				914			1274		
Approach Delay, s/veh			42.4				38.5			41.8		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.3	38.3	11.6	41.8	13.0	41.6	13.9	39.5
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.3	* 33	10.1	37.6	8.6	33.0	10.6	* 37
Max Q Clear Time (g_c+I1), s	5.3	16.2	7.2	14.5	8.8	24.0	9.2	32.7
Green Ext Time (p_c), s	0.0	3.3	0.1	1.7	0.0	3.5	0.0	1.9

Intersection Summary	
HCM 2010 Ctrl Delay	39.9
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	389	100
Future Volume (veh/h)	106	389	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	442	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1017	182
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	2977	534
Grp Volume(v), veh/h	120	261	261
Grp Sat Flow(s),veh/h/ln	1774	1770	1742
Q Serve(g_s), s	7.2	12.3	12.5
Cycle Q Clear(g_c), s	7.2	12.3	12.5
Prop In Lane	1.00		0.31
Lane Grp Cap(c), veh/h	147	604	595
V/C Ratio(X)	0.82	0.43	0.44
Avail Cap(c_a), veh/h	174	616	607
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.5	27.5
Incr Delay (d2), s/veh	18.9	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	6.1	6.0
LnGrp Delay(d),s/veh	67.6	27.7	27.7
LnGrp LOS	E	C	C
Approach Vol, veh/h		642	
Approach Delay, s/veh		35.2	
Approach LOS		D	
Timer			

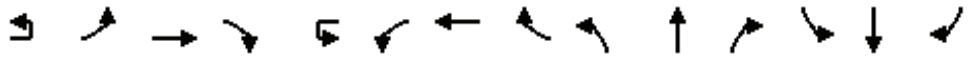


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	199	817	74	345	777	100	15	149	408	330	2	154	279	294
Future Volume (veh/h)	5	199	817	74	345	777	100	15	149	408	330	2	154	279	294
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		207	851	54	367	827	75		180	492	398		169	307	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		409	1074	68	442	1013	92		212	891	602		201	476	340
Arrive On Green		0.12	0.32	0.32	0.13	0.31	0.31		0.12	0.25	0.25		0.11	0.25	0.25
Sat Flow, veh/h		3442	3367	214	3442	3269	296		1774	3539	1583		1774	1940	1384
Grp Volume(v), veh/h		207	447	458	367	448	454		180	492	398		169	279	254
Grp Sat Flow(s),veh/h/ln		1721	1770	1811	1721	1770	1796		1774	1770	1583		1774	1770	1555
Q Serve(g_s), s		6.0	24.4	24.4	11.0	24.7	24.7		10.5	12.8	22.0		9.9	15.0	15.6
Cycle Q Clear(g_c), s		6.0	24.4	24.4	11.0	24.7	24.7		10.5	12.8	22.0		9.9	15.0	15.6
Prop In Lane		1.00		0.12	1.00		0.17		1.00		1.00		1.00		0.89
Lane Grp Cap(c), veh/h		409	565	578	442	548	557		212	891	602		201	435	382
V/C Ratio(X)		0.51	0.79	0.79	0.83	0.82	0.82		0.85	0.55	0.66		0.84	0.64	0.66
Avail Cap(c_a), veh/h		585	1017	1041	963	1199	1217		530	1127	708		614	647	569
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		43.7	32.8	32.8	45.0	33.7	33.7		45.6	34.4	27.1		46.0	35.8	36.0
Incr Delay (d2), s/veh		0.4	3.1	3.0	1.6	3.0	3.0		3.6	0.4	1.5		3.6	1.3	1.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.9	12.4	12.7	5.3	12.5	12.7		5.4	6.3	9.8		5.0	7.4	6.9
LnGrp Delay(d),s/veh		44.1	35.9	35.8	46.5	36.8	36.7		49.2	34.8	28.6		49.5	37.0	37.6
LnGrp LOS		D	D	D	D	D	D		D	C	C		D	D	D
Approach Vol, veh/h			1112			1269				1070				702	
Approach Delay, s/veh			37.4			39.6				34.9				40.2	
Approach LOS			D			D				C				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.0	39.5	17.1	31.3	18.3	39.2	16.4	32.0
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	29.6	60.8	31.6	38.7	18.0	* 72	36.6	33.7
Max Q Clear Time (g_c+I1), s	13.0	26.4	12.5	17.6	8.0	26.7	11.9	24.0
Green Ext Time (p_c), s	0.6	7.4	0.2	2.8	0.2	6.1	0.2	2.6

Intersection Summary	
HCM 2010 Ctrl Delay	37.9
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	43	1100	85	3	50	987	92	184	89	83	60	98	98
Future Volume (veh/h)	13	43	1100	85	3	50	987	92	184	89	83	60	98	98
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		49	1250	67		62	1219	79	271	131	85	76	124	99
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		63	1681	90		79	1690	109	300	179	116	263	141	113
Arrive On Green		0.04	0.49	0.49		0.06	0.67	0.67	0.17	0.17	0.17	0.15	0.15	0.15
Sat Flow, veh/h		1774	3411	183		1774	3370	218	1774	1056	685	1774	952	760
Grp Volume(v), veh/h		49	648	669		62	639	659	271	0	216	76	0	223
Grp Sat Flow(s),veh/h/ln		1774	1770	1825		1774	1770	1818	1774	0	1740	1774	0	1713
Q Serve(g_s), s		3.8	41.0	41.2		4.8	32.4	32.6	21.0	0.0	16.5	5.3	0.0	17.9
Cycle Q Clear(g_c), s		3.8	41.0	41.2		4.8	32.4	32.6	21.0	0.0	16.5	5.3	0.0	17.9
Prop In Lane		1.00		0.10		1.00		0.12	1.00		0.39	1.00		0.44
Lane Grp Cap(c), veh/h		63	872	899		79	888	912	300	0	294	263	0	253
V/C Ratio(X)		0.78	0.74	0.74		0.79	0.72	0.72	0.90	0.00	0.73	0.29	0.00	0.88
Avail Cap(c_a), veh/h		84	872	899		96	888	912	351	0	344	343	0	332
HCM Platoon Ratio		1.00	1.00	1.00		1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.72	0.72	0.72	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		67.0	28.4	28.5		65.2	17.0	17.0	57.0	0.0	55.2	53.1	0.0	58.4
Incr Delay (d2), s/veh		19.9	5.7	5.6		17.6	3.6	3.6	21.6	0.0	5.1	0.2	0.0	16.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.2	21.3	22.0		2.8	16.5	17.0	12.1	0.0	8.3	2.6	0.0	9.6
LnGrp Delay(d),s/veh		86.9	34.1	34.0		82.8	20.6	20.6	78.7	0.0	60.2	53.3	0.0	74.4
LnGrp LOS		F	C	C		F	C	C	E		E	D		E
Approach Vol, veh/h			1366				1360			487			299	
Approach Delay, s/veh			36.0				23.5			70.5			69.0	
Approach LOS			D				C			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.6	75.2		25.6	9.4	76.4		28.6
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	7.6	* 58		27.1	6.6	58.2		27.7
Max Q Clear Time (g_c+I1), s	6.8	43.2		19.9	5.8	34.6		23.0
Green Ext Time (p_c), s	0.0	10.2		0.6	0.0	9.2		0.6

Intersection Summary	
HCM 2010 Ctrl Delay	38.7
HCM 2010 LOS	D

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	256	15	186	737	105	256	407	106	2
Future Volume (veh/h)	11	142	662	256	15	186	737	105	256	407	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.98	1.00		0.96	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	201		200	792	79	272	433	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		210	1027	280		252	1262	126	325	867	157	
Arrive On Green		0.06	0.38	0.38		0.07	0.39	0.39	0.06	0.20	0.20	
Sat Flow, veh/h		3442	2725	744		3442	3244	323	3442	2971	537	
Grp Volume(v), veh/h		158	478	459		200	432	439	272	256	256	
Grp Sat Flow(s),veh/h/ln		1721	1770	1699		1721	1770	1798	1721	1770	1738	
Q Serve(g_s), s		5.7	29.1	29.1		7.2	24.9	24.9	9.8	16.3	16.5	
Cycle Q Clear(g_c), s		5.7	29.1	29.1		7.2	24.9	24.9	9.8	16.3	16.5	
Prop In Lane		1.00		0.44		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		210	667	640		252	688	699	325	517	507	
V/C Ratio(X)		0.75	0.72	0.72		0.79	0.63	0.63	0.84	0.50	0.50	
Avail Cap(c_a), veh/h		246	667	640		268	688	699	344	517	507	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	0.67	0.67	0.67	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.2	33.5	33.5		57.5	31.1	31.1	58.1	42.4	42.5	
Incr Delay (d2), s/veh		8.3	6.5	6.8		12.9	4.3	4.2	14.2	0.3	0.3	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.0	15.4	14.8		3.9	12.9	13.1	5.4	8.0	8.0	
LnGrp Delay(d),s/veh		66.5	40.0	40.3		70.4	35.4	35.4	72.3	42.7	42.8	
LnGrp LOS		E	D	D		E	D	D	E	D	D	
Approach Vol, veh/h			1095				1071			784		
Approach Delay, s/veh			43.9				41.9			53.0		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.6	52.5	16.3	43.6	12.1	54.0	18.2	41.7
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	9.8	43.8	12.6	41.1	9.0	44.6	21.0	32.7
Max Q Clear Time (g_c+I1), s	9.2	31.1	11.8	37.1	7.7	26.9	13.7	18.5
Green Ext Time (p_c), s	0.0	5.2	0.0	1.6	0.0	5.5	0.1	1.6

Intersection Summary	
HCM 2010 Ctrl Delay	50.8
HCM 2010 LOS	D

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	903	101
Future Volume (veh/h)	160	903	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	951	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	1019	79
Arrive On Green	0.11	0.31	0.31
Sat Flow, veh/h	1774	3317	258
Grp Volume(v), veh/h	168	507	518
Grp Sat Flow(s),veh/h/ln	1774	1770	1806
Q Serve(g_s), s	11.7	35.1	35.1
Cycle Q Clear(g_c), s	11.7	35.1	35.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	544	555
V/C Ratio(X)	0.86	0.93	0.93
Avail Cap(c_a), veh/h	296	577	589
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	42.4	42.4
Incr Delay (d2), s/veh	10.3	21.1	20.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.3	20.2	20.6
LnGrp Delay(d),s/veh	65.5	63.5	63.2
LnGrp LOS	E	E	E
Approach Vol, veh/h		1193	
Approach Delay, s/veh		63.7	
Approach LOS		E	
Timer			

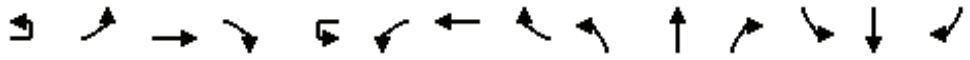


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	347	992	61	449	862	108	21	82	307	355	259	649	279
Future Volume (veh/h)	15	347	992	61	449	862	108	21	82	307	355	259	649	279
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.94	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		361	1033	45	478	917	81		87	327	266	301	755	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		423	1108	48	543	1169	103		110	601	503	341	802	240
Arrive On Green		0.12	0.32	0.32	0.16	0.36	0.36		0.06	0.17	0.17	0.19	0.30	0.30
Sat Flow, veh/h		3442	3449	150	3442	3279	290		1774	3539	1491	1774	2671	799
Grp Volume(v), veh/h		361	530	548	478	495	503		87	327	266	301	500	481
Grp Sat Flow(s),veh/h/ln		1721	1770	1830	1721	1770	1799		1774	1770	1491	1774	1770	1701
Q Serve(g_s), s		13.3	37.4	37.5	17.5	32.2	32.2		6.2	10.9	10.4	21.3	35.6	35.6
Cycle Q Clear(g_c), s		13.3	37.4	37.5	17.5	32.2	32.2		6.2	10.9	10.4	21.3	35.6	35.6
Prop In Lane		1.00		0.08	1.00		0.16		1.00		1.00	1.00		0.47
Lane Grp Cap(c), veh/h		423	569	588	543	631	641		110	601	503	341	531	510
V/C Ratio(X)		0.85	0.93	0.93	0.88	0.78	0.78		0.79	0.54	0.53	0.88	0.94	0.94
Avail Cap(c_a), veh/h		869	584	604	1216	753	765		451	952	651	520	544	523
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		55.5	42.4	42.4	53.1	37.1	37.1		59.7	49.0	14.8	50.7	44.1	44.1
Incr Delay (d2), s/veh		1.9	21.9	21.4	1.9	4.6	4.5		4.8	0.5	0.6	7.9	24.5	25.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.4	21.7	22.4	8.5	16.5	16.7		3.2	5.4	4.4	11.2	21.0	20.3
LnGrp Delay(d),s/veh		57.4	64.3	63.8	55.0	41.7	41.6		64.6	49.5	15.4	58.6	68.6	69.2
LnGrp LOS		E	E	E	E	D	D		E	D	B	E	E	E
Approach Vol, veh/h			1439			1476				680			1282	
Approach Delay, s/veh			62.4			46.0				38.1			66.5	
Approach LOS			E			D				D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.8	47.9	12.4	44.0	20.3	52.4	29.2	27.2
Change Period (Y+Rc), s	4.4	* 6.4	4.4	5.3	4.4	6.4	4.4	5.3
Max Green Setting (Gmax), s	45.6	* 43	32.8	39.7	32.6	54.9	37.8	34.7
Max Q Clear Time (g_c+I1), s	19.5	39.5	8.2	37.6	15.3	34.2	23.3	12.9
Green Ext Time (p_c), s	0.8	2.0	0.1	1.1	0.6	6.0	0.4	2.3

Intersection Summary	
HCM 2010 Ctrl Delay	55.1
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	66	1243	140	47	76	1277	98	88	52	38	52	131	140
Future Volume (veh/h)	6	66	1243	140	47	76	1277	98	88	52	38	52	131	140
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		69	1308	103		81	1359	73	99	58	31	57	144	114
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		87	1857	146		100	1933	104	132	84	45	293	159	126
Arrive On Green		0.05	0.56	0.56		0.11	1.00	1.00	0.07	0.07	0.07	0.17	0.17	0.17
Sat Flow, veh/h		1774	3325	261		1774	3417	183	1774	1135	607	1774	964	763
Grp Volume(v), veh/h		69	695	716		81	703	729	99	0	89	57	0	258
Grp Sat Flow(s),veh/h/ln		1774	1770	1816		1774	1770	1830	1774	0	1742	1774	0	1726
Q Serve(g_s), s		5.4	39.9	40.3		6.2	0.0	0.0	7.7	0.0	7.0	3.9	0.0	20.5
Cycle Q Clear(g_c), s		5.4	39.9	40.3		6.2	0.0	0.0	7.7	0.0	7.0	3.9	0.0	20.5
Prop In Lane		1.00		0.14		1.00		0.10	1.00		0.35	1.00		0.44
Lane Grp Cap(c), veh/h		87	988	1014		100	1001	1036	132	0	129	293	0	285
V/C Ratio(X)		0.79	0.70	0.71		0.81	0.70	0.70	0.75	0.00	0.69	0.19	0.00	0.91
Avail Cap(c_a), veh/h		89	988	1014		139	1001	1036	343	0	337	343	0	334
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.48	0.48	0.48	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		65.8	22.5	22.5		61.4	0.0	0.0	63.5	0.0	63.2	50.4	0.0	57.4
Incr Delay (d2), s/veh		34.0	4.2	4.1		7.7	2.0	2.0	3.2	0.0	2.4	0.1	0.0	22.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.5	20.6	21.3		3.3	0.6	0.6	3.9	0.0	3.4	1.9	0.0	11.6
LnGrp Delay(d),s/veh		99.8	26.6	26.7		69.1	2.0	2.0	66.8	0.0	65.6	50.5	0.0	80.2
LnGrp LOS		F	C	C		E	A	A	E		E	D		F
Approach Vol, veh/h			1480				1513			188			315	
Approach Delay, s/veh			30.1				5.6			66.2			74.8	
Approach LOS			C				A			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.3	84.4		28.0	11.3	85.4		15.3
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	7.9	* 55		27.1	7.0	58.4		27.1
Max Q Clear Time (g_c+I1), s	9.2	42.3		22.5	7.4	2.0		9.7
Green Ext Time (p_c), s	0.0	9.7		0.5	0.0	13.8		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	25.4
HCM 2010 LOS	C

Notes

Appendix G
Peak Hour Intersection LOS Worksheets – Near-Term Year 2021 Base Conditions

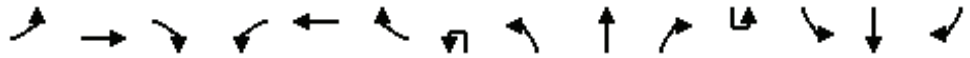
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	144	9	106	520	320	172	1018	67	6
Future Volume (veh/h)	6	208	437	144	9	106	520	320	172	1018	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	111		114	559	241	177	1049	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	939	225		279	804	345	239	1099	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.34	0.34	0.09	0.42	0.42	
Sat Flow, veh/h		3442	2816	674		3442	2380	1023	3442	3442	157	
Grp Volume(v), veh/h		219	288	283		114	415	385	177	539	558	
Grp Sat Flow(s),veh/h/ln		1721	1770	1720		1721	1770	1634	1721	1770	1829	
Q Serve(g_s), s		6.7	14.0	14.2		3.4	21.9	22.0	5.4	31.8	31.8	
Cycle Q Clear(g_c), s		6.7	14.0	14.2		3.4	21.9	22.0	5.4	31.8	31.8	
Prop In Lane		1.00		0.39		1.00		0.63	1.00		0.09	
Lane Grp Cap(c), veh/h		283	590	573		279	597	552	239	565	584	
V/C Ratio(X)		0.77	0.49	0.49		0.41	0.69	0.70	0.74	0.95	0.95	
Avail Cap(c_a), veh/h		433	590	573		279	597	552	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.86	0.86	0.86	
Uniform Delay (d), s/veh		48.6	28.7	28.7		47.2	31.0	31.0	48.1	30.3	30.3	
Incr Delay (d2), s/veh		1.9	2.9	3.0		0.4	6.6	7.2	1.5	23.6	23.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.3	7.3		1.6	11.8	11.0	2.6	19.1	19.7	
LnGrp Delay(d),s/veh		50.5	31.5	31.8		47.5	37.5	38.1	49.5	53.9	53.4	
LnGrp LOS		D	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			790				914			1274		
Approach Delay, s/veh			36.9				39.0			53.1		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	41.0	11.9	41.3	13.3	41.5	13.8	39.4
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	16.2	7.4	15.1	8.7	24.0	9.2	33.8
Green Ext Time (p_c), s	0.0	3.6	0.1	1.7	0.2	3.0	0.0	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	43.0
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	405	100
Future Volume (veh/h)	106	405	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	460	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1011	175
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	2998	518
Grp Volume(v), veh/h	120	270	270
Grp Sat Flow(s),veh/h/ln	1774	1770	1746
Q Serve(g_s), s	7.2	12.9	13.1
Cycle Q Clear(g_c), s	7.2	12.9	13.1
Prop In Lane	1.00		0.30
Lane Grp Cap(c), veh/h	147	597	589
V/C Ratio(X)	0.82	0.45	0.46
Avail Cap(c_a), veh/h	158	597	589
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	28.0	28.0
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.3	6.3
LnGrp Delay(d),s/veh	72.5	28.2	28.3
LnGrp LOS	E	C	C
Approach Vol, veh/h		660	
Approach Delay, s/veh		36.3	
Approach LOS		D	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	27	3	66	15	10	13	3	68	1237	3	1	6	535	20
Future Volume (veh/h)	27	3	66	15	10	13	3	68	1237	3	1	6	535	20
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.98	0.99		0.97		1.00		1.00		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	36	4	61	19	13	11		76	1374	2		7	582	15
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.75	0.75	0.75	0.79	0.79	0.79		0.90	0.90	0.90		0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	86	19	91	103	67	42		681	2763	4		12	1341	35
Arrive On Green	0.10	0.10	0.10	0.10	0.10	0.10		0.26	0.51	0.51		0.01	0.38	0.38
Sat Flow, veh/h	416	189	923	554	677	423		1774	3626	5		1774	3525	91
Grp Volume(v), veh/h	101	0	0	43	0	0		76	671	705		7	292	305
Grp Sat Flow(s),veh/h/ln	1528	0	0	1654	0	0		1774	1770	1862		1774	1770	1846
Q Serve(g_s), s	4.3	0.0	0.0	0.0	0.0	0.0		3.5	26.8	26.8		0.4	13.2	13.2
Cycle Q Clear(g_c), s	6.8	0.0	0.0	2.4	0.0	0.0		3.5	26.8	26.8		0.4	13.2	13.2
Prop In Lane	0.36		0.60	0.44		0.26		1.00		0.00		1.00		0.05
Lane Grp Cap(c), veh/h	196	0	0	211	0	0		681	1349	1419		12	673	702
V/C Ratio(X)	0.52	0.00	0.00	0.20	0.00	0.00		0.11	0.50	0.50		0.56	0.43	0.43
Avail Cap(c_a), veh/h	491	0	0	509	0	0		681	1349	1419		158	673	702
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.67	0.67	0.67		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.75	0.75	0.75		0.85	0.85	0.85
Uniform Delay (d), s/veh	46.9	0.0	0.0	45.0	0.0	0.0		26.0	12.9	12.9		53.5	24.8	24.8
Incr Delay (d2), s/veh	0.8	0.0	0.0	0.2	0.0	0.0		0.0	1.0	0.9		12.0	1.7	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	0.0	0.0	1.2	0.0	0.0		1.7	13.5	14.2		0.2	6.7	7.0
LnGrp Delay(d),s/veh	47.6	0.0	0.0	45.2	0.0	0.0		26.0	13.8	13.8		65.4	26.5	26.5
LnGrp LOS	D			D				C	B	B		E	C	C
Approach Vol, veh/h		101			43				1452				604	
Approach Delay, s/veh		47.6			45.2				14.5				27.0	
Approach LOS		D			D				B				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	5.2	87.3		15.5	46.5	46.0		15.5
Change Period (Y+Rc), s	4.4	5.0		4.9	5.0	* 4.9		4.9
Max Green Setting (Gmax), s	9.6	52.0		32.1	20.6	* 41		32.1
Max Q Clear Time (g_c+I1), s	2.4	28.8		8.8	5.5	15.2		4.4
Green Ext Time (p_c), s	0.0	17.3		0.3	0.1	2.5		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	20.0
HCM 2010 LOS	C

Notes

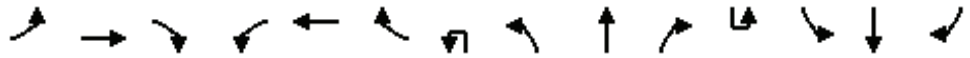


Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	46	100	1187	62	1	27	603
Future Volume (veh/h)	46	100	1187	62	1	27	603
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.99		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	55	84	1448	53		31	701
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.83	0.83	0.82	0.82		0.86	0.86
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	70	107	1848	68		354	2771
Arrive On Green	0.11	0.11	1.00	1.00		0.07	0.26
Sat Flow, veh/h	646	986	3576	127		1774	3632
Grp Volume(v), veh/h	140	0	734	767		31	701
Grp Sat Flow(s),veh/h/ln	1643	0	1770	1840		1774	1770
Q Serve(g_s), s	9.0	0.0	0.0	0.0		1.8	17.0
Cycle Q Clear(g_c), s	9.0	0.0	0.0	0.0		1.8	17.0
Prop In Lane	0.39	0.60		0.07		1.00	
Lane Grp Cap(c), veh/h	179	0	939	976		354	2771
V/C Ratio(X)	0.78	0.00	0.78	0.79		0.09	0.25
Avail Cap(c_a), veh/h	367	0	939	976		354	2771
HCM Platoon Ratio	1.00	1.00	2.00	2.00		0.33	0.33
Upstream Filter(I)	1.00	0.00	0.85	0.85		0.97	0.97
Uniform Delay (d), s/veh	46.9	0.0	0.0	0.0		41.2	15.0
Incr Delay (d2), s/veh	2.9	0.0	5.5	5.4		0.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	4.2	0.0	1.4	1.5		0.9	8.4
LnGrp Delay(d),s/veh	49.8	0.0	5.5	5.4		41.2	15.2
LnGrp LOS	D		A	A		D	B
Approach Vol, veh/h	140		1501				732
Approach Delay, s/veh	49.8		5.4				16.3
Approach LOS	D		A				B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	27.4	63.0				90.4		17.6
Change Period (Y+Rc), s	5.8	* 5.7				5.8		5.9
Max Green Setting (Gmax), s	9.6	* 57				72.2		24.1
Max Q Clear Time (g_c+I1), s	13.8	2.0				19.0		11.0
Green Ext Time (p_c), s	0.0	29.5				9.4		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	11.4
HCM 2010 LOS	B

Notes

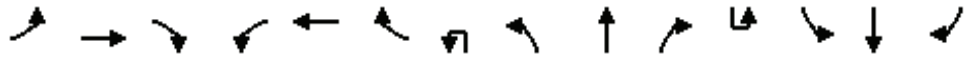


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	164	0	26	13	0	39	1	18	1060	4	1	8	583	47
Future Volume (veh/h)	164	0	26	13	0	39	1	18	1060	4	1	8	583	47
Number	7	4	14	3	8	18		1	6	16		5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	0.99		0.98		1.00		1.00		1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	245	0	27	18	0	37		21	1233	4		10	711	40
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.67	0.67	0.67	0.72	0.72	0.72		0.86	0.86	0.86		0.82	0.82	0.82
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	339	0	30	145	20	249		31	2301	7		17	2140	120
Arrive On Green	0.21	0.00	0.21	0.21	0.00	0.21		0.02	0.64	0.64		0.02	1.00	1.00
Sat Flow, veh/h	1284	0	142	470	94	1159		1774	3618	12		1774	3406	192
Grp Volume(v), veh/h	272	0	0	55	0	0		21	603	634		10	369	382
Grp Sat Flow(s),veh/h/ln	1426	0	0	1723	0	0		1774	1770	1861		1774	1770	1828
Q Serve(g_s), s	16.9	0.0	0.0	0.0	0.0	0.0		1.3	20.3	20.3		0.6	0.0	0.0
Cycle Q Clear(g_c), s	19.8	0.0	0.0	2.9	0.0	0.0		1.3	20.3	20.3		0.6	0.0	0.0
Prop In Lane	0.90		0.10	0.33		0.67		1.00		0.01		1.00		0.10
Lane Grp Cap(c), veh/h	369	0	0	414	0	0		31	1126	1183		17	1112	1149
V/C Ratio(X)	0.74	0.00	0.00	0.13	0.00	0.00		0.68	0.54	0.54		0.59	0.33	0.33
Avail Cap(c_a), veh/h	458	0	0	509	0	0		174	1126	1183		174	1112	1149
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.91	0.91	0.91		0.95	0.95	0.95
Uniform Delay (d), s/veh	40.8	0.0	0.0	34.5	0.0	0.0		52.8	10.9	10.9		52.8	0.0	0.0
Incr Delay (d2), s/veh	3.4	0.0	0.0	0.1	0.0	0.0		8.7	1.7	1.6		10.8	0.8	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	0.0	0.0	1.3	0.0	0.0		0.7	10.4	10.9		0.3	0.2	0.2
LnGrp Delay(d),s/veh	44.1	0.0	0.0	34.5	0.0	0.0		61.5	12.5	12.4		63.6	0.8	0.7
LnGrp LOS	D			C				E	B	B		E	A	A
Approach Vol, veh/h		272			55				1258				761	
Approach Delay, s/veh		44.1			34.5				13.3				1.6	
Approach LOS		D			C				B				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	6.3	73.7		28.1	5.4	74.5		28.1
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	10.6	* 53		30.1	10.6	52.2		30.1
Max Q Clear Time (g_c+I1), s	3.3	2.0		21.8	2.6	22.3		4.9
Green Ext Time (p_c), s	0.0	7.8		0.7	0.0	13.2		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	13.6
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	17	12	25	164	11	72	7	32	966	174	8	74	527	15
Future Volume (veh/h)	17	12	25	164	11	72	7	32	966	174	8	74	527	15
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.94		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	23	16	22	191	13	58		38	1136	144		89	635	12
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.75	0.75	0.75	0.86	0.86	0.86		0.85	0.85	0.85		0.83	0.83	0.83
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	51	37	30	263	15	444		236	2459	312		111	2363	45
Arrive On Green	0.30	0.30	0.30	0.30	0.30	0.30		0.27	1.00	1.00		0.06	0.46	0.46
Sat Flow, veh/h	52	125	100	718	49	1496		1774	4559	578		1774	5138	97
Grp Volume(v), veh/h	61	0	0	204	0	58		38	844	436		89	419	228
Grp Sat Flow(s),veh/h/ln	277	0	0	767	0	1496		1774	1695	1747		1774	1695	1844
Q Serve(g_s), s	1.7	0.0	0.0	0.0	0.0	4.0		2.3	0.0	0.0		6.9	10.6	10.7
Cycle Q Clear(g_c), s	39.5	0.0	0.0	37.8	0.0	4.0		2.3	0.0	0.0		6.9	10.6	10.7
Prop In Lane	0.38		0.36	0.94		1.00		1.00		0.33		1.00		0.05
Lane Grp Cap(c), veh/h	118	0	0	278	0	444		236	1829	942		111	1559	848
V/C Ratio(X)	0.52	0.00	0.00	0.73	0.00	0.13		0.16	0.46	0.46		0.81	0.27	0.27
Avail Cap(c_a), veh/h	156	0	0	313	0	482		236	1829	942		286	1559	848
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.93	0.93	0.93		0.95	0.95	0.95
Uniform Delay (d), s/veh	42.2	0.0	0.0	47.9	0.0	36.0		45.4	0.0	0.0		64.8	23.3	23.3
Incr Delay (d2), s/veh	1.3	0.0	0.0	6.2	0.0	0.0		0.1	0.8	1.5		4.9	0.4	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	0.0	8.1	0.0	1.6		1.1	0.2	0.4		3.6	5.1	5.6
LnGrp Delay(d),s/veh	43.5	0.0	0.0	54.1	0.0	36.1		45.5	0.8	1.5		69.7	23.7	24.0
LnGrp LOS	D			D		D		D	A	A		E	C	C
Approach Vol, veh/h		61			262				1318				736	
Approach Delay, s/veh		43.5			50.1				2.3				29.4	
Approach LOS		D			D				A				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	13.1	80.4		46.5	23.5	70.0		46.5
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	22.6	58.1		45.1	15.6	* 64		45.1
Max Q Clear Time (g_c+I1), s	8.9	2.0		41.5	4.3	12.7		39.8
Green Ext Time (p_c), s	0.1	42.9		0.0	0.0	11.9		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	17.0
HCM 2010 LOS	B

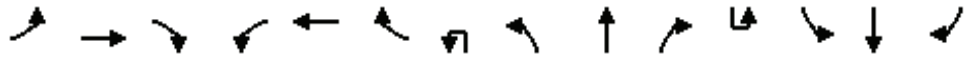
Notes

Intersection	
Intersection Delay, s/veh	9.4
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	62	86	49	25	7	52	64	50	10	79	2
Future Vol, veh/h	3	62	86	49	25	7	52	64	50	10	79	2
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	74	102	63	32	9	79	97	76	13	105	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.1	9.1	10	9
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	31%	2%	60%	11%
Vol Thru, %	39%	41%	31%	87%
Vol Right, %	30%	57%	9%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	166	151	81	91
LT Vol	52	3	49	10
Through Vol	64	62	25	79
RT Vol	50	86	7	2
Lane Flow Rate	252	180	104	121
Geometry Grp	1	1	1	1
Degree of Util (X)	0.325	0.231	0.148	0.166
Departure Headway (Hd)	4.647	4.619	5.114	4.929
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	770	771	696	722
Service Time	2.706	2.681	3.183	2.997
HCM Lane V/C Ratio	0.327	0.233	0.149	0.168
HCM Control Delay	10	9.1	9.1	9
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	1.4	0.9	0.5	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	33	26	67	95	27	75	7	88	1061	120	4	98	544	36
Future Volume (veh/h)	33	26	67	95	27	75	7	88	1061	120	4	98	544	36
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.98		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	40	31	57	122	35	67		96	1153	92		108	598	28
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	202	100	183	214	97	186		118	3123	249		130	2330	1034
Arrive On Green	0.17	0.17	0.17	0.17	0.17	0.17		0.07	0.65	0.65		0.15	1.00	1.00
Sat Flow, veh/h	1273	575	1057	1283	561	1074		1774	4791	382		1774	3539	1570
Grp Volume(v), veh/h	40	0	88	122	0	102		96	816	429		108	598	28
Grp Sat Flow(s),veh/h/ln	1273	0	1631	1283	0	1635		1774	1695	1782		1774	1770	1570
Q Serve(g_s), s	4.0	0.0	6.6	12.9	0.0	7.7		7.5	15.4	15.5		8.3	0.0	0.0
Cycle Q Clear(g_c), s	11.7	0.0	6.6	19.5	0.0	7.7		7.5	15.4	15.5		8.3	0.0	0.0
Prop In Lane	1.00		0.65	1.00		0.66		1.00		0.21		1.00		1.00
Lane Grp Cap(c), veh/h	202	0	283	214	0	284		118	2210	1162		130	2330	1034
V/C Ratio(X)	0.20	0.00	0.31	0.57	0.00	0.36		0.81	0.37	0.37		0.83	0.26	0.03
Avail Cap(c_a), veh/h	382	0	514	395	0	515		400	2210	1162		400	2330	1034
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.99	0.99	0.99
Uniform Delay (d), s/veh	56.2	0.0	50.5	59.0	0.0	51.0		64.5	11.2	11.2		58.9	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.5	1.8	0.0	0.6		4.9	0.5	0.9		5.1	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	3.0	4.7	0.0	3.5		3.8	7.3	7.8		4.2	0.1	0.0
LnGrp Delay(d),s/veh	56.5	0.0	51.0	60.8	0.0	51.6		69.4	11.6	12.1		64.0	0.3	0.0
LnGrp LOS	E		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		128			224				1341				734	
Approach Delay, s/veh		52.7			56.6				15.9				9.6	
Approach LOS		D			E				B				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	96.2		29.2	13.7	97.1		29.2
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	10.3	17.5		13.7	9.5	2.0		21.5
Green Ext Time (p_c), s	0.1	12.3		0.5	0.1	5.6		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	19.7
HCM 2010 LOS	B

Notes

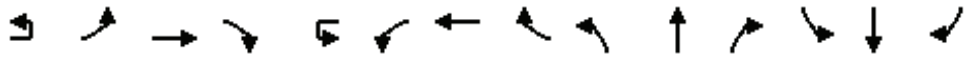


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	205	872	76	367	803	121	15	156	415	375	2	183	281	299
Future Volume (veh/h)	5	205	872	76	367	803	121	15	156	415	375	2	183	281	299
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		214	908	56	390	854	98		188	500	452		201	309	232
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		428	1083	67	450	994	114		214	958	636		227	535	390
Arrive On Green		0.12	0.32	0.32	0.13	0.31	0.31		0.12	0.27	0.27		0.13	0.28	0.28
Sat Flow, veh/h		3442	3374	208	3442	3185	365		1774	3539	1583		1774	1924	1402
Grp Volume(v), veh/h		214	476	488	390	474	478		188	500	452		201	283	258
Grp Sat Flow(s),veh/h/ln		1721	1770	1813	1721	1770	1781		1774	1770	1583		1774	1770	1556
Q Serve(g_s), s		7.7	33.1	33.1	14.7	33.4	33.4		13.8	15.9	31.7		14.7	18.2	19.0
Cycle Q Clear(g_c), s		7.7	33.1	33.1	14.7	33.4	33.4		13.8	15.9	31.7		14.7	18.2	19.0
Prop In Lane		1.00		0.11	1.00		0.21		1.00		1.00		1.00		0.90
Lane Grp Cap(c), veh/h		428	568	582	450	552	556		214	958	636		227	492	433
V/C Ratio(X)		0.50	0.84	0.84	0.87	0.86	0.86		0.88	0.52	0.71		0.88	0.58	0.60
Avail Cap(c_a), veh/h		780	802	822	780	802	807		402	1070	685		402	535	470
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		54.1	41.8	41.8	56.4	42.8	42.8		57.2	41.0	33.2		56.7	41.1	41.3
Incr Delay (d2), s/veh		0.3	6.1	5.9	2.0	6.5	6.4		4.5	0.3	2.9		4.5	1.1	1.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	17.1	17.5	7.1	17.3	17.4		7.1	7.8	14.3		7.5	9.0	8.3
LnGrp Delay(d),s/veh		54.4	47.8	47.7	58.4	49.3	49.2		61.7	41.3	36.0		61.2	42.2	42.9
LnGrp LOS		D	D	D	E	D	D		E	D	D		E	D	D
Approach Vol, veh/h			1178			1342				1140				742	
Approach Delay, s/veh			49.0			51.9				42.6				47.6	
Approach LOS			D			D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.7	48.2	20.4	42.1	22.2	47.7	21.4	41.1
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	16.7	35.1	15.8	21.0	9.7	35.4	16.7	33.7
Green Ext Time (p_c), s	0.6	7.4	0.2	2.7	0.3	6.0	0.2	2.2

Intersection Summary	
HCM 2010 Ctrl Delay	48.0
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	33	1138	187	3	50	1006	97	264	103	83	66	114	68
Future Volume (veh/h)	13	33	1138	187	3	50	1006	97	264	103	83	66	114	68
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		38	1293	182		62	1242	85	388	151	85	84	144	61
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		49	1181	165		79	1334	91	275	107	60	92	157	67
Arrive On Green		0.03	0.38	0.38		0.01	0.13	0.13	0.25	0.25	0.25	0.18	0.18	0.18
Sat Flow, veh/h		1774	3106	434		1774	3356	229	1098	427	240	513	879	372
Grp Volume(v), veh/h		38	732	743		62	654	673	624	0	0	289	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1771		1774	1770	1816	1765	0	0	1764	0	0
Q Serve(g_s), s		3.0	53.2	53.2		4.9	51.2	51.4	35.1	0.0	0.0	22.5	0.0	0.0
Cycle Q Clear(g_c), s		3.0	53.2	53.2		4.9	51.2	51.4	35.1	0.0	0.0	22.5	0.0	0.0
Prop In Lane		1.00		0.25		1.00		0.13	0.62		0.14	0.29		0.21
Lane Grp Cap(c), veh/h		49	673	673		79	703	721	443	0	0	315	0	0
V/C Ratio(X)		0.78	1.09	1.10		0.78	0.93	0.93	1.41	0.00	0.00	0.92	0.00	0.00
Avail Cap(c_a), veh/h		122	673	673		122	703	721	443	0	0	354	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.69	0.69	0.69	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.7	43.4	43.4		68.3	58.9	59.0	52.5	0.0	0.0	56.5	0.0	0.0
Incr Delay (d2), s/veh		9.5	61.4	66.5		5.2	15.7	15.8	197.6	0.0	0.0	25.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	37.4	38.4		2.5	28.2	29.0	41.4	0.0	0.0	13.2	0.0	0.0
LnGrp Delay(d),s/veh		77.2	104.8	109.9		73.5	74.6	74.8	250.0	0.0	0.0	81.4	0.0	0.0
LnGrp LOS		E	F	F		E	E	E	F			F		
Approach Vol, veh/h			1513				1389			624			289	
Approach Delay, s/veh			106.6				74.6			250.0			81.4	
Approach LOS			F				E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.7	59.4		29.9	8.3	61.8		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	6.9	55.2		24.5	5.0	53.4		37.1
Green Ext Time (p_c), s	0.0	0.0		0.4	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	116.5
HCM 2010 LOS	F

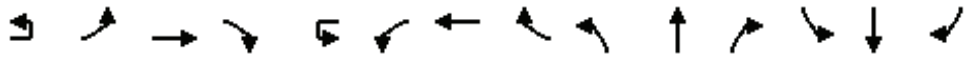
Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	177	901	265	5	212	712	267	2	287	802	164	5	184	429	169
Future Volume (veh/h)	3	177	901	265	5	212	712	267	2	287	802	164	5	184	429	169
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		199	1012	210		244	818	218		305	853	153		211	493	137
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		430	1385	287		293	1239	327		351	989	176		258	713	310
Arrive On Green		0.32	0.63	0.63		0.09	0.31	0.31		0.20	0.46	0.46		0.15	0.40	0.40
Sat Flow, veh/h		1774	2912	603		3442	3980	1052		3442	4330	772		3442	3539	1540
Grp Volume(v), veh/h		199	614	608		244	696	340		305	667	339		211	493	137
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1641		1721	1695	1712		1721	1770	1540
Q Serve(g_s), s		12.5	33.1	33.4		9.8	24.9	25.2		12.0	24.6	25.0		8.3	16.1	5.5
Cycle Q Clear(g_c), s		12.5	33.1	33.4		9.8	24.9	25.2		12.0	24.6	25.0		8.3	16.1	5.5
Prop In Lane		1.00		0.35		1.00		0.64		1.00		0.45		1.00		1.00
Lane Grp Cap(c), veh/h		430	842	830		293	1056	511		351	775	391		258	713	310
V/C Ratio(X)		0.46	0.73	0.73		0.83	0.66	0.67		0.87	0.86	0.87		0.82	0.69	0.44
Avail Cap(c_a), veh/h		430	842	830		383	1056	511		457	826	417		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		1.00	1.00	1.00		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.82	0.82	0.82		1.00	1.00	1.00
Uniform Delay (d), s/veh		40.2	19.6	19.6		63.0	41.8	41.9		54.8	36.0	36.1		58.6	38.2	13.2
Incr Delay (d2), s/veh		0.0	0.5	0.5		8.3	2.9	6.1		9.4	8.0	15.2		5.1	2.9	1.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.1	16.1	16.1		5.0	12.1	12.3		6.1	12.3	13.3		4.1	8.1	3.3
LnGrp Delay(d),s/veh		40.2	20.1	20.1		71.3	44.7	48.0		64.2	44.0	51.3		63.7	41.1	14.9
LnGrp LOS		D	C	C		E	D	D		E	D	D		E	D	B
Approach Vol, veh/h			1421				1280				1311				841	
Approach Delay, s/veh			22.9				50.7				50.6				42.5	
Approach LOS			C				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.3	71.9	18.7	33.1	39.2	49.0	14.9	36.9
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	11.8	35.4	14.0	18.1	14.5	27.2	10.3	27.0
Green Ext Time (p_c), s	0.2	8.7	0.3	4.6	0.2	5.7	0.2	4.7

Intersection Summary	
HCM 2010 Ctrl Delay	41.1
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	11	78	1101	43	5	54	1161	165	31	21	47	108	23	52
Future Volume (veh/h)	11	78	1101	43	5	54	1161	165	31	21	47	108	23	52
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	0.97		0.98	0.99		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		83	1171	33		57	1235	123	37	25	39	150	32	53
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.84	0.84	0.84	0.72	0.72	0.72
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		128	3316	93		94	3016	300	247	202	168	312	282	234
Arrive On Green		0.01	0.22	0.22		0.05	1.00	1.00	0.03	0.11	0.11	0.08	0.15	0.15
Sat Flow, veh/h		3442	5084	143		3442	4694	467	1774	1863	1553	1774	1863	1549
Grp Volume(v), veh/h		83	781	423		57	892	466	37	25	39	150	32	53
Grp Sat Flow(s),veh/h/ln		1721	1695	1837		1721	1695	1771	1774	1863	1553	1774	1863	1549
Q Serve(g_s), s		3.4	27.4	27.4		2.3	0.0	0.0	2.6	1.7	3.2	10.4	2.1	4.2
Cycle Q Clear(g_c), s		3.4	27.4	27.4		2.3	0.0	0.0	2.6	1.7	3.2	10.4	2.1	4.2
Prop In Lane		1.00		0.08		1.00		0.26	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		128	2211	1198		94	2178	1138	247	202	168	312	282	234
V/C Ratio(X)		0.65	0.35	0.35		0.61	0.41	0.41	0.15	0.12	0.23	0.48	0.11	0.23
Avail Cap(c_a), veh/h		310	2211	1198		310	2178	1138	323	547	456	312	547	455
HCM Platoon Ratio		0.33	0.33	0.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.40	0.40	0.40		0.87	0.87	0.87	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		68.2	29.8	29.9		65.4	0.0	0.0	52.8	56.4	57.1	49.2	51.3	52.2
Incr Delay (d2), s/veh		0.8	0.2	0.3		2.0	0.5	1.0	0.1	0.1	0.3	0.4	0.1	0.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	13.0	14.1		1.1	0.2	0.3	1.3	0.9	1.4	5.1	1.1	1.8
LnGrp Delay(d),s/veh		69.1	30.0	30.2		67.5	0.5	1.0	52.9	56.5	57.4	49.6	51.4	52.4
LnGrp LOS		E	C	C		E	A	A	D	E	E	D	D	D
Approach Vol, veh/h			1287				1415			101			235	
Approach Delay, s/veh			32.6				3.3			55.5			50.5	
Approach LOS			C				A			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.2	96.7	9.0	26.1	9.6	95.4	15.0	20.0
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	* 57	10.6	41.1	12.6	56.6	10.6	41.1
Max Q Clear Time (g_c+I1), s	4.4	29.4	4.6	6.2	5.4	2.0	12.4	5.2
Green Ext Time (p_c), s	0.0	15.5	0.0	0.2	0.1	16.8	0.0	0.1

Intersection Summary	
HCM 2010 Ctrl Delay	21.1
HCM 2010 LOS	C

Notes

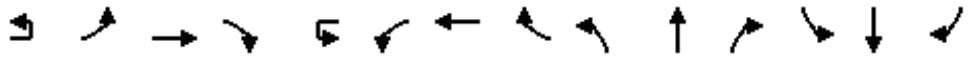


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	16	32	1222	18	276	1309	110	65	132	446	143	144	112
Future Volume (veh/h)	16	32	1222	18	276	1309	110	65	132	446	143	144	112
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.97	1.00		0.95	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		35	1328	15	291	1378	82	76	155	460	161	162	88
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.92	0.92	0.92	0.95	0.95	0.95	0.85	0.85	0.85	0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		45	1395	16	658	3045	181	119	290	823	210	644	277
Arrive On Green		0.01	0.09	0.09	0.74	1.00	1.00	0.01	0.05	0.05	0.06	0.18	0.18
Sat Flow, veh/h		1774	5182	59	1774	4899	292	3442	1863	1511	3442	3539	1522
Grp Volume(v), veh/h		35	869	474	291	954	506	76	155	460	161	162	88
Grp Sat Flow(s),veh/h/ln		1774	1695	1850	1774	1695	1801	1721	1863	1511	1721	1770	1522
Q Serve(g_s), s		2.8	35.7	35.7	8.8	0.0	0.0	3.1	11.4	4.9	6.5	5.5	7.0
Cycle Q Clear(g_c), s		2.8	35.7	35.7	8.8	0.0	0.0	3.1	11.4	4.9	6.5	5.5	7.0
Prop In Lane		1.00		0.03	1.00		0.16	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		45	913	498	658	2107	1119	119	290	823	210	644	277
V/C Ratio(X)		0.78	0.95	0.95	0.44	0.45	0.45	0.64	0.53	0.56	0.77	0.25	0.32
Avail Cap(c_a), veh/h		172	913	498	658	2107	1119	236	520	1010	334	1090	468
HCM Platoon Ratio		0.33	0.33	0.33	2.00	2.00	2.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)		0.93	0.93	0.93	0.69	0.69	0.69	0.26	0.26	0.26	1.00	1.00	1.00
Uniform Delay (d), s/veh		69.0	62.9	62.9	12.5	0.0	0.0	68.3	61.5	11.9	64.7	49.1	49.7
Incr Delay (d2), s/veh		9.6	19.2	28.6	0.1	0.5	0.9	0.6	0.2	0.1	2.2	0.1	0.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.5	19.2	22.3	4.2	0.1	0.3	1.5	5.9	9.1	3.1	2.7	3.0
LnGrp Delay(d),s/veh		78.6	82.1	91.5	12.6	0.5	0.9	68.9	61.6	12.0	66.9	49.2	49.9
LnGrp LOS		E	F	F	B	A	A	E	E	B	E	D	D
Approach Vol, veh/h			1378			1751			691			411	
Approach Delay, s/veh			85.2			2.6			29.4			56.3	
Approach LOS			F			A			C			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	57.4	43.0	9.2	30.4	7.9	92.4	13.0	26.7
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	30.6	* 38	9.6	43.1	13.6	54.6	13.6	39.1
Max Q Clear Time (g_c+I1), s	10.8	37.7	5.1	9.0	4.8	2.0	8.5	13.4
Green Ext Time (p_c), s	0.4	0.0	0.0	0.8	0.0	33.3	0.1	1.5

Intersection Summary	
HCM 2010 Ctrl Delay	39.1
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	5	23	1803	20	18	75	1582	27	23	43	171	61	33	57
Future Volume (veh/h)	5	23	1803	20	18	75	1582	27	23	43	171	61	33	57
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.95	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		25	1981	15		83	1758	21	30	57	161	80	43	53
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.91	0.91	0.91		0.90	0.90	0.90	0.76	0.76	0.76	0.76	0.76	0.76
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		32	2594	20		103	2788	33	36	69	194	92	49	61
Arrive On Green		0.04	1.00	1.00		0.12	1.00	1.00	0.19	0.19	0.19	0.12	0.12	0.12
Sat Flow, veh/h		1774	5206	39		1774	5179	62	195	370	1045	776	417	514
Grp Volume(v), veh/h		25	1290	706		83	1151	628	248	0	0	176	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1856		1774	1695	1851	1609	0	0	1708	0	0
Q Serve(g_s), s		2.0	0.7	0.7		6.4	0.0	0.0	20.8	0.0	0.0	14.2	0.0	0.0
Cycle Q Clear(g_c), s		2.0	0.7	0.7		6.4	0.0	0.0	20.8	0.0	0.0	14.2	0.0	0.0
Prop In Lane		1.00		0.02		1.00		0.03	0.12		0.65	0.45		0.30
Lane Grp Cap(c), veh/h		32	1689	925		103	1825	996	299	0	0	202	0	0
V/C Ratio(X)		0.79	0.76	0.76		0.81	0.63	0.63	0.83	0.00	0.00	0.87	0.00	0.00
Avail Cap(c_a), veh/h		134	1689	925		185	1825	996	404	0	0	294	0	0
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.68	0.68	0.68		0.82	0.82	0.82	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.3	0.1	0.1		61.2	0.0	0.0	54.9	0.0	0.0	60.7	0.0	0.0
Incr Delay (d2), s/veh		10.7	2.3	4.1		4.7	1.4	2.5	7.7	0.0	0.0	13.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.1	0.6	1.1		3.3	0.3	0.7	9.9	0.0	0.0	7.4	0.0	0.0
LnGrp Delay(d),s/veh		78.0	2.4	4.2		65.8	1.4	2.5	62.6	0.0	0.0	73.7	0.0	0.0
LnGrp LOS		E	A	A		E	A	A	E			E		
Approach Vol, veh/h			2021				1862			248			176	
Approach Delay, s/veh			4.0				4.6			62.6			73.7	
Approach LOS			A				A			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.5	75.2		30.9	6.9	80.8		21.4
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	14.6	* 47		35.1	10.6	50.6		24.1
Max Q Clear Time (g_c+I1), s	10.4	2.7		22.8	4.0	2.0		16.2
Green Ext Time (p_c), s	0.0	35.1		0.8	0.0	26.3		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	10.5
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1941	180	442	1511	269	128	91	665	260	155	5
Future Volume (veh/h)	2	1941	180	442	1511	269	128	91	665	260	155	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	2001	149	480	1642	204	126	134	672	289	172	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	1824	135	350	2917	889	255	267	1064	293	299	7
Arrive On Green	0.00	0.76	0.76	0.20	0.57	0.57	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4819	356	1774	5085	1549	1774	1863	3066	1774	1812	42
Grp Volume(v), veh/h	2	1404	746	480	1642	204	126	134	672	289	0	176
Grp Sat Flow(s),veh/h/ln	1774	1695	1785	1774	1695	1549	1774	1863	1533	1774	0	1854
Q Serve(g_s), s	0.2	53.0	53.0	27.6	28.5	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Cycle Q Clear(g_c), s	0.2	53.0	53.0	27.6	28.5	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Prop In Lane	1.00		0.20	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	4	1283	676	350	2917	889	255	267	1064	293	0	306
V/C Ratio(X)	0.53	1.09	1.10	1.37	0.56	0.23	0.49	0.50	0.63	0.99	0.00	0.58
Avail Cap(c_a), veh/h	274	1283	676	350	2917	889	255	267	1064	293	0	306
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.42	0.42	0.42	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.6	17.0	17.0	56.2	18.8	14.7	55.3	55.3	39.0	58.3	0.0	53.9
Incr Delay (d2), s/veh	16.6	48.2	56.7	184.8	0.8	0.6	1.1	1.1	1.1	48.9	0.0	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	32.1	35.4	31.5	13.4	4.0	4.6	4.9	11.1	15.1	0.0	6.5
LnGrp Delay(d),s/veh	86.2	65.2	73.7	241.0	19.6	15.3	56.4	56.4	40.0	107.2	0.0	55.7
LnGrp LOS	F	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2152			2326			932			465	
Approach Delay, s/veh		68.2			64.9			44.6			87.7	
Approach LOS		E			E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	32.0	58.5		25.0	4.7	85.8		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	2.2	30.5		24.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.7		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	64.7
HCM 2010 LOS	E

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					↑↑↑	↱					↑	↱↱
Traffic Volume (veh/h)	0	0	0	0	1632	0	0	0	0	0	1	560
Future Volume (veh/h)	0	0	0	0	1632	0	0	0	0	0	1	560
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	1920	0				0	1	651
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.85	0.85	0.85				0.76	0.76	0.76
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	2707	843				0	504	753
Arrive On Green				0.00	0.53	0.00				0.00	0.27	0.27
Sat Flow, veh/h				0	5253	1583				0	1863	2784
Grp Volume(v), veh/h				0	1920	0				0	1	651
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1392
Q Serve(g_s), s				0.0	15.7	0.0				0.0	0.0	12.3
Cycle Q Clear(g_c), s				0.0	15.7	0.0				0.0	0.0	12.3
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	2707	843				0	504	753
V/C Ratio(X)				0.00	0.71	0.00				0.00	0.00	0.86
Avail Cap(c_a), veh/h				0	4600	1432				0	1179	1763
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	9.7	0.0				0.0	14.7	19.2
Incr Delay (d2), s/veh				0.0	0.1	0.0				0.0	0.0	1.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	7.3	0.0				0.0	0.0	4.8
LnGrp Delay(d),s/veh				0.0	9.8	0.0				0.0	14.7	20.4
LnGrp LOS					A						B	C
Approach Vol, veh/h					1920						652	
Approach Delay, s/veh					9.8						20.4	
Approach LOS					A						C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				20.0		35.2		
Change Period (Y+Rc), s				5.1		5.8		
Max Green Setting (Gmax), s				35.0		50.0		
Max Q Clear Time (g_c+I1), s				14.3		17.7		
Green Ext Time (p_c), s				0.6		11.7		

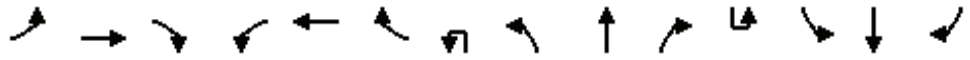
Intersection Summary	
HCM 2010 Ctrl Delay	12.5
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	2080	392	0	0	0	0	1	367	0	0	0
Future Volume (veh/h)	0	2080	392	0	0	0	0	1	367	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.98			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	2286	0				0	1	339			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.91	0.91	0.91				0.92	0.92	0.92			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	3195	995				0	315	461			
Arrive On Green	0.00	0.63	0.00				0.00	0.17	0.17			
Sat Flow, veh/h	0	5253	1583				0	1863	2725			
Grp Volume(v), veh/h	0	2286	0				0	1	339			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1363			
Q Serve(g_s), s	0.0	16.3	0.0				0.0	0.0	6.3			
Cycle Q Clear(g_c), s	0.0	16.3	0.0				0.0	0.0	6.3			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	3195	995				0	315	461			
V/C Ratio(X)	0.00	0.72	0.00				0.00	0.00	0.74			
Avail Cap(c_a), veh/h	0	4728	1472				0	1559	2281			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	6.8	0.0				0.0	18.6	21.2			
Incr Delay (d2), s/veh	0.0	0.1	0.0				0.0	0.0	0.9			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	7.4	0.0				0.0	0.0	2.4			
LnGrp Delay(d),s/veh	0.0	6.9	0.0				0.0	18.6	22.1			
LnGrp LOS		A						B	C			
Approach Vol, veh/h		2286						340				
Approach Delay, s/veh		6.9						22.1				
Approach LOS		A						C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		39.6						14.2
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						45.0
Max Q Clear Time (g_c+I1), s		18.3						8.3
Green Ext Time (p_c), s		15.5						0.8

Intersection Summary		
HCM 2010 Ctrl Delay		8.8
HCM 2010 LOS		A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	267	476	83	123	380	123	2	86	916	203	4	31	581	276
Future Volume (veh/h)	267	476	83	123	380	123	2	86	916	203	4	31	581	276
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.96		1.00		0.96		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	330	588	77	141	437	98		91	974	153		36	684	279
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.81	0.81	0.81	0.87	0.87	0.87		0.94	0.94	0.94		0.85	0.85	0.85
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	319	606	82	165	544	299		112	1471	440		159	1144	508
Arrive On Green	0.28	0.28	0.28	0.20	0.20	0.20		0.06	0.29	0.29		0.09	0.32	0.32
Sat Flow, veh/h	1142	2171	293	836	2754	1513		1774	5085	1520		1774	3539	1572
Grp Volume(v), veh/h	522	0	473	307	271	98		91	974	153		36	684	279
Grp Sat Flow(s),veh/h/ln	1806	0	1800	1821	1770	1513		1774	1695	1520		1774	1770	1572
Q Serve(g_s), s	39.1	0.0	36.0	22.8	20.3	7.8		7.1	23.6	11.1		2.6	22.7	20.4
Cycle Q Clear(g_c), s	39.1	0.0	36.0	22.8	20.3	7.8		7.1	23.6	11.1		2.6	22.7	20.4
Prop In Lane	0.63		0.16	0.46		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	504	0	503	360	350	299		112	1471	440		159	1144	508
V/C Ratio(X)	1.03	0.00	0.94	0.85	0.77	0.33		0.81	0.66	0.35		0.23	0.60	0.55
Avail Cap(c_a), veh/h	504	0	503	405	393	336		185	1471	440		159	1144	508
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.78	0.78	0.78		1.00	1.00	1.00		0.69	0.69	0.69
Uniform Delay (d), s/veh	50.5	0.0	49.3	54.2	53.2	48.2		64.7	43.7	39.3		59.2	39.7	39.0
Incr Delay (d2), s/veh	49.3	0.0	25.9	10.9	5.6	0.2		5.2	2.4	2.2		0.2	1.6	2.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	26.4	0.0	21.5	12.5	10.5	3.3		3.6	11.3	4.9		1.3	11.4	9.3
LnGrp Delay(d),s/veh	99.7	0.0	75.2	65.1	58.8	48.4		69.9	46.1	41.5		59.4	41.3	41.9
LnGrp LOS	F		E	E	E	D		E	D	D		E	D	D
Approach Vol, veh/h		995			676				1218				999	
Approach Delay, s/veh		88.1			60.2				47.3				42.1	
Approach LOS		F			E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.4	46.0		44.0	13.3	50.2		32.6
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	9.6	* 41		39.1	14.6	36.1		31.1
Max Q Clear Time (g_c+I1), s	11.6	25.6		41.1	9.1	24.7		24.8
Green Ext Time (p_c), s	0.0	7.6		0.0	0.0	9.2		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	58.6
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1	0	2	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	1	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1622	-	1021	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1622	-	1021	1084
Mov Cap-2 Maneuver	-	-	-	-	1021	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	1622	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	259	15	186	737	105	259	404	106	2
Future Volume (veh/h)	11	142	662	259	15	186	737	105	259	404	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	205		200	792	79	276	430	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1155	322		255	1422	142	333	718	131	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2713	756		3442	3245	324	3442	2964	539	
Grp Volume(v), veh/h		158	480	461		200	432	439	276	255	254	
Grp Sat Flow(s),veh/h/ln		1721	1770	1699		1721	1770	1798	1721	1770	1733	
Q Serve(g_s), s		5.7	26.9	26.9		7.2	22.9	22.9	9.9	16.1	16.4	
Cycle Q Clear(g_c), s		5.7	26.9	26.9		7.2	22.9	22.9	9.9	16.1	16.4	
Prop In Lane		1.00		0.44		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		213	754	724		255	776	788	333	429	420	
V/C Ratio(X)		0.74	0.64	0.64		0.78	0.56	0.56	0.83	0.59	0.60	
Avail Cap(c_a), veh/h		399	754	724		399	776	788	481	479	469	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.5	28.5		57.3	26.3	26.3	55.9	42.3	42.4	
Incr Delay (d2), s/veh		1.9	4.1	4.3		2.1	2.9	2.8	5.2	0.8	1.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	13.9	13.4		3.5	11.8	12.0	5.0	8.0	7.9	
LnGrp Delay(d),s/veh		60.0	32.6	32.7		59.4	29.2	29.1	61.1	43.1	43.4	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1099				1071			785		
Approach Delay, s/veh			36.6				34.8			49.5		
Approach LOS			D				C			D		

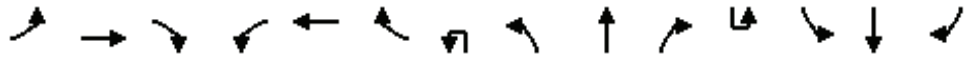
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.7	16.6	37.0	12.2	60.2	18.1	35.4
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	28.9	11.9	34.1	7.7	24.9	13.7	18.4
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.6

Intersection Summary	
HCM 2010 Ctrl Delay	61.5
HCM 2010 LOS	E

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	891	101
Future Volume (veh/h)	160	891	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	938	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	844	67
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3312	261
Grp Volume(v), veh/h	168	501	511
Grp Sat Flow(s),veh/h/ln	1774	1770	1803
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	459
V/C Ratio(X)	0.87	1.11	1.11
Avail Cap(c_a), veh/h	220	451	459
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	76.4	76.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	25.2	25.7
LnGrp Delay(d),s/veh	79.8	123.4	123.0
LnGrp LOS	E	F	F
Approach Vol, veh/h		1180	
Approach Delay, s/veh		117.0	
Approach LOS		F	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	19	7	81	14	1	3	7	70	774	3	1	8	1310	20
Future Volume (veh/h)	19	7	81	14	1	3	7	70	774	3	1	8	1310	20
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.94	0.98		0.97		1.00		0.99		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	28	10	82	22	2	3		74	815	2		9	1394	15
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.69	0.69	0.69	0.64	0.64	0.64		0.95	0.95	0.95		0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	65	30	129	162	16	16		93	2731	7		15	2546	27
Arrive On Green	0.12	0.12	0.12	0.12	0.12	0.12		0.11	1.00	1.00		0.01	0.71	0.71
Sat Flow, veh/h	244	238	1041	889	128	127		1774	3622	9		1774	3586	39
Grp Volume(v), veh/h	120	0	0	27	0	0		74	398	419		9	688	721
Grp Sat Flow(s),veh/h/ln	1523	0	0	1144	0	0		1774	1770	1861		1774	1770	1855
Q Serve(g_s), s	4.6	0.0	0.0	0.0	0.0	0.0		5.1	0.0	0.0		0.6	23.2	23.3
Cycle Q Clear(g_c), s	9.3	0.0	0.0	2.7	0.0	0.0		5.1	0.0	0.0		0.6	23.2	23.3
Prop In Lane	0.23		0.68	0.81		0.11		1.00		0.00		1.00		0.02
Lane Grp Cap(c), veh/h	224	0	0	194	0	0		93	1334	1403		15	1256	1317
V/C Ratio(X)	0.54	0.00	0.00	0.14	0.00	0.00		0.79	0.30	0.30		0.59	0.55	0.55
Avail Cap(c_a), veh/h	384	0	0	335	0	0		234	1334	1403		191	1256	1317
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.94	0.94	0.94		0.09	0.09	0.09
Uniform Delay (d), s/veh	52.4	0.0	0.0	49.4	0.0	0.0		55.7	0.0	0.0		62.2	8.7	8.7
Incr Delay (d2), s/veh	0.7	0.0	0.0	0.1	0.0	0.0		5.2	0.5	0.5		1.2	0.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	0.0	0.9	0.0	0.0		2.6	0.2	0.2		0.3	11.3	11.9
LnGrp Delay(d),s/veh	53.1	0.0	0.0	49.5	0.0	0.0		60.9	0.5	0.5		63.5	8.8	8.8
LnGrp LOS	D			D				E	A	A		E	A	A
Approach Vol, veh/h		120			27				891				1418	
Approach Delay, s/veh		53.1			49.5				5.5				9.2	
Approach LOS		D			D				A				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	5.5	100.0		20.5	11.0	94.5		20.5
Change Period (Y+Rc), s	4.4	5.0		4.9	4.4	* 5		4.9
Max Green Setting (Gmax), s	13.6	69.0		29.1	16.6	* 66		29.1
Max Q Clear Time (g_c+I1), s	2.6	2.0		11.3	7.1	25.3		4.7
Green Ext Time (p_c), s	0.0	14.6		0.4	0.0	8.5		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	10.4
HCM 2010 LOS	B

Notes



Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	44	59	797	51	1	73	1307
Future Volume (veh/h)	44	59	797	51	1	73	1307
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.94		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	49	46	848	38		75	1347
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.89	0.89	0.94	0.94		0.97	0.97
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	82	77	2457	110		95	2861
Arrive On Green	0.10	0.10	1.00	1.00		0.11	1.00
Sat Flow, veh/h	829	778	3543	155		1774	3632
Grp Volume(v), veh/h	96	0	435	451		75	1347
Grp Sat Flow(s),veh/h/ln	1625	0	1770	1835		1774	1770
Q Serve(g_s), s	7.1	0.0	0.0	0.0		5.2	0.0
Cycle Q Clear(g_c), s	7.1	0.0	0.0	0.0		5.2	0.0
Prop In Lane	0.51	0.48		0.08		1.00	
Lane Grp Cap(c), veh/h	161	0	1260	1307		95	2861
V/C Ratio(X)	0.60	0.00	0.35	0.35		0.79	0.47
Avail Cap(c_a), veh/h	311	0	1260	1307		248	2861
HCM Platoon Ratio	1.00	1.00	2.00	2.00		2.00	2.00
Upstream Filter(I)	1.00	0.00	0.96	0.96		0.82	0.82
Uniform Delay (d), s/veh	54.4	0.0	0.0	0.0		55.6	0.0
Incr Delay (d2), s/veh	1.3	0.0	0.7	0.7		4.5	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	3.3	0.0	0.3	0.3		2.7	0.2
LnGrp Delay(d),s/veh	55.7	0.0	0.7	0.7		60.1	0.5
LnGrp LOS	E		A	A		E	A
Approach Vol, veh/h	96		886				1422
Approach Delay, s/veh	55.7		0.7				3.6
Approach LOS	E		A				A

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	12.1	95.5				107.6		18.4
Change Period (Y+Rc), s	5.4	* 5.8				5.8		5.9
Max Green Setting (Gmax), s	17.6	* 67				90.2		24.1
Max Q Clear Time (g_c+I1), s	7.2	2.0				2.0		9.1
Green Ext Time (p_c), s	0.1	12.7				29.1		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	4.6
HCM 2010 LOS	A

Notes

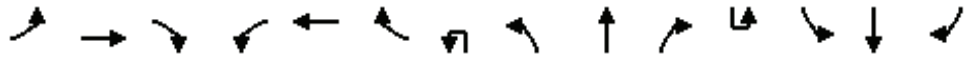


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	89	6	43	15	5	16	3	19	736	15	12	1204	129
Future Volume (veh/h)	89	6	43	15	5	16	3	19	736	15	12	1204	129
Number	7	4	14	3	8	18		1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	1.00		0.99		1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	100	7	33	23	8	17		20	783	11	13	1295	97
Adj No. of Lanes	0	1	0	0	1	0		1	2	0	1	2	0
Peak Hour Factor	0.89	0.89	0.89	0.64	0.64	0.64		0.94	0.94	0.94	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h	170	10	41	115	45	65		28	2695	38	21	2503	187
Arrive On Green	0.11	0.11	0.11	0.11	0.11	0.11		0.02	0.75	0.75	0.02	1.00	1.00
Sat Flow, veh/h	1059	91	355	640	391	565		1774	3573	50	1774	3338	249
Grp Volume(v), veh/h	140	0	0	48	0	0		20	388	406	13	685	707
Grp Sat Flow(s),veh/h/ln	1504	0	0	1596	0	0		1774	1770	1854	1774	1770	1818
Q Serve(g_s), s	8.0	0.0	0.0	0.0	0.0	0.0		1.4	8.7	8.7	0.9	0.0	0.0
Cycle Q Clear(g_c), s	11.3	0.0	0.0	3.3	0.0	0.0		1.4	8.7	8.7	0.9	0.0	0.0
Prop In Lane	0.71		0.24	0.48		0.35		1.00		0.03	1.00		0.14
Lane Grp Cap(c), veh/h	221	0	0	225	0	0		28	1335	1398	21	1327	1363
V/C Ratio(X)	0.63	0.00	0.00	0.21	0.00	0.00		0.71	0.29	0.29	0.63	0.52	0.52
Avail Cap(c_a), veh/h	421	0	0	434	0	0		234	1335	1398	234	1327	1363
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.91	0.91	0.91	0.88	0.88	0.88
Uniform Delay (d), s/veh	54.1	0.0	0.0	50.8	0.0	0.0		61.7	4.9	4.9	61.3	0.0	0.0
Incr Delay (d2), s/veh	1.1	0.0	0.0	0.2	0.0	0.0		10.3	0.5	0.5	9.9	1.3	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	0.0	0.0	1.5	0.0	0.0		0.8	4.4	4.6	0.5	0.5	0.5
LnGrp Delay(d),s/veh	55.3	0.0	0.0	51.0	0.0	0.0		72.0	5.4	5.4	71.2	1.3	1.2
LnGrp LOS	E			D				E	A	A	E	A	A
Approach Vol, veh/h		140			48				814			1405	
Approach Delay, s/veh		55.3			51.0				7.0			1.9	
Approach LOS		E			D				A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	6.4	100.3		19.3	5.9	100.8		19.3
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	16.6	* 63		32.1	16.6	62.2		32.1
Max Q Clear Time (g_c+I1), s	13.4	2.0		13.3	2.9	10.7		5.3
Green Ext Time (p_c), s	0.0	21.7		0.4	0.0	8.0		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	7.7
HCM 2010 LOS	A

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	31	29	34	238	26	88	9	44	708	266	15	130	1010	46
Future Volume (veh/h)	31	29	34	238	26	88	9	44	708	266	15	130	1010	46
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.96		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	38	36	30	253	28	66		49	787	208		140	1086	34
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.81	0.81	0.81	0.94	0.94	0.94		0.90	0.90	0.90		0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	35	31	13	279	25	532		191	1819	476		164	2185	68
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35		0.04	0.15	0.15		0.09	0.43	0.43
Sat Flow, veh/h	0	88	36	655	73	1517		1774	3993	1045		1774	5065	158
Grp Volume(v), veh/h	104	0	0	281	0	66		49	667	328		140	727	393
Grp Sat Flow(s),veh/h/ln	124	0	0	728	0	1517		1774	1695	1648		1774	1695	1833
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	4.1		3.8	25.0	25.3		10.9	21.7	21.7
Cycle Q Clear(g_c), s	49.1	0.0	0.0	49.1	0.0	4.1		3.8	25.0	25.3		10.9	21.7	21.7
Prop In Lane	0.37		0.29	0.90		1.00		1.00		0.63		1.00		0.09
Lane Grp Cap(c), veh/h	79	0	0	304	0	532		191	1544	751		164	1463	791
V/C Ratio(X)	1.32	0.00	0.00	0.92	0.00	0.12		0.26	0.43	0.44		0.85	0.50	0.50
Avail Cap(c_a), veh/h	79	0	0	304	0	532		198	1544	751		274	1463	791
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.33	0.33	0.33		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.95	0.95	0.95		0.80	0.80	0.80
Uniform Delay (d), s/veh	43.8	0.0	0.0	47.7	0.0	30.9		62.0	43.0	43.2		62.6	28.8	28.8
Incr Delay (d2), s/veh	209.4	0.0	0.0	31.9	0.0	0.0		0.2	0.8	1.7		4.8	1.0	1.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.6	0.0	0.0	13.5	0.0	1.7		1.9	12.0	12.0		5.5	10.4	11.4
LnGrp Delay(d),s/veh	253.2	0.0	0.0	79.6	0.0	30.9		62.3	43.9	44.9		67.4	29.8	30.6
LnGrp LOS	F			E		C		E	D	D		E	C	C
Approach Vol, veh/h		104			347				1044				1260	
Approach Delay, s/veh		253.2			70.4				45.1				34.2	
Approach LOS		F			E				D				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.3	68.7		54.0	20.0	66.0		54.0
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	12.6	35.1		49.1	15.6	* 60		49.1
Max Q Clear Time (g_c+I1), s	12.9	27.3		51.1	5.8	23.7		51.1
Green Ext Time (p_c), s	0.1	6.7		0.0	0.0	20.5		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	51.1
HCM 2010 LOS	D

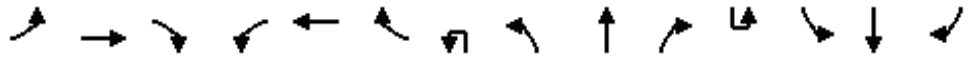
Notes

Intersection	
Intersection Delay, s/veh	10.8
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	56	41	185	67	12	83	46	61	6	90	2
Future Vol, veh/h	0	56	41	185	67	12	83	46	61	6	90	2
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	85	62	213	77	14	91	51	67	7	111	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.4	12.2	10.5	9.7
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	44%	0%	70%	6%
Vol Thru, %	24%	58%	25%	92%
Vol Right, %	32%	42%	5%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	190	97	264	98
LT Vol	83	0	185	6
Through Vol	46	56	67	90
RT Vol	61	41	12	2
Lane Flow Rate	209	147	303	121
Geometry Grp	1	1	1	1
Degree of Util (X)	0.302	0.206	0.437	0.183
Departure Headway (Hd)	5.213	5.04	5.187	5.458
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	689	713	698	657
Service Time	3.245	3.069	3.187	3.495
HCM Lane V/C Ratio	0.303	0.206	0.434	0.184
HCM Control Delay	10.5	9.4	12.2	9.7
HCM Lane LOS	B	A	B	A
HCM 95th-tile Q	1.3	0.8	2.2	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	52	43	126	109	38	129	17	104	797	130	8	176	963	126
Future Volume (veh/h)	52	43	126	109	38	129	17	104	797	130	8	176	963	126
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.96	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	55	46	94	118	41	98		114	876	101		185	1014	93
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	207	107	219	205	96	230		533	2685	308		207	1393	604
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20		0.30	0.58	0.58		0.23	0.79	0.79
Sat Flow, veh/h	1232	533	1089	1226	479	1144		1774	4621	530		1774	3539	1534
Grp Volume(v), veh/h	55	0	140	118	0	139		114	642	335		185	1014	93
Grp Sat Flow(s),veh/h/ln	1232	0	1622	1226	0	1623		1774	1695	1762		1774	1770	1534
Q Serve(g_s), s	5.7	0.0	10.6	13.0	0.0	10.5		6.7	13.7	13.8		14.1	20.0	2.1
Cycle Q Clear(g_c), s	16.2	0.0	10.6	23.6	0.0	10.5		6.7	13.7	13.8		14.1	20.0	2.1
Prop In Lane	1.00		0.67	1.00		0.71		1.00		0.30		1.00		1.00
Lane Grp Cap(c), veh/h	207	0	326	205	0	326		533	1970	1023		207	1393	604
V/C Ratio(X)	0.27	0.00	0.43	0.58	0.00	0.43		0.21	0.33	0.33		0.89	0.73	0.15
Avail Cap(c_a), veh/h	400	0	580	398	0	581		533	1970	1023		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.91	0.91	0.91
Uniform Delay (d), s/veh	56.0	0.0	48.9	59.3	0.0	48.9		36.6	15.2	15.2		52.8	11.2	9.3
Incr Delay (d2), s/veh	0.5	0.0	0.7	1.9	0.0	0.7		0.1	0.4	0.9		4.8	3.1	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	4.8	4.5	0.0	4.8		3.3	6.5	7.0		7.2	9.9	0.9
LnGrp Delay(d),s/veh	56.5	0.0	49.6	61.2	0.0	49.6		36.7	15.6	16.0		57.6	14.2	9.8
LnGrp LOS	E		D	E		D		D	B	B		E	B	A
Approach Vol, veh/h		195			257				1091				1292	
Approach Delay, s/veh		51.6			54.9				17.9				20.1	
Approach LOS		D			D				B				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	86.2		33.0	47.0	60.0		33.0
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	36.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	18.1	15.8		18.2	8.7	22.0		25.6
Green Ext Time (p_c), s	0.2	8.0		0.9	0.1	10.8		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	24.6
HCM 2010 LOS	C

Notes

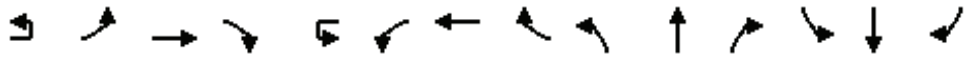


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	356	995	68	474	878	119	21	85	310	369	270	656	288
Future Volume (veh/h)	15	356	995	68	474	878	119	21	85	310	369	270	656	288
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		371	1036	52	504	934	93		90	330	281	314	763	237
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		565	1156	58	551	1040	104		110	672	538	333	834	259
Arrive On Green		0.16	0.34	0.34	0.16	0.32	0.32		0.06	0.19	0.19	0.19	0.32	0.32
Sat Flow, veh/h		3442	3423	172	3442	3238	322		1774	3539	1499	1774	2645	822
Grp Volume(v), veh/h		371	536	552	504	510	517		90	330	281	314	510	490
Grp Sat Flow(s),veh/h/ln		1721	1770	1825	1721	1770	1791		1774	1770	1499	1774	1770	1697
Q Serve(g_s), s		16.0	45.6	45.6	22.9	43.7	43.7		8.0	13.2	23.8	27.7	44.1	44.1
Cycle Q Clear(g_c), s		16.0	45.6	45.6	22.9	43.7	43.7		8.0	13.2	23.8	27.7	44.1	44.1
Prop In Lane		1.00		0.09	1.00		0.18		1.00		1.00	1.00		0.48
Lane Grp Cap(c), veh/h		565	598	617	551	568	575		110	672	538	333	558	535
V/C Ratio(X)		0.66	0.90	0.90	0.92	0.90	0.90		0.82	0.49	0.52	0.94	0.91	0.91
Avail Cap(c_a), veh/h		651	669	690	651	669	677		335	892	631	335	558	535
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		62.1	49.9	49.9	65.6	51.4	51.4		73.5	57.4	41.3	63.7	52.3	52.3
Incr Delay (d2), s/veh		1.3	14.0	13.7	14.9	13.6	13.5		5.5	0.4	0.5	34.2	19.7	20.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.7	24.6	25.4	12.1	23.5	23.8		4.1	6.5	9.9	16.8	24.6	23.7
LnGrp Delay(d),s/veh		63.4	63.9	63.6	80.5	65.0	64.9		79.0	57.8	41.8	97.9	72.0	72.6
LnGrp LOS		E	E	E	F	E	E		E	E	D	F	E	E
Approach Vol, veh/h			1459			1531				701			1314	
Approach Delay, s/veh			63.7			70.0				54.1			78.4	
Approach LOS			E			E				D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.8	59.3	14.3	55.3	31.8	57.4	34.2	35.4
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	24.9	47.6	10.0	46.1	18.0	45.7	29.7	25.8
Green Ext Time (p_c), s	0.5	6.0	0.1	0.0	0.5	5.3	0.0	2.1

Intersection Summary	
HCM 2010 Ctrl Delay	68.2
HCM 2010 LOS	E

Notes

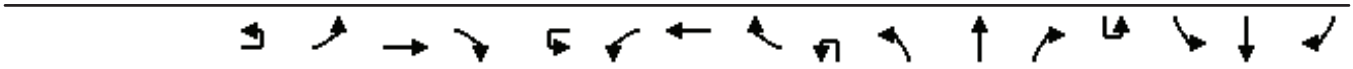


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	32	1274	169	47	76	1313	100	123	54	38	54	134	121
Future Volume (veh/h)	6	32	1274	169	47	76	1313	100	123	54	38	54	134	121
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		34	1341	134		81	1397	75	138	61	31	59	147	93
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		182	1554	155		102	1435	77	154	68	35	62	154	98
Arrive On Green		0.10	0.48	0.48		0.02	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3251	323		1774	3417	183	1058	468	238	345	860	544
Grp Volume(v), veh/h		34	727	748		81	722	750	230	0	0	299	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1805		1774	1770	1830	1763	0	0	1748	0	0
Q Serve(g_s), s		2.5	51.0	51.7		6.4	56.8	57.1	17.9	0.0	0.0	23.7	0.0	0.0
Cycle Q Clear(g_c), s		2.5	51.0	51.7		6.4	56.8	57.1	17.9	0.0	0.0	23.7	0.0	0.0
Prop In Lane		1.00		0.18		1.00		0.10	0.60		0.13	0.20		0.31
Lane Grp Cap(c), veh/h		182	846	863		102	743	769	257	0	0	313	0	0
V/C Ratio(X)		0.19	0.86	0.87		0.80	0.97	0.98	0.89	0.00	0.00	0.95	0.00	0.00
Avail Cap(c_a), veh/h		182	846	863		172	743	769	316	0	0	313	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.50	0.50	0.50	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		57.5	32.4	32.6		67.9	59.5	59.6	58.7	0.0	0.0	56.9	0.0	0.0
Incr Delay (d2), s/veh		0.2	11.1	11.4		2.7	17.5	17.9	20.5	0.0	0.0	38.2	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.2	27.4	28.5		3.2	31.5	32.9	10.2	0.0	0.0	14.8	0.0	0.0
LnGrp Delay(d),s/veh		57.6	43.4	43.9		70.5	76.9	77.5	79.3	0.0	0.0	95.1	0.0	0.0
LnGrp LOS		E	D	D		E	E	E	E			F		
Approach Vol, veh/h			1509				1553			230			299	
Approach Delay, s/veh			44.0				76.9			79.3			95.1	
Approach LOS			D				E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.4	72.2		30.0	19.7	65.0		25.3
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	19.4	53.7		25.7	4.5	59.1		19.9
Green Ext Time (p_c), s	0.0	2.6		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	64.7
HCM 2010 LOS	E

Notes

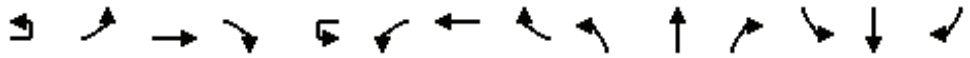


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	272	887	225	8	278	969	269	13	267	514	146	31	361	647	182
Future Volume (veh/h)	3	272	887	225	8	278	969	269	13	267	514	146	31	361	647	182
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.96		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		296	964	172		309	1077	212		297	571	130		406	727	144
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		322	1058	189		577	1470	289		346	829	184		461	828	345
Arrive On Green		0.06	0.12	0.12		0.06	0.11	0.11		0.20	0.40	0.40		0.13	0.23	0.23
Sat Flow, veh/h		1774	2981	531		3442	4229	831		3442	4131	918		3442	3539	1473
Grp Volume(v), veh/h		296	572	564		309	863	426		297	466	235		406	727	144
Grp Sat Flow(s),veh/h/ln		1774	1770	1743		1721	1695	1670		1721	1695	1659		1721	1770	1473
Q Serve(g_s), s		23.2	44.7	44.8		12.2	34.4	34.5		11.7	15.9	16.6		16.2	27.7	11.6
Cycle Q Clear(g_c), s		23.2	44.7	44.8		12.2	34.4	34.5		11.7	15.9	16.6		16.2	27.7	11.6
Prop In Lane		1.00		0.30		1.00		0.50		1.00		0.55		1.00		1.00
Lane Grp Cap(c), veh/h		322	628	619		577	1179	581		346	680	333		461	828	345
V/C Ratio(X)		0.92	0.91	0.91		0.54	0.73	0.73		0.86	0.69	0.71		0.88	0.88	0.42
Avail Cap(c_a), veh/h		362	628	619		577	1179	581		556	753	369		629	862	359
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.85	0.85	0.85		0.94	0.94	0.94		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.8	59.6	59.6		60.8	55.7	55.7		55.0	38.3	38.5		59.5	51.7	45.5
Incr Delay (d2), s/veh		3.5	2.5	2.5		0.4	3.4	6.8		4.0	2.8	6.4		8.7	10.5	1.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		11.7	22.4	22.1		5.9	16.8	17.1		5.7	7.6	8.2		8.3	14.7	4.9
LnGrp Delay(d),s/veh		68.3	62.1	62.2		61.3	59.1	62.5		59.0	41.1	44.9		68.2	62.2	46.9
LnGrp LOS		E	E	E		E	E	E		E	D	D		E	E	D
Approach Vol, veh/h			1432				1598				998				1277	
Approach Delay, s/veh			63.4				60.4				47.3				62.4	
Approach LOS			E				E				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.9	55.0	18.5	37.7	29.8	54.1	23.1	33.0
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	14.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	4.2	46.8	13.7	29.7	25.2	36.5	18.2	18.6
Green Ext Time (p_c), s	0.0	1.9	0.4	2.7	0.2	0.0	0.5	5.4

Intersection Summary	
HCM 2010 Ctrl Delay	59.2
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	7	137	1061	86	30	143	1299	140	119	43	119	229	68	220
Future Volume (veh/h)	7	137	1061	86	30	143	1299	140	119	43	119	229	68	220
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.98	0.98		0.94	0.97		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		149	1153	65		146	1326	100	132	48	92	260	77	180
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.92	0.92	0.92		0.98	0.98	0.98	0.90	0.90	0.90	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		196	2561	144		193	2504	189	377	380	305	419	400	329
Arrive On Green		0.11	1.00	1.00		0.11	1.00	1.00	0.07	0.20	0.20	0.08	0.21	0.21
Sat Flow, veh/h		3442	4922	277		3442	4819	363	1774	1863	1495	1774	1863	1530
Grp Volume(v), veh/h		149	794	424		146	933	493	132	48	92	260	77	180
Grp Sat Flow(s),veh/h/ln		1721	1695	1809		1721	1695	1792	1774	1863	1495	1774	1863	1530
Q Serve(g_s), s		5.9	0.0	0.0		5.8	0.0	0.0	8.1	2.9	7.3	11.6	4.7	14.7
Cycle Q Clear(g_c), s		5.9	0.0	0.0		5.8	0.0	0.0	8.1	2.9	7.3	11.6	4.7	14.7
Prop In Lane		1.00		0.15		1.00		0.20	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		196	1764	941		193	1761	931	377	380	305	419	400	329
V/C Ratio(X)		0.76	0.45	0.45		0.76	0.53	0.53	0.35	0.13	0.30	0.62	0.19	0.55
Avail Cap(c_a), veh/h		334	1764	941		334	1761	931	396	573	460	419	573	471
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.39	0.39	0.39		0.65	0.65	0.65	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		61.1	0.0	0.0		61.2	0.0	0.0	39.6	45.5	47.2	43.0	45.0	48.9
Incr Delay (d2), s/veh		0.9	0.3	0.6		1.5	0.7	1.4	0.2	0.1	0.2	2.1	0.1	0.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.8	0.1	0.2		2.8	0.2	0.4	4.0	1.5	3.0	8.2	2.4	6.2
LnGrp Delay(d),s/veh		62.0	0.3	0.6		62.7	0.7	1.4	39.8	45.6	47.4	45.1	45.1	49.4
LnGrp LOS		E	A	A		E	A	A	D	D	D	D	D	D
Approach Vol, veh/h			1367				1572			272			517	
Approach Delay, s/veh			7.1				6.7			43.4			46.6	
Approach LOS			A				A			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.2	78.3	14.5	35.0	12.4	78.1	16.0	33.5
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	13.6	* 53	11.6	43.1	13.6	52.6	11.6	43.1
Max Q Clear Time (g_c+I1), s	7.8	2.0	10.1	16.7	7.9	2.0	13.6	9.3
Green Ext Time (p_c), s	0.1	21.7	0.0	0.6	0.1	17.8	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	15.1
HCM 2010 LOS	B

Notes

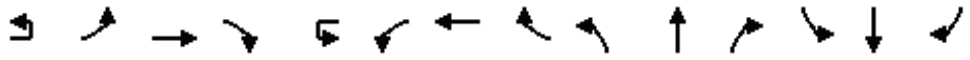


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	38	118	1217	92	333	1553	160	79	116	245	245	415	181
Future Volume (veh/h)	38	118	1217	92	333	1553	160	79	116	245	245	415	181
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.95	1.00		0.93	1.00		0.95
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		126	1295	68	362	1688	123	89	130	240	278	472	145
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.94	0.94	0.94	0.92	0.92	0.92	0.89	0.89	0.89	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		149	1697	89	386	2301	167	135	386	650	325	930	395
Arrive On Green		0.08	0.34	0.34	0.22	0.48	0.48	0.03	0.14	0.14	0.09	0.26	0.26
Sat Flow, veh/h		1774	4934	259	1774	4820	351	3442	1863	1469	3442	3539	1503
Grp Volume(v), veh/h		126	890	473	362	1186	625	89	130	240	278	472	145
Grp Sat Flow(s),veh/h/ln		1774	1695	1803	1774	1695	1781	1721	1863	1469	1721	1770	1503
Q Serve(g_s), s		9.8	32.7	32.7	28.1	39.4	39.5	3.6	8.8	16.0	11.1	15.9	11.0
Cycle Q Clear(g_c), s		9.8	32.7	32.7	28.1	39.4	39.5	3.6	8.8	16.0	11.1	15.9	11.0
Prop In Lane		1.00		0.14	1.00		0.20	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		149	1166	620	386	1619	850	135	386	650	325	930	395
V/C Ratio(X)		0.84	0.76	0.76	0.94	0.73	0.73	0.66	0.34	0.37	0.85	0.51	0.37
Avail Cap(c_a), veh/h		236	1166	620	527	1619	850	310	494	734	359	988	420
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00	0.67	0.67	0.67	1.00	1.00	1.00
Upstream Filter(I)		0.86	0.86	0.86	0.66	0.66	0.66	0.48	0.48	0.48	1.00	1.00	1.00
Uniform Delay (d), s/veh		63.2	40.9	40.9	53.8	29.4	29.4	67.2	51.6	30.1	62.4	43.9	42.1
Incr Delay (d2), s/veh		7.3	4.1	7.5	13.2	2.0	3.7	1.0	0.1	0.1	15.4	0.2	0.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.1	16.0	17.6	15.2	18.9	20.3	1.7	4.6	6.5	6.0	7.8	4.6
LnGrp Delay(d),s/veh		70.5	45.0	48.4	67.0	31.4	33.2	68.2	51.7	30.2	77.9	44.1	42.3
LnGrp LOS		E	D	D	E	C	C	E	D	C	E	D	D
Approach Vol, veh/h			1489			2173			459			895	
Approach Delay, s/veh			48.2			37.8			43.6			54.3	
Approach LOS			D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.9	53.5	9.9	41.7	16.2	72.2	17.6	33.9
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	10.6	* 28	12.6	39.1	18.6	50.6	14.6	37.1
Max Q Clear Time (g_c+I1), s	30.1	34.7	5.6	17.9	11.8	41.5	13.1	18.0
Green Ext Time (p_c), s	0.4	0.0	0.1	2.4	0.1	8.5	0.1	0.9

Intersection Summary	
HCM 2010 Ctrl Delay	44.4
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	55	1617	54	8	117	2019	30	14	16	85	39	46	49
Future Volume (veh/h)	13	55	1617	54	8	117	2019	30	14	16	85	39	46	49
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.95	1.00		0.95
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		60	1758	42		122	2103	22	15	17	67	46	55	40
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.92	0.92	0.92		0.96	0.96	0.96	0.92	0.92	0.92	0.84	0.84	0.84
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		432	2932	70		144	2097	22	26	30	118	54	64	47
Arrive On Green		0.32	0.76	0.76		0.16	0.81	0.81	0.11	0.11	0.11	0.10	0.10	0.10
Sat Flow, veh/h		1774	5109	122		1774	5188	54	241	273	1076	560	670	487
Grp Volume(v), veh/h		60	1166	634		122	1374	751	99	0	0	141	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1841		1774	1695	1852	1590	0	0	1717	0	0
Q Serve(g_s), s		3.4	21.0	21.0		9.4	56.6	56.6	8.3	0.0	0.0	11.3	0.0	0.0
Cycle Q Clear(g_c), s		3.4	21.0	21.0		9.4	56.6	56.6	8.3	0.0	0.0	11.3	0.0	0.0
Prop In Lane		1.00		0.07		1.00		0.03	0.15		0.68	0.33		0.28
Lane Grp Cap(c), veh/h		432	1946	1057		144	1371	749	175	0	0	165	0	0
V/C Ratio(X)		0.14	0.60	0.60		0.85	1.00	1.00	0.57	0.00	0.00	0.86	0.00	0.00
Avail Cap(c_a), veh/h		432	1946	1057		248	1371	749	399	0	0	210	0	0
HCM Platoon Ratio		1.33	1.33	1.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.66	0.66	0.66		0.72	0.72	0.72	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		36.9	9.5	9.5		57.8	13.4	13.4	59.1	0.0	0.0	62.3	0.0	0.0
Incr Delay (d2), s/veh		0.0	0.9	1.7		3.8	21.1	28.7	1.1	0.0	0.0	19.9	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	9.8	10.8		4.7	28.8	33.0	3.7	0.0	0.0	6.3	0.0	0.0
LnGrp Delay(d),s/veh		37.0	10.5	11.2		61.7	34.5	42.1	60.2	0.0	0.0	82.2	0.0	0.0
LnGrp LOS		D	B	B		E	F	F	E			F		
Approach Vol, veh/h			1860				2247			99			141	
Approach Delay, s/veh			11.6				38.5			60.2			82.2	
Approach LOS			B				D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.7	85.7		20.3	39.4	62.0		18.3
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 5.4		4.9
Max Green Setting (Gmax), s	10.6	48.7		35.1	11.6	* 57		17.1
Max Q Clear Time (g_c+I1), s	11.4	23.0		10.3	5.4	58.6		13.3
Green Ext Time (p_c), s	0.1	20.8		0.3	0.0	0.0		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	28.9
HCM 2010 LOS	C

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1512	205	476	2010	294	149	54	335	193	158	18
Future Volume (veh/h)	20	1512	205	476	2010	294	149	54	335	193	158	18
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1559	166	491	2072	212	115	137	333	214	176	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1864	198	400	3196	993	191	201	1043	191	183	15
Arrive On Green	0.03	0.84	0.84	0.23	0.63	0.63	0.11	0.11	0.11	0.11	0.11	0.11
Sat Flow, veh/h	1774	4451	473	1774	5085	1581	1774	1863	3045	1774	1696	135
Grp Volume(v), veh/h	21	1109	616	491	2072	212	115	137	333	214	0	190
Grp Sat Flow(s),veh/h/ln	1774	1583	1758	1774	1695	1581	1774	1863	1522	1774	0	1831
Q Serve(g_s), s	1.6	26.6	26.7	31.6	35.8	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Cycle Q Clear(g_c), s	1.6	26.6	26.7	31.6	35.8	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Prop In Lane	1.00		0.27	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	28	1326	736	400	3196	993	191	201	1043	191	0	198
V/C Ratio(X)	0.74	0.84	0.84	1.23	0.65	0.21	0.60	0.68	0.32	1.12	0.00	0.96
Avail Cap(c_a), veh/h	134	1326	736	400	3196	993	318	334	1261	191	0	198
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.73	0.73	0.73	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	8.8	8.8	54.2	16.3	11.2	59.6	60.2	34.9	62.5	0.0	62.2
Incr Delay (d2), s/veh	9.9	4.7	8.2	122.1	1.0	0.5	2.3	3.0	0.1	100.4	0.0	52.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	11.6	13.7	29.0	17.0	3.7	4.4	5.3	4.8	12.7	0.0	10.2
LnGrp Delay(d),s/veh	77.3	13.5	17.0	176.3	17.3	11.7	61.8	63.2	35.0	162.9	0.0	114.8
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1746			2775			585			404	
Approach Delay, s/veh		15.5			45.0			46.9			140.3	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	64.0		20.0	6.6	93.4		20.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	13.6	28.7		17.1	3.6	37.8		13.5
Green Ext Time (p_c), s	0.0	16.5		0.0	0.0	25.6		1.6

Intersection Summary	
HCM 2010 Ctrl Delay	42.9
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					↑↑↑	↱					↑	↱↱
Traffic Volume (veh/h)	0	0	0	0	2373	0	0	0	0	0	1	418
Future Volume (veh/h)	0	0	0	0	2373	0	0	0	0	0	1	418
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		0.98
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	2472	0				0	1	401
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.96	0.96	0.96				0.91	0.91	0.91
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	3355	1045				0	340	498
Arrive On Green				0.00	0.66	0.00				0.00	0.18	0.18
Sat Flow, veh/h				0	5253	1583				0	1863	2732
Grp Volume(v), veh/h				0	2472	0				0	1	401
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1366
Q Serve(g_s), s				0.0	18.4	0.0				0.0	0.0	8.0
Cycle Q Clear(g_c), s				0.0	18.4	0.0				0.0	0.0	8.0
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	3355	1045				0	340	498
V/C Ratio(X)				0.00	0.74	0.00				0.00	0.00	0.80
Avail Cap(c_a), veh/h				0	4574	1424				0	1163	1705
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	6.4	0.0				0.0	19.1	22.3
Incr Delay (d2), s/veh				0.0	0.2	0.0				0.0	0.0	1.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	8.3	0.0				0.0	0.0	3.1
LnGrp Delay(d),s/veh				0.0	6.7	0.0				0.0	19.1	23.5
LnGrp LOS					A						B	C
Approach Vol, veh/h					2472						402	
Approach Delay, s/veh					6.7						23.5	
Approach LOS					A						C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				14.9		42.1		
Change Period (Y+Rc), s				4.5		4.5		
Max Green Setting (Gmax), s				35.6		51.3		
Max Q Clear Time (g_c+I1), s				10.0		20.4		
Green Ext Time (p_c), s				0.4		17.3		

Intersection Summary	
HCM 2010 Ctrl Delay	9.0
HCM 2010 LOS	A

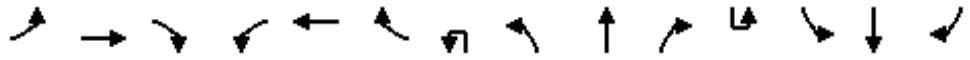
Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1500	338	0	0	0	0	1	485	0	0	0
Future Volume (veh/h)	0	1500	338	0	0	0	0	1	485	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	1579	0				0	1	453			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.95	0.95	0.95				0.91	0.91	0.91			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	2532	788				0	431	623			
Arrive On Green	0.00	0.50	0.00				0.00	0.23	0.23			
Sat Flow, veh/h	0	5253	1583				0	1863	2694			
Grp Volume(v), veh/h	0	1579	0				0	1	453			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1347			
Q Serve(g_s), s	0.0	9.1	0.0				0.0	0.0	6.3			
Cycle Q Clear(g_c), s	0.0	9.1	0.0				0.0	0.0	6.3			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	2532	788				0	431	623			
V/C Ratio(X)	0.00	0.62	0.00				0.00	0.00	0.73			
Avail Cap(c_a), veh/h	0	6317	1967				0	2082	3012			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	7.4	0.0				0.0	11.9	14.3			
Incr Delay (d2), s/veh	0.0	0.1	0.0				0.0	0.0	0.6			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	4.1	0.0				0.0	0.0	2.4			
LnGrp Delay(d),s/veh	0.0	7.5	0.0				0.0	11.9	14.9			
LnGrp LOS		A						B	B			
Approach Vol, veh/h		1579						454				
Approach Delay, s/veh		7.5						14.9				
Approach LOS		A						B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		25.8						14.4
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						45.0
Max Q Clear Time (g_c+I1), s		11.1						8.3
Green Ext Time (p_c), s		8.9						1.1

Intersection Summary	
HCM 2010 Ctrl Delay	9.1
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	222	298	124	347	359	107	4	73	567	158	8	96	908	250
Future Volume (veh/h)	222	298	124	347	359	107	4	73	567	158	8	96	908	250
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.95		1.00		0.94		1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	247	331	99	408	422	88		76	591	118		99	936	194
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.90	0.90	0.90	0.85	0.85	0.85		0.96	0.96	0.96		0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	268	382	118	443	442	378		95	1398	409		202	1214	534
Arrive On Green	0.22	0.22	0.22	0.25	0.25	0.25		0.05	0.28	0.28		0.11	0.34	0.34
Sat Flow, veh/h	1235	1759	542	1774	1770	1511		1774	5085	1487		1774	3539	1557
Grp Volume(v), veh/h	360	0	317	408	422	88		76	591	118		99	936	194
Grp Sat Flow(s),veh/h/ln	1801	0	1736	1774	1770	1511		1774	1695	1487		1774	1770	1557
Q Serve(g_s), s	27.4	0.0	24.5	31.4	32.9	6.5		5.9	13.3	8.7		7.3	33.1	13.1
Cycle Q Clear(g_c), s	27.4	0.0	24.5	31.4	32.9	6.5		5.9	13.3	8.7		7.3	33.1	13.1
Prop In Lane	0.69		0.31	1.00		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	391	0	377	443	442	378		95	1398	409		202	1214	534
V/C Ratio(X)	0.92	0.00	0.84	0.92	0.95	0.23		0.80	0.42	0.29		0.49	0.77	0.36
Avail Cap(c_a), veh/h	400	0	386	445	444	379		134	1398	409		202	1214	534
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.52	0.52	0.52		1.00	1.00	1.00		0.36	0.36	0.36
Uniform Delay (d), s/veh	53.6	0.0	52.5	51.1	51.7	41.8		65.5	41.6	40.0		58.2	41.1	34.5
Incr Delay (d2), s/veh	25.6	0.0	14.2	14.6	20.2	0.1		13.0	0.9	1.8		0.2	1.8	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.4	0.0	13.2	17.2	18.5	2.7		3.3	6.4	3.8		3.6	16.4	5.7
LnGrp Delay(d),s/veh	79.3	0.0	66.7	65.8	71.9	41.9		78.5	42.6	41.7		58.5	42.8	35.2
LnGrp LOS	E		E	E	E	D		E	D	D		E	D	D
Approach Vol, veh/h		677			918				785				1229	
Approach Delay, s/veh		73.4			66.3				45.9				42.9	
Approach LOS		E			E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	44.0		35.3	11.9	52.9		39.9
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	15.6	* 39		31.1	10.6	44.1		35.1
Max Q Clear Time (g_c+I1), s	19.3	15.3		29.4	7.9	35.1		34.9
Green Ext Time (p_c), s	0.1	5.7		0.6	0.0	8.0		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	55.2
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1	0	2	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	1	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1622	-	1021	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1622	-	1021	1084
Mov Cap-2 Maneuver	-	-	-	-	1021	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	1622	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

Appendix H
Peak Hour Intersection LOS Worksheets – Near-Term Year 2021 Base Plus Project Conditions

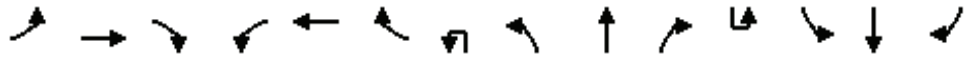
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	146	9	106	520	320	177	1040	67	6
Future Volume (veh/h)	6	208	437	146	9	106	520	320	177	1040	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	113		114	559	241	182	1072	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	935	228		266	794	341	244	1114	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.33	0.33	0.09	0.43	0.43	
Sat Flow, veh/h		3442	2804	683		3442	2380	1023	3442	3446	154	
Grp Volume(v), veh/h		219	289	284		114	415	385	182	550	570	
Grp Sat Flow(s),veh/h/ln		1721	1770	1718		1721	1770	1633	1721	1770	1830	
Q Serve(g_s), s		6.7	14.0	14.3		3.4	22.1	22.2	5.6	32.7	32.7	
Cycle Q Clear(g_c), s		6.7	14.0	14.3		3.4	22.1	22.2	5.6	32.7	32.7	
Prop In Lane		1.00		0.40		1.00		0.63	1.00		0.08	
Lane Grp Cap(c), veh/h		283	590	573		266	591	545	244	572	592	
V/C Ratio(X)		0.77	0.49	0.50		0.43	0.70	0.71	0.75	0.96	0.96	
Avail Cap(c_a), veh/h		433	590	573		274	591	545	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.85	0.85	0.85	
Uniform Delay (d), s/veh		48.6	28.7	28.8		47.6	31.3	31.4	48.0	30.1	30.1	
Incr Delay (d2), s/veh		1.9	2.9	3.1		0.4	6.9	7.5	1.5	25.3	24.9	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.3	7.3		1.6	11.9	11.1	2.7	19.9	20.5	
LnGrp Delay(d),s/veh		50.5	31.6	31.8		48.0	38.2	38.9	49.4	55.4	55.0	
LnGrp LOS		D	C	C		D	D	D	D	E	E	
Approach Vol, veh/h			792				914			1302		
Approach Delay, s/veh			36.9				39.7			54.4		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.3	41.0	12.1	41.6	13.3	41.0	13.8	39.8
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	16.3	7.6	15.3	8.7	24.2	9.2	34.7
Green Ext Time (p_c), s	0.0	3.6	0.1	1.7	0.2	2.9	0.0	0.2

Intersection Summary	
HCM 2010 Ctrl Delay	43.6
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	412	100
Future Volume (veh/h)	106	412	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	468	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1022	173
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	3007	510
Grp Volume(v), veh/h	120	274	274
Grp Sat Flow(s),veh/h/ln	1774	1770	1747
Q Serve(g_s), s	7.2	13.1	13.3
Cycle Q Clear(g_c), s	7.2	13.1	13.3
Prop In Lane	1.00		0.29
Lane Grp Cap(c), veh/h	147	601	594
V/C Ratio(X)	0.82	0.46	0.46
Avail Cap(c_a), veh/h	158	601	594
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.9	27.9
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.4	6.4
LnGrp Delay(d),s/veh	72.5	28.1	28.1
LnGrp LOS	E	C	C
Approach Vol, veh/h		668	
Approach Delay, s/veh		36.1	
Approach LOS		D	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	27	3	66	15	10	13	3	68	1265	3	1	6	545	20
Future Volume (veh/h)	27	3	66	15	10	13	3	68	1265	3	1	6	545	20
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.98	0.99		0.97		1.00		1.00		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	36	4	61	19	13	11		76	1406	2		7	592	15
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.75	0.75	0.75	0.79	0.79	0.79		0.90	0.90	0.90		0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	86	19	91	103	67	42		681	2763	4		12	1342	34
Arrive On Green	0.10	0.10	0.10	0.10	0.10	0.10		0.26	0.51	0.51		0.01	0.38	0.38
Sat Flow, veh/h	416	189	923	554	677	423		1774	3626	5		1774	3526	89
Grp Volume(v), veh/h	101	0	0	43	0	0		76	686	722		7	297	310
Grp Sat Flow(s),veh/h/ln	1528	0	0	1654	0	0		1774	1770	1862		1774	1770	1846
Q Serve(g_s), s	4.3	0.0	0.0	0.0	0.0	0.0		3.5	27.7	27.7		0.4	13.5	13.5
Cycle Q Clear(g_c), s	6.8	0.0	0.0	2.4	0.0	0.0		3.5	27.7	27.7		0.4	13.5	13.5
Prop In Lane	0.36		0.60	0.44		0.26		1.00		0.00		1.00		0.05
Lane Grp Cap(c), veh/h	196	0	0	211	0	0		681	1349	1419		12	673	703
V/C Ratio(X)	0.52	0.00	0.00	0.20	0.00	0.00		0.11	0.51	0.51		0.56	0.44	0.44
Avail Cap(c_a), veh/h	491	0	0	509	0	0		681	1349	1419		158	673	703
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.67	0.67	0.67		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.73	0.73	0.73		0.85	0.85	0.85
Uniform Delay (d), s/veh	46.9	0.0	0.0	45.0	0.0	0.0		26.0	13.1	13.1		53.5	24.9	24.9
Incr Delay (d2), s/veh	0.8	0.0	0.0	0.2	0.0	0.0		0.0	1.0	1.0		11.9	1.8	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	0.0	0.0	1.2	0.0	0.0		1.7	13.9	14.6		0.2	6.9	7.2
LnGrp Delay(d),s/veh	47.6	0.0	0.0	45.2	0.0	0.0		26.0	14.1	14.0		65.4	26.7	26.6
LnGrp LOS	D			D				C	B	B		E	C	C
Approach Vol, veh/h		101			43				1484				614	
Approach Delay, s/veh		47.6			45.2				14.7				27.1	
Approach LOS		D			D				B				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	5.2	87.3		15.5	46.5	46.0		15.5
Change Period (Y+Rc), s	4.4	5.0		4.9	5.0	* 4.9		4.9
Max Green Setting (Gmax), s	9.6	52.0		32.1	20.6	* 41		32.1
Max Q Clear Time (g_c+I1), s	2.4	29.7		8.8	5.5	15.5		4.4
Green Ext Time (p_c), s	0.0	17.1		0.3	0.1	2.5		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	20.1
HCM 2010 LOS	C

Notes

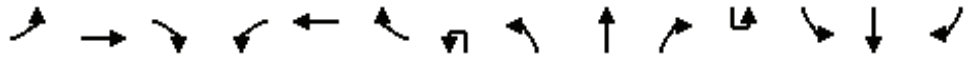


Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	47	100	1215	64	1	27	613
Future Volume (veh/h)	47	100	1215	64	1	27	613
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.99		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	57	84	1482	55		31	713
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.83	0.83	0.82	0.82		0.86	0.86
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	72	107	1847	68		352	2767
Arrive On Green	0.11	0.11	1.00	1.00		0.07	0.26
Sat Flow, veh/h	660	973	3574	129		1774	3632
Grp Volume(v), veh/h	142	0	752	785		31	713
Grp Sat Flow(s),veh/h/ln	1645	0	1770	1840		1774	1770
Q Serve(g_s), s	9.1	0.0	0.0	0.0		1.8	17.3
Cycle Q Clear(g_c), s	9.1	0.0	0.0	0.0		1.8	17.3
Prop In Lane	0.40	0.59		0.07		1.00	
Lane Grp Cap(c), veh/h	181	0	939	976		352	2767
V/C Ratio(X)	0.79	0.00	0.80	0.80		0.09	0.26
Avail Cap(c_a), veh/h	367	0	939	976		352	2767
HCM Platoon Ratio	1.00	1.00	2.00	2.00		0.33	0.33
Upstream Filter(I)	1.00	0.00	0.83	0.83		0.97	0.97
Uniform Delay (d), s/veh	46.8	0.0	0.0	0.0		41.3	15.2
Incr Delay (d2), s/veh	2.9	0.0	6.0	5.9		0.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	0.0	1.6	1.6		0.9	8.6
LnGrp Delay(d),s/veh	49.7	0.0	6.0	5.9		41.3	15.4
LnGrp LOS	D		A	A		D	B
Approach Vol, veh/h	142		1537				744
Approach Delay, s/veh	49.7		6.0				16.5
Approach LOS	D		A				B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	27.2	63.0				90.2		17.8
Change Period (Y+Rc), s	5.8	* 5.7				5.8		5.9
Max Green Setting (Gmax), s	9.6	* 57				72.2		24.1
Max Q Clear Time (g_c+I1), s	13.8	2.0				19.3		11.1
Green Ext Time (p_c), s	0.0	30.7				9.7		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	11.7
HCM 2010 LOS	B

Notes

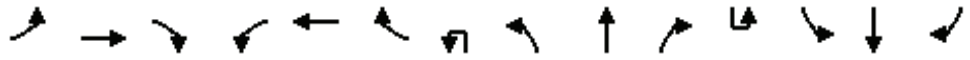


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	164	0	26	13	0	39	1	18	1090	4	1	8	593	47
Future Volume (veh/h)	164	0	26	13	0	39	1	18	1090	4	1	8	593	47
Number	7	4	14	3	8	18		1	6	16		5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	0.99		0.98		1.00		1.00		1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	245	0	27	18	0	37		21	1267	4		10	723	40
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.67	0.67	0.67	0.72	0.72	0.72		0.86	0.86	0.86		0.82	0.82	0.82
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	339	0	30	145	20	249		31	2302	7		17	2142	118
Arrive On Green	0.21	0.00	0.21	0.21	0.00	0.21		0.02	0.64	0.64		0.02	1.00	1.00
Sat Flow, veh/h	1284	0	142	470	94	1159		1774	3619	11		1774	3410	189
Grp Volume(v), veh/h	272	0	0	55	0	0		21	620	651		10	375	388
Grp Sat Flow(s),veh/h/ln	1426	0	0	1723	0	0		1774	1770	1861		1774	1770	1829
Q Serve(g_s), s	16.9	0.0	0.0	0.0	0.0	0.0		1.3	21.2	21.2		0.6	0.0	0.0
Cycle Q Clear(g_c), s	19.8	0.0	0.0	2.9	0.0	0.0		1.3	21.2	21.2		0.6	0.0	0.0
Prop In Lane	0.90		0.10	0.33		0.67		1.00		0.01		1.00		0.10
Lane Grp Cap(c), veh/h	369	0	0	414	0	0		31	1126	1183		17	1112	1149
V/C Ratio(X)	0.74	0.00	0.00	0.13	0.00	0.00		0.68	0.55	0.55		0.59	0.34	0.34
Avail Cap(c_a), veh/h	458	0	0	509	0	0		174	1126	1183		174	1112	1149
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.89	0.89	0.89		0.95	0.95	0.95
Uniform Delay (d), s/veh	40.8	0.0	0.0	34.5	0.0	0.0		52.8	11.0	11.0		52.8	0.0	0.0
Incr Delay (d2), s/veh	3.4	0.0	0.0	0.1	0.0	0.0		8.6	1.7	1.7		10.8	0.8	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	0.0	0.0	1.3	0.0	0.0		0.7	10.9	11.4		0.3	0.2	0.2
LnGrp Delay(d),s/veh	44.1	0.0	0.0	34.5	0.0	0.0		61.4	12.7	12.7		63.6	0.8	0.8
LnGrp LOS	D			C				E	B	B		E	A	A
Approach Vol, veh/h		272			55				1292				773	
Approach Delay, s/veh		44.1			34.5				13.5				1.6	
Approach LOS		D			C				B				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	6.3	73.7		28.1	5.4	74.5		28.1
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	10.6	* 53		30.1	10.6	52.2		30.1
Max Q Clear Time (g_c+I1), s	3.3	2.0		21.8	2.6	23.2		4.9
Green Ext Time (p_c), s	0.0	8.0		0.7	0.0	13.5		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	13.6
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	17	12	25	168	11	72	7	32	996	186	8	74	537	15
Future Volume (veh/h)	17	12	25	168	11	72	7	32	996	186	8	74	537	15
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.95		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	23	16	22	195	13	58		38	1172	158		89	647	12
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.75	0.75	0.75	0.86	0.86	0.86		0.85	0.85	0.85		0.83	0.83	0.83
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	51	37	30	267	14	453		226	2413	325		111	2364	44
Arrive On Green	0.30	0.30	0.30	0.30	0.30	0.30		0.26	1.00	1.00		0.06	0.46	0.46
Sat Flow, veh/h	51	122	98	718	48	1497		1774	4521	609		1774	5140	95
Grp Volume(v), veh/h	61	0	0	208	0	58		38	879	451		89	426	233
Grp Sat Flow(s),veh/h/ln	271	0	0	766	0	1497		1774	1695	1740		1774	1695	1845
Q Serve(g_s), s	1.7	0.0	0.0	0.0	0.0	3.9		2.3	0.0	0.0		6.9	10.9	10.9
Cycle Q Clear(g_c), s	40.3	0.0	0.0	38.6	0.0	3.9		2.3	0.0	0.0		6.9	10.9	10.9
Prop In Lane	0.38		0.36	0.94		1.00		1.00		0.35		1.00		0.05
Lane Grp Cap(c), veh/h	117	0	0	281	0	453		226	1810	929		111	1559	849
V/C Ratio(X)	0.52	0.00	0.00	0.74	0.00	0.13		0.17	0.49	0.49		0.81	0.27	0.27
Avail Cap(c_a), veh/h	147	0	0	309	0	482		226	1810	929		286	1559	849
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.91	0.91	0.91		0.95	0.95	0.95
Uniform Delay (d), s/veh	41.7	0.0	0.0	47.5	0.0	35.4		46.4	0.0	0.0		64.8	23.3	23.4
Incr Delay (d2), s/veh	1.3	0.0	0.0	6.8	0.0	0.0		0.1	0.9	1.7		4.9	0.4	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	0.0	8.3	0.0	1.6		1.1	0.2	0.4		3.6	5.2	5.7
LnGrp Delay(d),s/veh	43.0	0.0	0.0	54.4	0.0	35.5		46.5	0.9	1.7		69.7	23.8	24.1
LnGrp LOS	D			D		D		D	A	A		E	C	C
Approach Vol, veh/h		61			266				1368				748	
Approach Delay, s/veh		43.0			50.2				2.4				29.3	
Approach LOS		D			D				A				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	13.1	79.6		47.3	22.7	70.0		47.3
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	22.6	58.1		45.1	15.6	* 64		45.1
Max Q Clear Time (g_c+I1), s	8.9	2.0		42.3	4.3	12.9		40.6
Green Ext Time (p_c), s	0.1	44.3		0.0	0.0	12.1		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	16.9
HCM 2010 LOS	B

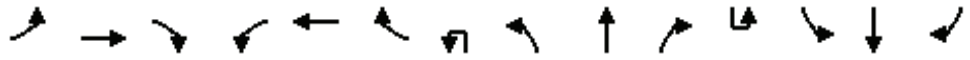
Notes

Intersection	
Intersection Delay, s/veh	9.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	63	86	72	27	7	52	64	59	10	79	2
Future Vol, veh/h	3	63	86	72	27	7	52	64	59	10	79	2
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	75	102	92	35	9	79	97	89	13	105	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.3	9.6	10.3	9.2
HCM LOS	A	A	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	30%	2%	68%	11%
Vol Thru, %	37%	41%	25%	87%
Vol Right, %	34%	57%	7%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	175	152	106	91
LT Vol	52	3	72	10
Through Vol	64	63	27	79
RT Vol	59	86	7	2
Lane Flow Rate	265	181	136	121
Geometry Grp	1	1	1	1
Degree of Util (X)	0.348	0.237	0.196	0.17
Departure Headway (Hd)	4.719	4.712	5.189	5.048
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	756	755	685	704
Service Time	2.788	2.788	3.271	3.131
HCM Lane V/C Ratio	0.351	0.24	0.199	0.172
HCM Control Delay	10.3	9.3	9.6	9.2
HCM Lane LOS	B	A	A	A
HCM 95th-tile Q	1.6	0.9	0.7	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	77	33	144	95	30	75	7	119	1061	120	4	98	544	54
Future Volume (veh/h)	77	33	144	95	30	75	7	119	1061	120	4	98	544	54
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	93	40	149	122	38	67		129	1153	92		108	598	47
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	275	77	287	198	136	239		153	2861	228		130	2067	916
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23		0.09	0.60	0.60		0.15	1.00	1.00
Sat Flow, veh/h	1272	338	1258	1178	595	1050		1774	4790	382		1774	3539	1568
Grp Volume(v), veh/h	93	0	189	122	0	105		129	816	429		108	598	47
Grp Sat Flow(s),veh/h/ln	1272	0	1596	1178	0	1645		1774	1695	1782		1774	1770	1568
Q Serve(g_s), s	9.1	0.0	14.5	14.2	0.0	7.4		10.0	17.9	17.9		8.3	0.0	0.0
Cycle Q Clear(g_c), s	16.5	0.0	14.5	28.7	0.0	7.4		10.0	17.9	17.9		8.3	0.0	0.0
Prop In Lane	1.00		0.79	1.00		0.64		1.00		0.21		1.00		1.00
Lane Grp Cap(c), veh/h	275	0	364	198	0	375		153	2025	1064		130	2067	916
V/C Ratio(X)	0.34	0.00	0.52	0.62	0.00	0.28		0.84	0.40	0.40		0.83	0.29	0.05
Avail Cap(c_a), veh/h	385	0	503	300	0	518		400	2025	1064		400	2067	916
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.99	0.99	0.99
Uniform Delay (d), s/veh	51.3	0.0	47.3	59.9	0.0	44.6		63.0	15.0	15.0		58.9	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.9	2.3	0.0	0.3		4.7	0.6	1.1		5.1	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	0.0	6.5	4.7	0.0	3.4		5.1	8.4	9.0		4.2	0.1	0.0
LnGrp Delay(d),s/veh	51.9	0.0	48.2	62.2	0.0	44.8		67.7	15.5	16.1		64.0	0.3	0.1
LnGrp LOS	D		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		282			227				1374				753	
Approach Delay, s/veh		49.4			54.2				20.6				9.5	
Approach LOS		D			D				C				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	88.5		36.8	16.5	86.7		36.8
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	10.3	19.9		18.5	12.0	2.0		30.7
Green Ext Time (p_c), s	0.1	11.9		1.2	0.1	5.7		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	23.4
HCM 2010 LOS	C

Notes

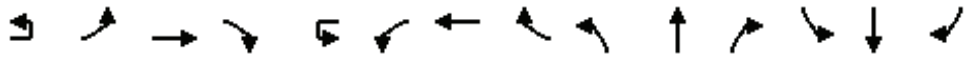


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	205	880	76	372	826	123	15	156	415	377	2	184	281	299
Future Volume (veh/h)	5	205	880	76	372	826	123	15	156	415	377	2	184	281	299
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		214	917	56	396	879	100		188	500	454		202	309	232
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		415	1088	66	455	1017	116		214	956	637		228	535	390
Arrive On Green		0.12	0.32	0.32	0.13	0.32	0.32		0.12	0.27	0.27		0.13	0.28	0.28
Sat Flow, veh/h		3442	3376	206	3442	3189	363		1774	3539	1583		1774	1924	1402
Grp Volume(v), veh/h		214	481	492	396	488	491		188	500	454		202	283	258
Grp Sat Flow(s),veh/h/ln		1721	1770	1813	1721	1770	1782		1774	1770	1583		1774	1770	1556
Q Serve(g_s), s		7.9	34.0	34.0	15.2	34.9	34.9		14.0	16.2	32.4		15.1	18.5	19.3
Cycle Q Clear(g_c), s		7.9	34.0	34.0	15.2	34.9	34.9		14.0	16.2	32.4		15.1	18.5	19.3
Prop In Lane		1.00		0.11	1.00		0.20		1.00		1.00		1.00		0.90
Lane Grp Cap(c), veh/h		415	570	584	455	565	568		214	956	637		228	492	433
V/C Ratio(X)		0.52	0.84	0.84	0.87	0.86	0.86		0.88	0.52	0.71		0.89	0.58	0.60
Avail Cap(c_a), veh/h		767	789	808	767	789	794		395	1051	680		395	526	462
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		55.5	42.5	42.5	57.3	43.1	43.1		58.2	41.8	33.7		57.7	41.8	42.1
Incr Delay (d2), s/veh		0.4	6.5	6.4	2.8	7.3	7.2		4.5	0.3	3.0		5.6	1.2	1.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.8	17.6	18.0	7.4	18.2	18.3		7.2	8.0	14.6		7.8	9.2	8.5
LnGrp Delay(d),s/veh		55.9	49.0	48.9	60.1	50.4	50.3		62.8	42.1	36.7		63.3	43.0	43.7
LnGrp LOS		E	D	D	E	D	D		E	D	D		E	D	D
Approach Vol, veh/h			1187			1375				1142				743	
Approach Delay, s/veh			50.2			53.2				43.3				48.7	
Approach LOS			D			D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.2	49.1	20.6	42.7	21.9	49.4	21.7	41.7
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	17.2	36.0	16.0	21.3	9.9	36.9	17.1	34.4
Green Ext Time (p_c), s	0.6	7.4	0.2	2.7	0.3	6.1	0.2	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	49.1
HCM 2010 LOS	D

Notes

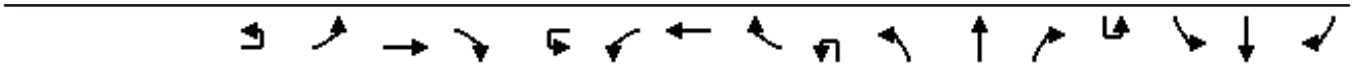


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	43	1138	187	3	50	1006	97	264	104	83	66	117	98
Future Volume (veh/h)	13	43	1138	187	3	50	1006	97	264	104	83	66	117	98
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		49	1293	182		62	1242	85	388	153	85	84	148	99
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		63	1112	155		79	1233	84	274	108	60	89	156	104
Arrive On Green		0.04	0.36	0.36		0.01	0.12	0.12	0.25	0.25	0.25	0.20	0.20	0.20
Sat Flow, veh/h		1774	3106	434		1774	3356	229	1094	431	240	441	778	520
Grp Volume(v), veh/h		49	732	743		62	654	673	626	0	0	331	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1770		1774	1770	1816	1765	0	0	1739	0	0
Q Serve(g_s), s		3.8	50.1	50.1		4.9	51.4	51.4	35.1	0.0	0.0	26.3	0.0	0.0
Cycle Q Clear(g_c), s		3.8	50.1	50.1		4.9	51.4	51.4	35.1	0.0	0.0	26.3	0.0	0.0
Prop In Lane		1.00		0.25		1.00		0.13	0.62		0.14	0.25		0.30
Lane Grp Cap(c), veh/h		63	634	634		79	650	667	443	0	0	349	0	0
V/C Ratio(X)		0.78	1.16	1.17		0.78	1.01	1.01	1.41	0.00	0.00	0.95	0.00	0.00
Avail Cap(c_a), veh/h		122	634	634		122	650	667	443	0	0	349	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.67	0.67	0.67	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.0	44.9	44.9		68.3	61.5	61.5	52.5	0.0	0.0	55.2	0.0	0.0
Incr Delay (d2), s/veh		7.4	87.1	93.2		5.0	30.3	30.8	199.4	0.0	0.0	34.5	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.0	39.8	40.9		2.5	30.7	31.6	41.6	0.0	0.0	15.9	0.0	0.0
LnGrp Delay(d),s/veh		74.4	132.1	138.1		73.3	91.8	92.3	251.9	0.0	0.0	89.7	0.0	0.0
LnGrp LOS		E	F	F		E	F	F	F			F		
Approach Vol, veh/h			1524				1389			626			331	
Approach Delay, s/veh			133.2				91.2			251.9			89.7	
Approach LOS			F				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.7	56.3		33.0	9.4	57.6		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	6.9	52.1		28.3	5.8	53.4		37.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	133.6
HCM 2010 LOS	F

Notes

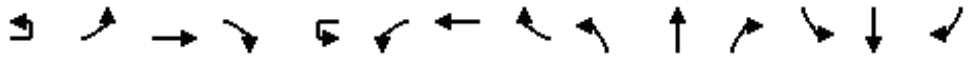


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	177	901	265	5	212	712	284	2	287	809	164	5	235	451	169
Future Volume (veh/h)	3	177	901	265	5	212	712	284	2	287	809	164	5	235	451	169
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		199	1012	210		244	818	237		305	861	153		270	518	137
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		399	1335	276		293	1214	349		351	994	176		315	774	337
Arrive On Green		0.30	0.61	0.61		0.09	0.31	0.31		0.20	0.46	0.46		0.18	0.44	0.44
Sat Flow, veh/h		1774	2912	603		3442	3897	1120		3442	4337	766		3442	3539	1541
Grp Volume(v), veh/h		199	614	608		244	711	344		305	672	342		270	518	137
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1627		1721	1695	1713		1721	1770	1541
Q Serve(g_s), s		12.9	35.2	35.5		9.8	25.6	25.9		12.0	24.9	25.2		10.6	16.3	5.3
Cycle Q Clear(g_c), s		12.9	35.2	35.5		9.8	25.6	25.9		12.0	24.9	25.2		10.6	16.3	5.3
Prop In Lane		1.00		0.35		1.00		0.69		1.00		0.45		1.00		1.00
Lane Grp Cap(c), veh/h		399	811	800		293	1056	507		351	777	393		315	774	337
V/C Ratio(X)		0.50	0.76	0.76		0.83	0.67	0.68		0.87	0.86	0.87		0.86	0.67	0.41
Avail Cap(c_a), veh/h		399	811	800		383	1056	507		457	826	417		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		1.00	1.00	1.00		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.82	0.82	0.82		1.00	1.00	1.00
Uniform Delay (d), s/veh		42.5	21.7	21.7		63.0	42.0	42.1		54.8	36.0	36.0		56.3	35.4	12.7
Incr Delay (d2), s/veh		0.0	0.6	0.6		8.2	3.1	6.6		9.4	8.2	15.6		13.1	2.6	1.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.3	17.2	17.0		5.0	12.4	12.6		6.1	12.4	13.5		5.6	8.2	3.1
LnGrp Delay(d),s/veh		42.6	22.3	22.4		71.3	45.1	48.7		64.2	44.2	51.6		69.4	38.0	14.0
LnGrp LOS		D	C	C		E	D	D		E	D	D		E	D	B
Approach Vol, veh/h			1421				1299				1319				925	
Approach Delay, s/veh			25.2				51.0				50.7				43.6	
Approach LOS			C				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.3	69.5	18.7	35.5	36.8	49.0	17.2	37.0
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	11.8	37.5	14.0	18.3	14.9	27.9	12.6	27.2
Green Ext Time (p_c), s	0.2	8.2	0.3	4.7	0.2	5.7	0.2	4.6

Intersection Summary	
HCM 2010 Ctrl Delay	42.1
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	11	78	1152	43	5	54	1178	165	31	21	47	108	23	52
Future Volume (veh/h)	11	78	1152	43	5	54	1178	165	31	21	47	108	23	52
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	0.97		0.98	0.99		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		83	1226	33		57	1253	123	37	25	39	150	32	53
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.84	0.84	0.84	0.72	0.72	0.72
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		128	3321	89		94	3020	296	247	202	168	312	282	234
Arrive On Green		0.01	0.22	0.22		0.05	1.00	1.00	0.03	0.11	0.11	0.08	0.15	0.15
Sat Flow, veh/h		3442	5091	137		3442	4701	461	1774	1863	1553	1774	1863	1549
Grp Volume(v), veh/h		83	816	443		57	904	472	37	25	39	150	32	53
Grp Sat Flow(s),veh/h/ln		1721	1695	1838		1721	1695	1772	1774	1863	1553	1774	1863	1549
Q Serve(g_s), s		3.4	28.7	28.7		2.3	0.0	0.0	2.6	1.7	3.2	10.4	2.1	4.2
Cycle Q Clear(g_c), s		3.4	28.7	28.7		2.3	0.0	0.0	2.6	1.7	3.2	10.4	2.1	4.2
Prop In Lane		1.00		0.07		1.00		0.26	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		128	2211	1199		94	2178	1139	247	202	168	312	282	234
V/C Ratio(X)		0.65	0.37	0.37		0.61	0.41	0.41	0.15	0.12	0.23	0.48	0.11	0.23
Avail Cap(c_a), veh/h		310	2211	1199		310	2178	1139	323	547	456	312	547	455
HCM Platoon Ratio		0.33	0.33	0.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.35	0.35	0.35		0.87	0.87	0.87	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		68.2	30.4	30.4		65.4	0.0	0.0	52.8	56.4	57.1	49.2	51.3	52.2
Incr Delay (d2), s/veh		0.7	0.2	0.3		2.0	0.5	1.0	0.1	0.1	0.3	0.4	0.1	0.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	13.6	14.8		1.1	0.2	0.3	1.3	0.9	1.4	5.1	1.1	1.8
LnGrp Delay(d),s/veh		69.0	30.5	30.7		67.4	0.5	1.0	52.9	56.5	57.4	49.6	51.4	52.4
LnGrp LOS		E	C	C		E	A	A	D	E	E	D	D	D
Approach Vol, veh/h			1342				1433			101			235	
Approach Delay, s/veh			33.0				3.3			55.5			50.5	
Approach LOS			C				A			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.2	96.7	9.0	26.1	9.6	95.4	15.0	20.0
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	* 57	10.6	41.1	12.6	56.6	10.6	41.1
Max Q Clear Time (g_c+I1), s	4.4	30.7	4.6	6.2	5.4	2.0	12.4	5.2
Green Ext Time (p_c), s	0.0	15.7	0.0	0.2	0.1	17.2	0.0	0.1

Intersection Summary	
HCM 2010 Ctrl Delay	21.4
HCM 2010 LOS	C

Notes

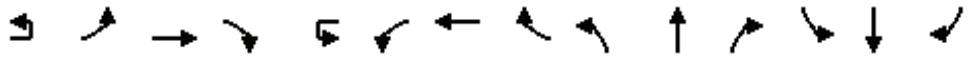


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	16	34	1272	18	276	1326	110	65	132	446	143	144	113
Future Volume (veh/h)	16	34	1272	18	276	1326	110	65	132	446	143	144	113
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.97	1.00		0.95	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		37	1383	15	291	1396	82	76	155	460	161	162	89
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.92	0.92	0.92	0.95	0.95	0.95	0.85	0.85	0.85	0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		48	1396	15	658	3040	179	119	290	823	210	644	277
Arrive On Green		0.01	0.09	0.09	0.74	1.00	1.00	0.01	0.05	0.05	0.06	0.18	0.18
Sat Flow, veh/h		1774	5184	56	1774	4904	288	3442	1863	1511	3442	3539	1522
Grp Volume(v), veh/h		37	904	494	291	965	513	76	155	460	161	162	89
Grp Sat Flow(s),veh/h/ln		1774	1695	1850	1774	1695	1801	1721	1863	1511	1721	1770	1522
Q Serve(g_s), s		2.9	37.3	37.3	8.8	0.0	0.0	3.1	11.4	4.9	6.5	5.5	7.1
Cycle Q Clear(g_c), s		2.9	37.3	37.3	8.8	0.0	0.0	3.1	11.4	4.9	6.5	5.5	7.1
Prop In Lane		1.00		0.03	1.00		0.16	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		48	913	498	658	2102	1117	119	290	823	210	644	277
V/C Ratio(X)		0.78	0.99	0.99	0.44	0.46	0.46	0.64	0.53	0.56	0.77	0.25	0.32
Avail Cap(c_a), veh/h		172	913	498	658	2102	1117	236	520	1010	334	1090	468
HCM Platoon Ratio		0.33	0.33	0.33	2.00	2.00	2.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)		0.92	0.92	0.92	0.68	0.68	0.68	0.26	0.26	0.26	1.00	1.00	1.00
Uniform Delay (d), s/veh		69.0	63.6	63.6	12.5	0.0	0.0	68.3	61.5	11.9	64.7	49.1	49.7
Incr Delay (d2), s/veh		9.0	26.5	36.5	0.1	0.5	0.9	0.6	0.2	0.1	2.2	0.1	0.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	20.9	24.2	4.2	0.1	0.3	1.5	5.9	9.1	3.1	2.7	3.0
LnGrp Delay(d),s/veh		77.9	90.1	100.2	12.6	0.5	0.9	68.9	61.6	12.0	66.9	49.2	50.0
LnGrp LOS		E	F	F	B	A	A	E	E	B	E	D	D
Approach Vol, veh/h			1435			1769			691			412	
Approach Delay, s/veh			93.2			2.6			29.4			56.3	
Approach LOS			F			A			C			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	57.4	43.0	9.2	30.4	8.2	92.2	13.0	26.7
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	30.6	* 38	9.6	43.1	13.6	54.6	13.6	39.1
Max Q Clear Time (g_c+I1), s	10.8	39.3	5.1	9.1	4.9	2.0	8.5	13.4
Green Ext Time (p_c), s	0.4	0.0	0.0	0.8	0.0	33.8	0.1	1.5

Intersection Summary	
HCM 2010 Ctrl Delay	42.2
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	5	23	1853	20	18	75	1599	27	23	43	171	61	33	57
Future Volume (veh/h)	5	23	1853	20	18	75	1599	27	23	43	171	61	33	57
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.95	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		25	2036	15		83	1777	21	30	57	161	80	43	53
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.91	0.91	0.91		0.90	0.90	0.90	0.76	0.76	0.76	0.76	0.76	0.76
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		32	2595	19		103	2789	33	36	69	194	92	49	61
Arrive On Green		0.04	1.00	1.00		0.12	1.00	1.00	0.19	0.19	0.19	0.12	0.12	0.12
Sat Flow, veh/h		1774	5208	38		1774	5180	61	195	370	1045	776	417	514
Grp Volume(v), veh/h		25	1325	726		83	1163	635	248	0	0	176	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1856		1774	1695	1851	1609	0	0	1708	0	0
Q Serve(g_s), s		2.0	0.8	0.8		6.4	0.0	0.0	20.8	0.0	0.0	14.2	0.0	0.0
Cycle Q Clear(g_c), s		2.0	0.8	0.8		6.4	0.0	0.0	20.8	0.0	0.0	14.2	0.0	0.0
Prop In Lane		1.00		0.02		1.00		0.03	0.12		0.65	0.45		0.30
Lane Grp Cap(c), veh/h		32	1689	925		103	1825	996	299	0	0	202	0	0
V/C Ratio(X)		0.79	0.78	0.78		0.81	0.64	0.64	0.83	0.00	0.00	0.87	0.00	0.00
Avail Cap(c_a), veh/h		134	1689	925		185	1825	996	404	0	0	294	0	0
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.66	0.66	0.66		0.82	0.82	0.82	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.3	0.1	0.1		61.2	0.0	0.0	54.9	0.0	0.0	60.7	0.0	0.0
Incr Delay (d2), s/veh		10.4	2.5	4.5		4.6	1.4	2.6	7.7	0.0	0.0	13.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.0	0.7	1.2		3.3	0.4	0.7	9.9	0.0	0.0	7.4	0.0	0.0
LnGrp Delay(d),s/veh		77.7	2.6	4.6		65.8	1.4	2.6	62.6	0.0	0.0	73.7	0.0	0.0
LnGrp LOS		E	A	A		E	A	A	E			E		
Approach Vol, veh/h			2076				1881			248			176	
Approach Delay, s/veh			4.2				4.6			62.6			73.7	
Approach LOS			A				A			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.5	75.2		30.9	6.9	80.8		21.4
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	14.6	* 47		35.1	10.6	50.6		24.1
Max Q Clear Time (g_c+I1), s	10.4	2.8		22.8	4.0	2.0		16.2
Green Ext Time (p_c), s	0.0	35.8		0.8	0.0	26.7		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	10.5
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1991	180	442	1528	269	128	91	665	260	155	5
Future Volume (veh/h)	2	1991	180	442	1528	269	128	91	665	260	155	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	2053	149	480	1661	204	126	134	672	289	172	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	1828	132	350	2917	889	255	267	1064	293	299	7
Arrive On Green	0.00	0.76	0.76	0.20	0.57	0.57	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4829	348	1774	5085	1549	1774	1863	3066	1774	1812	42
Grp Volume(v), veh/h	2	1437	765	480	1661	204	126	134	672	289	0	176
Grp Sat Flow(s),veh/h/ln	1774	1695	1787	1774	1695	1549	1774	1863	1533	1774	0	1854
Q Serve(g_s), s	0.2	53.0	53.0	27.6	29.0	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Cycle Q Clear(g_c), s	0.2	53.0	53.0	27.6	29.0	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Prop In Lane	1.00		0.19	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	4	1283	677	350	2917	889	255	267	1064	293	0	306
V/C Ratio(X)	0.53	1.12	1.13	1.37	0.57	0.23	0.49	0.50	0.63	0.99	0.00	0.58
Avail Cap(c_a), veh/h	274	1283	677	350	2917	889	255	267	1064	293	0	306
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.38	0.38	0.38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.6	17.0	17.0	56.2	18.9	14.7	55.3	55.3	39.0	58.3	0.0	53.9
Incr Delay (d2), s/veh	14.9	58.3	66.7	184.8	0.8	0.6	1.1	1.1	1.1	48.9	0.0	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	33.9	37.3	31.5	13.8	4.0	4.6	4.9	11.1	15.1	0.0	6.5
LnGrp Delay(d),s/veh	84.6	75.3	83.7	241.0	19.7	15.3	56.4	56.4	40.0	107.2	0.0	55.7
LnGrp LOS	F	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2204			2345			932			465	
Approach Delay, s/veh		78.2			64.6			44.6			87.7	
Approach LOS		E			E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	32.0	58.5		25.0	4.7	85.8		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	2.2	31.0		24.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	68.3
HCM 2010 LOS	E

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					↑↑↑	↱					↑	↱↱
Traffic Volume (veh/h)	0	0	0	0	1648	0	0	0	0	0	1	561
Future Volume (veh/h)	0	0	0	0	1648	0	0	0	0	0	1	561
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	1939	0				0	1	652
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.85	0.85	0.85				0.76	0.76	0.76
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	2720	847				0	504	753
Arrive On Green				0.00	0.53	0.00				0.00	0.27	0.27
Sat Flow, veh/h				0	5253	1583				0	1863	2784
Grp Volume(v), veh/h				0	1939	0				0	1	652
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1392
Q Serve(g_s), s				0.0	16.0	0.0				0.0	0.0	12.5
Cycle Q Clear(g_c), s				0.0	16.0	0.0				0.0	0.0	12.5
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	2720	847				0	504	753
V/C Ratio(X)				0.00	0.71	0.00				0.00	0.00	0.87
Avail Cap(c_a), veh/h				0	4543	1415				0	1165	1741
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	9.8	0.0				0.0	14.9	19.5
Incr Delay (d2), s/veh				0.0	0.1	0.0				0.0	0.0	1.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	7.4	0.0				0.0	0.0	4.9
LnGrp Delay(d),s/veh				0.0	9.9	0.0				0.0	14.9	20.7
LnGrp LOS					A						B	C
Approach Vol, veh/h					1939						653	
Approach Delay, s/veh					9.9						20.7	
Approach LOS					A						C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				20.2		35.7		
Change Period (Y+Rc), s				5.1		5.8		
Max Green Setting (Gmax), s				35.0		50.0		
Max Q Clear Time (g_c+I1), s				14.5		18.0		
Green Ext Time (p_c), s				0.6		11.9		

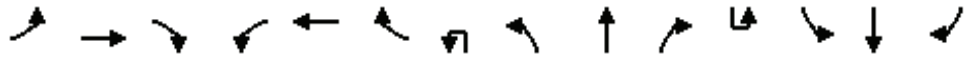
Intersection Summary	
HCM 2010 Ctrl Delay	12.6
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	2105	392	0	0	0	0	1	367	0	0	0
Future Volume (veh/h)	0	2105	392	0	0	0	0	1	367	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.98			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	2313	0				0	1	339			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.91	0.91	0.91				0.92	0.92	0.92			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	3220	1003				0	308	450			
Arrive On Green	0.00	0.63	0.00				0.00	0.17	0.17			
Sat Flow, veh/h	0	5253	1583				0	1863	2725			
Grp Volume(v), veh/h	0	2313	0				0	1	339			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1362			
Q Serve(g_s), s	0.0	16.5	0.0				0.0	0.0	6.4			
Cycle Q Clear(g_c), s	0.0	16.5	0.0				0.0	0.0	6.4			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	3220	1003				0	308	450			
V/C Ratio(X)	0.00	0.72	0.00				0.00	0.00	0.75			
Avail Cap(c_a), veh/h	0	4703	1464				0	599	877			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	6.7	0.0				0.0	18.9	21.5			
Incr Delay (d2), s/veh	0.0	0.1	0.0				0.0	0.0	1.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	7.5	0.0				0.0	0.0	2.5			
LnGrp Delay(d),s/veh	0.0	6.8	0.0				0.0	18.9	22.5			
LnGrp LOS		A						B	C			
Approach Vol, veh/h		2313						340				
Approach Delay, s/veh		6.8						22.5				
Approach LOS		A						C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		40.0						14.0
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						17.4
Max Q Clear Time (g_c+I1), s		18.5						8.4
Green Ext Time (p_c), s		15.7						0.6

Intersection Summary	
HCM 2010 Ctrl Delay	8.8
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	267	476	83	123	380	124	2	86	922	203	4	33	600	276
Future Volume (veh/h)	267	476	83	123	380	124	2	86	922	203	4	33	600	276
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.96		1.00		0.96		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	330	588	77	141	437	100		91	981	153		39	706	279
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.81	0.81	0.81	0.87	0.87	0.87		0.94	0.94	0.94		0.85	0.85	0.85
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	319	606	82	165	544	299		112	1471	440		159	1144	508
Arrive On Green	0.28	0.28	0.28	0.20	0.20	0.20		0.06	0.29	0.29		0.09	0.32	0.32
Sat Flow, veh/h	1142	2171	293	836	2754	1513		1774	5085	1520		1774	3539	1572
Grp Volume(v), veh/h	522	0	473	307	271	100		91	981	153		39	706	279
Grp Sat Flow(s),veh/h/ln	1806	0	1800	1821	1770	1513		1774	1695	1520		1774	1770	1572
Q Serve(g_s), s	39.1	0.0	36.0	22.8	20.3	7.9		7.1	23.8	11.1		2.9	23.6	20.4
Cycle Q Clear(g_c), s	39.1	0.0	36.0	22.8	20.3	7.9		7.1	23.8	11.1		2.9	23.6	20.4
Prop In Lane	0.63		0.16	0.46		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	504	0	503	360	350	299		112	1471	440		159	1144	508
V/C Ratio(X)	1.03	0.00	0.94	0.85	0.77	0.33		0.81	0.67	0.35		0.25	0.62	0.55
Avail Cap(c_a), veh/h	504	0	503	405	393	336		185	1471	440		159	1144	508
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.78	0.78	0.78		1.00	1.00	1.00		0.69	0.69	0.69
Uniform Delay (d), s/veh	50.5	0.0	49.3	54.2	53.2	48.2		64.7	43.8	39.3		59.3	40.0	39.0
Incr Delay (d2), s/veh	49.3	0.0	25.9	10.9	5.6	0.2		5.2	2.4	2.2		0.2	1.7	2.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	26.4	0.0	21.5	12.5	10.5	3.3		3.6	11.5	4.9		1.4	11.8	9.3
LnGrp Delay(d),s/veh	99.7	0.0	75.2	65.1	58.8	48.4		69.9	46.2	41.5		59.5	41.8	41.9
LnGrp LOS	F		E	E	E	D		E	D	D		E	D	D
Approach Vol, veh/h		995			678				1225				1024	
Approach Delay, s/veh		88.1			60.1				47.4				42.5	
Approach LOS		F			E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.4	46.0		44.0	13.3	50.2		32.6
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	9.6	* 41		39.1	14.6	36.1		31.1
Max Q Clear Time (g_c+I1), s	11.9	25.8		41.1	9.1	25.6		24.8
Green Ext Time (p_c), s	0.0	7.6		0.0	0.0	8.6		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	58.6
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	5

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	118	14	51	70	36	127
Future Vol, veh/h	118	14	51	70	36	127
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	128	15	55	76	39	138

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	143	0	322	136
Stage 1	-	-	-	-	136	-
Stage 2	-	-	-	-	186	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1440	-	672	913
Stage 1	-	-	-	-	890	-
Stage 2	-	-	-	-	846	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1440	-	645	913
Mov Cap-2 Maneuver	-	-	-	-	645	-
Stage 1	-	-	-	-	854	-
Stage 2	-	-	-	-	846	-

Approach	EB	WB	NB
HCM Control Delay, s	0	3.2	10.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	836	-	-	1440	-
HCM Lane V/C Ratio	0.212	-	-	0.038	-
HCM Control Delay (s)	10.5	-	-	7.6	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.8	-	-	0.1	-

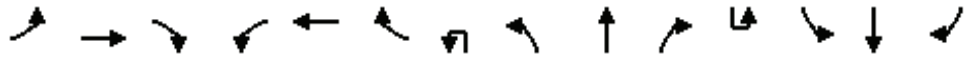
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	264	15	186	737	105	262	418	106	2
Future Volume (veh/h)	11	142	662	264	15	186	737	105	262	418	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	210		200	792	79	279	445	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1146	327		255	1419	142	336	725	128	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2696	769		3442	3245	324	3442	2982	525	
Grp Volume(v), veh/h		158	483	463		200	432	439	279	263	261	
Grp Sat Flow(s),veh/h/ln		1721	1770	1696		1721	1770	1798	1721	1770	1737	
Q Serve(g_s), s		5.7	27.2	27.2		7.2	22.9	22.9	10.0	16.6	16.9	
Cycle Q Clear(g_c), s		5.7	27.2	27.2		7.2	22.9	22.9	10.0	16.6	16.9	
Prop In Lane		1.00		0.45		1.00		0.18	1.00		0.30	
Lane Grp Cap(c), veh/h		213	752	721		255	774	787	336	430	422	
V/C Ratio(X)		0.74	0.64	0.64		0.78	0.56	0.56	0.83	0.61	0.62	
Avail Cap(c_a), veh/h		399	752	721		399	774	787	481	479	470	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.6	28.6		57.3	26.4	26.4	55.8	42.4	42.5	
Incr Delay (d2), s/veh		1.9	4.2	4.4		2.1	2.9	2.9	5.4	1.1	1.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	14.2	13.6		3.5	11.8	12.0	5.0	8.2	8.3	
LnGrp Delay(d),s/veh		60.0	32.8	33.0		59.4	29.3	29.2	61.3	43.4	43.7	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1104				1071			803		
Approach Delay, s/veh			36.8				34.9			49.7		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.6	16.7	37.0	12.2	60.1	18.1	35.5
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	29.2	12.0	34.1	7.7	24.9	13.7	18.9
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.7

Intersection Summary	
HCM 2010 Ctrl Delay	64.5
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	916	101
Future Volume (veh/h)	160	916	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	964	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	846	65
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3320	255
Grp Volume(v), veh/h	168	514	524
Grp Sat Flow(s),veh/h/ln	1774	1770	1805
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	460
V/C Ratio(X)	0.87	1.14	1.14
Avail Cap(c_a), veh/h	220	451	460
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	86.6	86.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	26.5	27.0
LnGrp Delay(d),s/veh	79.8	133.5	133.2
LnGrp LOS	E	F	F
Approach Vol, veh/h		1206	
Approach Delay, s/veh		125.9	
Approach LOS		F	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	19	7	81	14	1	3	7	70	792	3	1	8	1343	20
Future Volume (veh/h)	19	7	81	14	1	3	7	70	792	3	1	8	1343	20
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.98		0.94	0.98		0.97		1.00		0.99		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	28	10	82	22	2	3		74	834	2		9	1429	15
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.69	0.69	0.69	0.64	0.64	0.64		0.95	0.95	0.95		0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	65	30	129	162	16	16		93	2731	7		15	2547	27
Arrive On Green	0.12	0.12	0.12	0.12	0.12	0.12		0.11	1.00	1.00		0.01	0.71	0.71
Sat Flow, veh/h	244	238	1041	889	128	127		1774	3622	9		1774	3588	38
Grp Volume(v), veh/h	120	0	0	27	0	0		74	407	429		9	705	739
Grp Sat Flow(s),veh/h/ln	1523	0	0	1144	0	0		1774	1770	1861		1774	1770	1856
Q Serve(g_s), s	4.6	0.0	0.0	0.0	0.0	0.0		5.1	0.0	0.0		0.6	24.2	24.2
Cycle Q Clear(g_c), s	9.3	0.0	0.0	2.7	0.0	0.0		5.1	0.0	0.0		0.6	24.2	24.2
Prop In Lane	0.23		0.68	0.81		0.11		1.00		0.00		1.00		0.02
Lane Grp Cap(c), veh/h	224	0	0	194	0	0		93	1334	1403		15	1256	1317
V/C Ratio(X)	0.54	0.00	0.00	0.14	0.00	0.00		0.79	0.31	0.31		0.59	0.56	0.56
Avail Cap(c_a), veh/h	384	0	0	335	0	0		234	1334	1403		191	1256	1317
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.94	0.94	0.94		0.09	0.09	0.09
Uniform Delay (d), s/veh	52.4	0.0	0.0	49.4	0.0	0.0		55.7	0.0	0.0		62.2	8.8	8.8
Incr Delay (d2), s/veh	0.7	0.0	0.0	0.1	0.0	0.0		5.2	0.6	0.5		1.2	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	0.0	0.9	0.0	0.0		2.6	0.2	0.2		0.3	11.8	12.4
LnGrp Delay(d),s/veh	53.1	0.0	0.0	49.5	0.0	0.0		60.9	0.6	0.5		63.5	9.0	9.0
LnGrp LOS	D			D				E	A	A		E	A	A
Approach Vol, veh/h		120			27				910				1453	
Approach Delay, s/veh		53.1			49.5				5.5				9.3	
Approach LOS		D			D				A				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	5.5	100.0		20.5	11.0	94.5		20.5
Change Period (Y+Rc), s	4.4	5.0		4.9	4.4	* 5		4.9
Max Green Setting (Gmax), s	13.6	69.0		29.1	16.6	* 66		29.1
Max Q Clear Time (g_c+I1), s	2.6	2.0		11.3	7.1	26.2		4.7
Green Ext Time (p_c), s	0.0	15.2		0.4	0.0	8.8		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	10.4
HCM 2010 LOS	B

Notes



Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	46	59	815	52	1	73	1340
Future Volume (veh/h)	46	59	815	52	1	73	1340
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.94		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	52	46	867	39		75	1381
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.89	0.89	0.94	0.94		0.97	0.97
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	86	76	2451	110		95	2856
Arrive On Green	0.10	0.10	1.00	1.00		0.11	1.00
Sat Flow, veh/h	856	757	3542	155		1774	3632
Grp Volume(v), veh/h	99	0	445	461		75	1381
Grp Sat Flow(s),veh/h/ln	1629	0	1770	1835		1774	1770
Q Serve(g_s), s	7.3	0.0	0.0	0.0		5.2	0.0
Cycle Q Clear(g_c), s	7.3	0.0	0.0	0.0		5.2	0.0
Prop In Lane	0.53	0.46		0.08		1.00	
Lane Grp Cap(c), veh/h	163	0	1258	1304		95	2856
V/C Ratio(X)	0.61	0.00	0.35	0.35		0.79	0.48
Avail Cap(c_a), veh/h	312	0	1258	1304		248	2856
HCM Platoon Ratio	1.00	1.00	2.00	2.00		2.00	2.00
Upstream Filter(I)	1.00	0.00	0.96	0.96		0.81	0.81
Uniform Delay (d), s/veh	54.3	0.0	0.0	0.0		55.6	0.0
Incr Delay (d2), s/veh	1.3	0.0	0.7	0.7		4.5	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	3.4	0.0	0.3	0.3		2.7	0.2
LnGrp Delay(d),s/veh	55.6	0.0	0.7	0.7		60.1	0.5
LnGrp LOS	E		A	A		E	A
Approach Vol, veh/h	99		906				1456
Approach Delay, s/veh	55.6		0.7				3.5
Approach LOS	E		A				A

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	12.1	95.3				107.5		18.5
Change Period (Y+Rc), s	5.4	* 5.8				5.8		5.9
Max Green Setting (Gmax), s	17.6	* 67				90.2		24.1
Max Q Clear Time (g_c+I1), s	7.3	2.0				2.0		9.3
Green Ext Time (p_c), s	0.1	13.2				30.6		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	4.6
HCM 2010 LOS	A

Notes

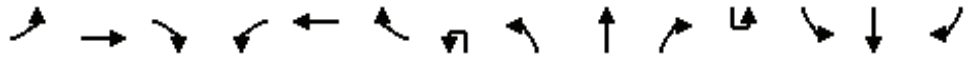


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	89	6	43	15	5	16	3	19	755	15	12	1238	129
Future Volume (veh/h)	89	6	43	15	5	16	3	19	755	15	12	1238	129
Number	7	4	14	3	8	18		1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	1.00		0.99		1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	100	7	33	23	8	17		20	803	11	13	1331	97
Adj No. of Lanes	0	1	0	0	1	0		1	2	0	1	2	0
Peak Hour Factor	0.89	0.89	0.89	0.64	0.64	0.64		0.94	0.94	0.94	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h	170	10	41	115	45	65		28	2696	37	21	2508	182
Arrive On Green	0.11	0.11	0.11	0.11	0.11	0.11		0.02	0.75	0.75	0.02	1.00	1.00
Sat Flow, veh/h	1059	91	355	640	391	565		1774	3575	49	1774	3346	243
Grp Volume(v), veh/h	140	0	0	48	0	0		20	398	416	13	702	726
Grp Sat Flow(s),veh/h/ln	1504	0	0	1596	0	0		1774	1770	1854	1774	1770	1819
Q Serve(g_s), s	8.0	0.0	0.0	0.0	0.0	0.0		1.4	9.0	9.0	0.9	0.0	0.0
Cycle Q Clear(g_c), s	11.3	0.0	0.0	3.3	0.0	0.0		1.4	9.0	9.0	0.9	0.0	0.0
Prop In Lane	0.71		0.24	0.48		0.35		1.00		0.03	1.00		0.13
Lane Grp Cap(c), veh/h	221	0	0	225	0	0		28	1335	1398	21	1327	1364
V/C Ratio(X)	0.63	0.00	0.00	0.21	0.00	0.00		0.71	0.30	0.30	0.63	0.53	0.53
Avail Cap(c_a), veh/h	421	0	0	434	0	0		234	1335	1398	234	1327	1364
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.90	0.90	0.90	0.87	0.87	0.87
Uniform Delay (d), s/veh	54.1	0.0	0.0	50.8	0.0	0.0		61.7	4.9	4.9	61.3	0.0	0.0
Incr Delay (d2), s/veh	1.1	0.0	0.0	0.2	0.0	0.0		10.2	0.5	0.5	9.8	1.3	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	0.0	0.0	1.5	0.0	0.0		0.8	4.5	4.7	0.5	0.5	0.5
LnGrp Delay(d),s/veh	55.3	0.0	0.0	51.0	0.0	0.0		71.9	5.4	5.4	71.1	1.3	1.3
LnGrp LOS	E			D				E	A	A	E	A	A
Approach Vol, veh/h		140			48				834			1441	
Approach Delay, s/veh		55.3			51.0				7.0			1.9	
Approach LOS		E			D				A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	6.4	100.3		19.3	5.9	100.8		19.3
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	16.6	* 63		32.1	16.6	62.2		32.1
Max Q Clear Time (g_c+I1), s	13.4	2.0		13.3	2.9	11.0		5.3
Green Ext Time (p_c), s	0.0	22.8		0.4	0.0	8.3		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	7.6
HCM 2010 LOS	A

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	31	29	34	252	26	88	9	44	727	274	15	130	1044	46
Future Volume (veh/h)	31	29	34	252	26	88	9	44	727	274	15	130	1044	46
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.96		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	38	36	30	268	28	66		49	808	216		140	1123	34
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.81	0.81	0.81	0.94	0.94	0.94		0.90	0.90	0.90		0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	35	31	13	279	24	532		191	1813	480		164	2188	66
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35		0.04	0.15	0.15		0.09	0.43	0.43
Sat Flow, veh/h	0	88	36	657	69	1517		1774	3981	1055		1774	5071	153
Grp Volume(v), veh/h	104	0	0	296	0	66		49	687	337		140	751	406
Grp Sat Flow(s),veh/h/ln	124	0	0	726	0	1517		1774	1695	1646		1774	1695	1834
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	4.1		3.8	25.8	26.1		10.9	22.6	22.7
Cycle Q Clear(g_c), s	49.1	0.0	0.0	49.1	0.0	4.1		3.8	25.8	26.1		10.9	22.6	22.7
Prop In Lane	0.37		0.29	0.91		1.00		1.00		0.64		1.00		0.08
Lane Grp Cap(c), veh/h	79	0	0	303	0	532		191	1544	750		164	1463	791
V/C Ratio(X)	1.32	0.00	0.00	0.98	0.00	0.12		0.26	0.44	0.45		0.85	0.51	0.51
Avail Cap(c_a), veh/h	79	0	0	303	0	532		198	1544	750		274	1463	791
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.33	0.33	0.33		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.93	0.93	0.93		0.78	0.78	0.78
Uniform Delay (d), s/veh	43.8	0.0	0.0	48.9	0.0	30.9		62.0	43.4	43.5		62.6	29.1	29.1
Incr Delay (d2), s/veh	209.4	0.0	0.0	44.7	0.0	0.0		0.2	0.9	1.8		4.8	1.0	1.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.6	0.0	0.0	15.2	0.0	1.7		1.9	12.4	12.3		5.5	10.7	11.8
LnGrp Delay(d),s/veh	253.2	0.0	0.0	93.5	0.0	30.9		62.3	44.2	45.3		67.4	30.1	30.9
LnGrp LOS	F			F		C		E	D	D		E	C	C
Approach Vol, veh/h		104			362				1073				1297	
Approach Delay, s/veh		253.2			82.1				45.4				34.4	
Approach LOS		F			F				D				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.3	68.7		54.0	20.0	66.0		54.0
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	21.6	35.1		49.1	15.6	* 60		49.1
Max Q Clear Time (g_c+I1), s	12.9	28.1		51.1	5.8	24.7		51.1
Green Ext Time (p_c), s	0.1	6.1		0.0	0.0	20.9		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	52.7
HCM 2010 LOS	D

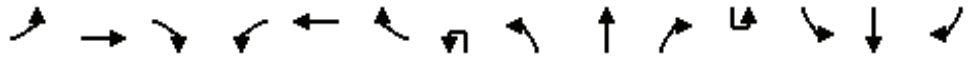
Notes

Intersection	
Intersection Delay, s/veh	11.5
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	58	41	203	68	12	83	46	90	6	90	2
Future Vol, veh/h	0	58	41	203	68	12	83	46	90	6	90	2
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	88	62	233	78	14	91	51	99	7	111	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.7	13.1	11.1	10
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	38%	0%	72%	6%
Vol Thru, %	21%	59%	24%	92%
Vol Right, %	41%	41%	4%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	219	99	283	98
LT Vol	83	0	203	6
Through Vol	46	58	68	90
RT Vol	90	41	12	2
Lane Flow Rate	241	150	325	121
Geometry Grp	1	1	1	1
Degree of Util (X)	0.351	0.217	0.477	0.189
Departure Headway (Hd)	5.247	5.196	5.28	5.615
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	686	690	683	638
Service Time	3.283	3.235	3.312	3.657
HCM Lane V/C Ratio	0.351	0.217	0.476	0.19
HCM Control Delay	11.1	9.7	13.1	10
HCM Lane LOS	B	A	B	A
HCM 95th-tile Q	1.6	0.8	2.6	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	87	48	186	109	46	129	17	201	797	130	8	176	963	182
Future Volume (veh/h)	87	48	186	109	46	129	17	201	797	130	8	176	963	182
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	93	51	158	118	50	98		221	876	101		185	1014	152
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	250	93	288	194	132	258		467	2513	288		207	1393	604
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24		0.26	0.54	0.54		0.23	0.79	0.79
Sat Flow, veh/h	1224	391	1210	1156	553	1085		1774	4621	530		1774	3539	1534
Grp Volume(v), veh/h	93	0	209	118	0	148		221	642	335		185	1014	152
Grp Sat Flow(s),veh/h/ln	1224	0	1601	1156	0	1638		1774	1695	1761		1774	1770	1534
Q Serve(g_s), s	9.6	0.0	16.0	13.9	0.0	10.6		14.7	14.9	15.0		14.1	20.0	3.7
Cycle Q Clear(g_c), s	20.2	0.0	16.0	30.0	0.0	10.6		14.7	14.9	15.0		14.1	20.0	3.7
Prop In Lane	1.00		0.76	1.00		0.66		1.00		0.30		1.00		1.00
Lane Grp Cap(c), veh/h	250	0	381	194	0	390		467	1844	958		207	1393	604
V/C Ratio(X)	0.37	0.00	0.55	0.61	0.00	0.38		0.47	0.35	0.35		0.89	0.73	0.25
Avail Cap(c_a), veh/h	397	0	573	333	0	586		467	1844	958		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.90	0.90	0.90
Uniform Delay (d), s/veh	53.2	0.0	46.8	59.9	0.0	44.7		43.4	18.0	18.0		52.8	11.2	9.4
Incr Delay (d2), s/veh	0.7	0.0	0.9	2.3	0.0	0.5		0.3	0.5	1.0		4.8	3.0	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.3	0.0	7.2	4.6	0.0	4.9		7.2	7.1	7.5		7.2	9.9	1.7
LnGrp Delay(d),s/veh	53.8	0.0	47.7	62.2	0.0	45.1		43.7	18.5	19.0		57.6	14.2	10.3
LnGrp LOS	D		D	E		D		D	B	B		E	B	B
Approach Vol, veh/h		302			266				1198				1351	
Approach Delay, s/veh		49.6			52.7				23.3				19.7	
Approach LOS		D			D				C				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	81.0		38.2	41.8	60.0		38.2
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	16.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	16.1	17.0		22.2	16.7	22.0		32.0
Green Ext Time (p_c), s	0.2	7.8		1.4	0.1	11.2		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	26.8
HCM 2010 LOS	C

Notes

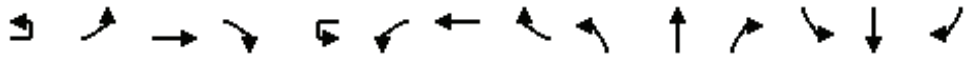


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	356	1022	68	477	893	120	21	85	310	374	272	656	288
Future Volume (veh/h)	15	356	1022	68	477	893	120	21	85	310	374	272	656	288
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		371	1065	52	507	950	94		90	330	286	316	763	237
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		572	1172	57	552	1050	104		110	672	538	329	829	257
Arrive On Green		0.17	0.34	0.34	0.16	0.32	0.32		0.06	0.19	0.19	0.19	0.31	0.31
Sat Flow, veh/h		3442	3428	167	3442	3241	321		1774	3539	1499	1774	2645	822
Grp Volume(v), veh/h		371	550	567	507	519	525		90	330	286	316	510	490
Grp Sat Flow(s),veh/h/ln		1721	1770	1826	1721	1770	1792		1774	1770	1499	1774	1770	1697
Q Serve(g_s), s		16.3	48.0	48.0	23.5	45.4	45.4		8.1	13.5	24.8	28.6	45.0	45.0
Cycle Q Clear(g_c), s		16.3	48.0	48.0	23.5	45.4	45.4		8.1	13.5	24.8	28.6	45.0	45.0
Prop In Lane		1.00		0.09	1.00		0.18		1.00		1.00	1.00		0.48
Lane Grp Cap(c), veh/h		572	605	624	552	573	580		110	672	538	329	554	532
V/C Ratio(X)		0.65	0.91	0.91	0.92	0.91	0.91		0.82	0.49	0.53	0.96	0.92	0.92
Avail Cap(c_a), veh/h		638	656	677	638	656	664		329	875	625	329	554	532
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		63.0	50.8	50.8	66.9	52.3	52.3		75.0	58.6	42.2	65.3	53.6	53.6
Incr Delay (d2), s/veh		1.3	16.1	15.7	15.9	14.9	14.8		5.6	0.4	0.6	38.8	20.8	21.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.9	26.2	27.0	12.4	24.6	24.9		4.1	6.6	10.3	17.6	25.2	24.2
LnGrp Delay(d),s/veh		64.4	66.9	66.6	82.8	67.2	67.1		80.5	58.9	42.8	104.1	74.4	75.0
LnGrp LOS		E	E	E	F	E	E		F	E	D	F	E	E
Approach Vol, veh/h			1488			1551				706			1316	
Approach Delay, s/veh			66.1			72.3				55.1			81.8	
Approach LOS			E			E				E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.4	61.0	14.4	56.0	32.6	58.8	34.4	36.0
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	25.5	50.0	10.1	47.0	18.3	47.4	30.6	26.8
Green Ext Time (p_c), s	0.5	5.3	0.1	0.0	0.5	5.0	0.0	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	70.5
HCM 2010 LOS	E

Notes

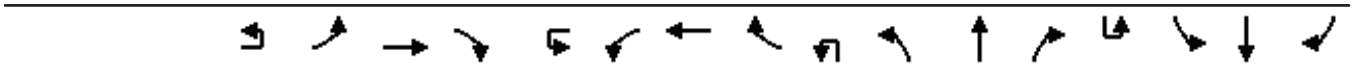


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	66	1274	169	47	76	1313	100	123	58	38	54	136	140
Future Volume (veh/h)	6	66	1274	169	47	76	1313	100	123	58	38	54	136	140
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		69	1341	134		81	1397	75	138	65	31	59	149	114
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		179	1548	154		102	1435	77	154	73	35	57	144	110
Arrive On Green		0.10	0.48	0.48		0.02	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3251	323		1774	3417	183	1041	490	234	318	804	615
Grp Volume(v), veh/h		69	727	748		81	722	750	234	0	0	322	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1805		1774	1770	1830	1765	0	0	1737	0	0
Q Serve(g_s), s		5.1	51.2	51.9		6.4	56.8	57.1	18.2	0.0	0.0	25.1	0.0	0.0
Cycle Q Clear(g_c), s		5.1	51.2	51.9		6.4	56.8	57.1	18.2	0.0	0.0	25.1	0.0	0.0
Prop In Lane		1.00		0.18		1.00		0.10	0.59		0.13	0.18		0.35
Lane Grp Cap(c), veh/h		179	842	859		102	743	769	261	0	0	311	0	0
V/C Ratio(X)		0.39	0.86	0.87		0.80	0.97	0.98	0.90	0.00	0.00	1.03	0.00	0.00
Avail Cap(c_a), veh/h		179	842	859		172	743	769	316	0	0	311	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.42	0.42	0.42	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		58.9	32.6	32.8		67.9	59.5	59.6	58.6	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		0.5	11.4	11.7		2.3	15.7	16.1	21.3	0.0	0.0	60.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.5	27.5	28.6		3.2	31.1	32.5	10.4	0.0	0.0	17.2	0.0	0.0
LnGrp Delay(d),s/veh		59.4	44.0	44.5		70.1	75.2	75.7	79.9	0.0	0.0	117.5	0.0	0.0
LnGrp LOS		E	D	D		E	E	E	E			F		
Approach Vol, veh/h			1544				1553			234			322	
Approach Delay, s/veh			44.9				75.2			79.9			117.5	
Approach LOS			D				E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.4	72.0		30.0	19.4	65.0		25.6
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	19.4	53.9		27.1	7.1	59.1		20.2
Green Ext Time (p_c), s	0.0	2.5		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	66.4
HCM 2010 LOS	E

Notes

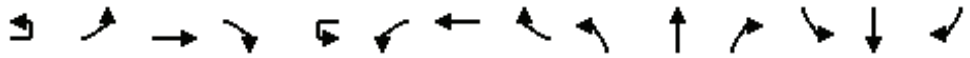


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	272	887	225	8	278	969	329	13	267	539	146	31	395	661	182
Future Volume (veh/h)	3	272	887	225	8	278	969	329	13	267	539	146	31	395	661	182
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		296	964	172		309	1077	279		297	599	130		444	743	144
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		322	1058	189		558	1363	353		346	815	173		498	848	354
Arrive On Green		0.06	0.12	0.12		0.05	0.11	0.11		0.20	0.39	0.39		0.14	0.24	0.24
Sat Flow, veh/h		1774	2981	531		3442	3982	1031		3442	4170	885		3442	3539	1476
Grp Volume(v), veh/h		296	572	564		309	917	439		297	485	244		444	743	144
Grp Sat Flow(s),veh/h/ln		1774	1770	1743		1721	1695	1623		1721	1695	1665		1721	1770	1476
Q Serve(g_s), s		23.2	44.7	44.8		12.3	36.9	36.9		11.7	17.1	17.7		17.7	28.3	11.5
Cycle Q Clear(g_c), s		23.2	44.7	44.8		12.3	36.9	36.9		11.7	17.1	17.7		17.7	28.3	11.5
Prop In Lane		1.00		0.30		1.00		0.64		1.00		0.53		1.00		1.00
Lane Grp Cap(c), veh/h		322	628	619		558	1160	556		346	662	325		498	848	354
V/C Ratio(X)		0.92	0.91	0.91		0.55	0.79	0.79		0.86	0.73	0.75		0.89	0.88	0.41
Avail Cap(c_a), veh/h		362	628	619		558	1160	556		556	753	370		629	862	359
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.84	0.84	0.84		0.93	0.93	0.93		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.8	59.6	59.6		61.3	57.2	57.2		55.0	39.5	39.7		58.8	51.2	44.9
Incr Delay (d2), s/veh		3.5	2.5	2.5		0.6	4.7	9.3		4.0	3.8	8.4		11.1	10.5	1.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		11.7	22.4	22.1		5.9	18.1	18.0		5.7	8.3	8.9		9.2	15.1	4.8
LnGrp Delay(d),s/veh		68.3	62.1	62.2		61.9	61.9	66.5		59.0	43.3	48.2		69.9	61.7	46.1
LnGrp LOS		E	E	E		E	E	E		E	D	D		E	E	D
Approach Vol, veh/h			1432				1665				1026				1331	
Approach Delay, s/veh			63.4				63.1				49.0				62.8	
Approach LOS			E				E				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.1	55.0	18.5	38.4	29.8	53.3	24.6	32.2
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	14.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	14.3	46.8	13.7	30.3	25.2	38.9	19.7	19.7
Green Ext Time (p_c), s	0.0	1.9	0.4	2.4	0.2	0.0	0.5	5.2

Intersection Summary	
HCM 2010 Ctrl Delay	60.4
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	7	137	1095	86	30	143	1359	140	119	43	119	229	68	220
Future Volume (veh/h)	7	137	1095	86	30	143	1359	140	119	43	119	229	68	220
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.98	0.98		0.94	0.97		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		149	1190	65		146	1387	100	132	48	92	260	77	180
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.92	0.92	0.92		0.98	0.98	0.98	0.90	0.90	0.90	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		196	2566	140		193	2513	181	377	380	305	419	400	329
Arrive On Green		0.11	1.00	1.00		0.11	1.00	1.00	0.07	0.20	0.20	0.08	0.21	0.21
Sat Flow, veh/h		3442	4931	269		3442	4836	349	1774	1863	1495	1774	1863	1530
Grp Volume(v), veh/h		149	818	437		146	972	515	132	48	92	260	77	180
Grp Sat Flow(s),veh/h/ln		1721	1695	1810		1721	1695	1795	1774	1863	1495	1774	1863	1530
Q Serve(g_s), s		5.9	0.0	0.0		5.8	0.0	0.0	8.1	2.9	7.3	11.6	4.7	14.7
Cycle Q Clear(g_c), s		5.9	0.0	0.0		5.8	0.0	0.0	8.1	2.9	7.3	11.6	4.7	14.7
Prop In Lane		1.00		0.15		1.00		0.19	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		196	1764	942		193	1761	933	377	380	305	419	400	329
V/C Ratio(X)		0.76	0.46	0.46		0.76	0.55	0.55	0.35	0.13	0.30	0.62	0.19	0.55
Avail Cap(c_a), veh/h		334	1764	942		334	1761	933	396	573	460	419	573	471
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.36	0.36	0.36		0.61	0.61	0.61	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		61.1	0.0	0.0		61.2	0.0	0.0	39.6	45.5	47.2	43.0	45.0	48.9
Incr Delay (d2), s/veh		0.8	0.3	0.6		1.4	0.8	1.4	0.2	0.1	0.2	2.1	0.1	0.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.8	0.1	0.2		2.8	0.2	0.4	4.0	1.5	3.0	8.2	2.4	6.2
LnGrp Delay(d),s/veh		62.0	0.3	0.6		62.7	0.8	1.4	39.8	45.6	47.4	45.1	45.1	49.4
LnGrp LOS		E	A	A		E	A	A	D	D	D	D	D	D
Approach Vol, veh/h			1404				1633			272			517	
Approach Delay, s/veh			6.9				6.5			43.4			46.6	
Approach LOS			A				A			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.2	78.3	14.5	35.0	12.4	78.1	16.0	33.5
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	13.6	* 53	11.6	43.1	13.6	52.6	11.6	43.1
Max Q Clear Time (g_c+I1), s	7.8	2.0	10.1	16.7	7.9	2.0	13.6	9.3
Green Ext Time (p_c), s	0.1	22.6	0.0	0.6	0.1	19.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	14.7
HCM 2010 LOS	B

Notes

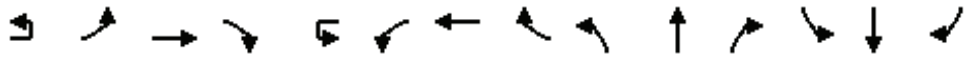


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	38	119	1250	92	333	1611	160	79	116	245	245	415	183
Future Volume (veh/h)	38	119	1250	92	333	1611	160	79	116	245	245	415	183
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.95	1.00		0.93	1.00		0.95
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		127	1330	68	362	1751	123	89	130	240	278	472	147
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.94	0.94	0.94	0.92	0.92	0.92	0.89	0.89	0.89	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		150	1699	87	386	2306	162	135	386	650	325	930	395
Arrive On Green		0.08	0.34	0.34	0.22	0.48	0.48	0.03	0.14	0.14	0.09	0.26	0.26
Sat Flow, veh/h		1774	4942	253	1774	4835	339	3442	1863	1469	3442	3539	1503
Grp Volume(v), veh/h		127	912	486	362	1227	647	89	130	240	278	472	147
Grp Sat Flow(s),veh/h/ln		1774	1695	1805	1774	1695	1784	1721	1863	1469	1721	1770	1503
Q Serve(g_s), s		9.9	33.8	33.8	28.1	41.5	41.7	3.6	8.8	16.0	11.1	15.9	11.2
Cycle Q Clear(g_c), s		9.9	33.8	33.8	28.1	41.5	41.7	3.6	8.8	16.0	11.1	15.9	11.2
Prop In Lane		1.00		0.14	1.00		0.19	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		150	1166	621	386	1617	850	135	386	650	325	930	395
V/C Ratio(X)		0.84	0.78	0.78	0.94	0.76	0.76	0.66	0.34	0.37	0.85	0.51	0.37
Avail Cap(c_a), veh/h		236	1166	621	527	1617	850	310	494	734	359	988	420
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00	0.67	0.67	0.67	1.00	1.00	1.00
Upstream Filter(I)		0.85	0.85	0.85	0.63	0.63	0.63	0.47	0.47	0.47	1.00	1.00	1.00
Uniform Delay (d), s/veh		63.2	41.2	41.2	53.8	30.0	30.1	67.2	51.6	30.1	62.4	43.9	42.2
Incr Delay (d2), s/veh		7.6	4.5	8.2	12.8	2.2	4.1	1.0	0.1	0.1	15.4	0.2	0.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.2	16.6	18.3	15.1	19.9	21.5	1.7	4.6	6.5	6.0	7.8	4.7
LnGrp Delay(d),s/veh		70.7	45.8	49.5	66.6	32.2	34.2	68.2	51.7	30.2	77.9	44.1	42.4
LnGrp LOS		E	D	D	E	C	C	E	D	C	E	D	D
Approach Vol, veh/h			1525			2236			459			897	
Approach Delay, s/veh			49.0			38.3			43.6			54.3	
Approach LOS			D			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.9	53.5	9.9	41.7	16.3	72.2	17.6	33.9
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	10.6	* 28	12.6	39.1	18.6	50.6	14.6	37.1
Max Q Clear Time (g_c+I1), s	30.1	35.8	5.6	17.9	11.9	43.7	13.1	18.0
Green Ext Time (p_c), s	0.4	0.0	0.1	2.4	0.1	6.6	0.1	0.9

Intersection Summary	
HCM 2010 Ctrl Delay	44.8
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	55	1650	54	8	117	2077	30	14	16	85	39	46	49
Future Volume (veh/h)	13	55	1650	54	8	117	2077	30	14	16	85	39	46	49
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.95	1.00		0.95
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		60	1793	42		122	2164	22	15	17	67	46	55	40
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.92	0.92	0.92		0.96	0.96	0.96	0.92	0.92	0.92	0.84	0.84	0.84
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		432	2934	69		144	2098	21	26	30	118	54	64	47
Arrive On Green		0.32	0.76	0.76		0.16	0.81	0.81	0.11	0.11	0.11	0.10	0.10	0.10
Sat Flow, veh/h		1774	5112	120		1774	5190	53	241	273	1076	560	670	487
Grp Volume(v), veh/h		60	1189	646		122	1413	773	99	0	0	141	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1841		1774	1695	1852	1590	0	0	1717	0	0
Q Serve(g_s), s		3.4	21.8	21.8		9.4	56.6	56.6	8.3	0.0	0.0	11.3	0.0	0.0
Cycle Q Clear(g_c), s		3.4	21.8	21.8		9.4	56.6	56.6	8.3	0.0	0.0	11.3	0.0	0.0
Prop In Lane		1.00		0.06		1.00		0.03	0.15		0.68	0.33		0.28
Lane Grp Cap(c), veh/h		432	1946	1057		144	1371	749	175	0	0	165	0	0
V/C Ratio(X)		0.14	0.61	0.61		0.85	1.03	1.03	0.57	0.00	0.00	0.86	0.00	0.00
Avail Cap(c_a), veh/h		432	1946	1057		248	1371	749	399	0	0	210	0	0
HCM Platoon Ratio		1.33	1.33	1.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.64	0.64	0.64		0.70	0.70	0.70	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		36.9	9.6	9.6		57.8	13.4	13.4	59.1	0.0	0.0	62.3	0.0	0.0
Incr Delay (d2), s/veh		0.0	0.9	1.7		3.7	28.7	36.1	1.1	0.0	0.0	19.9	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	10.2	11.3		4.7	30.2	34.6	3.7	0.0	0.0	6.3	0.0	0.0
LnGrp Delay(d),s/veh		37.0	10.6	11.3		61.6	42.1	49.5	60.2	0.0	0.0	82.2	0.0	0.0
LnGrp LOS		D	B	B		E	F	F	E			F		
Approach Vol, veh/h			1895				2308			99			141	
Approach Delay, s/veh			11.7				45.6			60.2			82.2	
Approach LOS			B				D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.7	85.7		20.3	39.4	62.0		18.3
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 5.4		4.9
Max Green Setting (Gmax), s	10.6	48.7		35.1	11.6	* 57		17.1
Max Q Clear Time (g_c+I1), s	11.4	23.8		10.3	5.4	58.6		13.3
Green Ext Time (p_c), s	0.1	20.6		0.3	0.0	0.0		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	32.6
HCM 2010 LOS	C

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1545	205	476	2068	294	149	54	335	193	158	18
Future Volume (veh/h)	20	1545	205	476	2068	294	149	54	335	193	158	18
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1593	166	491	2132	212	115	137	333	214	176	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1868	194	400	3196	993	191	201	1043	191	183	15
Arrive On Green	0.03	0.84	0.84	0.23	0.63	0.63	0.11	0.11	0.11	0.11	0.11	0.11
Sat Flow, veh/h	1774	4462	464	1774	5085	1581	1774	1863	3045	1774	1696	135
Grp Volume(v), veh/h	21	1130	629	491	2132	212	115	137	333	214	0	190
Grp Sat Flow(s),veh/h/ln	1774	1583	1760	1774	1695	1581	1774	1863	1522	1774	0	1831
Q Serve(g_s), s	1.6	28.3	28.6	31.6	37.6	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Cycle Q Clear(g_c), s	1.6	28.3	28.6	31.6	37.6	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Prop In Lane	1.00		0.26	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	28	1326	737	400	3196	993	191	201	1043	191	0	198
V/C Ratio(X)	0.74	0.85	0.85	1.23	0.67	0.21	0.60	0.68	0.32	1.12	0.00	0.96
Avail Cap(c_a), veh/h	134	1326	737	400	3196	993	318	334	1261	191	0	198
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.71	0.71	0.71	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	8.9	8.9	54.2	16.6	11.2	59.6	60.2	34.9	62.5	0.0	62.2
Incr Delay (d2), s/veh	9.7	5.2	9.0	122.1	1.1	0.5	2.3	3.0	0.1	100.4	0.0	52.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	12.6	14.8	29.0	17.7	3.7	4.4	5.3	4.8	12.7	0.0	10.2
LnGrp Delay(d),s/veh	77.2	14.1	17.9	176.3	17.8	11.7	61.8	63.2	35.0	162.9	0.0	114.8
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1780			2835			585			404	
Approach Delay, s/veh		16.2			44.8			46.9			140.3	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	64.0		20.0	6.6	93.4		20.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	13.6	30.6		17.1	3.6	39.6		13.5
Green Ext Time (p_c), s	0.0	15.3		0.0	0.0	24.9		1.6

Intersection Summary	
HCM 2010 Ctrl Delay	42.8
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	0	2427	0	0	0	0	0	1	422
Future Volume (veh/h)	0	0	0	0	2427	0	0	0	0	0	1	422
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		0.98
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	2528	0				0	1	406
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.96	0.96	0.96				0.91	0.91	0.91
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	3375	1051				0	341	500
Arrive On Green				0.00	0.66	0.00				0.00	0.18	0.18
Sat Flow, veh/h				0	5253	1583				0	1863	2732
Grp Volume(v), veh/h				0	2528	0				0	1	406
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1366
Q Serve(g_s), s				0.0	19.5	0.0				0.0	0.0	8.4
Cycle Q Clear(g_c), s				0.0	19.5	0.0				0.0	0.0	8.4
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	3375	1051				0	341	500
V/C Ratio(X)				0.00	0.75	0.00				0.00	0.00	0.81
Avail Cap(c_a), veh/h				0	4436	1381				0	1128	1654
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	6.6	0.0				0.0	19.6	23.0
Incr Delay (d2), s/veh				0.0	0.3	0.0				0.0	0.0	1.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	9.0	0.0				0.0	0.0	3.2
LnGrp Delay(d),s/veh				0.0	6.9	0.0				0.0	19.6	24.3
LnGrp LOS					A						B	C
Approach Vol, veh/h					2528						407	
Approach Delay, s/veh					6.9						24.2	
Approach LOS					A						C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				15.3		43.5		
Change Period (Y+Rc), s				4.5		4.5		
Max Green Setting (Gmax), s				35.6		51.3		
Max Q Clear Time (g_c+I1), s				10.4		21.5		
Green Ext Time (p_c), s				0.4		17.5		

Intersection Summary	
HCM 2010 Ctrl Delay	9.3
HCM 2010 LOS	A

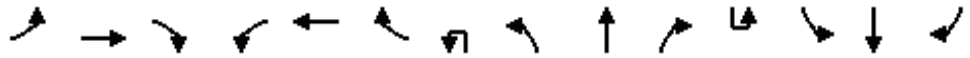
Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1516	338	0	0	0	0	1	485	0	0	0
Future Volume (veh/h)	0	1516	338	0	0	0	0	1	485	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	1596	0				0	1	453			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.95	0.95	0.95				0.91	0.91	0.91			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	2559	797				0	420	607			
Arrive On Green	0.00	0.50	0.00				0.00	0.23	0.23			
Sat Flow, veh/h	0	5253	1583				0	1863	2693			
Grp Volume(v), veh/h	0	1596	0				0	1	453			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1346			
Q Serve(g_s), s	0.0	9.1	0.0				0.0	0.0	6.3			
Cycle Q Clear(g_c), s	0.0	9.1	0.0				0.0	0.0	6.3			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	2559	797				0	420	607			
V/C Ratio(X)	0.00	0.62	0.00				0.00	0.00	0.75			
Avail Cap(c_a), veh/h	0	6327	1970				0	807	1166			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	7.2	0.0				0.0	12.1	14.5			
Incr Delay (d2), s/veh	0.0	0.1	0.0				0.0	0.0	0.7			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	4.2	0.0				0.0	0.0	2.4			
LnGrp Delay(d),s/veh	0.0	7.3	0.0				0.0	12.1	15.2			
LnGrp LOS		A						B	B			
Approach Vol, veh/h		1596						454				
Approach Delay, s/veh		7.3						15.2				
Approach LOS		A						B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		26.0						14.2
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						17.4
Max Q Clear Time (g_c+I1), s		11.1						8.3
Green Ext Time (p_c), s		9.1						0.8

Intersection Summary	
HCM 2010 Ctrl Delay	9.1
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	222	298	124	347	359	109	4	73	589	158	8	97	920	250
Future Volume (veh/h)	222	298	124	347	359	109	4	73	589	158	8	97	920	250
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.95		1.00		0.94		1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	247	331	99	408	422	90		76	614	118		100	948	194
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.90	0.90	0.90	0.85	0.85	0.85		0.96	0.96	0.96		0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	268	382	118	443	442	378		95	1398	409		202	1214	534
Arrive On Green	0.22	0.22	0.22	0.25	0.25	0.25		0.05	0.28	0.28		0.11	0.34	0.34
Sat Flow, veh/h	1235	1759	542	1774	1770	1511		1774	5085	1487		1774	3539	1557
Grp Volume(v), veh/h	360	0	317	408	422	90		76	614	118		100	948	194
Grp Sat Flow(s),veh/h/ln	1801	0	1736	1774	1770	1511		1774	1695	1487		1774	1770	1557
Q Serve(g_s), s	27.4	0.0	24.5	31.4	32.9	6.7		5.9	13.9	8.7		7.4	33.7	13.1
Cycle Q Clear(g_c), s	27.4	0.0	24.5	31.4	32.9	6.7		5.9	13.9	8.7		7.4	33.7	13.1
Prop In Lane	0.69		0.31	1.00		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	391	0	377	443	442	378		95	1398	409		202	1214	534
V/C Ratio(X)	0.92	0.00	0.84	0.92	0.95	0.24		0.80	0.44	0.29		0.50	0.78	0.36
Avail Cap(c_a), veh/h	400	0	386	445	444	379		134	1398	409		202	1214	534
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.52	0.52	0.52		1.00	1.00	1.00		0.35	0.35	0.35
Uniform Delay (d), s/veh	53.6	0.0	52.5	51.1	51.7	41.9		65.5	41.8	40.0		58.3	41.3	34.5
Incr Delay (d2), s/veh	25.6	0.0	14.2	14.6	20.2	0.1		13.0	1.0	1.8		0.2	1.8	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.4	0.0	13.2	17.2	18.5	2.8		3.3	6.7	3.8		3.7	16.8	5.7
LnGrp Delay(d),s/veh	79.3	0.0	66.7	65.8	71.9	41.9		78.5	42.8	41.7		58.5	43.1	35.2
LnGrp LOS	E		E	E	E	D		E	D	D		E	D	D
Approach Vol, veh/h		677			920				808				1242	
Approach Delay, s/veh		73.4			66.2				46.0				43.1	
Approach LOS		E			E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	44.0		35.3	11.9	52.9		39.9
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	15.6	* 39		31.1	10.6	44.1		35.1
Max Q Clear Time (g_c+I1), s	19.4	15.9		29.4	7.9	35.7		34.9
Green Ext Time (p_c), s	0.1	5.9		0.6	0.0	7.6		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	55.2
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	4.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	108	46	161	255	28	100
Future Vol, veh/h	108	46	161	255	28	100
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	117	50	175	277	30	109

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	167	0	769	142
Stage 1	-	-	-	-	142	-
Stage 2	-	-	-	-	627	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1411	-	369	906
Stage 1	-	-	-	-	885	-
Stage 2	-	-	-	-	532	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1411	-	315	906
Mov Cap-2 Maneuver	-	-	-	-	315	-
Stage 1	-	-	-	-	755	-
Stage 2	-	-	-	-	532	-

Approach	EB	WB	NB
HCM Control Delay, s	0	3.1	12.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	642	-	-	1411	-
HCM Lane V/C Ratio	0.217	-	-	0.124	-
HCM Control Delay (s)	12.2	-	-	7.9	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.8	-	-	0.4	-

Appendix I
Trigger Analysis and Peak Hour Intersection LOS Worksheets – Near-Term Year 2021 Base Plus Project with Mitigation Conditions

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	146	9	106	520	320	177	1040	67	6
Future Volume (veh/h)	6	208	437	146	9	106	520	320	177	1040	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	113		114	559	241	182	1072	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	935	228		266	794	341	244	1114	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.33	0.33	0.09	0.43	0.43	
Sat Flow, veh/h		3442	2804	683		3442	2380	1023	3442	3446	154	
Grp Volume(v), veh/h		219	289	284		114	415	385	182	550	570	
Grp Sat Flow(s),veh/h/ln		1721	1770	1718		1721	1770	1633	1721	1770	1830	
Q Serve(g_s), s		6.7	14.0	14.3		3.4	22.1	22.2	5.6	32.7	32.7	
Cycle Q Clear(g_c), s		6.7	14.0	14.3		3.4	22.1	22.2	5.6	32.7	32.7	
Prop In Lane		1.00		0.40		1.00		0.63	1.00		0.08	
Lane Grp Cap(c), veh/h		283	590	573		266	591	545	244	572	592	
V/C Ratio(X)		0.77	0.49	0.50		0.43	0.70	0.71	0.75	0.96	0.96	
Avail Cap(c_a), veh/h		433	590	573		274	591	545	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.85	0.85	0.85	
Uniform Delay (d), s/veh		48.6	28.7	28.8		47.6	31.3	31.4	48.0	30.1	30.1	
Incr Delay (d2), s/veh		1.9	2.9	3.1		0.4	6.9	7.5	1.5	25.3	24.9	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.3	7.3		1.6	11.9	11.1	2.7	19.9	20.5	
LnGrp Delay(d),s/veh		50.5	31.6	31.8		48.0	38.2	38.9	49.4	55.4	55.0	
LnGrp LOS		D	C	C		D	D	D	D	E	E	
Approach Vol, veh/h			792				914			1302		
Approach Delay, s/veh			36.9				39.7			54.4		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.3	41.0	12.1	41.6	13.3	41.0	13.8	39.8
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	16.3	7.6	15.3	8.7	24.2	9.2	34.7
Green Ext Time (p_c), s	0.0	3.6	0.1	1.7	0.2	2.9	0.0	0.2

Intersection Summary	
HCM 2010 Ctrl Delay	43.6
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	412	100
Future Volume (veh/h)	106	412	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	468	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1022	173
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	3007	510
Grp Volume(v), veh/h	120	274	274
Grp Sat Flow(s),veh/h/ln	1774	1770	1747
Q Serve(g_s), s	7.2	13.1	13.3
Cycle Q Clear(g_c), s	7.2	13.1	13.3
Prop In Lane	1.00		0.29
Lane Grp Cap(c), veh/h	147	601	594
V/C Ratio(X)	0.82	0.46	0.46
Avail Cap(c_a), veh/h	158	601	594
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.9	27.9
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.4	6.4
LnGrp Delay(d),s/veh	72.5	28.1	28.1
LnGrp LOS	E	C	C
Approach Vol, veh/h		668	
Approach Delay, s/veh		36.1	
Approach LOS		D	
Timer			

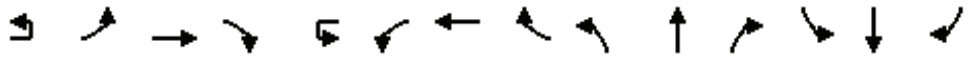


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	205	880	76	372	826	123	15	156	415	377	2	184	281	299
Future Volume (veh/h)	5	205	880	76	372	826	123	15	156	415	377	2	184	281	299
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		214	917	56	396	879	100		188	500	454		202	309	232
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		415	1088	66	455	1017	116		214	956	637		228	535	390
Arrive On Green		0.12	0.32	0.32	0.13	0.32	0.32		0.12	0.27	0.27		0.13	0.28	0.28
Sat Flow, veh/h		3442	3376	206	3442	3189	363		1774	3539	1583		1774	1924	1402
Grp Volume(v), veh/h		214	481	492	396	488	491		188	500	454		202	283	258
Grp Sat Flow(s),veh/h/ln		1721	1770	1813	1721	1770	1782		1774	1770	1583		1774	1770	1556
Q Serve(g_s), s		7.9	34.0	34.0	15.2	34.9	34.9		14.0	16.2	32.4		15.1	18.5	19.3
Cycle Q Clear(g_c), s		7.9	34.0	34.0	15.2	34.9	34.9		14.0	16.2	32.4		15.1	18.5	19.3
Prop In Lane		1.00		0.11	1.00		0.20		1.00		1.00		1.00		0.90
Lane Grp Cap(c), veh/h		415	570	584	455	565	568		214	956	637		228	492	433
V/C Ratio(X)		0.52	0.84	0.84	0.87	0.86	0.86		0.88	0.52	0.71		0.89	0.58	0.60
Avail Cap(c_a), veh/h		767	789	808	767	789	794		395	1051	680		395	526	462
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		55.5	42.5	42.5	57.3	43.1	43.1		58.2	41.8	33.7		57.7	41.8	42.1
Incr Delay (d2), s/veh		0.4	6.5	6.4	2.8	7.3	7.2		4.5	0.3	3.0		5.6	1.2	1.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.8	17.6	18.0	7.4	18.2	18.3		7.2	8.0	14.6		7.8	9.2	8.5
LnGrp Delay(d),s/veh		55.9	49.0	48.9	60.1	50.4	50.3		62.8	42.1	36.7		63.3	43.0	43.7
LnGrp LOS		E	D	D	E	D	D		E	D	D		E	D	D
Approach Vol, veh/h			1187			1375				1142				743	
Approach Delay, s/veh			50.2			53.2				43.3				48.7	
Approach LOS			D			D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.2	49.1	20.6	42.7	21.9	49.4	21.7	41.7
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	17.2	36.0	16.0	21.3	9.9	36.9	17.1	34.4
Green Ext Time (p_c), s	0.6	7.4	0.2	2.7	0.3	6.1	0.2	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	49.1
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	34	1138	187	3	50	1006	97	264	103	83	66	114	71
Future Volume (veh/h)	13	34	1138	187	3	50	1006	97	264	103	83	66	114	71
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		39	1293	182		62	1242	85	388	151	85	84	144	65
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		50	1174	164		79	1323	90	275	107	60	91	157	71
Arrive On Green		0.03	0.38	0.38		0.01	0.13	0.13	0.25	0.25	0.25	0.18	0.18	0.18
Sat Flow, veh/h		1774	3106	434		1774	3356	229	1098	427	240	505	865	391
Grp Volume(v), veh/h		39	732	743		62	654	673	624	0	0	293	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1771		1774	1770	1816	1765	0	0	1761	0	0
Q Serve(g_s), s		3.1	52.9	52.9		4.9	51.2	51.4	35.1	0.0	0.0	22.9	0.0	0.0
Cycle Q Clear(g_c), s		3.1	52.9	52.9		4.9	51.2	51.4	35.1	0.0	0.0	22.9	0.0	0.0
Prop In Lane		1.00		0.25		1.00		0.13	0.62		0.14	0.29		0.22
Lane Grp Cap(c), veh/h		50	669	669		79	698	716	443	0	0	319	0	0
V/C Ratio(X)		0.78	1.10	1.11		0.78	0.94	0.94	1.41	0.00	0.00	0.92	0.00	0.00
Avail Cap(c_a), veh/h		122	669	669		122	698	716	443	0	0	353	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.67	0.67	0.67	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.6	43.6	43.6		68.3	59.2	59.3	52.5	0.0	0.0	56.3	0.0	0.0
Incr Delay (d2), s/veh		9.3	63.8	69.0		5.0	16.3	16.4	197.6	0.0	0.0	25.8	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.6	37.7	38.7		2.5	28.3	29.2	41.4	0.0	0.0	13.4	0.0	0.0
LnGrp Delay(d),s/veh		76.8	107.3	112.6		73.3	75.4	75.6	250.0	0.0	0.0	82.1	0.0	0.0
LnGrp LOS		E	F	F		E	E	E	F			F		
Approach Vol, veh/h			1514				1389			624			293	
Approach Delay, s/veh			109.1				75.4			250.0			82.1	
Approach LOS			F				E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.7	59.1		30.2	8.4	61.4		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	6.9	54.9		24.9	5.1	53.4		37.1
Green Ext Time (p_c), s	0.0	0.0		0.4	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	117.8
HCM 2010 LOS	F

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1972	180	442	1521	269	128	91	665	260	155	5
Future Volume (veh/h)	2	1972	180	442	1521	269	128	91	665	260	155	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	2033	149	480	1653	204	126	134	672	289	172	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	1827	133	350	2917	889	255	267	1064	293	299	7
Arrive On Green	0.00	0.76	0.76	0.20	0.57	0.57	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4825	351	1774	5085	1549	1774	1863	3066	1774	1812	42
Grp Volume(v), veh/h	2	1424	758	480	1653	204	126	134	672	289	0	176
Grp Sat Flow(s),veh/h/ln	1774	1695	1786	1774	1695	1549	1774	1863	1533	1774	0	1854
Q Serve(g_s), s	0.2	53.0	53.0	27.6	28.8	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Cycle Q Clear(g_c), s	0.2	53.0	53.0	27.6	28.8	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Prop In Lane	1.00		0.20	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	4	1283	676	350	2917	889	255	267	1064	293	0	306
V/C Ratio(X)	0.53	1.11	1.12	1.37	0.57	0.23	0.49	0.50	0.63	0.99	0.00	0.58
Avail Cap(c_a), veh/h	274	1283	676	350	2917	889	255	267	1064	293	0	306
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.38	0.38	0.38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.6	17.0	17.0	56.2	18.9	14.7	55.3	55.3	39.0	58.3	0.0	53.9
Incr Delay (d2), s/veh	14.9	54.2	62.5	184.8	0.8	0.6	1.1	1.1	1.1	48.9	0.0	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	33.2	36.5	31.5	13.5	4.0	4.6	4.9	11.1	15.1	0.0	6.5
LnGrp Delay(d),s/veh	84.6	71.2	79.5	241.0	19.7	15.3	56.4	56.4	40.0	107.2	0.0	55.7
LnGrp LOS	F	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2184			2337			932			465	
Approach Delay, s/veh		74.1			64.7			44.6			87.7	
Approach LOS		E			E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	32.0	58.5		25.0	4.7	85.8		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	2.2	30.8		24.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	66.8
HCM 2010 LOS	E

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	262	15	186	737	105	261	414	106	2
Future Volume (veh/h)	11	142	662	262	15	186	737	105	261	414	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	208		200	792	79	278	440	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1150	325		255	1420	142	335	723	129	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2703	764		3442	3245	324	3442	2976	530	
Grp Volume(v), veh/h		158	482	462		200	432	439	278	260	259	
Grp Sat Flow(s),veh/h/ln		1721	1770	1697		1721	1770	1798	1721	1770	1736	
Q Serve(g_s), s		5.7	27.1	27.1		7.2	22.9	22.9	10.0	16.4	16.7	
Cycle Q Clear(g_c), s		5.7	27.1	27.1		7.2	22.9	22.9	10.0	16.4	16.7	
Prop In Lane		1.00		0.45		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		213	753	722		255	775	787	335	430	422	
V/C Ratio(X)		0.74	0.64	0.64		0.78	0.56	0.56	0.83	0.60	0.61	
Avail Cap(c_a), veh/h		399	753	722		399	775	787	481	479	470	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.6	28.6		57.3	26.4	26.4	55.9	42.3	42.4	
Incr Delay (d2), s/veh		1.9	4.1	4.3		2.1	2.9	2.8	5.3	1.0	1.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	14.1	13.6		3.5	11.8	12.0	5.0	8.1	8.1	
LnGrp Delay(d),s/veh		60.0	32.7	32.9		59.4	29.2	29.2	61.2	43.3	43.6	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1102				1071			797		
Approach Delay, s/veh			36.7				34.9			49.6		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.6	16.7	37.0	12.2	60.1	18.1	35.5
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	29.1	12.0	34.1	7.7	24.9	13.7	18.7
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.7

Intersection Summary	
HCM 2010 Ctrl Delay	63.5
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	908	101
Future Volume (veh/h)	160	908	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	956	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	845	65
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3317	257
Grp Volume(v), veh/h	168	510	520
Grp Sat Flow(s),veh/h/ln	1774	1770	1804
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	460
V/C Ratio(X)	0.87	1.13	1.13
Avail Cap(c_a), veh/h	220	451	460
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	83.4	83.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	26.1	26.6
LnGrp Delay(d),s/veh	79.8	130.4	130.0
LnGrp LOS	E	F	F
Approach Vol, veh/h		1198	
Approach Delay, s/veh		123.1	
Approach LOS		F	
Timer			

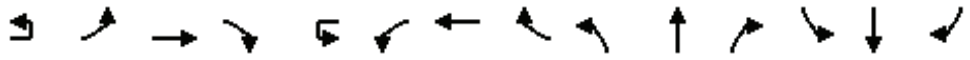


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	356	1019	68	477	891	120	21	85	310	373	272	656	288
Future Volume (veh/h)	15	356	1019	68	477	891	120	21	85	310	373	272	656	288
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		371	1061	52	507	948	94		90	330	285	316	763	237
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		571	1170	57	552	1048	104		110	671	538	330	829	258
Arrive On Green		0.17	0.34	0.34	0.16	0.32	0.32		0.06	0.19	0.19	0.19	0.31	0.31
Sat Flow, veh/h		3442	3428	168	3442	3240	321		1774	3539	1499	1774	2645	822
Grp Volume(v), veh/h		371	548	565	507	518	524		90	330	285	316	510	490
Grp Sat Flow(s),veh/h/ln		1721	1770	1826	1721	1770	1791		1774	1770	1499	1774	1770	1697
Q Serve(g_s), s		16.3	47.7	47.7	23.4	45.2	45.2		8.1	13.5	24.6	28.5	44.9	44.9
Cycle Q Clear(g_c), s		16.3	47.7	47.7	23.4	45.2	45.2		8.1	13.5	24.6	28.5	44.9	44.9
Prop In Lane		1.00		0.09	1.00		0.18		1.00		1.00	1.00		0.48
Lane Grp Cap(c), veh/h		571	604	623	552	573	580		110	671	538	330	555	532
V/C Ratio(X)		0.65	0.91	0.91	0.92	0.90	0.90		0.82	0.49	0.53	0.96	0.92	0.92
Avail Cap(c_a), veh/h		640	658	679	640	658	666		330	877	625	330	555	532
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		62.9	50.7	50.7	66.7	52.2	52.2		74.8	58.5	42.1	65.1	53.5	53.5
Incr Delay (d2), s/veh		1.3	15.8	15.5	15.8	14.7	14.6		5.6	0.4	0.6	38.2	20.6	21.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.8	25.9	26.7	12.3	24.5	24.8		4.1	6.6	10.3	17.5	25.2	24.2
LnGrp Delay(d),s/veh		64.3	66.5	66.2	82.5	67.0	66.8		80.4	58.8	42.6	103.3	74.1	74.7
LnGrp LOS		E	E	E	F	E	E		F	E	D	F	E	E
Approach Vol, veh/h			1484			1549				705			1316	
Approach Delay, s/veh			65.8			72.0				55.0			81.4	
Approach LOS			E			E				E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.3	60.8	14.4	55.9	32.5	58.6	34.4	35.9
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	25.4	49.7	10.1	46.9	18.3	47.2	30.5	26.6
Green Ext Time (p_c), s	0.5	5.4	0.1	0.0	0.5	5.1	0.0	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	70.3
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	66	1274	169	47	76	1313	100	123	58	38	54	136	140
Future Volume (veh/h)	6	66	1274	169	47	76	1313	100	123	58	38	54	136	140
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		69	1341	134		81	1397	75	138	65	31	59	149	114
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		179	1548	154		102	1435	77	154	73	35	57	144	110
Arrive On Green		0.10	0.48	0.48		0.02	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3251	323		1774	3417	183	1041	490	234	318	804	615
Grp Volume(v), veh/h		69	727	748		81	722	750	234	0	0	322	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1805		1774	1770	1830	1765	0	0	1737	0	0
Q Serve(g_s), s		5.1	51.2	51.9		6.4	56.8	57.1	18.2	0.0	0.0	25.1	0.0	0.0
Cycle Q Clear(g_c), s		5.1	51.2	51.9		6.4	56.8	57.1	18.2	0.0	0.0	25.1	0.0	0.0
Prop In Lane		1.00		0.18		1.00		0.10	0.59		0.13	0.18		0.35
Lane Grp Cap(c), veh/h		179	842	859		102	743	769	261	0	0	311	0	0
V/C Ratio(X)		0.39	0.86	0.87		0.80	0.97	0.98	0.90	0.00	0.00	1.03	0.00	0.00
Avail Cap(c_a), veh/h		179	842	859		172	743	769	316	0	0	311	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.42	0.42	0.42	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		58.9	32.6	32.8		67.9	59.5	59.6	58.6	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		0.5	11.4	11.7		2.3	15.7	16.1	21.3	0.0	0.0	60.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.5	27.5	28.6		3.2	31.1	32.5	10.4	0.0	0.0	17.2	0.0	0.0
LnGrp Delay(d),s/veh		59.4	44.0	44.5		70.1	75.2	75.7	79.9	0.0	0.0	117.5	0.0	0.0
LnGrp LOS		E	D	D		E	E	E	E			F		
Approach Vol, veh/h			1544				1553			234			322	
Approach Delay, s/veh			44.9				75.2			79.9			117.5	
Approach LOS			D				E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.4	72.0		30.0	19.4	65.0		25.6
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	19.4	53.9		27.1	7.1	59.1		20.2
Green Ext Time (p_c), s	0.0	2.5		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	66.4
HCM 2010 LOS	E

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1545	205	476	2068	294	149	54	335	193	158	18
Future Volume (veh/h)	20	1545	205	476	2068	294	149	54	335	193	158	18
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1593	166	491	2132	212	115	137	333	214	176	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1868	194	400	3196	993	191	201	1043	191	183	15
Arrive On Green	0.03	0.84	0.84	0.23	0.63	0.63	0.11	0.11	0.11	0.11	0.11	0.11
Sat Flow, veh/h	1774	4462	464	1774	5085	1581	1774	1863	3045	1774	1696	135
Grp Volume(v), veh/h	21	1130	629	491	2132	212	115	137	333	214	0	190
Grp Sat Flow(s),veh/h/ln	1774	1583	1760	1774	1695	1581	1774	1863	1522	1774	0	1831
Q Serve(g_s), s	1.6	28.3	28.6	31.6	37.6	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Cycle Q Clear(g_c), s	1.6	28.3	28.6	31.6	37.6	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Prop In Lane	1.00		0.26	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	28	1326	737	400	3196	993	191	201	1043	191	0	198
V/C Ratio(X)	0.74	0.85	0.85	1.23	0.67	0.21	0.60	0.68	0.32	1.12	0.00	0.96
Avail Cap(c_a), veh/h	134	1326	737	400	3196	993	318	334	1261	191	0	198
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.71	0.71	0.71	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	8.9	8.9	54.2	16.6	11.2	59.6	60.2	34.9	62.5	0.0	62.2
Incr Delay (d2), s/veh	9.7	5.2	9.0	122.1	1.1	0.5	2.3	3.0	0.1	100.4	0.0	52.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	12.6	14.8	29.0	17.7	3.7	4.4	5.3	4.8	12.7	0.0	10.2
LnGrp Delay(d),s/veh	77.2	14.1	17.9	176.3	17.8	11.7	61.8	63.2	35.0	162.9	0.0	114.8
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1780			2835			585			404	
Approach Delay, s/veh		16.2			44.8			46.9			140.3	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	64.0		20.0	6.6	93.4		20.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	13.6	30.6		17.1	3.6	39.6		13.5
Green Ext Time (p_c), s	0.0	15.3		0.0	0.0	24.9		1.6

Intersection Summary	
HCM 2010 Ctrl Delay	42.8
HCM 2010 LOS	D

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	146	9	106	520	320	177	1040	67	6
Future Volume (veh/h)	6	208	437	146	9	106	520	320	177	1040	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	113		114	559	241	182	1072	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		274	864	211		348	798	343	241	1118	50	
Arrive On Green		0.08	0.31	0.31		0.10	0.34	0.34	0.14	0.65	0.65	
Sat Flow, veh/h		3442	2803	683		3442	2380	1023	3442	3446	154	
Grp Volume(v), veh/h		219	289	284		114	415	385	182	550	570	
Grp Sat Flow(s),veh/h/ln		1721	1770	1717		1721	1770	1633	1721	1770	1830	
Q Serve(g_s), s		6.8	14.6	14.8		3.3	22.0	22.1	5.5	31.2	31.3	
Cycle Q Clear(g_c), s		6.8	14.6	14.8		3.3	22.0	22.1	5.5	31.2	31.3	
Prop In Lane		1.00		0.40		1.00		0.63	1.00		0.08	
Lane Grp Cap(c), veh/h		274	546	529		348	593	548	241	574	594	
V/C Ratio(X)		0.80	0.53	0.54		0.33	0.70	0.70	0.76	0.96	0.96	
Avail Cap(c_a), veh/h		274	546	529		348	593	548	331	608	629	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	2.00	2.00	2.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.85	0.85	0.85	
Uniform Delay (d), s/veh		48.9	30.9	31.0		45.1	31.2	31.2	45.6	18.3	18.3	
Incr Delay (d2), s/veh		14.2	3.7	3.9		0.2	6.7	7.4	3.3	23.0	22.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.8	7.7	7.6		1.6	11.8	11.1	2.7	18.3	18.9	
LnGrp Delay(d),s/veh		63.1	34.5	34.8		45.3	37.9	38.6	48.9	41.3	40.9	
LnGrp LOS		E	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			792				914			1302		
Approach Delay, s/veh			42.5				39.1			42.2		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.9	38.3	11.9	41.8	13.0	41.2	13.9	39.9
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.3	* 33	10.4	37.3	8.6	33.0	10.6	* 37
Max Q Clear Time (g_c+I1), s	5.3	16.8	7.5	15.2	8.8	24.1	9.2	33.3
Green Ext Time (p_c), s	0.0	3.3	0.1	1.8	0.0	3.5	0.0	1.8

Intersection Summary	
HCM 2010 Ctrl Delay	40.2
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	412	100
Future Volume (veh/h)	106	412	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	468	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1028	175
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	3007	510
Grp Volume(v), veh/h	120	274	274
Grp Sat Flow(s),veh/h/ln	1774	1770	1748
Q Serve(g_s), s	7.2	13.0	13.2
Cycle Q Clear(g_c), s	7.2	13.0	13.2
Prop In Lane	1.00		0.29
Lane Grp Cap(c), veh/h	147	605	598
V/C Ratio(X)	0.82	0.45	0.46
Avail Cap(c_a), veh/h	174	611	604
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.7	27.7
Incr Delay (d2), s/veh	18.9	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	6.4	6.4
LnGrp Delay(d),s/veh	67.6	27.9	27.9
LnGrp LOS	E	C	C
Approach Vol, veh/h		668	
Approach Delay, s/veh		35.0	
Approach LOS		D	
Timer			

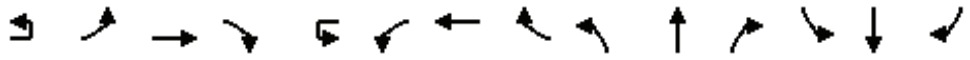


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	205	880	76	372	826	123	15	156	415	377	2	184	281	299
Future Volume (veh/h)	5	205	880	76	372	826	123	15	156	415	377	2	184	281	299
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		214	917	56	396	879	100		188	500	454		202	309	232
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		407	1093	67	456	1030	117		214	944	632		228	529	385
Arrive On Green		0.12	0.32	0.32	0.13	0.32	0.32		0.12	0.27	0.27		0.13	0.27	0.27
Sat Flow, veh/h		3442	3377	206	3442	3189	363		1774	3539	1583		1774	1924	1401
Grp Volume(v), veh/h		214	481	492	396	488	491		188	500	454		202	283	258
Grp Sat Flow(s),veh/h/ln		1721	1770	1813	1721	1770	1782		1774	1770	1583		1774	1770	1556
Q Serve(g_s), s		7.8	33.7	33.7	15.1	34.4	34.4		13.9	16.1	32.2		15.0	18.5	19.2
Cycle Q Clear(g_c), s		7.8	33.7	33.7	15.1	34.4	34.4		13.9	16.1	32.2		15.0	18.5	19.2
Prop In Lane		1.00		0.11	1.00		0.20		1.00		1.00		1.00		0.90
Lane Grp Cap(c), veh/h		407	573	587	456	572	576		214	944	632		228	486	427
V/C Ratio(X)		0.53	0.84	0.84	0.87	0.85	0.85		0.88	0.53	0.72		0.89	0.58	0.60
Avail Cap(c_a), veh/h		469	819	839	840	1001	1007		380	999	657		380	500	439
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		55.3	41.9	41.9	56.8	42.2	42.2		57.8	41.8	33.8		57.2	41.8	42.1
Incr Delay (d2), s/veh		0.4	5.9	5.7	2.0	3.7	3.7		4.5	0.3	3.3		7.4	1.5	2.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	17.4	17.8	7.3	17.4	17.5		7.1	7.9	14.6		7.8	9.3	8.5
LnGrp Delay(d),s/veh		55.7	47.8	47.7	58.8	46.0	45.9		62.3	42.1	37.1		64.7	43.3	44.1
LnGrp LOS		E	D	D	E	D	D		E	D	D		E	D	D
Approach Vol, veh/h			1187			1375				1142				743	
Approach Delay, s/veh			49.2			49.7				43.4				49.4	
Approach LOS			D			D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.1	48.9	20.5	42.0	21.5	49.5	21.6	40.9
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	32.6	61.8	28.6	37.7	18.2	* 76	28.6	37.7
Max Q Clear Time (g_c+I1), s	17.1	35.7	15.9	21.2	9.8	36.4	17.0	34.2
Green Ext Time (p_c), s	0.6	7.6	0.2	2.6	0.2	6.7	0.2	1.4

Intersection Summary	
HCM 2010 Ctrl Delay	47.9
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	43	1138	187	3	50	1006	97	264	104	83	66	117	98
Future Volume (veh/h)	13	43	1138	187	3	50	1006	97	264	104	83	66	117	98
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		49	1293	182		62	1242	85	388	153	85	84	148	99
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		63	1372	192		75	1504	103	374	237	132	284	165	111
Arrive On Green		0.04	0.44	0.44		0.01	0.15	0.15	0.21	0.21	0.21	0.16	0.16	0.16
Sat Flow, veh/h		1774	3107	434		1774	3356	229	1774	1126	625	1774	1035	692
Grp Volume(v), veh/h		49	732	743		62	654	673	388	0	238	84	0	247
Grp Sat Flow(s),veh/h/ln		1774	1770	1771		1774	1770	1816	1774	0	1751	1774	0	1726
Q Serve(g_s), s		3.8	55.2	56.5		4.9	50.2	50.4	29.5	0.0	17.4	5.8	0.0	19.6
Cycle Q Clear(g_c), s		3.8	55.2	56.5		4.9	50.2	50.4	29.5	0.0	17.4	5.8	0.0	19.6
Prop In Lane		1.00		0.25		1.00		0.13	1.00		0.36	1.00		0.40
Lane Grp Cap(c), veh/h		63	781	782		75	793	814	374	0	369	284	0	276
V/C Ratio(X)		0.78	0.94	0.95		0.83	0.82	0.83	1.04	0.00	0.64	0.30	0.00	0.89
Avail Cap(c_a), veh/h		76	781	782		75	793	814	374	0	369	342	0	333
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.68	0.68	0.68	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		67.0	37.2	37.6		68.5	54.3	54.4	55.3	0.0	50.5	51.9	0.0	57.7
Incr Delay (d2), s/veh		27.3	20.1	22.0		36.7	6.6	6.6	56.7	0.0	3.0	0.2	0.0	20.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.4	31.2	32.2		3.2	26.1	26.9	20.3	0.0	8.7	2.9	0.0	11.0
LnGrp Delay(d),s/veh		94.3	57.3	59.6		105.2	60.9	61.0	112.0	0.0	53.5	52.1	0.0	78.0
LnGrp LOS		F	E	E		F	E	E	F		D	D		E
Approach Vol, veh/h			1524				1389			626			331	
Approach Delay, s/veh			59.6				62.9			89.7			71.4	
Approach LOS			E				E			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.3	68.0		27.3	9.4	68.9		34.4
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	5.9	* 58		27.0	6.0	57.1		29.5
Max Q Clear Time (g_c+I1), s	6.9	58.5		21.6	5.8	52.4		31.5
Green Ext Time (p_c), s	0.0	0.0		0.6	0.0	3.2		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	66.7
HCM 2010 LOS	E

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1991	180	442	1528	269	128	91	665	260	155	5
Future Volume (veh/h)	2	1991	180	442	1528	269	128	91	665	260	155	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.95	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	2053	149	480	1661	204	147	105	672	289	172	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	119	2005	144	350	2735	833	211	134	740	313	234	5
Arrive On Green	0.13	0.83	0.83	0.20	0.54	0.54	0.12	0.07	0.07	0.18	0.13	0.13
Sat Flow, veh/h	1774	4830	348	1774	5085	1549	1774	1863	2643	1774	1811	42
Grp Volume(v), veh/h	2	1437	765	480	1661	204	147	105	672	289	0	176
Grp Sat Flow(s),veh/h/ln	1774	1695	1788	1774	1695	1549	1774	1863	1321	1774	0	1853
Q Serve(g_s), s	0.1	58.1	58.1	27.6	31.4	9.8	11.1	7.8	10.1	22.4	0.0	12.8
Cycle Q Clear(g_c), s	0.1	58.1	58.1	27.6	31.4	9.8	11.1	7.8	10.1	22.4	0.0	12.8
Prop In Lane	1.00		0.19	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	119	1407	742	350	2735	833	211	134	740	313	0	240
V/C Ratio(X)	0.02	1.02	1.03	1.37	0.61	0.24	0.70	0.78	0.91	0.92	0.00	0.73
Avail Cap(c_a), veh/h	119	1407	742	350	2735	833	211	134	740	393	0	410
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.38	0.38	0.38	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	56.6	11.9	11.9	56.2	22.2	17.2	59.2	63.9	32.7	56.7	0.0	58.6
Incr Delay (d2), s/veh	0.0	20.3	28.9	184.8	1.0	0.7	8.9	24.3	14.9	21.8	0.0	1.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	29.4	32.8	31.5	14.9	4.3	6.0	4.9	13.0	12.9	0.0	6.7
LnGrp Delay(d),s/veh	56.6	32.2	40.8	241.0	23.2	17.9	68.2	88.2	47.6	78.6	0.0	60.3
LnGrp LOS	E	F	F	F	C	B	E	F	D	E		E
Approach Vol, veh/h		2204			2345			924			465	
Approach Delay, s/veh		35.2			67.3			55.5			71.6	
Approach LOS		D			E			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	32.0	63.4	29.6	15.0	14.7	80.7	21.6	23.0
Change Period (Y+Rc), s	4.4	5.3	4.9	4.9	5.3	* 5.4	4.9	4.9
Max Green Setting (Gmax), s	27.6	51.8	31.0	10.1	4.0	* 75	10.1	31.0
Max Q Clear Time (g_c+I1), s	29.6	60.1	24.4	12.1	2.1	33.4	13.1	14.8
Green Ext Time (p_c), s	0.0	0.0	0.3	0.0	0.0	25.1	0.0	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	53.9
HCM 2010 LOS	D

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	264	15	186	737	105	262	418	106	2
Future Volume (veh/h)	11	142	662	264	15	186	737	105	262	418	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.98	1.00		0.96	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	210		200	792	79	279	445	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		210	1003	286		252	1247	124	331	885	156	
Arrive On Green		0.06	0.37	0.37		0.07	0.38	0.38	0.06	0.20	0.20	
Sat Flow, veh/h		3442	2694	769		3442	3244	323	3442	2985	526	
Grp Volume(v), veh/h		158	483	463		200	432	439	279	262	262	
Grp Sat Flow(s),veh/h/ln		1721	1770	1693		1721	1770	1797	1721	1770	1741	
Q Serve(g_s), s		5.7	29.7	29.7		7.2	25.1	25.1	10.1	16.6	16.9	
Cycle Q Clear(g_c), s		5.7	29.7	29.7		7.2	25.1	25.1	10.1	16.6	16.9	
Prop In Lane		1.00		0.45		1.00		0.18	1.00		0.30	
Lane Grp Cap(c), veh/h		210	659	630		252	680	691	331	525	516	
V/C Ratio(X)		0.75	0.73	0.73		0.79	0.64	0.64	0.84	0.50	0.51	
Avail Cap(c_a), veh/h		246	659	630		268	680	691	344	525	516	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	0.67	0.67	0.67	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.2	34.2	34.2		57.5	31.6	31.6	58.0	42.2	42.3	
Incr Delay (d2), s/veh		8.3	7.1	7.4		12.9	4.5	4.4	15.0	0.3	0.3	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.0	15.8	15.2		3.9	13.1	13.3	5.5	8.2	8.2	
LnGrp Delay(d),s/veh		66.5	41.3	41.6		70.4	36.1	36.0	73.0	42.4	42.6	
LnGrp LOS		E	D	D		E	D	D	E	D	D	
Approach Vol, veh/h			1104				1071			803		
Approach Delay, s/veh			45.0				42.5			53.1		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.6	51.9	16.5	43.9	12.1	53.4	18.2	42.3
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	9.8	43.8	12.6	41.1	9.0	44.6	21.0	32.7
Max Q Clear Time (g_c+I1), s	9.2	31.7	12.1	37.6	7.7	27.1	13.7	18.9
Green Ext Time (p_c), s	0.0	5.1	0.0	1.5	0.0	5.5	0.1	1.6

Intersection Summary	
HCM 2010 Ctrl Delay	51.4
HCM 2010 LOS	D

Notes

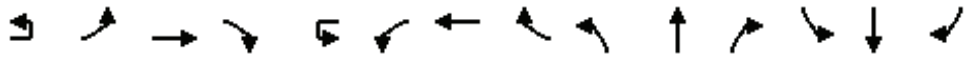
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	916	101
Future Volume (veh/h)	160	916	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	964	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	1029	79
Arrive On Green	0.11	0.31	0.31
Sat Flow, veh/h	1774	3321	255
Grp Volume(v), veh/h	168	514	524
Grp Sat Flow(s),veh/h/ln	1774	1770	1806
Q Serve(g_s), s	11.7	35.6	35.6
Cycle Q Clear(g_c), s	11.7	35.6	35.6
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	548	560
V/C Ratio(X)	0.86	0.94	0.94
Avail Cap(c_a), veh/h	296	577	589
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	42.3	42.3
Incr Delay (d2), s/veh	10.3	21.9	21.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.3	20.7	21.1
LnGrp Delay(d),s/veh	65.5	64.2	63.9
LnGrp LOS	E	E	E
Approach Vol, veh/h		1206	
Approach Delay, s/veh		64.2	
Approach LOS		E	
Timer			

Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	356	1022	68	477	893	120	21	85	310	374	272	656	288
Future Volume (veh/h)	15	356	1022	68	477	893	120	21	85	310	374	272	656	288
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		371	1065	52	507	950	94		90	330	286	316	763	237
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		584	1167	57	549	1056	105		109	668	536	337	839	261
Arrive On Green		0.17	0.34	0.34	0.16	0.33	0.33		0.06	0.19	0.19	0.19	0.32	0.32
Sat Flow, veh/h		3442	3428	167	3442	3241	321		1774	3539	1498	1774	2645	822
Grp Volume(v), veh/h		371	550	567	507	519	525		90	330	286	316	510	490
Grp Sat Flow(s),veh/h/ln		1721	1770	1826	1721	1770	1792		1774	1770	1498	1774	1770	1697
Q Serve(g_s), s		16.3	48.4	48.5	23.7	45.5	45.6		8.2	13.6	8.3	28.6	45.1	45.1
Cycle Q Clear(g_c), s		16.3	48.4	48.5	23.7	45.5	45.6		8.2	13.6	8.3	28.6	45.1	45.1
Prop In Lane		1.00		0.09	1.00		0.18		1.00		1.00	1.00		0.48
Lane Grp Cap(c), veh/h		584	602	621	549	577	584		109	668	536	337	561	538
V/C Ratio(X)		0.64	0.91	0.91	0.92	0.90	0.90		0.82	0.49	0.53	0.94	0.91	0.91
Avail Cap(c_a), veh/h		584	647	668	600	683	692		142	741	566	420	648	622
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		63.0	51.4	51.4	67.5	52.4	52.4		75.6	59.1	18.7	65.1	53.4	53.4
Incr Delay (d2), s/veh		1.8	16.9	16.6	18.4	13.4	13.3		20.4	0.4	0.6	23.8	15.2	15.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.9	26.5	27.3	12.7	24.5	24.8		4.6	6.7	6.0	16.3	24.5	23.6
LnGrp Delay(d),s/veh		64.7	68.4	68.0	85.9	65.7	65.6		96.0	59.5	19.3	88.9	68.6	69.1
LnGrp LOS		E	E	E	F	E	E		F	E	B	F	E	E
Approach Vol, veh/h			1488			1551				706			1316	
Approach Delay, s/veh			67.3			72.3				47.9			73.7	
Approach LOS			E			E				D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	30.4	61.2	14.4	57.0	32.0	59.5	35.3	36.1
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	4.4	6.4	4.4	5.3
Max Green Setting (Gmax), s	26.4	59.6	13.0	59.7	24.4	62.9	38.6	34.1
Max Q Clear Time (g_c+I1), s	25.7	50.5	10.2	47.1	18.3	47.6	30.6	15.6
Green Ext Time (p_c), s	0.3	5.0	0.0	4.6	0.4	5.6	0.3	2.3

Intersection Summary	
HCM 2010 Ctrl Delay	67.8
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	66	1274	169	47	76	1313	100	123	58	38	54	136	140
Future Volume (veh/h)	6	66	1274	169	47	76	1313	100	123	58	38	54	136	140
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		69	1341	134		81	1397	75	138	65	31	59	149	114
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		87	1738	173		100	1851	99	170	114	54	297	164	126
Arrive On Green		0.05	0.53	0.53		0.11	1.00	1.00	0.10	0.10	0.10	0.17	0.17	0.17
Sat Flow, veh/h		1774	3251	323		1774	3417	183	1774	1186	565	1774	979	749
Grp Volume(v), veh/h		69	727	748		81	722	750	138	0	96	59	0	263
Grp Sat Flow(s),veh/h/ln		1774	1770	1805		1774	1770	1830	1774	0	1751	1774	0	1729
Q Serve(g_s), s		5.4	45.5	46.1		6.2	0.0	0.0	10.7	0.0	7.3	4.0	0.0	20.9
Cycle Q Clear(g_c), s		5.4	45.5	46.1		6.2	0.0	0.0	10.7	0.0	7.3	4.0	0.0	20.9
Prop In Lane		1.00		0.18		1.00		0.10	1.00		0.32	1.00		0.43
Lane Grp Cap(c), veh/h		87	946	965		100	959	992	170	0	168	297	0	290
V/C Ratio(X)		0.79	0.77	0.78		0.81	0.75	0.76	0.81	0.00	0.57	0.20	0.00	0.91
Avail Cap(c_a), veh/h		89	946	965		137	959	992	343	0	339	343	0	335
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.45	0.45	0.45	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		65.8	25.7	25.9		61.4	0.0	0.0	62.1	0.0	60.6	50.2	0.0	57.2
Incr Delay (d2), s/veh		34.0	6.0	6.1		7.8	2.5	2.5	3.5	0.0	1.1	0.1	0.0	23.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.5	23.6	24.5		3.3	0.7	0.7	5.4	0.0	3.6	2.0	0.0	11.9
LnGrp Delay(d),s/veh		99.8	31.7	32.0		69.2	2.5	2.5	65.6	0.0	61.7	50.3	0.0	80.9
LnGrp LOS		F	C	C		E	A	A	E		E	D		F
Approach Vol, veh/h			1544				1553			234			322	
Approach Delay, s/veh			34.9				6.0			64.0			75.3	
Approach LOS			C				A			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.3	81.0		28.4	11.3	82.0		18.3
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	10.8	* 56		27.1	7.0	58.4		27.1
Max Q Clear Time (g_c+I1), s	9.2	48.1		22.9	7.4	2.0		12.7
Green Ext Time (p_c), s	0.0	6.1		0.5	0.0	14.5		0.5

Intersection Summary	
HCM 2010 Ctrl Delay	28.0
HCM 2010 LOS	C

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1545	205	476	2068	294	149	54	335	193	158	18
Future Volume (veh/h)	20	1545	205	476	2068	294	149	54	335	193	158	18
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.95	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1593	166	491	2132	212	169	61	333	214	176	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	27	1556	162	504	3141	976	192	138	988	298	227	18
Arrive On Green	0.02	0.35	0.35	0.28	0.62	0.62	0.11	0.07	0.07	0.17	0.13	0.13
Sat Flow, veh/h	1774	4461	464	1774	5085	1581	1774	1863	2646	1774	1697	135
Grp Volume(v), veh/h	21	1130	629	491	2132	212	169	61	333	214	0	190
Grp Sat Flow(s),veh/h/ln	1774	1583	1758	1774	1695	1581	1774	1863	1323	1774	0	1832
Q Serve(g_s), s	1.9	54.8	54.8	43.0	43.3	3.6	14.7	4.9	8.7	17.9	0.0	15.7
Cycle Q Clear(g_c), s	1.9	54.8	54.8	43.0	43.3	3.6	14.7	4.9	8.7	17.9	0.0	15.7
Prop In Lane	1.00		0.26	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	27	1105	613	504	3141	976	192	138	988	298	0	246
V/C Ratio(X)	0.77	1.02	1.03	0.97	0.68	0.22	0.88	0.44	0.34	0.72	0.00	0.77
Avail Cap(c_a), veh/h	45	1105	613	504	3141	976	349	381	1333	350	0	376
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.71	0.71	0.71	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	77.0	51.1	51.1	55.6	19.8	2.0	69.0	69.6	16.7	61.8	0.0	65.7
Incr Delay (d2), s/veh	11.7	28.9	37.4	33.3	1.2	0.5	9.4	0.8	0.1	4.2	0.0	2.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	28.4	32.9	25.8	20.5	3.6	7.7	2.6	3.2	9.1	0.0	8.1
LnGrp Delay(d),s/veh	88.7	80.0	88.5	88.9	21.0	2.5	78.4	70.4	16.8	66.0	0.0	67.9
LnGrp LOS	F	F	F	F	C	A	E	E	B	E		E
Approach Vol, veh/h		1780			2835			563			404	
Approach Delay, s/veh		83.1			31.4			41.1			66.9	
Approach LOS		F			C			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.0	60.2	31.3	16.6	6.8	102.4	21.9	25.9
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	4.6	* 30	31.0	32.1	4.0	70.2	30.9	32.2
Max Q Clear Time (g_c+I1), s	5.0	56.8	19.9	10.7	3.9	45.3	16.7	17.7
Green Ext Time (p_c), s	0.0	0.0	0.2	1.0	0.0	21.2	0.3	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	51.4
HCM 2010 LOS	D

Notes

Appendix J
Peak Hour Intersection LOS Worksheets – Horizon Year 2050 Base Conditions

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	210	440	190	10	190	550	360	240	1220	90	10
Future Volume (veh/h)	10	210	440	190	10	190	550	360	240	1220	90	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.97	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		221	463	159		204	591	284	247	1258	72	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		285	857	292		622	1001	481	309	1104	63	
Arrive On Green		0.08	0.33	0.33		0.18	0.44	0.44	0.12	0.43	0.43	
Sat Flow, veh/h		3442	2572	875		3442	2293	1101	3442	3397	194	
Grp Volume(v), veh/h		221	317	305		204	456	419	247	654	676	
Grp Sat Flow(s),veh/h/ln		1721	1770	1677		1721	1770	1625	1721	1770	1822	
Q Serve(g_s), s		6.8	15.7	16.0		5.6	21.1	21.2	7.5	35.1	35.1	
Cycle Q Clear(g_c), s		6.8	15.7	16.0		5.6	21.1	21.2	7.5	35.1	35.1	
Prop In Lane		1.00		0.52		1.00		0.68	1.00		0.11	
Lane Grp Cap(c), veh/h		285	590	559		622	773	709	309	575	592	
V/C Ratio(X)		0.77	0.54	0.55		0.33	0.59	0.59	0.80	1.14	1.14	
Avail Cap(c_a), veh/h		433	590	559		622	773	709	402	575	592	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.56	0.56	0.56	
Uniform Delay (d), s/veh		48.5	29.2	29.3		38.5	23.1	23.1	46.6	30.7	30.7	
Incr Delay (d2), s/veh		2.1	3.5	3.8		0.1	3.3	3.6	3.7	74.1	75.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	8.2	8.0		2.7	11.0	10.1	3.7	28.9	29.9	
LnGrp Delay(d),s/veh		50.6	32.7	33.1		38.6	26.4	26.7	50.3	104.8	105.8	
LnGrp LOS		D	C	C		D	C	C	D	F	F	
Approach Vol, veh/h			843				1079			1577		
Approach Delay, s/veh			37.6				28.8			96.7		
Approach LOS			D				C			F		

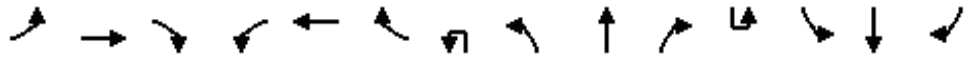
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.6	41.0	14.1	40.4	13.4	52.3	14.5	40.0
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	7.6	18.0	9.5	23.4	8.8	23.2	11.6	37.1
Green Ext Time (p_c), s	0.0	3.8	0.1	2.0	0.2	3.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	65.9
HCM 2010 LOS	E

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	190	530	190
Future Volume (veh/h)	190	530	190
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	216	602	182
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	158	872	263
Arrive On Green	0.09	0.33	0.33
Sat Flow, veh/h	1774	2651	800
Grp Volume(v), veh/h	216	401	383
Grp Sat Flow(s),veh/h/ln	1774	1770	1681
Q Serve(g_s), s	9.6	21.3	21.4
Cycle Q Clear(g_c), s	9.6	21.3	21.4
Prop In Lane	1.00		0.48
Lane Grp Cap(c), veh/h	158	582	553
V/C Ratio(X)	1.37	0.69	0.69
Avail Cap(c_a), veh/h	158	582	553
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.2	31.5	31.5
Incr Delay (d2), s/veh	201.3	2.9	3.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.5	10.8	10.4
LnGrp Delay(d),s/veh	250.5	34.3	34.6
LnGrp LOS	F	C	C
Approach Vol, veh/h		1000	
Approach Delay, s/veh		81.1	
Approach LOS		F	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	40	10	70	20	20	20	10	80	1450	20	10	130	590	90
Future Volume (veh/h)	40	10	70	20	20	20	10	80	1450	20	10	130	590	90
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.98	0.99		0.97		1.00		1.00		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	53	13	66	25	25	20		89	1611	21		141	641	91
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.75	0.75	0.75	0.79	0.79	0.79		0.90	0.90	0.90		0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	107	30	91	94	88	55		650	2371	31		158	1183	168
Arrive On Green	0.12	0.12	0.12	0.12	0.12	0.12		0.25	0.44	0.44		0.09	0.38	0.38
Sat Flow, veh/h	525	261	786	421	759	472		1774	3577	47		1774	3109	441
Grp Volume(v), veh/h	132	0	0	70	0	0		89	796	836		141	364	368
Grp Sat Flow(s),veh/h/ln	1572	0	0	1653	0	0		1774	1770	1854		1774	1770	1780
Q Serve(g_s), s	4.5	0.0	0.0	0.0	0.0	0.0		4.2	38.7	38.8		8.5	17.3	17.4
Cycle Q Clear(g_c), s	8.5	0.0	0.0	4.0	0.0	0.0		4.2	38.7	38.8		8.5	17.3	17.4
Prop In Lane	0.40		0.50	0.36		0.29		1.00		0.03		1.00		0.25
Lane Grp Cap(c), veh/h	229	0	0	237	0	0		650	1173	1229		158	673	677
V/C Ratio(X)	0.58	0.00	0.00	0.30	0.00	0.00		0.14	0.68	0.68		0.89	0.54	0.54
Avail Cap(c_a), veh/h	498	0	0	515	0	0		650	1173	1229		158	673	677
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.67	0.67	0.67		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.57	0.57	0.57		0.55	0.55	0.55
Uniform Delay (d), s/veh	45.8	0.0	0.0	44.0	0.0	0.0		27.4	20.9	20.9		48.7	26.1	26.1
Incr Delay (d2), s/veh	0.9	0.0	0.0	0.3	0.0	0.0		0.0	1.8	1.8		27.2	1.7	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	0.0	0.0	1.9	0.0	0.0		2.1	19.5	20.4		5.3	8.7	8.9
LnGrp Delay(d),s/veh	46.7	0.0	0.0	44.2	0.0	0.0		27.4	22.7	22.7		75.9	27.8	27.8
LnGrp LOS	D			D				C	C	C		E	C	C
Approach Vol, veh/h		132			70				1721				873	
Approach Delay, s/veh		46.7			44.2				22.9				35.6	
Approach LOS		D			D				C				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	76.6		17.4	44.6	46.0		17.4
Change Period (Y+Rc), s	4.4	5.0		4.9	5.0	* 4.9		4.9
Max Green Setting (Gmax), s	9.6	52.0		32.1	20.6	* 41		32.1
Max Q Clear Time (g_c+I1), s	10.5	40.8		10.5	6.2	19.4		6.0
Green Ext Time (p_c), s	0.0	10.2		0.5	0.1	3.1		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	28.5
HCM 2010 LOS	C

Notes

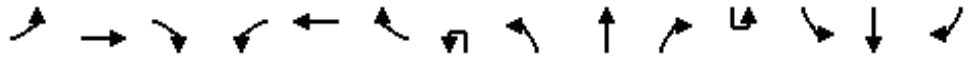


Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	60	120	1350	70	10	50	640
Future Volume (veh/h)	60	120	1350	70	10	50	640
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.99		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	72	109	1646	62		58	744
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.83	0.83	0.82	0.82		0.86	0.86
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	87	131	1846	69		311	2684
Arrive On Green	0.13	0.13	1.00	1.00		0.12	0.51
Sat Flow, veh/h	651	986	3572	131		1774	3632
Grp Volume(v), veh/h	182	0	834	874		58	744
Grp Sat Flow(s),veh/h/ln	1646	0	1770	1840		1774	1770
Q Serve(g_s), s	11.6	0.0	0.0	0.0		3.2	13.0
Cycle Q Clear(g_c), s	11.6	0.0	0.0	0.0		3.2	13.0
Prop In Lane	0.40	0.60		0.07		1.00	
Lane Grp Cap(c), veh/h	219	0	939	976		311	2684
V/C Ratio(X)	0.83	0.00	0.89	0.90		0.19	0.28
Avail Cap(c_a), veh/h	367	0	939	976		311	2684
HCM Platoon Ratio	1.00	1.00	2.00	2.00		0.67	0.67
Upstream Filter(I)	1.00	0.00	0.66	0.66		0.93	0.93
Uniform Delay (d), s/veh	45.6	0.0	0.0	0.0		40.7	9.6
Incr Delay (d2), s/veh	3.1	0.0	8.7	8.8		0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	0.0	2.3	2.4		1.6	6.4
LnGrp Delay(d),s/veh	48.7	0.0	8.7	8.8		40.8	9.9
LnGrp LOS	D		A	A		D	A
Approach Vol, veh/h	182		1708				802
Approach Delay, s/veh	48.7		8.7				12.1
Approach LOS	D		A				B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	14.7	63.0				87.7		20.3
Change Period (Y+Rc), s	5.8	* 5.7				5.8		5.9
Max Green Setting (Gmax), s	9.6	* 57				72.2		24.1
Max Q Clear Time (g_c+I1), s	15.2	2.0				15.0		13.6
Green Ext Time (p_c), s	0.0	36.2				10.3		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	12.4
HCM 2010 LOS	B

Notes

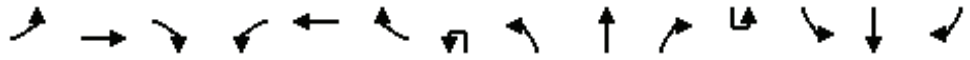


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	190	0	50	20	0	50	10	50	1150	10	10	30	610	60
Future Volume (veh/h)	190	0	50	20	0	50	10	50	1150	10	10	30	610	60
Number	7	4	14	3	8	18		1	6	16		5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98		1.00		1.00		1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	284	0	63	28	0	52		58	1337	11		37	744	56
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.67	0.67	0.67	0.72	0.72	0.72		0.86	0.86	0.86		0.82	0.82	0.82
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	364	0	67	179	20	286		75	2064	17		47	1861	140
Arrive On Green	0.26	0.00	0.26	0.26	0.00	0.26		0.04	0.57	0.57		0.05	1.00	1.00
Sat Flow, veh/h	1166	0	259	516	76	1100		1774	3597	30		1774	3336	251
Grp Volume(v), veh/h	347	0	0	80	0	0		58	658	690		37	395	405
Grp Sat Flow(s),veh/h/ln	1425	0	0	1693	0	0		1774	1770	1857		1774	1770	1817
Q Serve(g_s), s	21.6	0.0	0.0	0.0	0.0	0.0		3.5	27.2	27.2		2.2	0.0	0.0
Cycle Q Clear(g_c), s	25.6	0.0	0.0	4.1	0.0	0.0		3.5	27.2	27.2		2.2	0.0	0.0
Prop In Lane	0.82		0.18	0.35		0.65		1.00		0.02		1.00		0.14
Lane Grp Cap(c), veh/h	431	0	0	485	0	0		75	1015	1066		47	987	1014
V/C Ratio(X)	0.80	0.00	0.00	0.16	0.00	0.00		0.78	0.65	0.65		0.79	0.40	0.40
Avail Cap(c_a), veh/h	457	0	0	513	0	0		174	1015	1066		174	987	1014
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.85	0.85	0.85		0.93	0.93	0.93
Uniform Delay (d), s/veh	38.6	0.0	0.0	31.1	0.0	0.0		51.2	15.6	15.6		50.9	0.0	0.0
Incr Delay (d2), s/veh	8.7	0.0	0.0	0.1	0.0	0.0		5.4	2.7	2.6		9.9	1.1	1.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.2	0.0	0.0	1.9	0.0	0.0		1.8	13.9	14.6		1.2	0.3	0.3
LnGrp Delay(d),s/veh	47.4	0.0	0.0	31.1	0.0	0.0		56.6	18.3	18.2		60.8	1.1	1.1
LnGrp LOS	D			C				E	B	B		E	A	A
Approach Vol, veh/h		347			80				1406				837	
Approach Delay, s/veh		47.4			31.1				19.9				3.7	
Approach LOS		D			C				B				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	8.9	66.1		33.0	7.2	67.8		33.0
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	10.6	* 53		30.1	10.6	52.2		30.1
Max Q Clear Time (g_c+I1), s	15.5	2.0		27.6	4.2	29.2		6.1
Green Ext Time (p_c), s	0.0	8.5		0.4	0.0	12.8		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	18.7
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	30	20	30	170	20	80	10	40	1080	190	10	100	530	50
Future Volume (veh/h)	30	20	30	170	20	80	10	40	1080	190	10	100	530	50
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.95		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	40	27	29	198	23	67		47	1271	163		120	639	54
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.75	0.75	0.75	0.86	0.86	0.86		0.85	0.85	0.85		0.83	0.83	0.83
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	70	47	35	283	27	459		219	2326	298		144	2197	184
Arrive On Green	0.31	0.31	0.31	0.31	0.31	0.31		0.25	1.00	1.00		0.08	0.46	0.46
Sat Flow, veh/h	111	155	115	766	89	1497		1774	4551	584		1774	4776	400
Grp Volume(v), veh/h	96	0	0	221	0	67		47	947	487		120	452	241
Grp Sat Flow(s),veh/h/ln	380	0	0	854	0	1497		1774	1695	1745		1774	1695	1786
Q Serve(g_s), s	5.5	0.0	0.0	0.0	0.0	4.5		2.9	0.0	0.0		9.3	11.6	11.8
Cycle Q Clear(g_c), s	40.9	0.0	0.0	35.3	0.0	4.5		2.9	0.0	0.0		9.3	11.6	11.8
Prop In Lane	0.42		0.30	0.90		1.00		1.00		0.33		1.00		0.22
Lane Grp Cap(c), veh/h	153	0	0	311	0	459		219	1733	892		144	1559	822
V/C Ratio(X)	0.63	0.00	0.00	0.71	0.00	0.15		0.21	0.55	0.55		0.84	0.29	0.29
Avail Cap(c_a), veh/h	176	0	0	332	0	482		219	1733	892		286	1559	822
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.90	0.90	0.90		0.91	0.91	0.91
Uniform Delay (d), s/veh	51.8	0.0	0.0	45.9	0.0	35.2		47.3	0.0	0.0		63.4	23.6	23.6
Incr Delay (d2), s/veh	3.1	0.0	0.0	5.3	0.0	0.1		0.2	1.1	2.2		4.4	0.4	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	0.0	0.0	8.6	0.0	1.9		1.4	0.3	0.5		4.7	5.6	6.0
LnGrp Delay(d),s/veh	54.9	0.0	0.0	51.2	0.0	35.3		47.5	1.1	2.2		67.8	24.0	24.4
LnGrp LOS	D			D		D		D	A	A		E	C	C
Approach Vol, veh/h		96			288				1481				813	
Approach Delay, s/veh		54.9			47.5				2.9				30.6	
Approach LOS		D			D				A				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.7	76.5		47.8	22.2	70.0		47.8
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	22.6	58.1		45.1	15.6	* 64		45.1
Max Q Clear Time (g_c+I1), s	11.3	2.0		42.9	4.9	13.8		37.3
Green Ext Time (p_c), s	0.1	46.8		0.1	0.0	13.0		0.6

Intersection Summary	
HCM 2010 Ctrl Delay	18.0
HCM 2010 LOS	B

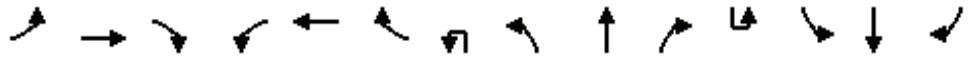
Notes

Intersection	
Intersection Delay, s/veh	10.8
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	10	80	100	70	40	10	80	50	80	20	60	10
Future Vol, veh/h	10	80	100	70	40	10	80	50	80	20	60	10
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	12	95	119	90	51	13	121	76	121	27	80	13
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.4	10.2	11.9	9.6
HCM LOS	B	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	38%	5%	58%	22%
Vol Thru, %	24%	42%	33%	67%
Vol Right, %	38%	53%	8%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	210	190	120	90
LT Vol	80	10	70	20
Through Vol	50	80	40	60
RT Vol	80	100	10	10
Lane Flow Rate	318	226	154	120
Geometry Grp	1	1	1	1
Degree of Util (X)	0.441	0.316	0.235	0.18
Departure Headway (Hd)	4.988	5.034	5.503	5.41
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	722	715	652	662
Service Time	3.015	3.065	3.537	3.445
HCM Lane V/C Ratio	0.44	0.316	0.236	0.181
HCM Control Delay	11.9	10.4	10.2	9.6
HCM Lane LOS	B	B	B	A
HCM 95th-tile Q	2.3	1.4	0.9	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	40	30	80	100	40	90	10	110	1140	140	10	130	610	60
Future Volume (veh/h)	40	30	80	100	40	90	10	110	1140	140	10	130	610	60
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	48	36	72	128	51	86		120	1239	114		143	670	54
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	193	102	205	217	116	195		144	2915	268		165	2226	987
Arrive On Green	0.19	0.19	0.19	0.19	0.19	0.19		0.08	0.62	0.62		0.19	1.00	1.00
Sat Flow, veh/h	1235	543	1085	1262	612	1033		1774	4726	435		1774	3539	1569
Grp Volume(v), veh/h	48	0	108	128	0	137		120	889	464		143	670	54
Grp Sat Flow(s),veh/h/ln	1235	0	1628	1262	0	1645		1774	1695	1771		1774	1770	1569
Q Serve(g_s), s	5.0	0.0	8.1	13.7	0.0	10.3		9.3	19.1	19.1		10.9	0.0	0.0
Cycle Q Clear(g_c), s	15.3	0.0	8.1	21.8	0.0	10.3		9.3	19.1	19.1		10.9	0.0	0.0
Prop In Lane	1.00		0.67	1.00		0.63		1.00		0.25		1.00		1.00
Lane Grp Cap(c), veh/h	193	0	307	217	0	310		144	2091	1092		165	2226	987
V/C Ratio(X)	0.25	0.00	0.35	0.59	0.00	0.44		0.83	0.43	0.43		0.86	0.30	0.05
Avail Cap(c_a), veh/h	349	0	513	376	0	518		400	2091	1092		400	2226	987
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.98	0.98	0.98
Uniform Delay (d), s/veh	57.1	0.0	49.4	58.8	0.0	50.3		63.4	13.9	13.9		56.1	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.5	1.9	0.0	0.7		4.7	0.6	1.2		5.0	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.0	3.7	4.9	0.0	4.7		4.8	9.1	9.7		5.6	0.1	0.0
LnGrp Delay(d),s/veh	57.5	0.0	49.9	60.7	0.0	51.0		68.1	14.6	15.2		61.1	0.3	0.1
LnGrp LOS	E		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		156			265				1473				867	
Approach Delay, s/veh		52.2			55.7				19.1				10.4	
Approach LOS		D			E				B				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.5	91.2		31.3	15.8	92.9		31.3
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	13.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	12.3	21.1		17.3	11.3	2.0		23.8
Green Ext Time (p_c), s	0.2	13.0		0.6	0.1	6.6		0.9

Intersection Summary	
HCM 2010 Ctrl Delay	21.7
HCM 2010 LOS	C

Notes

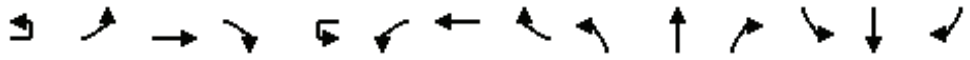


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	10	210	870	90	430	830	180	20	270	530	490	10	220	310	310
Future Volume (veh/h)	10	210	870	90	430	830	180	20	270	530	490	10	220	310	310
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		219	906	71	457	883	160		325	639	590		242	341	244
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		405	1041	82	507	985	178		344	921	646		264	421	294
Arrive On Green		0.12	0.31	0.31	0.15	0.33	0.33		0.19	0.26	0.26		0.15	0.22	0.22
Sat Flow, veh/h		3442	3310	259	3442	2974	539		1774	3539	1583		1774	1956	1366
Grp Volume(v), veh/h		219	484	493	457	525	518		325	639	590		242	308	277
Grp Sat Flow(s),veh/h/ln		1721	1770	1800	1721	1770	1743		1774	1770	1583		1774	1770	1552
Q Serve(g_s), s		9.2	39.7	39.7	20.1	43.4	43.4		27.8	25.0	40.0		20.7	25.4	26.2
Cycle Q Clear(g_c), s		9.2	39.7	39.7	20.1	43.4	43.4		27.8	25.0	40.0		20.7	25.4	26.2
Prop In Lane		1.00		0.14	1.00		0.31		1.00		1.00		1.00		0.88
Lane Grp Cap(c), veh/h		405	557	566	507	586	577		344	921	646		264	381	334
V/C Ratio(X)		0.54	0.87	0.87	0.90	0.90	0.90		0.94	0.69	0.91		0.92	0.81	0.83
Avail Cap(c_a), veh/h		672	691	703	672	691	681		346	921	646		346	461	404
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		63.9	49.7	49.7	64.4	48.9	48.9		61.1	51.3	42.9		64.4	57.3	57.6
Incr Delay (d2), s/veh		0.4	10.3	10.1	10.7	13.0	13.2		33.7	2.1	17.4		21.3	8.2	11.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.4	21.0	21.3	10.3	23.3	23.0		16.8	12.5	26.7		11.7	13.3	12.3
LnGrp Delay(d),s/veh		64.3	60.0	59.8	75.1	61.9	62.1		94.8	53.4	60.3		85.7	65.4	68.6
LnGrp LOS		E	E	E	E	E	E		F	D	E		F	E	E
Approach Vol, veh/h			1196			1500				1554				827	
Approach Delay, s/veh			60.7			65.9				64.7				72.4	
Approach LOS			E			E				E				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.1	54.0	34.2	38.4	23.8	57.3	27.3	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I2), s	22.1	41.7	29.8	28.2	11.2	45.4	22.7	42.0
Green Ext Time (p_c), s	0.6	6.6	0.0	2.5	0.3	5.5	0.2	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	65.4
HCM 2010 LOS	E

Notes

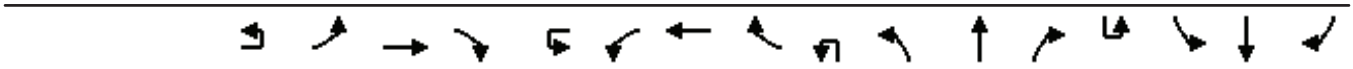


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	70	1300	140	10	180	1160	130	250	100	130	100	120	90
Future Volume (veh/h)	20	70	1300	140	10	180	1160	130	250	100	130	100	120	90
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		80	1477	129		222	1432	125	368	147	154	127	152	89
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		100	1818	158		122	1859	161	240	96	101	121	145	85
Arrive On Green		0.06	0.55	0.55		0.02	0.19	0.19	0.25	0.25	0.25	0.20	0.20	0.20
Sat Flow, veh/h		1774	3288	285		1774	3289	285	959	383	401	604	723	423
Grp Volume(v), veh/h		80	790	816		222	766	791	669	0	0	368	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1803		1774	1770	1805	1743	0	0	1750	0	0
Q Serve(g_s), s		6.2	50.5	51.7		9.6	57.6	58.3	35.1	0.0	0.0	28.1	0.0	0.0
Cycle Q Clear(g_c), s		6.2	50.5	51.7		9.6	57.6	58.3	35.1	0.0	0.0	28.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.16	0.55		0.23	0.35		0.24
Lane Grp Cap(c), veh/h		100	978	997		122	1000	1020	437	0	0	351	0	0
V/C Ratio(X)		0.80	0.81	0.82		1.82	0.77	0.78	1.53	0.00	0.00	1.05	0.00	0.00
Avail Cap(c_a), veh/h		122	978	997		122	1000	1020	437	0	0	351	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.51	0.51	0.51	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		65.3	25.3	25.6		68.4	48.2	48.5	52.5	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		21.6	7.1	7.5		387.1	2.9	3.0	250.1	0.0	0.0	61.1	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	26.5	27.7		17.8	29.1	30.1	47.2	0.0	0.0	19.5	0.0	0.0
LnGrp Delay(d),s/veh		86.9	32.4	33.0		455.5	51.1	51.5	302.5	0.0	0.0	117.0	0.0	0.0
LnGrp LOS		F	C	C		F	D	D	F			F		
Approach Vol, veh/h			1686				1779			669			368	
Approach Delay, s/veh			35.3				101.7			302.5			117.0	
Approach LOS			D				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	84.5		33.0	12.3	86.2		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	11.6	53.7		30.1	8.2	60.3		37.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	107.9
HCM 2010 LOS	F

Notes

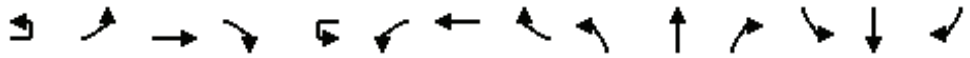


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	230	1060	300	10	110	860	340	10	300	790	80	10	240	440	220
Future Volume (veh/h)	10	230	1060	300	10	110	860	340	10	300	790	80	10	240	440	220
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		258	1191	249		126	989	302		319	840	64		276	506	196
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		420	1468	304		175	1195	364		364	1038	79		322	720	313
Arrive On Green		0.31	0.67	0.67		0.05	0.31	0.31		0.21	0.43	0.43		0.16	0.34	0.34
Sat Flow, veh/h		1774	2911	603		3442	3836	1170		3442	4816	365		3442	3539	1540
Grp Volume(v), veh/h		258	720	720		126	874	417		319	590	314		276	506	196
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1616		1721	1695	1791		1721	1770	1540
Q Serve(g_s), s		17.3	40.8	42.2		5.1	33.5	33.6		12.6	21.3	21.5		10.9	17.4	9.1
Cycle Q Clear(g_c), s		17.3	40.8	42.2		5.1	33.5	33.6		12.6	21.3	21.5		10.9	17.4	9.1
Prop In Lane		1.00		0.35		1.00		0.72		1.00		0.20		1.00		1.00
Lane Grp Cap(c), veh/h		420	893	880		175	1056	503		364	731	386		322	720	313
V/C Ratio(X)		0.61	0.81	0.82		0.72	0.83	0.83		0.88	0.81	0.81		0.86	0.70	0.63
Avail Cap(c_a), veh/h		420	893	880		383	1056	503		457	826	436		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		1.00	1.00	1.00		2.00	2.00	2.00		1.67	1.67	1.67
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.85	0.85	0.85		1.00	1.00	1.00
Uniform Delay (d), s/veh		42.6	18.1	18.4		65.5	44.7	44.7		54.3	37.3	37.3		58.2	42.6	15.6
Incr Delay (d2), s/veh		0.2	0.7	0.8		1.9	6.9	13.5		11.0	5.4	10.0		13.5	3.2	4.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		8.4	19.9	20.2		2.4	16.7	16.8		6.5	10.4	11.5		5.8	8.7	5.3
LnGrp Delay(d),s/veh		42.7	18.9	19.2		67.4	51.6	58.2		65.3	42.7	47.4		71.7	45.8	20.0
LnGrp LOS		D	B	B		E	D	E		E	D	D		E	D	B
Approach Vol, veh/h			1698				1417				1223				978	
Approach Delay, s/veh			22.6				54.9				49.8				47.9	
Approach LOS			C				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.5	75.9	19.2	33.4	38.4	49.0	17.5	35.1
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	7.1	44.2	14.6	19.4	19.3	35.6	12.9	23.5
Green Ext Time (p_c), s	0.1	7.3	0.3	4.7	0.2	4.6	0.1	6.0

Intersection Summary	
HCM 2010 Ctrl Delay	42.1
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	110	1170	70	10	70	1070	190	40	30	50	130	40	90
Future Volume (veh/h)	20	110	1170	70	10	70	1070	190	40	30	50	130	40	90
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	0.98		0.98	0.99		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		117	1245	61		74	1138	149	48	36	43	181	56	106
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.84	0.84	0.84	0.72	0.72	0.72
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		166	3199	157		116	2859	374	250	205	171	306	275	229
Arrive On Green		0.02	0.21	0.21		0.07	1.00	1.00	0.04	0.11	0.11	0.08	0.15	0.15
Sat Flow, veh/h		3442	4966	243		3442	4542	594	1774	1863	1553	1774	1863	1548
Grp Volume(v), veh/h		117	850	456		74	849	438	48	36	43	181	56	106
Grp Sat Flow(s),veh/h/ln		1721	1695	1819		1721	1695	1746	1774	1863	1553	1774	1863	1548
Q Serve(g_s), s		4.7	30.1	30.1		2.9	0.0	0.0	3.3	2.5	3.5	10.6	3.7	8.8
Cycle Q Clear(g_c), s		4.7	30.1	30.1		2.9	0.0	0.0	3.3	2.5	3.5	10.6	3.7	8.8
Prop In Lane		1.00		0.13		1.00		0.34	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		166	2184	1172		116	2134	1099	250	205	171	306	275	229
V/C Ratio(X)		0.71	0.39	0.39		0.64	0.40	0.40	0.19	0.18	0.25	0.59	0.20	0.46
Avail Cap(c_a), veh/h		310	2184	1172		310	2134	1099	317	547	456	306	547	454
HCM Platoon Ratio		0.33	0.33	0.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.20	0.20	0.20		0.85	0.85	0.85	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		67.9	31.5	31.5		64.5	0.0	0.0	52.2	56.5	57.0	50.7	52.4	54.6
Incr Delay (d2), s/veh		0.4	0.1	0.2		1.9	0.5	0.9	0.1	0.1	0.3	2.1	0.1	0.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.3	14.2	15.3		1.4	0.1	0.3	1.6	1.3	1.5	6.3	1.9	3.8
LnGrp Delay(d),s/veh		68.3	31.6	31.7		66.4	0.5	0.9	52.3	56.7	57.3	52.8	52.6	55.1
LnGrp LOS		E	C	C		E	A	A	D	E	E	D	D	E
Approach Vol, veh/h			1423				1361			127			343	
Approach Delay, s/veh			34.6				4.2			55.2			53.5	
Approach LOS			C				A			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.1	95.6	9.7	25.6	11.1	93.5	15.0	20.3
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	* 57	10.6	41.1	12.6	56.6	10.6	41.1
Max Q Clear Time (g_c+I1), s	4.9	32.1	5.3	10.8	6.7	2.0	12.6	5.5
Green Ext Time (p_c), s	0.0	15.7	0.0	0.4	0.1	15.5	0.0	0.2

Intersection Summary	
HCM 2010 Ctrl Delay	24.7
HCM 2010 LOS	C

Notes

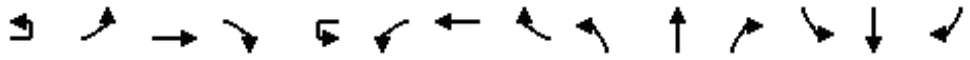


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	20	100	1160	90	210	1200	140	90	140	400	170	150	140
Future Volume (veh/h)	20	100	1160	90	210	1200	140	90	140	400	170	150	140
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.97	1.00		0.96	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		109	1261	93	221	1263	113	106	165	406	191	169	119
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.92	0.92	0.92	0.95	0.95	0.95	0.85	0.85	0.85	0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		132	1298	96	637	2655	238	153	296	809	240	652	280
Arrive On Green		0.02	0.09	0.09	0.72	1.00	1.00	0.01	0.05	0.05	0.07	0.18	0.18
Sat Flow, veh/h		1774	4819	355	1774	4738	424	3442	1863	1512	3442	3539	1522
Grp Volume(v), veh/h		109	887	467	221	904	472	106	165	406	191	169	119
Grp Sat Flow(s),veh/h/ln		1774	1695	1785	1774	1695	1772	1721	1863	1512	1721	1770	1522
Q Serve(g_s), s		8.6	36.5	36.5	6.5	0.0	0.0	4.3	12.1	4.7	7.7	5.7	9.7
Cycle Q Clear(g_c), s		8.6	36.5	36.5	6.5	0.0	0.0	4.3	12.1	4.7	7.7	5.7	9.7
Prop In Lane		1.00		0.20	1.00		0.24	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		132	913	481	637	1900	993	153	296	809	240	652	280
V/C Ratio(X)		0.82	0.97	0.97	0.35	0.48	0.48	0.69	0.56	0.50	0.80	0.26	0.42
Avail Cap(c_a), veh/h		172	913	481	637	1900	993	236	520	991	334	1090	469
HCM Platoon Ratio		0.33	0.33	0.33	2.00	2.00	2.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)		0.90	0.90	0.90	0.64	0.64	0.64	0.55	0.55	0.55	1.00	1.00	1.00
Uniform Delay (d), s/veh		67.4	63.2	63.2	13.6	0.0	0.0	68.0	61.5	11.5	64.1	48.9	50.5
Incr Delay (d2), s/veh		15.5	22.2	32.6	0.1	0.5	1.0	1.2	0.3	0.1	5.8	0.1	0.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.8	20.0	22.4	3.2	0.1	0.3	2.1	6.3	7.5	3.8	2.8	4.1
LnGrp Delay(d),s/veh		82.9	85.4	95.8	13.6	0.5	1.0	69.2	61.9	11.6	69.9	49.0	50.9
LnGrp LOS		F	F	F	B	A	A	E	E	B	E	D	D
Approach Vol, veh/h			1463			1597			677			479	
Approach Delay, s/veh			88.6			2.5			32.9			57.8	
Approach LOS			F			A			C			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.7	43.0	10.6	30.7	14.8	83.8	14.2	27.1
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	30.6	* 38	9.6	43.1	13.6	54.6	13.6	39.1
Max Q Clear Time (g_c+I1), s	10.5	38.5	6.3	11.7	10.6	2.0	9.7	14.1
Green Ext Time (p_c), s	0.3	0.0	0.0	0.9	0.0	31.0	0.1	1.4

Intersection Summary	
HCM 2010 Ctrl Delay	43.5
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	40	1710	40	20	80	1400	40	40	60	180	70	40	70
Future Volume (veh/h)	10	40	1710	40	20	80	1400	40	40	60	180	70	40	70
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.96	1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		44	1879	37		89	1556	35	53	79	173	92	53	70
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.91	0.91	0.91		0.90	0.90	0.90	0.76	0.76	0.76	0.76	0.76	0.76
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		56	2310	45		109	2453	55	59	88	193	103	59	78
Arrive On Green		0.06	0.90	0.90		0.12	0.96	0.96	0.21	0.21	0.21	0.14	0.14	0.14
Sat Flow, veh/h		1774	5134	101		1774	5115	115	284	424	928	730	420	555
Grp Volume(v), veh/h		44	1240	676		89	1031	560	305	0	0	215	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1844		1774	1695	1840	1636	0	0	1705	0	0
Q Serve(g_s), s		3.4	19.1	19.2		6.8	4.4	4.4	25.4	0.0	0.0	17.4	0.0	0.0
Cycle Q Clear(g_c), s		3.4	19.1	19.2		6.8	4.4	4.4	25.4	0.0	0.0	17.4	0.0	0.0
Prop In Lane		1.00		0.05		1.00		0.06	0.17		0.57	0.43		0.33
Lane Grp Cap(c), veh/h		56	1526	830		109	1626	882	340	0	0	240	0	0
V/C Ratio(X)		0.78	0.81	0.81		0.82	0.63	0.63	0.90	0.00	0.00	0.90	0.00	0.00
Avail Cap(c_a), veh/h		134	1526	830		185	1626	882	410	0	0	294	0	0
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.69	0.69	0.69		0.85	0.85	0.85	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		65.1	4.8	4.8		60.6	1.6	1.6	54.0	0.0	0.0	59.2	0.0	0.0
Incr Delay (d2), s/veh		5.9	3.4	6.1		4.7	1.6	2.9	17.6	0.0	0.0	22.3	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.8	8.6	10.0		3.5	1.8	2.3	13.2	0.0	0.0	9.7	0.0	0.0
LnGrp Delay(d),s/veh		70.9	8.2	10.9		65.3	3.2	4.5	71.5	0.0	0.0	81.5	0.0	0.0
LnGrp LOS		E	A	B		E	A	A	E			F		
Approach Vol, veh/h			1960				1680			305			215	
Approach Delay, s/veh			10.5				6.9			71.5			81.5	
Approach LOS			B				A			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	13.0	68.4		34.0	8.9	72.6		24.6
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	14.6	* 47		35.1	10.6	50.6		24.1
Max Q Clear Time (g_c+I1), s	19.8	21.2		27.4	5.4	6.4		19.4
Green Ext Time (p_c), s	0.0	21.6		0.8	0.0	21.4		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	17.2
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1890	140	400	1340	310	110	120	640	290	180	20
Future Volume (veh/h)	20	1890	140	400	1340	310	110	120	640	290	180	20
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1948	107	435	1457	249	126	138	644	322	200	20
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1864	102	350	2847	867	255	267	1064	293	274	27
Arrive On Green	0.03	0.76	0.76	0.20	0.56	0.56	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4925	270	1774	5085	1549	1774	1863	3066	1774	1661	166
Grp Volume(v), veh/h	21	1339	716	435	1457	249	126	138	644	322	0	220
Grp Sat Flow(s),veh/h/ln	1774	1695	1804	1774	1695	1549	1774	1863	1533	1774	0	1827
Q Serve(g_s), s	1.6	53.0	53.0	27.6	24.7	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Cycle Q Clear(g_c), s	1.6	53.0	53.0	27.6	24.7	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	28	1283	683	350	2847	867	255	267	1064	293	0	301
V/C Ratio(X)	0.74	1.04	1.05	1.24	0.51	0.29	0.49	0.52	0.61	1.10	0.00	0.73
Avail Cap(c_a), veh/h	274	1283	683	350	2847	867	255	267	1064	293	0	301
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.25	0.25	0.25	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	17.0	17.0	56.2	19.0	16.2	55.3	55.5	38.5	58.4	0.0	55.5
Incr Delay (d2), s/veh	3.5	25.8	31.6	131.6	0.7	0.8	1.1	1.3	0.9	82.1	0.0	7.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	28.1	31.0	26.3	11.8	5.3	4.6	5.0	10.5	18.0	0.0	8.7
LnGrp Delay(d),s/veh	71.0	42.8	48.6	187.8	19.7	17.0	56.4	56.8	39.4	140.5	0.0	63.1
LnGrp LOS	E	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2076			2141			908			542	
Approach Delay, s/veh		45.1			53.5			44.4			109.1	
Approach LOS		D			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.0	58.5		25.0	6.6	83.9		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	7.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	3.6	26.7		25.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.7		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	54.3
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	0	1530	0	0	0	0	0	1	450
Future Volume (veh/h)	0	0	0	0	1530	0	0	0	0	0	1	450
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	1800	0				0	1	592
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.85	0.85	0.85				0.76	0.76	0.76
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	2661	829				0	473	707
Arrive On Green				0.00	0.52	0.00				0.00	0.25	0.25
Sat Flow, veh/h				0	5253	1583				0	1863	2783
Grp Volume(v), veh/h				0	1800	0				0	1	592
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1392
Q Serve(g_s), s				0.0	12.8	0.0				0.0	0.0	9.9
Cycle Q Clear(g_c), s				0.0	12.8	0.0				0.0	0.0	9.9
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	2661	829				0	473	707
V/C Ratio(X)				0.00	0.68	0.00				0.00	0.00	0.84
Avail Cap(c_a), veh/h				0	5193	1617				0	1332	1990
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	8.6	0.0				0.0	13.6	17.3
Incr Delay (d2), s/veh				0.0	0.1	0.0				0.0	0.0	1.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	5.9	0.0				0.0	0.0	3.9
LnGrp Delay(d),s/veh				0.0	8.7	0.0				0.0	13.6	18.3
LnGrp LOS					A						B	B
Approach Vol, veh/h					1800						593	
Approach Delay, s/veh					8.7						18.3	
Approach LOS					A						B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				17.5		31.4		
Change Period (Y+Rc), s				5.1		5.8		
Max Green Setting (Gmax), s				35.0		50.0		
Max Q Clear Time (g_c+I1), s				11.9		14.8		
Green Ext Time (p_c), s				0.6		10.8		

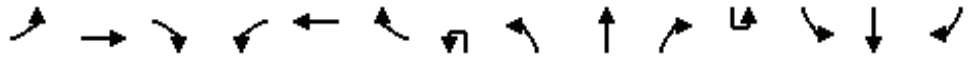
Intersection Summary	
HCM 2010 Ctrl Delay	11.1
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	2140	480	0	0	0	0	1	380	0	0	0
Future Volume (veh/h)	0	2140	480	0	0	0	0	1	380	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.98			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	2352	0				0	1	413			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.91	0.91	0.91				0.92	0.92	0.92			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	3158	983				0	362	530			
Arrive On Green	0.00	0.62	0.00				0.00	0.19	0.19			
Sat Flow, veh/h	0	5253	1583				0	1863	2729			
Grp Volume(v), veh/h	0	2352	0				0	1	413			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1364			
Q Serve(g_s), s	0.0	19.2	0.0				0.0	0.0	8.5			
Cycle Q Clear(g_c), s	0.0	19.2	0.0				0.0	0.0	8.5			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	3158	983				0	362	530			
V/C Ratio(X)	0.00	0.74	0.00				0.00	0.00	0.78			
Avail Cap(c_a), veh/h	0	4310	1342				0	1421	2082			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	7.9	0.0				0.0	19.2	22.6			
Incr Delay (d2), s/veh	0.0	0.3	0.0				0.0	0.0	1.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	8.8	0.0				0.0	0.0	3.2			
LnGrp Delay(d),s/veh	0.0	8.2	0.0				0.0	19.2	23.5			
LnGrp LOS		A						B	C			
Approach Vol, veh/h		2352						414				
Approach Delay, s/veh		8.2						23.5				
Approach LOS		A						C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		42.4						16.6
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						45.0
Max Q Clear Time (g_c+I1), s		21.2						10.5
Green Ext Time (p_c), s		15.4						1.0

Intersection Summary	
HCM 2010 Ctrl Delay	10.5
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	180	390	90	140	270	140	10	80	940	220	10	40	590	140
Future Volume (veh/h)	180	390	90	140	270	140	10	80	940	220	10	40	590	140
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.95		1.00		0.96		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	222	481	86	161	310	118		85	1000	171		47	694	119
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.81	0.81	0.81	0.87	0.87	0.87		0.94	0.94	0.94		0.85	0.85	0.85
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	242	555	103	206	426	267		106	1471	440		246	1331	592
Arrive On Green	0.25	0.25	0.25	0.18	0.18	0.18		0.06	0.29	0.29		0.14	0.38	0.38
Sat Flow, veh/h	965	2213	411	1165	2410	1508		1774	5085	1520		1774	3539	1573
Grp Volume(v), veh/h	417	0	372	249	222	118		85	1000	171		47	694	119
Grp Sat Flow(s),veh/h/ln	1814	0	1774	1805	1770	1508		1774	1695	1520		1774	1770	1573
Q Serve(g_s), s	31.3	0.0	27.8	18.5	16.5	9.8		6.6	24.4	12.6		3.3	21.3	7.1
Cycle Q Clear(g_c), s	31.3	0.0	27.8	18.5	16.5	9.8		6.6	24.4	12.6		3.3	21.3	7.1
Prop In Lane	0.53		0.23	0.65		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	455	0	445	319	313	267		106	1471	440		246	1331	592
V/C Ratio(X)	0.92	0.00	0.83	0.78	0.71	0.44		0.80	0.68	0.39		0.19	0.52	0.20
Avail Cap(c_a), veh/h	507	0	495	401	393	335		185	1471	440		246	1331	592
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.89	0.89	0.89		1.00	1.00	1.00		0.74	0.74	0.74
Uniform Delay (d), s/veh	51.0	0.0	49.7	55.0	54.2	51.4		65.0	44.0	39.8		53.4	33.9	29.5
Incr Delay (d2), s/veh	19.3	0.0	9.7	5.2	2.4	0.4		5.3	2.6	2.6		0.1	1.1	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	18.1	0.0	14.8	9.7	8.3	4.1		3.4	11.7	5.6		1.6	10.6	3.2
LnGrp Delay(d),s/veh	70.3	0.0	59.4	60.2	56.6	51.8		70.3	46.6	42.4		53.5	35.0	30.1
LnGrp LOS	E		E	E	E	D		E	D	D		D	C	C
Approach Vol, veh/h		789			589				1256				860	
Approach Delay, s/veh		65.2			57.2				47.6				35.3	
Approach LOS		E			E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.3	46.0		40.0	12.7	57.5		29.7
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	9.6	* 41		39.1	14.6	36.1		31.1
Max Q Clear Time (g_c+I1), s	15.3	26.4		33.3	8.6	23.3		20.5
Green Ext Time (p_c), s	0.0	7.6		1.8	0.0	9.4		1.6

Intersection Summary	
HCM 2010 Ctrl Delay	50.2
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1	0	2	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	1	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1622	-	1021	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1622	-	1021	1084
Mov Cap-2 Maneuver	-	-	-	-	1021	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	1622	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	150	670	260	20	210	750	140	270	470	140	10
Future Volume (veh/h)	10	150	670	260	20	210	750	140	270	470	140	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		167	744	206		226	806	117	287	500	115	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		222	1129	313		281	1339	194	342	652	149	
Arrive On Green		0.06	0.42	0.42		0.08	0.43	0.43	0.13	0.31	0.31	
Sat Flow, veh/h		3442	2717	752		3442	3094	449	3442	2829	646	
Grp Volume(v), veh/h		167	485	465		226	461	462	287	311	304	
Grp Sat Flow(s),veh/h/ln		1721	1770	1699		1721	1770	1773	1721	1770	1706	
Q Serve(g_s), s		6.0	27.8	27.8		8.1	25.2	25.2	10.3	20.1	20.4	
Cycle Q Clear(g_c), s		6.0	27.8	27.8		8.1	25.2	25.2	10.3	20.1	20.4	
Prop In Lane		1.00		0.44		1.00		0.25	1.00		0.38	
Lane Grp Cap(c), veh/h		222	736	706		281	766	768	342	408	393	
V/C Ratio(X)		0.75	0.66	0.66		0.80	0.60	0.60	0.84	0.76	0.77	
Avail Cap(c_a), veh/h		399	736	706		399	766	768	481	479	462	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.95	0.95	0.95	
Uniform Delay (d), s/veh		57.9	29.6	29.6		56.9	27.4	27.4	53.7	40.6	40.7	
Incr Delay (d2), s/veh		1.9	4.6	4.8		5.0	3.5	3.5	6.2	4.6	5.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.9	14.5	14.0		4.1	13.0	13.1	5.2	10.3	10.2	
LnGrp Delay(d),s/veh		59.9	34.2	34.4		61.9	30.9	30.9	59.9	45.2	45.9	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1117				1149			902		
Approach Delay, s/veh			38.1				37.0			50.1		
Approach LOS			D				D			D		

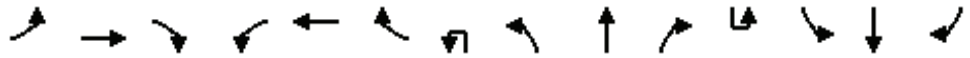
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.7	57.4	16.9	37.0	12.5	59.5	20.0	33.9
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	10.1	29.8	12.3	34.1	8.0	27.2	16.9	22.4
Green Ext Time (p_c), s	0.2	5.4	0.3	0.0	0.1	5.6	0.0	1.8

Intersection Summary	
HCM 2010 Ctrl Delay	95.9
HCM 2010 LOS	F

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	200	1070	150
Future Volume (veh/h)	200	1070	150
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	211	1126	126
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	220	814	91
Arrive On Green	0.12	0.25	0.25
Sat Flow, veh/h	1774	3194	357
Grp Volume(v), veh/h	211	623	629
Grp Sat Flow(s),veh/h/ln	1774	1770	1782
Q Serve(g_s), s	14.9	32.1	32.1
Cycle Q Clear(g_c), s	14.9	32.1	32.1
Prop In Lane	1.00		0.20
Lane Grp Cap(c), veh/h	220	451	454
V/C Ratio(X)	0.96	1.38	1.39
Avail Cap(c_a), veh/h	220	451	454
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.9	47.0	47.0
Incr Delay (d2), s/veh	49.2	185.0	187.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.3	38.8	39.3
LnGrp Delay(d),s/veh	104.0	232.0	234.0
LnGrp LOS	F	F	F
Approach Vol, veh/h		1463	
Approach Delay, s/veh		214.4	
Approach LOS		F	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	30	10	90	20	10	10	10	80	850	10	10	10	1490	30
Future Volume (veh/h)	30	10	90	20	10	10	10	80	850	10	10	10	1490	30
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.95	0.98		0.97		1.00		0.99		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	43	14	95	31	16	14		84	895	10		11	1585	26
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.69	0.69	0.69	0.64	0.64	0.64		0.95	0.95	0.95		0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	83	33	134	124	62	43		106	2642	30		18	2450	40
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14		0.08	0.98	0.98		0.01	0.69	0.69
Sat Flow, veh/h	336	240	959	577	448	305		1774	3585	40		1774	3563	58
Grp Volume(v), veh/h	152	0	0	61	0	0		84	442	463		11	786	825
Grp Sat Flow(s),veh/h/ln	1535	0	0	1331	0	0		1774	1770	1855		1774	1770	1852
Q Serve(g_s), s	6.8	0.0	0.0	0.0	0.0	0.0		5.9	0.9	0.9		0.8	31.5	31.6
Cycle Q Clear(g_c), s	11.7	0.0	0.0	4.9	0.0	0.0		5.9	0.9	0.9		0.8	31.5	31.6
Prop In Lane	0.28		0.62	0.51		0.23		1.00		0.02		1.00		0.03
Lane Grp Cap(c), veh/h	251	0	0	229	0	0		106	1304	1367		18	1217	1273
V/C Ratio(X)	0.61	0.00	0.00	0.27	0.00	0.00		0.80	0.34	0.34		0.61	0.65	0.65
Avail Cap(c_a), veh/h	387	0	0	360	0	0		234	1304	1367		191	1217	1273
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.33	1.33	1.33		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.91	0.91	0.91		0.09	0.09	0.09
Uniform Delay (d), s/veh	51.6	0.0	0.0	48.5	0.0	0.0		57.3	0.3	0.3		62.1	11.1	11.1
Incr Delay (d2), s/veh	0.9	0.0	0.0	0.2	0.0	0.0		4.6	0.6	0.6		1.1	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	0.0	0.0	1.9	0.0	0.0		3.0	0.5	0.6		0.4	15.4	16.1
LnGrp Delay(d),s/veh	52.4	0.0	0.0	48.8	0.0	0.0		61.9	1.0	1.0		63.2	11.3	11.3
LnGrp LOS	D			D				E	A	A		E	B	B
Approach Vol, veh/h		152			61				989				1622	
Approach Delay, s/veh		52.4			48.8				6.1				11.7	
Approach LOS		D			D				A				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	5.7	97.9		22.5	11.9	91.6		22.5
Change Period (Y+Rc), s	4.4	5.0		4.9	4.4	* 5		4.9
Max Green Setting (Gmax), s	13.6	69.0		29.1	16.6	* 66		29.1
Max Q Clear Time (g_c+I1), s	2.8	2.9		13.7	7.9	33.6		6.9
Green Ext Time (p_c), s	0.0	17.1		0.5	0.0	10.3		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	12.7
HCM 2010 LOS	B

Notes



Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	50	70	830	70	10	130	1440
Future Volume (veh/h)	50	70	830	70	10	130	1440
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.94		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	56	59	883	58		134	1485
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.89	0.89	0.94	0.94		0.97	0.97
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	85	90	2246	148		158	2824
Arrive On Green	0.11	0.11	1.00	1.00		0.18	1.00
Sat Flow, veh/h	782	824	3464	221		1774	3632
Grp Volume(v), veh/h	116	0	464	477		134	1485
Grp Sat Flow(s),veh/h/ln	1620	0	1770	1823		1774	1770
Q Serve(g_s), s	8.7	0.0	0.0	0.0		9.2	0.0
Cycle Q Clear(g_c), s	8.7	0.0	0.0	0.0		9.2	0.0
Prop In Lane	0.48	0.51		0.12		1.00	
Lane Grp Cap(c), veh/h	177	0	1179	1215		158	2824
V/C Ratio(X)	0.66	0.00	0.39	0.39		0.85	0.53
Avail Cap(c_a), veh/h	310	0	1179	1215		248	2824
HCM Platoon Ratio	1.00	1.00	2.00	2.00		2.00	2.00
Upstream Filter(I)	1.00	0.00	0.94	0.94		0.69	0.69
Uniform Delay (d), s/veh	53.9	0.0	0.0	0.0		51.0	0.0
Incr Delay (d2), s/veh	1.5	0.0	0.9	0.9		6.3	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	0.0	0.3	0.3		4.7	0.2
LnGrp Delay(d),s/veh	55.4	0.0	0.9	0.9		57.3	0.5
LnGrp LOS	E		A	A		E	A
Approach Vol, veh/h	116		941				1619
Approach Delay, s/veh	55.4		0.9				5.2
Approach LOS	E		A				A

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	16.6	89.8				106.4		19.6
Change Period (Y+Rc), s	5.4	* 5.8				5.8		5.9
Max Green Setting (Gmax), s	17.6	* 67				90.2		24.1
Max Q Clear Time (g_c+I1), s	11.2	2.0				2.0		10.7
Green Ext Time (p_c), s	0.1	14.0				35.3		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	5.9
HCM 2010 LOS	A

Notes

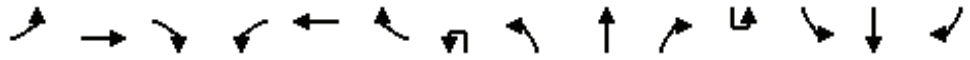


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	110	30	60	20	10	20	10	60	760	50	20	1330	140
Future Volume (veh/h)	110	30	60	20	10	20	10	60	760	50	20	1330	140
Number	7	4	14	3	8	18		1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.98	1.00		0.99		1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	124	34	52	31	16	23		64	809	48	22	1430	109
Adj No. of Lanes	0	1	0	0	1	0		1	2	0	1	2	0
Peak Hour Factor	0.89	0.89	0.89	0.64	0.64	0.64		0.94	0.94	0.94	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h	185	41	60	131	70	78		82	2391	142	30	2250	171
Arrive On Green	0.16	0.16	0.16	0.16	0.16	0.16		0.05	0.70	0.70	0.03	1.00	1.00
Sat Flow, veh/h	880	261	376	563	438	490		1774	3395	201	1774	3334	253
Grp Volume(v), veh/h	210	0	0	70	0	0		64	422	435	22	756	783
Grp Sat Flow(s),veh/h/ln	1516	0	0	1491	0	0		1774	1770	1827	1774	1770	1817
Q Serve(g_s), s	12.1	0.0	0.0	0.0	0.0	0.0		4.5	11.7	11.7	1.5	0.0	0.0
Cycle Q Clear(g_c), s	16.9	0.0	0.0	4.8	0.0	0.0		4.5	11.7	11.7	1.5	0.0	0.0
Prop In Lane	0.59		0.25	0.44		0.33		1.00		0.11	1.00		0.14
Lane Grp Cap(c), veh/h	286	0	0	278	0	0		82	1246	1286	30	1194	1226
V/C Ratio(X)	0.73	0.00	0.00	0.25	0.00	0.00		0.78	0.34	0.34	0.73	0.63	0.64
Avail Cap(c_a), veh/h	427	0	0	421	0	0		234	1246	1286	234	1194	1226
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.86	0.86	0.86	0.83	0.83	0.83
Uniform Delay (d), s/veh	51.4	0.0	0.0	46.5	0.0	0.0		59.4	7.2	7.2	60.6	0.0	0.0
Incr Delay (d2), s/veh	1.4	0.0	0.0	0.2	0.0	0.0		5.1	0.6	0.6	9.8	2.1	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.2	0.0	0.0	2.2	0.0	0.0		2.3	5.8	6.0	0.8	0.7	0.7
LnGrp Delay(d),s/veh	52.8	0.0	0.0	46.7	0.0	0.0		64.5	7.9	7.9	70.4	2.1	2.1
LnGrp LOS	D			D				E	A	A	E	A	A
Approach Vol, veh/h		210			70				921			1561	
Approach Delay, s/veh		52.8			46.7				11.8			3.1	
Approach LOS		D			D				B			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.2	90.8		24.9	6.5	94.5		24.9
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	16.6	* 63		32.1	16.6	62.2		32.1
Max Q Clear Time (g_c+I1), s	13.5	2.0		18.9	3.5	13.7		6.8
Green Ext Time (p_c), s	0.0	26.3		0.6	0.0	9.0		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	10.9
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	30	30	40	240	30	90	10	70	790	320	20	150	1150	60
Future Volume (veh/h)	30	30	40	240	30	90	10	70	790	320	20	150	1150	60
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.96		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	37	37	37	255	32	68		78	878	268		161	1237	50
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.81	0.81	0.81	0.94	0.94	0.94		0.90	0.90	0.90		0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	34	33	17	258	26	532		191	1705	518		185	2163	87
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35		0.07	0.30	0.30		0.10	0.43	0.43
Sat Flow, veh/h	0	95	47	598	75	1517		1774	3845	1167		1774	5013	203
Grp Volume(v), veh/h	111	0	0	287	0	68		78	774	372		161	837	450
Grp Sat Flow(s),veh/h/ln	142	0	0	673	0	1517		1774	1695	1622		1774	1695	1825
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	4.3		5.9	26.5	26.7		12.5	26.1	26.1
Cycle Q Clear(g_c), s	49.1	0.0	0.0	49.1	0.0	4.3		5.9	26.5	26.7		12.5	26.1	26.1
Prop In Lane	0.33		0.33	0.89		1.00		1.00		0.72		1.00		0.11
Lane Grp Cap(c), veh/h	84	0	0	285	0	532		191	1504	719		185	1463	787
V/C Ratio(X)	1.32	0.00	0.00	1.01	0.00	0.13		0.41	0.51	0.52		0.87	0.57	0.57
Avail Cap(c_a), veh/h	84	0	0	285	0	532		198	1504	719		274	1463	787
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.67	0.67	0.67		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.91	0.91	0.91		0.63	0.63	0.63
Uniform Delay (d), s/veh	42.1	0.0	0.0	49.6	0.0	30.9		60.7	36.7	36.8		61.8	30.0	30.0
Incr Delay (d2), s/veh	206.0	0.0	0.0	55.4	0.0	0.0		0.5	1.1	2.4		8.7	1.0	1.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.1	0.0	0.0	15.4	0.0	1.8		2.9	12.7	12.5		6.6	12.4	13.6
LnGrp Delay(d),s/veh	248.1	0.0	0.0	105.1	0.0	30.9		61.1	37.8	39.2		70.5	31.1	32.0
LnGrp LOS	F			F		C		E	D	D		E	C	C
Approach Vol, veh/h		111			355				1224				1448	
Approach Delay, s/veh		248.1			90.9				39.7				35.7	
Approach LOS		F			F				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	19.0	67.0		54.0	20.0	66.0		54.0
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	21.6	35.1		49.1	15.6	* 60		49.1
Max Q Clear Time (g_c+I1), s	14.5	28.7		51.1	7.9	28.1		51.1
Green Ext Time (p_c), s	0.1	5.8		0.0	0.0	21.7		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	51.0
HCM 2010 LOS	D

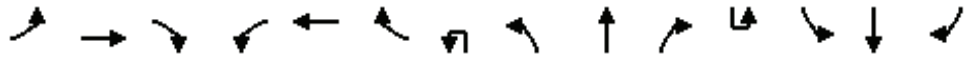
Notes

Intersection	
Intersection Delay, s/veh	13.9
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	70	50	230	100	20	110	40	90	10	90	10
Future Vol, veh/h	0	70	50	230	100	20	110	40	90	10	90	10
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	106	76	264	115	23	121	44	99	12	111	12
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.8	17.1	12.8	10.9
HCM LOS	B	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	46%	0%	66%	9%
Vol Thru, %	17%	58%	29%	82%
Vol Right, %	38%	42%	6%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	240	120	350	110
LT Vol	110	0	230	10
Through Vol	40	70	100	90
RT Vol	90	50	20	10
Lane Flow Rate	264	182	402	136
Geometry Grp	1	1	1	1
Degree of Util (X)	0.417	0.28	0.616	0.228
Departure Headway (Hd)	5.686	5.548	5.512	6.036
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	630	644	652	591
Service Time	3.753	3.621	3.569	4.114
HCM Lane V/C Ratio	0.419	0.283	0.617	0.23
HCM Control Delay	12.8	10.8	17.1	10.9
HCM Lane LOS	B	B	C	B
HCM 95th-tile Q	2.1	1.1	4.2	0.9



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	70	50	140	110	50	140	20	160	910	170	10	190	1110	130
Future Volume (veh/h)	70	50	140	110	50	140	20	160	910	170	10	190	1110	130
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.96	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	74	53	109	120	54	110		176	1000	145		200	1168	97
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	204	114	234	204	115	234		510	2507	363		222	1393	604
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21		0.29	0.56	0.56		0.25	0.79	0.79
Sat Flow, veh/h	1206	531	1092	1204	538	1096		1774	4481	648		1774	3539	1534
Grp Volume(v), veh/h	74	0	162	120	0	164		176	756	389		200	1168	97
Grp Sat Flow(s),veh/h/ln	1206	0	1623	1204	0	1634		1774	1695	1739		1774	1770	1534
Q Serve(g_s), s	8.0	0.0	12.2	13.5	0.0	12.3		11.0	17.7	17.8		15.3	28.9	2.2
Cycle Q Clear(g_c), s	20.3	0.0	12.2	25.7	0.0	12.3		11.0	17.7	17.8		15.3	28.9	2.2
Prop In Lane	1.00		0.67	1.00		0.67		1.00		0.37		1.00		1.00
Lane Grp Cap(c), veh/h	204	0	347	204	0	350		510	1897	973		222	1393	604
V/C Ratio(X)	0.36	0.00	0.47	0.59	0.00	0.47		0.35	0.40	0.40		0.90	0.84	0.16
Avail Cap(c_a), veh/h	377	0	581	377	0	585		510	1897	973		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.85	0.85	0.85
Uniform Delay (d), s/veh	56.9	0.0	48.0	59.3	0.0	48.1		39.5	17.5	17.5		51.6	12.1	9.3
Incr Delay (d2), s/veh	0.8	0.0	0.7	2.0	0.0	0.7		0.1	0.6	1.2		4.6	5.3	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	0.0	5.6	4.6	0.0	5.6		5.4	8.5	8.9		7.7	14.3	0.9
LnGrp Delay(d),s/veh	57.7	0.0	48.8	61.3	0.0	48.8		39.6	18.1	18.7		56.2	17.4	9.8
LnGrp LOS	E		D	E		D		D	B	B		E	B	A
Approach Vol, veh/h		236			284				1321				1465	
Approach Delay, s/veh		51.6			54.1				21.2				22.2	
Approach LOS		D			D				C				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	21.9	83.2		34.9	45.1	60.0		34.9
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	36.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	17.3	19.8		22.3	13.0	30.9		27.7
Green Ext Time (p_c), s	0.2	8.8		1.0	0.1	11.3		1.1

Intersection Summary	
HCM 2010 Ctrl Delay	26.6
HCM 2010 LOS	C

Notes

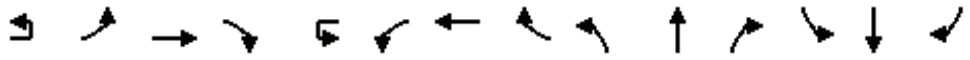


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1000	80	530	920	170	20	180	410	490	320	690	310
Future Volume (veh/h)	20	360	1000	80	530	920	170	20	180	410	490	320	690	310
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		375	1042	64	564	979	147		191	436	409	372	802	262
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		524	1106	68	580	1020	153		210	795	606	299	716	234
Arrive On Green		0.15	0.33	0.33	0.17	0.33	0.33		0.12	0.22	0.22	0.17	0.27	0.27
Sat Flow, veh/h		3442	3379	207	3442	3070	461		1774	3539	1509	1774	2606	851
Grp Volume(v), veh/h		375	546	560	564	564	562		191	436	409	372	544	520
Grp Sat Flow(s),veh/h/ln		1721	1770	1817	1721	1770	1761		1774	1770	1509	1774	1770	1688
Q Serve(g_s), s		18.5	53.4	53.4	29.0	55.6	55.7		18.9	19.4	40.0	30.0	48.9	48.9
Cycle Q Clear(g_c), s		18.5	53.4	53.4	29.0	55.6	55.7		18.9	19.4	40.0	30.0	48.9	48.9
Prop In Lane		1.00		0.11	1.00		0.26		1.00		1.00	1.00		0.50
Lane Grp Cap(c), veh/h		524	579	595	580	588	585		210	795	606	299	486	463
V/C Ratio(X)		0.72	0.94	0.94	0.97	0.96	0.96		0.91	0.55	0.68	1.24	1.12	1.12
Avail Cap(c_a), veh/h		580	596	612	580	596	593		299	795	606	299	486	463
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		71.8	58.3	58.3	73.6	58.3	58.3		77.5	61.1	45.0	74.0	64.6	64.6
Incr Delay (d2), s/veh		3.0	23.3	23.0	30.3	26.8	27.2		19.4	0.6	2.7	135.1	78.1	79.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.0	29.8	30.6	16.2	31.6	31.6		10.4	9.6	17.2	25.9	34.4	33.0
LnGrp Delay(d),s/veh		74.8	81.6	81.2	104.0	85.1	85.5		96.9	61.7	47.7	209.1	142.7	143.9
LnGrp LOS		E	F	F	F	F	F		F	E	D	F	F	F
Approach Vol, veh/h			1481			1690				1036			1436	
Approach Delay, s/veh			79.7			91.5				62.7			160.3	
Approach LOS			E			F				E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	34.4	64.0	25.5	54.2	32.8	65.6	34.4	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	31.0	55.4	20.9	50.9	20.5	57.7	32.0	42.0
Green Ext Time (p_c), s	0.0	2.8	0.2	0.0	0.5	1.4	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	100.6
HCM 2010 LOS	F

Notes

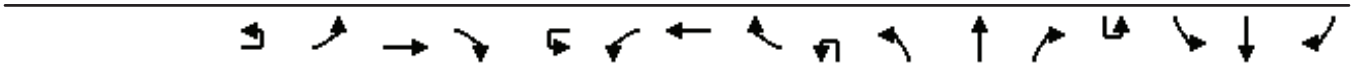


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	60	1500	180	50	150	1450	120	100	60	60	90	160	150
Future Volume (veh/h)	10	60	1500	180	50	150	1450	120	100	60	60	90	160	150
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		63	1579	145		160	1543	97	112	67	55	99	176	125
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		176	1426	130		172	1421	89	125	75	61	77	138	98
Arrive On Green		0.10	0.43	0.43		0.03	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3280	298		1774	3383	212	833	499	409	432	767	545
Grp Volume(v), veh/h		63	845	879		160	803	837	234	0	0	400	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1809		1774	1770	1825	1741	0	0	1744	0	0
Q Serve(g_s), s		4.6	60.9	60.9		12.6	58.8	58.8	18.5	0.0	0.0	25.1	0.0	0.0
Cycle Q Clear(g_c), s		4.6	60.9	60.9		12.6	58.8	58.8	18.5	0.0	0.0	25.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.12	0.48		0.24	0.25		0.31
Lane Grp Cap(c), veh/h		176	769	786		172	743	767	261	0	0	313	0	0
V/C Ratio(X)		0.36	1.10	1.12		0.93	1.08	1.09	0.90	0.00	0.00	1.28	0.00	0.00
Avail Cap(c_a), veh/h		176	769	786		172	743	767	312	0	0	313	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.09	0.09	0.09	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		58.9	39.6	39.6		67.3	60.3	60.3	58.5	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		0.5	62.8	69.5		8.4	39.1	43.4	22.2	0.0	0.0	148.1	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.3	43.1	45.6		6.6	36.9	39.0	10.5	0.0	0.0	24.9	0.0	0.0
LnGrp Delay(d),s/veh		59.4	102.3	109.1		75.7	99.4	103.7	80.6	0.0	0.0	205.5	0.0	0.0
LnGrp LOS		E	F	F		E	F	F	F			F		
Approach Vol, veh/h			1787				1800			234			400	
Approach Delay, s/veh			104.1				99.3			80.6			205.5	
Approach LOS			F				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	66.2		30.0	19.2	65.0		25.8
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	14.6	62.9		27.1	6.6	60.8		20.5
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	110.4
HCM 2010 LOS	F

Notes

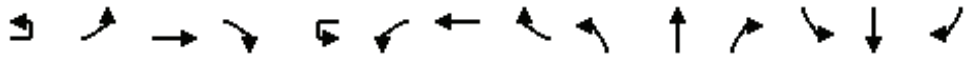


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	350	1040	280	10	330	1120	370	20	280	550	120	30	420	690	250
Future Volume (veh/h)	10	350	1040	280	10	330	1120	370	20	280	550	120	30	420	690	250
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		380	1130	231		367	1244	324		311	611	101		472	775	221
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		362	1033	210		540	1249	325		359	844	137		525	852	355
Arrive On Green		0.07	0.12	0.12		0.05	0.10	0.10		0.21	0.39	0.39		0.15	0.24	0.24
Sat Flow, veh/h		1774	2909	590		3442	3974	1034		3442	4382	712		3442	3539	1476
Grp Volume(v), veh/h		380	684	677		367	1061	507		311	470	242		472	775	221
Grp Sat Flow(s),veh/h/ln		1774	1770	1729		1721	1695	1619		1721	1695	1703		1721	1770	1476
Q Serve(g_s), s		28.6	49.7	49.7		14.7	43.8	43.8		12.2	16.5	17.0		18.9	29.8	18.7
Cycle Q Clear(g_c), s		28.6	49.7	49.7		14.7	43.8	43.8		12.2	16.5	17.0		18.9	29.8	18.7
Prop In Lane		1.00		0.34		1.00		0.64		1.00		0.42		1.00		1.00
Lane Grp Cap(c), veh/h		362	628	614		540	1065	508		359	653	328		525	852	355
V/C Ratio(X)		1.05	1.09	1.10		0.68	1.00	1.00		0.87	0.72	0.74		0.90	0.91	0.62
Avail Cap(c_a), veh/h		362	628	614		540	1065	508		556	753	378		629	862	360
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.82	0.82	0.82		0.92	0.92	0.92		1.00	1.00	1.00
Uniform Delay (d), s/veh		65.3	61.8	61.8		62.9	62.7	62.7		54.4	39.8	40.0		58.3	51.7	47.5
Incr Delay (d2), s/veh		29.1	43.2	48.6		2.3	24.1	35.5		5.2	3.4	7.4		12.9	13.8	4.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		17.0	31.9	32.1		7.2	24.2	24.7		6.0	8.0	8.6		9.9	16.2	8.0
LnGrp Delay(d),s/veh		94.4	105.0	110.4		65.2	86.8	98.2		59.6	43.2	47.3		71.2	65.5	51.6
LnGrp LOS		F	F	F		E	F	F		E	D	D		E	E	D
Approach Vol, veh/h			1741				1935				1023				1468	
Approach Delay, s/veh			104.8				85.7				49.2				65.2	
Approach LOS			F				F				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.4	55.0	19.0	38.6	33.0	49.4	25.7	31.9
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	14.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	16.7	51.7	14.2	31.8	30.6	45.8	20.9	19.0
Green Ext Time (p_c), s	0.0	0.0	0.4	1.6	0.0	0.0	0.5	5.3

Intersection Summary	
HCM 2010 Ctrl Delay	80.2
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	180	1200	160	40	160	1340	150	130	50	130	250	80	230
Future Volume (veh/h)	10	180	1200	160	40	160	1340	150	130	50	130	250	80	230
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.98	0.98		0.95	0.97		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		196	1304	146		163	1367	110	144	56	104	284	91	191
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.92	0.92	0.92		0.98	0.98	0.98	0.90	0.90	0.90	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		242	2354	264		210	2390	192	378	394	317	420	405	333
Arrive On Green		0.14	1.00	1.00		0.12	1.00	1.00	0.08	0.21	0.21	0.08	0.22	0.22
Sat Flow, veh/h		3442	4633	519		3442	4792	386	1774	1863	1497	1774	1863	1531
Grp Volume(v), veh/h		196	954	496		163	967	510	144	56	104	284	91	191
Grp Sat Flow(s),veh/h/ln		1721	1695	1761		1721	1695	1787	1774	1863	1497	1774	1863	1531
Q Serve(g_s), s		7.7	0.0	0.0		6.4	0.2	0.2	8.8	3.4	8.2	11.6	5.6	15.6
Cycle Q Clear(g_c), s		7.7	0.0	0.0		6.4	0.2	0.2	8.8	3.4	8.2	11.6	5.6	15.6
Prop In Lane		1.00		0.29		1.00		0.22	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		242	1723	895		210	1691	892	378	394	317	420	405	333
V/C Ratio(X)		0.81	0.55	0.55		0.78	0.57	0.57	0.38	0.14	0.33	0.68	0.22	0.57
Avail Cap(c_a), veh/h		334	1723	895		334	1691	892	388	573	461	420	573	471
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.58	0.58	0.58	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		59.2	0.0	0.0		60.5	0.1	0.1	38.7	44.9	46.8	43.4	45.1	49.0
Incr Delay (d2), s/veh		0.7	0.1	0.2		1.4	0.8	1.5	0.2	0.1	0.2	3.5	0.1	0.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	0.0	0.1		3.1	0.2	0.4	4.3	1.8	3.4	9.0	2.9	6.7
LnGrp Delay(d),s/veh		59.9	0.1	0.2		61.9	0.9	1.6	38.9	44.9	47.0	46.9	45.2	49.6
LnGrp LOS		E	A	A		E	A	A	D	D	D	D	D	D
Approach Vol, veh/h			1646				1640			304			566	
Approach Delay, s/veh			7.3				7.2			42.8			47.5	
Approach LOS			A				A			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.9	76.5	15.2	35.4	14.2	75.2	16.0	34.5
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	13.6	* 53	11.6	43.1	13.6	52.6	11.6	43.1
Max Q Clear Time (g_c+I1), s	9.4	2.0	10.8	17.6	9.7	2.2	13.6	10.2
Green Ext Time (p_c), s	0.1	27.8	0.0	0.7	0.1	18.8	0.0	0.4

Intersection Summary	
HCM 2010 Ctrl Delay	15.3
HCM 2010 LOS	B

Notes

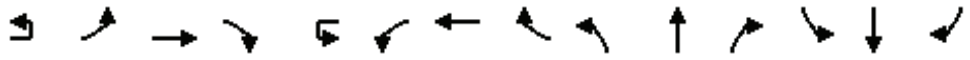


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	40	150	1270	130	340	1560	180	90	130	220	300	450	240
Future Volume (veh/h)	40	150	1270	130	340	1560	180	90	130	220	300	450	240
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.95	1.00		0.93	1.00		0.95
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		160	1351	108	370	1696	145	101	146	212	341	511	212
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.94	0.94	0.94	0.92	0.92	0.92	0.89	0.89	0.89	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		184	1607	128	396	2166	185	148	372	647	359	925	393
Arrive On Green		0.10	0.34	0.34	0.15	0.31	0.31	0.04	0.20	0.20	0.10	0.26	0.26
Sat Flow, veh/h		1774	4782	382	1774	4752	405	3442	1863	1466	3442	3539	1503
Grp Volume(v), veh/h		160	958	501	370	1209	632	101	146	212	341	511	212
Grp Sat Flow(s),veh/h/ln		1774	1695	1774	1774	1695	1767	1721	1863	1466	1721	1770	1503
Q Serve(g_s), s		12.4	36.6	36.6	28.9	45.5	45.8	4.1	9.5	13.7	13.8	17.4	17.0
Cycle Q Clear(g_c), s		12.4	36.6	36.6	28.9	45.5	45.8	4.1	9.5	13.7	13.8	17.4	17.0
Prop In Lane		1.00		0.22	1.00		0.23	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		184	1139	596	396	1545	806	148	372	647	359	925	393
V/C Ratio(X)		0.87	0.84	0.84	0.93	0.78	0.78	0.68	0.39	0.33	0.95	0.55	0.54
Avail Cap(c_a), veh/h		236	1139	596	527	1545	806	310	494	742	359	988	420
HCM Platoon Ratio		1.00	1.00	1.00	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.79	0.79	0.79	0.55	0.55	0.55	0.55	0.55	0.55	1.00	1.00	1.00
Uniform Delay (d), s/veh		61.8	43.0	43.0	58.5	42.3	42.3	66.1	48.6	27.2	62.3	44.6	44.5
Incr Delay (d2), s/veh		16.7	6.1	11.0	11.4	2.2	4.3	1.1	0.1	0.1	34.3	0.3	0.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.9	18.1	19.8	15.4	21.8	23.3	2.0	4.9	5.5	8.3	8.6	7.1
LnGrp Delay(d),s/veh		78.6	49.1	54.0	69.9	44.5	46.6	67.2	48.8	27.3	96.6	44.9	44.9
LnGrp LOS		E	D	D	E	D	D	E	D	C	F	D	D
Approach Vol, veh/h			1619			2211			459			1064	
Approach Delay, s/veh			53.5			49.4			42.9			61.5	
Approach LOS			D			D			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.7	52.4	10.4	41.5	18.9	69.2	19.0	32.9
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	11.6	* 28	12.6	39.1	18.6	50.6	14.6	37.1
Max Q Clear Time (g_c+I1), s	10.9	38.6	6.1	19.4	14.4	47.8	15.8	15.7
Green Ext Time (p_c), s	0.4	0.0	0.1	2.6	0.1	2.7	0.0	0.9

Intersection Summary	
HCM 2010 Ctrl Delay	52.5
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	100	1600	100	10	130	2000	50	30	20	90	50	60	70
Future Volume (veh/h)	20	100	1600	100	10	130	2000	50	30	20	90	50	60	70
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.95	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		109	1739	92		135	2083	43	33	22	73	60	71	65
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.92	0.92	0.92		0.96	0.96	0.96	0.92	0.92	0.92	0.84	0.84	0.84
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		362	2605	138		157	2072	43	52	34	114	64	75	69
Arrive On Green		0.27	0.70	0.70		0.18	0.81	0.81	0.12	0.12	0.12	0.12	0.12	0.12
Sat Flow, veh/h		1774	4945	261		1774	5126	106	418	279	925	522	618	566
Grp Volume(v), veh/h		109	1192	639		135	1376	750	128	0	0	196	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1816		1774	1695	1842	1623	0	0	1706	0	0
Q Serve(g_s), s		6.8	27.7	27.7		10.3	56.6	56.6	10.5	0.0	0.0	15.9	0.0	0.0
Cycle Q Clear(g_c), s		6.8	27.7	27.7		10.3	56.6	56.6	10.5	0.0	0.0	15.9	0.0	0.0
Prop In Lane		1.00		0.14		1.00		0.06	0.26		0.57	0.31		0.33
Lane Grp Cap(c), veh/h		362	1786	957		157	1371	745	200	0	0	208	0	0
V/C Ratio(X)		0.30	0.67	0.67		0.86	1.00	1.01	0.64	0.00	0.00	0.94	0.00	0.00
Avail Cap(c_a), veh/h		362	1786	957		248	1371	745	407	0	0	208	0	0
HCM Platoon Ratio		1.33	1.33	1.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.54	0.54	0.54		0.69	0.69	0.69	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		43.1	14.0	14.1		56.8	13.4	13.4	58.4	0.0	0.0	60.9	0.0	0.0
Incr Delay (d2), s/veh		0.1	1.1	2.0		7.1	21.2	29.0	1.3	0.0	0.0	45.2	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.4	13.1	14.3		5.3	28.8	32.9	4.8	0.0	0.0	10.1	0.0	0.0
LnGrp Delay(d),s/veh		43.2	15.1	16.1		63.9	34.6	42.4	59.7	0.0	0.0	106.1	0.0	0.0
LnGrp LOS		D	B	B		E	F	F	E			F		
Approach Vol, veh/h			1940				2261			128			196	
Approach Delay, s/veh			17.0				39.0			59.7			106.1	
Approach LOS			B				D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.8	79.1		22.2	33.8	62.0		22.0
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 5.4		4.9
Max Green Setting (Gmax), s	12.4	48.7		35.1	11.6	* 57		17.1
Max Q Clear Time (g_c+I1), s	12.3	29.7		12.5	8.8	58.6		17.9
Green Ext Time (p_c), s	0.1	16.2		0.5	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.0
HCM 2010 LOS	C

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1490	180	440	2000	320	130	70	300	220	180	50
Future Volume (veh/h)	50	1490	180	440	2000	320	130	70	300	220	180	50
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	52	1536	141	454	2062	239	114	128	293	244	200	50
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	66	1940	178	400	3139	976	173	182	1011	191	154	38
Arrive On Green	0.07	0.86	0.86	0.23	0.62	0.62	0.10	0.10	0.10	0.11	0.11	0.11
Sat Flow, veh/h	1774	4523	415	1774	5085	1581	1774	1863	3036	1774	1424	356
Grp Volume(v), veh/h	52	1075	602	454	2062	239	114	128	293	244	0	250
Grp Sat Flow(s),veh/h/ln	1774	1583	1771	1774	1695	1581	1774	1863	1518	1774	0	1780
Q Serve(g_s), s	4.0	21.0	21.1	31.6	36.6	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Cycle Q Clear(g_c), s	4.0	21.0	21.1	31.6	36.6	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	66	1358	760	400	3139	976	173	182	1011	191	0	192
V/C Ratio(X)	0.78	0.79	0.79	1.13	0.66	0.24	0.66	0.70	0.29	1.28	0.00	1.30
Avail Cap(c_a), veh/h	134	1358	760	400	3139	976	318	334	1259	191	0	192
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.65	0.65	0.65	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	64.2	7.2	7.2	54.2	17.3	12.1	60.9	61.2	35.5	62.5	0.0	62.5
Incr Delay (d2), s/veh	4.8	3.1	5.5	86.7	1.1	0.6	3.2	3.7	0.1	158.0	0.0	168.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	8.9	10.8	25.1	17.3	4.3	4.4	5.0	4.3	15.8	0.0	16.4
LnGrp Delay(d),s/veh	69.0	10.3	12.7	140.9	18.3	12.7	64.1	64.9	35.6	220.5	0.0	231.1
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1729			2755			535			494	
Approach Delay, s/veh		12.9			38.0			48.7			225.8	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	65.5		20.0	9.6	91.8		18.5
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	13.6	23.1		17.1	6.0	38.6		12.1
Green Ext Time (p_c), s	0.0	19.8		0.0	0.0	25.2		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	48.0
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	0	2380	0	0	0	0	0	1	370
Future Volume (veh/h)	0	0	0	0	2380	0	0	0	0	0	1	370
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		0.98
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	2479	0				0	1	407
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.96	0.96	0.96				0.91	0.91	0.91
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	3352	1044				0	343	504
Arrive On Green				0.00	0.66	0.00				0.00	0.18	0.18
Sat Flow, veh/h				0	5253	1583				0	1863	2732
Grp Volume(v), veh/h				0	2479	0				0	1	407
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1366
Q Serve(g_s), s				0.0	18.6	0.0				0.0	0.0	8.2
Cycle Q Clear(g_c), s				0.0	18.6	0.0				0.0	0.0	8.2
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	3352	1044				0	343	504
V/C Ratio(X)				0.00	0.74	0.00				0.00	0.00	0.81
Avail Cap(c_a), veh/h				0	4536	1412				0	1153	1691
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	6.5	0.0				0.0	19.1	22.5
Incr Delay (d2), s/veh				0.0	0.3	0.0				0.0	0.0	1.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	8.6	0.0				0.0	0.0	3.2
LnGrp Delay(d),s/veh				0.0	6.8	0.0				0.0	19.1	23.7
LnGrp LOS					A						B	C
Approach Vol, veh/h					2479						408	
Approach Delay, s/veh					6.8						23.7	
Approach LOS					A						C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				15.1		42.4		
Change Period (Y+Rc), s				4.5		4.5		
Max Green Setting (Gmax), s				35.6		51.3		
Max Q Clear Time (g_c+I1), s				10.2		20.6		
Green Ext Time (p_c), s				0.4		17.3		

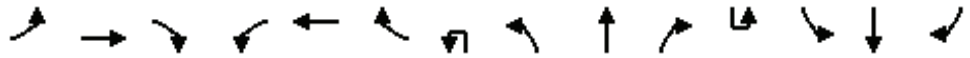
Intersection Summary	
HCM 2010 Ctrl Delay	9.2
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1560	410	0	0	0	0	1	510	0	0	0
Future Volume (veh/h)	0	1560	410	0	0	0	0	1	510	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	1642	0				0	1	560			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.95	0.95	0.95				0.91	0.91	0.91			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	2509	781				0	496	720			
Arrive On Green	0.00	0.49	0.00				0.00	0.27	0.27			
Sat Flow, veh/h	0	5253	1583				0	1863	2702			
Grp Volume(v), veh/h	0	1642	0				0	1	560			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1351			
Q Serve(g_s), s	0.0	11.0	0.0				0.0	0.0	8.7			
Cycle Q Clear(g_c), s	0.0	11.0	0.0				0.0	0.0	8.7			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	2509	781				0	496	720			
V/C Ratio(X)	0.00	0.65	0.00				0.00	0.00	0.78			
Avail Cap(c_a), veh/h	0	5600	1744				0	1846	2678			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	8.6	0.0				0.0	12.2	15.4			
Incr Delay (d2), s/veh	0.0	0.1	0.0				0.0	0.0	0.7			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	5.0	0.0				0.0	0.0	3.3			
LnGrp Delay(d),s/veh	0.0	8.7	0.0				0.0	12.2	16.1			
LnGrp LOS		A						B	B			
Approach Vol, veh/h		1642						561				
Approach Delay, s/veh		8.7						16.1				
Approach LOS		A						B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		28.2						17.2
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						45.0
Max Q Clear Time (g_c+I1), s		13.0						10.7
Green Ext Time (p_c), s		9.4						1.4

Intersection Summary	
HCM 2010 Ctrl Delay	10.6
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	190	270	140	380	360	140	10	110	590	190	10	110	1050	270
Future Volume (veh/h)	190	270	140	380	360	140	10	110	590	190	10	110	1050	270
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.95		1.00		0.94		1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	211	300	117	447	424	127		115	615	151		113	1082	214
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.90	0.90	0.90	0.85	0.85	0.85		0.96	0.96	0.96		0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	238	356	144	445	444	379		134	1398	409		213	1157	509
Arrive On Green	0.21	0.21	0.21	0.25	0.25	0.25		0.08	0.28	0.28		0.12	0.33	0.33
Sat Flow, veh/h	1131	1693	684	1774	1770	1511		1774	5085	1487		1774	3539	1556
Grp Volume(v), veh/h	337	0	291	447	424	127		115	615	151		113	1082	214
Grp Sat Flow(s),veh/h/ln	1806	0	1701	1774	1770	1511		1774	1695	1487		1774	1770	1556
Q Serve(g_s), s	25.4	0.0	22.8	35.1	33.1	9.6		9.0	14.0	11.5		8.4	41.5	15.0
Cycle Q Clear(g_c), s	25.4	0.0	22.8	35.1	33.1	9.6		9.0	14.0	11.5		8.4	41.5	15.0
Prop In Lane	0.63		0.40	1.00		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	379	0	357	445	444	379		134	1398	409		213	1157	509
V/C Ratio(X)	0.89	0.00	0.81	1.00	0.96	0.34		0.86	0.44	0.37		0.53	0.93	0.42
Avail Cap(c_a), veh/h	401	0	378	445	444	379		134	1398	409		213	1157	509
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.49	0.49	0.49		1.00	1.00	1.00		0.18	0.18	0.18
Uniform Delay (d), s/veh	53.7	0.0	52.7	52.5	51.7	42.9		63.9	41.9	41.0		57.9	45.7	36.8
Incr Delay (d2), s/veh	19.2	0.0	11.2	31.0	19.7	0.1		37.2	1.0	2.6		0.2	3.6	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.7	0.0	11.9	21.0	18.6	4.0		5.8	6.7	5.0		4.1	20.9	6.5
LnGrp Delay(d),s/veh	72.9	0.0	63.9	83.5	71.4	43.0		101.2	42.9	43.5		58.2	49.3	37.2
LnGrp LOS	E		E	F	E	D		F	D	D		E	D	D
Approach Vol, veh/h		628			998				881				1409	
Approach Delay, s/veh		68.7			73.2				50.6				48.2	
Approach LOS		E			E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	21.7	44.0		34.3	15.0	50.7		40.0
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	15.6	* 39		31.1	10.6	44.1		35.1
Max Q Clear Time (g_c+I1), s	10.4	16.0		27.4	11.0	43.5		37.1
Green Ext Time (p_c), s	0.1	6.1		1.0	0.0	0.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	58.4
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	0

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1	0	2	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	1	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1622	-	1021	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1622	-	1021	1084
Mov Cap-2 Maneuver	-	-	-	-	1021	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	1022	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	0
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	-	-	-	1622	-
HCM Lane V/C Ratio	-	-	-	-	-
HCM Control Delay (s)	0	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	-	-	-	0	-

Appendix K
Peak Hour Intersection LOS Worksheets – Horizon Year 2050 Plus Project Conditions

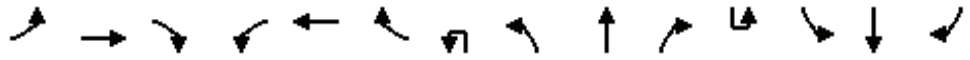
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	210	440	192	10	190	550	360	245	1242	90	10
Future Volume (veh/h)	10	210	440	192	10	190	550	360	245	1242	90	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.97	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		221	463	161		204	591	284	253	1280	72	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		285	854	294		622	1001	481	314	1105	62	
Arrive On Green		0.08	0.33	0.33		0.18	0.44	0.44	0.12	0.43	0.43	
Sat Flow, veh/h		3442	2562	883		3442	2293	1101	3442	3401	191	
Grp Volume(v), veh/h		221	318	306		204	456	419	253	665	687	
Grp Sat Flow(s),veh/h/ln		1721	1770	1675		1721	1770	1625	1721	1770	1822	
Q Serve(g_s), s		6.8	15.8	16.1		5.6	21.1	21.2	7.7	35.1	35.1	
Cycle Q Clear(g_c), s		6.8	15.8	16.1		5.6	21.1	21.2	7.7	35.1	35.1	
Prop In Lane		1.00		0.53		1.00		0.68	1.00		0.10	
Lane Grp Cap(c), veh/h		285	590	558		622	773	709	314	575	592	
V/C Ratio(X)		0.77	0.54	0.55		0.33	0.59	0.59	0.80	1.16	1.16	
Avail Cap(c_a), veh/h		433	590	558		622	773	709	402	575	592	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.54	0.54	0.54	
Uniform Delay (d), s/veh		48.5	29.3	29.4		38.5	23.1	23.1	46.5	30.7	30.7	
Incr Delay (d2), s/veh		2.1	3.5	3.8		0.1	3.3	3.6	3.9	81.1	82.4	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	8.3	8.0		2.7	11.0	10.1	3.8	30.0	31.1	
LnGrp Delay(d),s/veh		50.6	32.8	33.2		38.7	26.4	26.7	50.4	111.8	113.0	
LnGrp LOS		D	C	C		D	C	C	D	F	F	
Approach Vol, veh/h			845				1079			1605		
Approach Delay, s/veh			37.6				28.8			102.6		
Approach LOS			D				C			F		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.6	41.0	14.3	40.2	13.4	52.3	14.5	40.0
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	7.6	18.1	9.7	23.7	8.8	23.2	11.6	37.1
Green Ext Time (p_c), s	0.0	3.9	0.1	2.0	0.2	3.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	68.2
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	190	537	190
Future Volume (veh/h)	190	537	190
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	216	610	182
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	158	870	259
Arrive On Green	0.09	0.33	0.33
Sat Flow, veh/h	1774	2660	792
Grp Volume(v), veh/h	216	405	387
Grp Sat Flow(s),veh/h/ln	1774	1770	1683
Q Serve(g_s), s	9.6	21.6	21.7
Cycle Q Clear(g_c), s	9.6	21.6	21.7
Prop In Lane	1.00		0.47
Lane Grp Cap(c), veh/h	158	579	551
V/C Ratio(X)	1.37	0.70	0.70
Avail Cap(c_a), veh/h	158	579	551
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.2	31.7	31.7
Incr Delay (d2), s/veh	201.3	3.2	3.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.5	11.1	10.6
LnGrp Delay(d),s/veh	250.5	34.9	35.1
LnGrp LOS	F	C	D
Approach Vol, veh/h		1008	
Approach Delay, s/veh		81.2	
Approach LOS		F	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	40	10	70	20	20	20	10	80	1478	20	10	130	600	90
Future Volume (veh/h)	40	10	70	20	20	20	10	80	1478	20	10	130	600	90
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.98	0.99		0.97		1.00		1.00		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	53	13	66	25	25	20		89	1642	21		141	652	91
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.75	0.75	0.75	0.79	0.79	0.79		0.90	0.90	0.90		0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	107	30	91	94	88	55		650	2372	30		158	1186	165
Arrive On Green	0.12	0.12	0.12	0.12	0.12	0.12		0.25	0.44	0.44		0.09	0.38	0.38
Sat Flow, veh/h	525	261	786	421	759	472		1774	3578	46		1774	3117	434
Grp Volume(v), veh/h	132	0	0	70	0	0		89	811	852		141	370	373
Grp Sat Flow(s),veh/h/ln	1572	0	0	1653	0	0		1774	1770	1854		1774	1770	1781
Q Serve(g_s), s	4.5	0.0	0.0	0.0	0.0	0.0		4.2	39.7	39.8		8.5	17.7	17.7
Cycle Q Clear(g_c), s	8.5	0.0	0.0	4.0	0.0	0.0		4.2	39.7	39.8		8.5	17.7	17.7
Prop In Lane	0.40		0.50	0.36		0.29		1.00		0.02		1.00		0.24
Lane Grp Cap(c), veh/h	229	0	0	237	0	0		650	1173	1229		158	673	678
V/C Ratio(X)	0.58	0.00	0.00	0.30	0.00	0.00		0.14	0.69	0.69		0.89	0.55	0.55
Avail Cap(c_a), veh/h	498	0	0	515	0	0		650	1173	1229		158	673	678
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.67	0.67	0.67		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.54	0.54	0.54		0.54	0.54	0.54
Uniform Delay (d), s/veh	45.8	0.0	0.0	44.0	0.0	0.0		27.4	21.2	21.2		48.7	26.2	26.2
Incr Delay (d2), s/veh	0.9	0.0	0.0	0.3	0.0	0.0		0.0	1.8	1.8		26.8	1.7	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	0.0	0.0	1.9	0.0	0.0		2.1	20.0	21.0		5.3	9.0	9.0
LnGrp Delay(d),s/veh	46.7	0.0	0.0	44.2	0.0	0.0		27.4	23.0	23.0		75.5	27.9	28.0
LnGrp LOS	D			D				C	C	C		E	C	C
Approach Vol, veh/h		132			70				1752				884	
Approach Delay, s/veh		46.7			44.2				23.2				35.5	
Approach LOS		D			D				C				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	76.6		17.4	44.6	46.0		17.4
Change Period (Y+Rc), s	4.4	5.0		4.9	5.0	* 4.9		4.9
Max Green Setting (Gmax), s	9.6	52.0		32.1	20.6	* 41		32.1
Max Q Clear Time (g_c+I1), s	10.5	41.8		10.5	6.2	19.7		6.0
Green Ext Time (p_c), s	0.0	9.3		0.5	0.1	3.2		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	28.7
HCM 2010 LOS	C

Notes

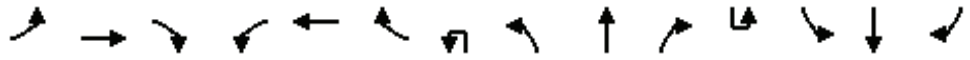


Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	61	120	1378	72	10	50	650
Future Volume (veh/h)	61	120	1378	72	10	50	650
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.99		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	73	109	1680	65		58	756
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.83	0.83	0.82	0.82		0.86	0.86
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	88	131	1844	71		310	2682
Arrive On Green	0.13	0.13	1.00	1.00		0.12	0.51
Sat Flow, veh/h	657	981	3568	134		1774	3632
Grp Volume(v), veh/h	183	0	852	893		58	756
Grp Sat Flow(s),veh/h/ln	1646	0	1770	1839		1774	1770
Q Serve(g_s), s	11.7	0.0	0.0	0.0		3.2	13.3
Cycle Q Clear(g_c), s	11.7	0.0	0.0	0.0		3.2	13.3
Prop In Lane	0.40	0.60		0.07		1.00	
Lane Grp Cap(c), veh/h	220	0	939	976		310	2682
V/C Ratio(X)	0.83	0.00	0.91	0.91		0.19	0.28
Avail Cap(c_a), veh/h	367	0	939	976		310	2682
HCM Platoon Ratio	1.00	1.00	2.00	2.00		0.67	0.67
Upstream Filter(I)	1.00	0.00	0.64	0.64		0.93	0.93
Uniform Delay (d), s/veh	45.6	0.0	0.0	0.0		40.8	9.7
Incr Delay (d2), s/veh	3.1	0.0	9.8	10.0		0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	0.0	2.5	2.7		1.6	6.6
LnGrp Delay(d),s/veh	48.7	0.0	9.8	10.0		40.9	9.9
LnGrp LOS	D		A	B		D	A
Approach Vol, veh/h	183		1745				814
Approach Delay, s/veh	48.7		9.9				12.1
Approach LOS	D		A				B

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	14.7	63.0				87.7		20.3
Change Period (Y+Rc), s	5.8	* 5.7				5.8		5.9
Max Green Setting (Gmax), s	9.6	* 57				72.2		24.1
Max Q Clear Time (g_c+I1), s	15.2	2.0				15.3		13.7
Green Ext Time (p_c), s	0.0	37.3				10.5		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	13.2
HCM 2010 LOS	B

Notes

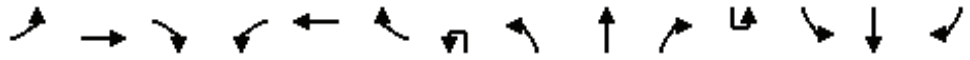


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	190	0	50	20	0	50	10	50	1180	10	10	30	620	60
Future Volume (veh/h)	190	0	50	20	0	50	10	50	1180	10	10	30	620	60
Number	7	4	14	3	8	18		1	6	16		5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98		1.00		1.00		1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	284	0	63	28	0	52		58	1372	11		37	756	56
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.67	0.67	0.67	0.72	0.72	0.72		0.86	0.86	0.86		0.82	0.82	0.82
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	364	0	67	179	20	286		75	2065	17		47	1864	138
Arrive On Green	0.26	0.00	0.26	0.26	0.00	0.26		0.04	0.57	0.57		0.05	1.00	1.00
Sat Flow, veh/h	1166	0	259	516	76	1100		1774	3598	29		1774	3340	247
Grp Volume(v), veh/h	347	0	0	80	0	0		58	675	708		37	400	412
Grp Sat Flow(s),veh/h/ln	1425	0	0	1693	0	0		1774	1770	1858		1774	1770	1818
Q Serve(g_s), s	21.6	0.0	0.0	0.0	0.0	0.0		3.5	28.4	28.4		2.2	0.0	0.0
Cycle Q Clear(g_c), s	25.6	0.0	0.0	4.1	0.0	0.0		3.5	28.4	28.4		2.2	0.0	0.0
Prop In Lane	0.82		0.18	0.35		0.65		1.00		0.02		1.00		0.14
Lane Grp Cap(c), veh/h	431	0	0	485	0	0		75	1015	1066		47	987	1014
V/C Ratio(X)	0.80	0.00	0.00	0.16	0.00	0.00		0.78	0.66	0.66		0.79	0.41	0.41
Avail Cap(c_a), veh/h	457	0	0	513	0	0		174	1015	1066		174	987	1014
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.84	0.84	0.84		0.93	0.93	0.93
Uniform Delay (d), s/veh	38.6	0.0	0.0	31.1	0.0	0.0		51.2	15.9	15.9		50.9	0.0	0.0
Incr Delay (d2), s/veh	8.7	0.0	0.0	0.1	0.0	0.0		5.3	2.9	2.7		9.9	1.2	1.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.2	0.0	0.0	1.9	0.0	0.0		1.8	14.5	15.2		1.2	0.3	0.3
LnGrp Delay(d),s/veh	47.4	0.0	0.0	31.1	0.0	0.0		56.6	18.7	18.6		60.8	1.2	1.1
LnGrp LOS	D			C				E	B	B		E	A	A
Approach Vol, veh/h		347			80				1441				849	
Approach Delay, s/veh		47.4			31.1				20.2				3.7	
Approach LOS		D			C				C				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	8.9	66.1		33.0	7.2	67.8		33.0
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	10.6	* 53		30.1	10.6	52.2		30.1
Max Q Clear Time (g_c+I1), s	5.5	2.0		27.6	4.2	30.4		6.1
Green Ext Time (p_c), s	0.0	8.7		0.4	0.0	12.8		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	18.8
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	30	20	30	174	20	80	10	40	1110	202	10	100	540	50
Future Volume (veh/h)	30	20	30	174	20	80	10	40	1110	202	10	100	540	50
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.95		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	40	27	29	202	23	67		47	1306	177		120	651	54
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.75	0.75	0.75	0.86	0.86	0.86		0.85	0.85	0.85		0.83	0.83	0.83
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	70	47	35	287	27	466		210	2287	310		144	2201	181
Arrive On Green	0.31	0.31	0.31	0.31	0.31	0.31		0.24	1.00	1.00		0.08	0.46	0.46
Sat Flow, veh/h	109	152	113	766	87	1498		1774	4517	612		1774	4784	394
Grp Volume(v), veh/h	96	0	0	225	0	67		47	980	503		120	460	245
Grp Sat Flow(s),veh/h/ln	374	0	0	853	0	1498		1774	1695	1739		1774	1695	1788
Q Serve(g_s), s	5.5	0.0	0.0	0.0	0.0	4.5		3.0	0.0	0.0		9.3	11.9	12.0
Cycle Q Clear(g_c), s	41.6	0.0	0.0	36.0	0.0	4.5		3.0	0.0	0.0		9.3	11.9	12.0
Prop In Lane	0.42		0.30	0.90		1.00		1.00		0.35		1.00		0.22
Lane Grp Cap(c), veh/h	153	0	0	314	0	466		210	1716	880		144	1559	822
V/C Ratio(X)	0.63	0.00	0.00	0.72	0.00	0.14		0.22	0.57	0.57		0.84	0.29	0.30
Avail Cap(c_a), veh/h	169	0	0	329	0	483		210	1716	880		286	1559	822
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.87	0.87	0.87		0.90	0.90	0.90
Uniform Delay (d), s/veh	51.5	0.0	0.0	45.6	0.0	34.7		48.2	0.0	0.0		63.4	23.6	23.7
Incr Delay (d2), s/veh	4.0	0.0	0.0	5.8	0.0	0.1		0.2	1.2	2.4		4.4	0.4	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.8	0.0	0.0	8.8	0.0	1.9		1.5	0.3	0.6		4.7	5.7	6.1
LnGrp Delay(d),s/veh	55.5	0.0	0.0	51.4	0.0	34.8		48.4	1.2	2.4		67.8	24.1	24.5
LnGrp LOS	E			D		C		D	A	A		E	C	C
Approach Vol, veh/h		96			292				1530				825	
Approach Delay, s/veh		55.5			47.6				3.0				30.5	
Approach LOS		E			D				A				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.7	75.8		48.5	21.5	70.0		48.5
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	22.6	58.1		45.1	15.6	* 64		45.1
Max Q Clear Time (g_c+I1), s	11.3	2.0		43.6	5.0	14.0		38.0
Green Ext Time (p_c), s	0.1	47.8		0.0	0.0	13.2		0.6

Intersection Summary	
HCM 2010 Ctrl Delay	17.9
HCM 2010 LOS	B

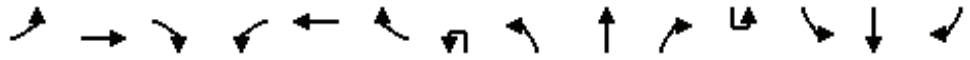
Notes

Intersection	
Intersection Delay, s/veh	11.4
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	10	81	100	93	42	10	80	50	89	20	60	10
Future Vol, veh/h	10	81	100	93	42	10	80	50	89	20	60	10
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	12	96	119	119	54	13	121	76	135	27	80	13
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.7	10.9	12.6	9.9
HCM LOS	B	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	37%	5%	64%	22%
Vol Thru, %	23%	42%	29%	67%
Vol Right, %	41%	52%	7%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	219	191	145	90
LT Vol	80	10	93	20
Through Vol	50	81	42	60
RT Vol	89	100	10	10
Lane Flow Rate	332	227	186	120
Geometry Grp	1	1	1	1
Degree of Util (X)	0.469	0.326	0.289	0.186
Departure Headway (Hd)	5.086	5.156	5.594	5.565
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	707	696	641	643
Service Time	3.123	3.197	3.638	3.611
HCM Lane V/C Ratio	0.47	0.326	0.29	0.187
HCM Control Delay	12.6	10.7	10.9	9.9
HCM Lane LOS	B	B	B	A
HCM 95th-tile Q	2.5	1.4	1.2	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	84	37	157	100	43	90	10	141	1140	140	10	130	610	78
Future Volume (veh/h)	84	37	157	100	43	90	10	141	1140	140	10	130	610	78
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.98		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	101	45	165	128	55	86		153	1239	114		143	670	74
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	265	83	306	201	157	246		178	2654	244		165	1963	869
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24		0.10	0.56	0.56		0.19	1.00	1.00
Sat Flow, veh/h	1233	342	1256	1157	645	1009		1774	4726	435		1774	3539	1568
Grp Volume(v), veh/h	101	0	210	128	0	141		153	889	464		143	670	74
Grp Sat Flow(s),veh/h/ln	1233	0	1598	1157	0	1655		1774	1695	1771		1774	1770	1568
Q Serve(g_s), s	10.3	0.0	16.0	15.2	0.0	9.9		11.9	21.8	21.8		10.9	0.0	0.0
Cycle Q Clear(g_c), s	20.2	0.0	16.0	31.2	0.0	9.9		11.9	21.8	21.8		10.9	0.0	0.0
Prop In Lane	1.00		0.79	1.00		0.61		1.00		0.25		1.00		1.00
Lane Grp Cap(c), veh/h	265	0	390	201	0	403		178	1904	994		165	1963	869
V/C Ratio(X)	0.38	0.00	0.54	0.64	0.00	0.35		0.86	0.47	0.47		0.86	0.34	0.09
Avail Cap(c_a), veh/h	353	0	503	284	0	521		400	1904	994		400	1963	869
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.98	0.98	0.98
Uniform Delay (d), s/veh	52.1	0.0	46.1	59.7	0.0	43.8		62.0	18.2	18.2		56.1	0.0	0.0
Incr Delay (d2), s/veh	0.7	0.0	0.9	2.5	0.0	0.4		4.7	0.8	1.6		5.0	0.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	0.0	7.2	5.0	0.0	4.5		6.1	10.3	11.0		5.6	0.1	0.0
LnGrp Delay(d),s/veh	52.8	0.0	47.0	62.1	0.0	44.2		66.7	19.1	19.8		61.1	0.5	0.2
LnGrp LOS	D		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		311			269				1506				887	
Approach Delay, s/veh		48.8			52.7				24.1				10.2	
Approach LOS		D			D				C				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.5	83.5		39.0	18.4	82.6		39.0
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	13.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	12.9	23.8		22.2	13.9	2.0		33.2
Green Ext Time (p_c), s	0.2	12.4		1.3	0.2	6.7		0.8

Intersection Summary	
HCM 2010 Ctrl Delay	25.2
HCM 2010 LOS	C

Notes

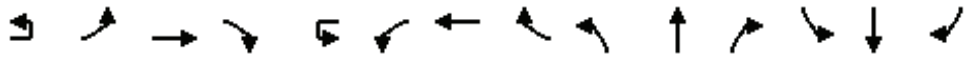


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	10	210	878	90	435	853	182	20	270	530	492	10	221	310	310
Future Volume (veh/h)	10	210	878	90	435	853	182	20	270	530	492	10	221	310	310
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		219	915	71	463	907	163		325	639	593		243	341	244
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		396	1047	81	513	1005	180		343	913	644		265	418	292
Arrive On Green		0.11	0.32	0.32	0.15	0.34	0.34		0.19	0.26	0.26		0.15	0.21	0.21
Sat Flow, veh/h		3442	3313	257	3442	2979	535		1774	3539	1583		1774	1956	1366
Grp Volume(v), veh/h		219	489	497	463	539	531		325	639	593		243	308	277
Grp Sat Flow(s),veh/h/ln		1721	1770	1801	1721	1770	1744		1774	1770	1583		1774	1770	1552
Q Serve(g_s), s		9.3	40.5	40.5	20.5	45.0	45.0		28.1	25.4	40.0		20.9	25.7	26.5
Cycle Q Clear(g_c), s		9.3	40.5	40.5	20.5	45.0	45.0		28.1	25.4	40.0		20.9	25.7	26.5
Prop In Lane		1.00		0.14	1.00		0.31		1.00		1.00		1.00		0.88
Lane Grp Cap(c), veh/h		396	559	569	513	597	588		343	913	644		265	378	332
V/C Ratio(X)		0.55	0.87	0.87	0.90	0.90	0.90		0.95	0.70	0.92		0.92	0.81	0.84
Avail Cap(c_a), veh/h		666	685	697	666	685	675		343	913	644		343	456	400
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.9	50.1	50.1	64.9	49.0	49.0		61.7	52.1	43.6		65.0	58.0	58.4
Incr Delay (d2), s/veh		0.5	10.8	10.6	11.4	14.1	14.3		34.5	2.2	18.4		22.0	8.7	11.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.5	21.5	21.8	10.6	24.3	24.0		17.0	12.7	27.3		11.9	13.5	12.5
LnGrp Delay(d),s/veh		65.3	60.9	60.7	76.3	63.0	63.3		96.3	54.3	62.0		87.1	66.7	70.1
LnGrp LOS		E	E	E	E	E	E		F	D	E		F	E	E
Approach Vol, veh/h			1205			1533				1557				828	
Approach Delay, s/veh			61.6			67.1				66.0				73.8	
Approach LOS			E			E				E				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.5	54.7	34.4	38.4	23.5	58.7	27.5	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I2), s	22.5	42.5	30.1	28.5	11.3	47.0	22.9	42.0
Green Ext Time (p_c), s	0.6	6.6	0.0	2.4	0.3	5.3	0.2	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	66.6
HCM 2010 LOS	E

Notes

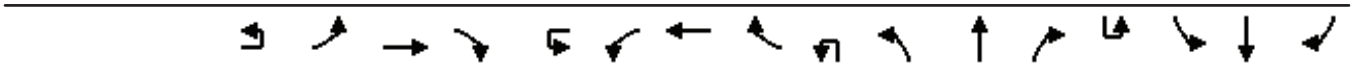


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	80	1300	140	10	180	1160	130	250	101	130	100	123	120
Future Volume (veh/h)	20	80	1300	140	10	180	1160	130	250	101	130	100	123	120
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		91	1477	129		222	1432	125	368	149	154	127	156	127
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		112	1818	158		122	1836	159	240	97	100	108	132	108
Arrive On Green		0.06	0.55	0.55		0.02	0.18	0.18	0.25	0.25	0.25	0.20	0.20	0.20
Sat Flow, veh/h		1774	3288	285		1774	3289	285	956	387	400	536	659	536
Grp Volume(v), veh/h		91	790	816		222	766	791	671	0	0	410	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1803		1774	1770	1805	1744	0	0	1731	0	0
Q Serve(g_s), s		7.1	50.5	51.7		9.6	57.7	58.5	35.1	0.0	0.0	28.1	0.0	0.0
Cycle Q Clear(g_c), s		7.1	50.5	51.7		9.6	57.7	58.5	35.1	0.0	0.0	28.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.16	0.55		0.23	0.31		0.31
Lane Grp Cap(c), veh/h		112	978	997		122	988	1008	437	0	0	347	0	0
V/C Ratio(X)		0.81	0.81	0.82		1.82	0.78	0.78	1.53	0.00	0.00	1.18	0.00	0.00
Avail Cap(c_a), veh/h		122	978	997		122	988	1008	437	0	0	347	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.47	0.47	0.47	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		64.8	25.3	25.6		68.4	48.8	49.1	52.5	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		28.1	7.1	7.5		386.1	2.9	3.0	252.0	0.0	0.0	106.8	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.4	26.5	27.7		17.8	29.1	30.1	47.5	0.0	0.0	23.7	0.0	0.0
LnGrp Delay(d),s/veh		92.9	32.4	33.0		454.5	51.7	52.1	304.4	0.0	0.0	162.7	0.0	0.0
LnGrp LOS		F	C	C		F	D	D	F			F		
Approach Vol, veh/h			1697				1779			671			410	
Approach Delay, s/veh			35.9				102.1			304.4			162.7	
Approach LOS			D				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	84.5		33.0	13.2	85.3		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	11.6	53.7		30.1	9.1	60.5		37.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	112.7
HCM 2010 LOS	F

Notes

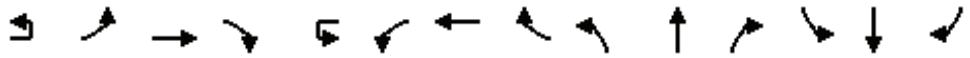


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	230	1060	300	10	110	860	357	10	300	797	80	10	291	462	220
Future Volume (veh/h)	10	230	1060	300	10	110	860	357	10	300	797	80	10	291	462	220
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		258	1191	249		126	989	321		319	848	64		334	531	196
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		390	1419	294		175	1175	381		364	1044	78		376	778	339
Arrive On Green		0.29	0.65	0.65		0.03	0.21	0.21		0.21	0.43	0.43		0.18	0.37	0.37
Sat Flow, veh/h		1774	2911	603		3442	3772	1223		3442	4819	362		3442	3539	1542
Grp Volume(v), veh/h		258	720	720		126	889	421		319	596	316		334	531	196
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1605		1721	1695	1792		1721	1770	1542
Q Serve(g_s), s		17.9	43.6	45.0		5.1	35.2	35.3		12.6	21.5	21.7		13.3	17.7	8.9
Cycle Q Clear(g_c), s		17.9	43.6	45.0		5.1	35.2	35.3		12.6	21.5	21.7		13.3	17.7	8.9
Prop In Lane		1.00		0.35		1.00		0.76		1.00		0.20		1.00		1.00
Lane Grp Cap(c), veh/h		390	863	851		175	1056	500		364	734	388		376	778	339
V/C Ratio(X)		0.66	0.83	0.85		0.72	0.84	0.84		0.88	0.81	0.82		0.89	0.68	0.58
Avail Cap(c_a), veh/h		390	863	851		383	1056	500		457	826	436		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		0.67	0.67	0.67		2.00	2.00	2.00		1.67	1.67	1.67
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.85	0.85	0.85		1.00	1.00	1.00
Uniform Delay (d), s/veh		44.9	20.3	20.5		66.6	52.1	52.1		54.3	37.2	37.2		56.4	40.2	15.2
Incr Delay (d2), s/veh		0.3	0.9	1.0		1.9	7.5	14.6		11.0	5.5	10.3		20.7	2.9	3.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		8.7	21.3	21.6		2.5	17.6	17.7		6.5	10.5	11.7		7.3	8.9	5.1
LnGrp Delay(d),s/veh		45.3	21.2	21.6		68.5	59.5	66.7		65.3	42.7	47.5		77.1	43.0	18.5
LnGrp LOS		D	C	C		E	E	E		E	D	D		E	D	B
Approach Vol, veh/h			1698				1436				1231				1061	
Approach Delay, s/veh			25.0				62.4				49.8				49.2	
Approach LOS			C				E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.5	73.6	19.2	35.7	36.1	49.0	19.7	35.2
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	17.1	47.0	14.6	19.7	19.9	37.3	15.3	23.7
Green Ext Time (p_c), s	0.1	5.9	0.3	4.8	0.2	3.9	0.0	5.9

Intersection Summary	
HCM 2010 Ctrl Delay	45.3
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	110	1221	70	10	70	1087	190	40	30	50	130	40	90
Future Volume (veh/h)	20	110	1221	70	10	70	1087	190	40	30	50	130	40	90
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	0.98		0.98	0.99		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		117	1299	61		74	1156	149	48	36	43	181	56	106
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.94	0.94	0.94		0.94	0.94	0.94	0.84	0.84	0.84	0.72	0.72	0.72
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		166	3206	151		116	2865	369	250	205	171	306	275	229
Arrive On Green		0.02	0.21	0.21		0.07	1.00	1.00	0.04	0.11	0.11	0.08	0.15	0.15
Sat Flow, veh/h		3442	4977	234		3442	4551	586	1774	1863	1553	1774	1863	1548
Grp Volume(v), veh/h		117	885	475		74	861	444	48	36	43	181	56	106
Grp Sat Flow(s),veh/h/ln		1721	1695	1820		1721	1695	1747	1774	1863	1553	1774	1863	1548
Q Serve(g_s), s		4.7	31.5	31.5		2.9	0.0	0.0	3.3	2.5	3.5	10.6	3.7	8.8
Cycle Q Clear(g_c), s		4.7	31.5	31.5		2.9	0.0	0.0	3.3	2.5	3.5	10.6	3.7	8.8
Prop In Lane		1.00		0.13		1.00		0.34	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		166	2184	1173		116	2134	1100	250	205	171	306	275	229
V/C Ratio(X)		0.71	0.41	0.41		0.64	0.40	0.40	0.19	0.18	0.25	0.59	0.20	0.46
Avail Cap(c_a), veh/h		310	2184	1173		310	2134	1100	317	547	456	306	547	454
HCM Platoon Ratio		0.33	0.33	0.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.13	0.13	0.13		0.85	0.85	0.85	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		67.9	32.0	32.0		64.5	0.0	0.0	52.2	56.5	57.0	50.7	52.4	54.6
Incr Delay (d2), s/veh		0.3	0.1	0.1		1.9	0.5	0.9	0.1	0.1	0.3	2.1	0.1	0.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.3	14.9	16.0		1.4	0.1	0.3	1.6	1.3	1.5	6.3	1.9	3.8
LnGrp Delay(d),s/veh		68.2	32.1	32.2		66.3	0.5	0.9	52.3	56.7	57.3	52.8	52.6	55.1
LnGrp LOS		E	C	C		E	A	A	D	E	E	D	D	E
Approach Vol, veh/h			1477				1379			127			343	
Approach Delay, s/veh			35.0				4.2			55.2			53.5	
Approach LOS			C				A			E			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.1	95.6	9.7	25.6	11.1	93.5	15.0	20.3
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	* 57	10.6	41.1	12.6	56.6	10.6	41.1
Max Q Clear Time (g_c+I1), s	4.9	33.5	5.3	10.8	6.7	2.0	12.6	5.5
Green Ext Time (p_c), s	0.0	15.7	0.0	0.4	0.1	15.8	0.0	0.2

Intersection Summary	
HCM 2010 Ctrl Delay	24.9
HCM 2010 LOS	C

Notes

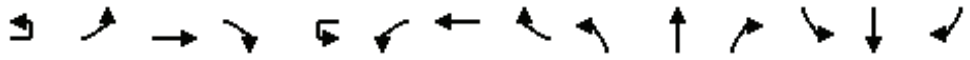


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	20	102	1210	90	210	1217	140	90	140	400	170	150	141
Future Volume (veh/h)	20	102	1210	90	210	1217	140	90	140	400	170	150	141
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.97	1.00		0.96	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		111	1315	93	221	1281	113	106	165	406	191	169	120
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.92	0.92	0.92	0.95	0.95	0.95	0.85	0.85	0.85	0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		134	1302	92	637	2653	234	153	296	809	240	652	280
Arrive On Green		0.03	0.09	0.09	0.72	1.00	1.00	0.01	0.05	0.05	0.07	0.18	0.18
Sat Flow, veh/h		1774	4836	342	1774	4745	419	3442	1863	1512	3442	3539	1522
Grp Volume(v), veh/h		111	922	486	221	915	479	106	165	406	191	169	120
Grp Sat Flow(s),veh/h/ln		1774	1695	1787	1774	1695	1773	1721	1863	1512	1721	1770	1522
Q Serve(g_s), s		8.7	37.7	37.7	6.5	0.0	0.0	4.3	12.1	4.7	7.7	5.7	9.8
Cycle Q Clear(g_c), s		8.7	37.7	37.7	6.5	0.0	0.0	4.3	12.1	4.7	7.7	5.7	9.8
Prop In Lane		1.00		0.19	1.00		0.24	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		134	913	481	637	1896	991	153	296	809	240	652	280
V/C Ratio(X)		0.83	1.01	1.01	0.35	0.48	0.48	0.69	0.56	0.50	0.80	0.26	0.43
Avail Cap(c_a), veh/h		172	913	481	637	1896	991	236	520	991	334	1090	469
HCM Platoon Ratio		0.33	0.33	0.33	2.00	2.00	2.00	0.33	0.33	0.33	1.00	1.00	1.00
Upstream Filter(I)		0.89	0.89	0.89	0.63	0.63	0.63	0.55	0.55	0.55	1.00	1.00	1.00
Uniform Delay (d), s/veh		67.3	63.8	63.8	13.6	0.0	0.0	68.0	61.5	11.5	64.1	48.9	50.6
Incr Delay (d2), s/veh		16.2	30.6	41.2	0.1	0.6	1.1	1.2	0.3	0.1	5.8	0.1	0.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.9	21.6	24.2	3.2	0.1	0.3	2.1	6.3	7.5	3.8	2.8	4.1
LnGrp Delay(d),s/veh		83.5	94.4	105.1	13.6	0.6	1.1	69.2	61.9	11.6	69.9	49.0	51.0
LnGrp LOS		F	F	F	B	A	A	E	E	B	E	D	D
Approach Vol, veh/h			1519			1615			677			480	
Approach Delay, s/veh			97.0			2.5			32.9			57.8	
Approach LOS			F			A			C			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.7	43.0	10.6	30.7	15.0	83.7	14.2	27.1
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	10.6	* 38	9.6	43.1	13.6	54.6	13.6	39.1
Max Q Clear Time (g_c+I1), s	9.5	39.7	6.3	11.8	10.7	2.0	9.7	14.1
Green Ext Time (p_c), s	0.3	0.0	0.0	0.9	0.0	31.5	0.1	1.4

Intersection Summary	
HCM 2010 Ctrl Delay	46.9
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	40	1760	40	20	80	1417	40	40	60	180	70	40	70
Future Volume (veh/h)	10	40	1760	40	20	80	1417	40	40	60	180	70	40	70
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.96	1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		44	1934	37		89	1574	35	53	79	173	92	53	70
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.91	0.91	0.91		0.90	0.90	0.90	0.76	0.76	0.76	0.76	0.76	0.76
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		56	2312	44		109	2454	55	59	88	193	103	59	78
Arrive On Green		0.06	0.90	0.90		0.12	0.96	0.96	0.21	0.21	0.21	0.14	0.14	0.14
Sat Flow, veh/h		1774	5137	98		1774	5116	114	284	424	928	730	420	555
Grp Volume(v), veh/h		44	1276	695		89	1043	566	305	0	0	215	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1845		1774	1695	1840	1636	0	0	1705	0	0
Q Serve(g_s), s		3.4	21.3	21.4		6.8	4.6	4.6	25.4	0.0	0.0	17.4	0.0	0.0
Cycle Q Clear(g_c), s		3.4	21.3	21.4		6.8	4.6	4.6	25.4	0.0	0.0	17.4	0.0	0.0
Prop In Lane		1.00		0.05		1.00		0.06	0.17		0.57	0.43		0.33
Lane Grp Cap(c), veh/h		56	1526	830		109	1626	883	340	0	0	240	0	0
V/C Ratio(X)		0.78	0.84	0.84		0.82	0.64	0.64	0.90	0.00	0.00	0.90	0.00	0.00
Avail Cap(c_a), veh/h		134	1526	830		185	1626	883	410	0	0	294	0	0
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.66	0.66	0.66		0.84	0.84	0.84	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		65.1	4.9	4.9		60.6	1.6	1.6	54.0	0.0	0.0	59.2	0.0	0.0
Incr Delay (d2), s/veh		5.7	3.8	6.8		4.7	1.6	3.0	17.6	0.0	0.0	22.3	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.8	9.6	11.2		3.5	1.8	2.3	13.2	0.0	0.0	9.7	0.0	0.0
LnGrp Delay(d),s/veh		70.8	8.7	11.7		65.3	3.2	4.6	71.5	0.0	0.0	81.5	0.0	0.0
LnGrp LOS		E	A	B		E	A	A	E			F		
Approach Vol, veh/h			2015				1698			305			215	
Approach Delay, s/veh			11.1				6.9			71.5			81.5	
Approach LOS			B				A			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	13.0	68.4		34.0	8.9	72.6		24.6
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	14.6	* 47		35.1	10.6	50.6		24.1
Max Q Clear Time (g_c+I1), s	19.8	23.4		27.4	5.4	6.6		19.4
Green Ext Time (p_c), s	0.0	20.2		0.8	0.0	21.7		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	17.4
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1940	140	400	1357	310	110	120	640	290	180	20
Future Volume (veh/h)	20	1940	140	400	1357	310	110	120	640	290	180	20
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	2000	107	435	1475	249	126	138	644	322	200	20
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1867	99	350	2847	867	255	267	1064	293	274	27
Arrive On Green	0.03	0.76	0.76	0.20	0.56	0.56	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4933	263	1774	5085	1549	1774	1863	3066	1774	1661	166
Grp Volume(v), veh/h	21	1372	735	435	1475	249	126	138	644	322	0	220
Grp Sat Flow(s),veh/h/ln	1774	1695	1806	1774	1695	1549	1774	1863	1533	1774	0	1827
Q Serve(g_s), s	1.6	53.0	53.0	27.6	25.2	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Cycle Q Clear(g_c), s	1.6	53.0	53.0	27.6	25.2	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	28	1283	684	350	2847	867	255	267	1064	293	0	301
V/C Ratio(X)	0.74	1.07	1.08	1.24	0.52	0.29	0.49	0.52	0.61	1.10	0.00	0.73
Avail Cap(c_a), veh/h	274	1283	684	350	2847	867	255	267	1064	293	0	301
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.19	0.19	0.19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	17.0	17.0	56.2	19.1	16.2	55.3	55.5	38.5	58.4	0.0	55.5
Incr Delay (d2), s/veh	2.7	34.7	40.0	131.6	0.7	0.8	1.1	1.3	0.9	82.1	0.0	7.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	29.7	32.7	26.3	11.9	5.3	4.6	5.0	10.5	18.0	0.0	8.7
LnGrp Delay(d),s/veh	70.2	51.7	57.0	187.8	19.8	17.0	56.4	56.8	39.4	140.5	0.0	63.1
LnGrp LOS	E	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2128			2159			908			542	
Approach Delay, s/veh		53.7			53.3			44.4			109.1	
Approach LOS		D			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.0	58.5		25.0	6.6	83.9		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	3.6	27.2		25.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.7		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	57.3
HCM 2010 LOS	E

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	0	1546	0	0	0	0	0	1	451
Future Volume (veh/h)	0	0	0	0	1546	0	0	0	0	0	1	451
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	1819	0				0	1	593
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.85	0.85	0.85				0.76	0.76	0.76
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	2675	833				0	473	707
Arrive On Green				0.00	0.53	0.00				0.00	0.25	0.25
Sat Flow, veh/h				0	5253	1583				0	1863	2783
Grp Volume(v), veh/h				0	1819	0				0	1	593
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1392
Q Serve(g_s), s				0.0	13.1	0.0				0.0	0.0	10.0
Cycle Q Clear(g_c), s				0.0	13.1	0.0				0.0	0.0	10.0
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	2675	833				0	473	707
V/C Ratio(X)				0.00	0.68	0.00				0.00	0.00	0.84
Avail Cap(c_a), veh/h				0	5130	1597				0	1315	1966
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	8.7	0.0				0.0	13.8	17.5
Incr Delay (d2), s/veh				0.0	0.1	0.0				0.0	0.0	1.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	6.1	0.0				0.0	0.0	3.9
LnGrp Delay(d),s/veh				0.0	8.8	0.0				0.0	13.8	18.6
LnGrp LOS					A						B	B
Approach Vol, veh/h					1819						594	
Approach Delay, s/veh					8.8						18.6	
Approach LOS					A						B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				17.7		31.9		
Change Period (Y+Rc), s				5.1		5.8		
Max Green Setting (Gmax), s				35.0		50.0		
Max Q Clear Time (g_c+I1), s				12.0		15.1		
Green Ext Time (p_c), s				0.6		11.0		

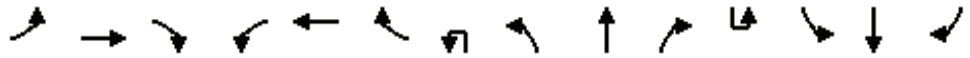
Intersection Summary	
HCM 2010 Ctrl Delay	11.2
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	2165	480	0	0	0	0	1	380	0	0	0
Future Volume (veh/h)	0	2165	480	0	0	0	0	1	380	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.98			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	2379	0				0	1	413			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.91	0.91	0.91				0.92	0.92	0.92			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	3173	988				0	361	528			
Arrive On Green	0.00	0.62	0.00				0.00	0.19	0.19			
Sat Flow, veh/h	0	5253	1583				0	1863	2729			
Grp Volume(v), veh/h	0	2379	0				0	1	413			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1364			
Q Serve(g_s), s	0.0	19.7	0.0				0.0	0.0	8.6			
Cycle Q Clear(g_c), s	0.0	19.7	0.0				0.0	0.0	8.6			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	3173	988				0	361	528			
V/C Ratio(X)	0.00	0.75	0.00				0.00	0.00	0.78			
Avail Cap(c_a), veh/h	0	4257	1325				0	1403	2056			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	7.9	0.0				0.0	19.4	22.9			
Incr Delay (d2), s/veh	0.0	0.3	0.0				0.0	0.0	1.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	9.1	0.0				0.0	0.0	3.3			
LnGrp Delay(d),s/veh	0.0	8.3	0.0				0.0	19.4	23.9			
LnGrp LOS		A						B	C			
Approach Vol, veh/h		2379						414				
Approach Delay, s/veh		8.3						23.8				
Approach LOS		A						C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		43.1						16.7
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						45.0
Max Q Clear Time (g_c+I1), s		21.7						10.6
Green Ext Time (p_c), s		15.5						1.0

Intersection Summary	
HCM 2010 Ctrl Delay	10.6
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	180	390	90	140	270	141	10	80	946	220	10	42	609	140
Future Volume (veh/h)	180	390	90	140	270	141	10	80	946	220	10	42	609	140
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.95		1.00		0.96		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	222	481	86	161	310	119		85	1006	171		49	716	119
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.81	0.81	0.81	0.87	0.87	0.87		0.94	0.94	0.94		0.85	0.85	0.85
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	242	555	103	206	426	267		106	1471	440		246	1331	592
Arrive On Green	0.25	0.25	0.25	0.18	0.18	0.18		0.06	0.29	0.29		0.14	0.38	0.38
Sat Flow, veh/h	965	2213	411	1165	2410	1508		1774	5085	1520		1774	3539	1573
Grp Volume(v), veh/h	417	0	372	249	222	119		85	1006	171		49	716	119
Grp Sat Flow(s),veh/h/ln	1814	0	1774	1805	1770	1508		1774	1695	1520		1774	1770	1573
Q Serve(g_s), s	31.3	0.0	27.8	18.5	16.5	9.9		6.6	24.5	12.6		3.4	22.2	7.1
Cycle Q Clear(g_c), s	31.3	0.0	27.8	18.5	16.5	9.9		6.6	24.5	12.6		3.4	22.2	7.1
Prop In Lane	0.53		0.23	0.65		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	455	0	445	319	313	267		106	1471	440		246	1331	592
V/C Ratio(X)	0.92	0.00	0.83	0.78	0.71	0.45		0.80	0.68	0.39		0.20	0.54	0.20
Avail Cap(c_a), veh/h	507	0	495	401	393	335		185	1471	440		246	1331	592
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.89	0.89	0.89		1.00	1.00	1.00		0.73	0.73	0.73
Uniform Delay (d), s/veh	51.0	0.0	49.7	55.0	54.2	51.5		65.0	44.1	39.8		53.4	34.2	29.5
Incr Delay (d2), s/veh	19.3	0.0	9.7	5.2	2.4	0.4		5.3	2.6	2.6		0.1	1.1	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	18.1	0.0	14.8	9.7	8.3	4.1		3.4	11.8	5.6		1.7	11.1	3.2
LnGrp Delay(d),s/veh	70.3	0.0	59.4	60.2	56.6	51.9		70.3	46.7	42.4		53.5	35.3	30.0
LnGrp LOS	E		E	E	E	D		E	D	D		D	D	C
Approach Vol, veh/h		789			590				1262				884	
Approach Delay, s/veh		65.2			57.2				47.7				35.6	
Approach LOS		E			E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	24.3	46.0		40.0	12.7	57.5		29.7
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	9.6	* 41		39.1	14.6	36.1		31.1
Max Q Clear Time (g_c+I1), s	15.4	26.5		33.3	8.6	24.2		20.5
Green Ext Time (p_c), s	0.0	7.6		1.8	0.0	9.0		1.6

Intersection Summary	
HCM 2010 Ctrl Delay	50.2
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	4.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	176	14	51	109	36	127
Future Vol, veh/h	176	14	51	109	36	127
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	191	15	55	118	39	138

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	206	0	427	199
Stage 1	-	-	-	-	199	-
Stage 2	-	-	-	-	228	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1365	-	584	842
Stage 1	-	-	-	-	835	-
Stage 2	-	-	-	-	810	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1365	-	559	842
Mov Cap-2 Maneuver	-	-	-	-	559	-
Stage 1	-	-	-	-	799	-
Stage 2	-	-	-	-	810	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2.5	11.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	757	-	-	1365	-
HCM Lane V/C Ratio	0.234	-	-	0.041	-
HCM Control Delay (s)	11.2	-	-	7.7	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.9	-	-	0.1	-

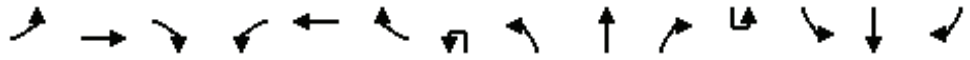
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	150	670	265	20	210	750	140	273	484	140	10
Future Volume (veh/h)	10	150	670	265	20	210	750	140	273	484	140	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		167	744	211		226	806	117	290	515	115	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		222	1120	318		281	1337	194	345	658	146	
Arrive On Green		0.06	0.41	0.41		0.08	0.43	0.43	0.13	0.31	0.31	
Sat Flow, veh/h		3442	2700	766		3442	3094	449	3442	2847	632	
Grp Volume(v), veh/h		167	488	467		226	461	462	290	319	311	
Grp Sat Flow(s),veh/h/ln		1721	1770	1696		1721	1770	1773	1721	1770	1709	
Q Serve(g_s), s		6.0	28.0	28.0		8.1	25.2	25.2	10.4	20.7	21.0	
Cycle Q Clear(g_c), s		6.0	28.0	28.0		8.1	25.2	25.2	10.4	20.7	21.0	
Prop In Lane		1.00		0.45		1.00		0.25	1.00		0.37	
Lane Grp Cap(c), veh/h		222	734	704		281	765	766	345	409	395	
V/C Ratio(X)		0.75	0.66	0.66		0.80	0.60	0.60	0.84	0.78	0.79	
Avail Cap(c_a), veh/h		399	734	704		399	765	766	481	479	463	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.95	0.95	0.95	
Uniform Delay (d), s/veh		57.9	29.8	29.8		56.9	27.5	27.5	53.6	40.7	40.8	
Incr Delay (d2), s/veh		1.9	4.7	4.9		5.0	3.5	3.5	6.5	5.4	6.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.9	14.6	14.1		4.1	13.0	13.1	5.2	10.7	10.5	
LnGrp Delay(d),s/veh		59.9	34.5	34.7		61.9	31.0	31.0	60.1	46.1	46.8	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1122				1149			920		
Approach Delay, s/veh			38.3				37.1			50.7		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.7	57.3	17.0	37.0	12.5	59.4	20.0	34.0
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	10.1	30.0	12.4	34.1	8.0	27.2	16.9	23.0
Green Ext Time (p_c), s	0.2	5.3	0.3	0.0	0.1	5.6	0.0	1.9

Intersection Summary	
HCM 2010 Ctrl Delay	100.0
HCM 2010 LOS	F

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	200	1095	150
Future Volume (veh/h)	200	1095	150
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	211	1153	126
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	220	816	89
Arrive On Green	0.12	0.25	0.25
Sat Flow, veh/h	1774	3204	349
Grp Volume(v), veh/h	211	636	643
Grp Sat Flow(s),veh/h/ln	1774	1770	1783
Q Serve(g_s), s	14.9	32.1	32.1
Cycle Q Clear(g_c), s	14.9	32.1	32.1
Prop In Lane	1.00		0.20
Lane Grp Cap(c), veh/h	220	451	454
V/C Ratio(X)	0.96	1.41	1.42
Avail Cap(c_a), veh/h	220	451	454
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.9	47.0	47.0
Incr Delay (d2), s/veh	49.2	197.4	199.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.3	40.4	41.0
LnGrp Delay(d),s/veh	104.0	244.3	246.8
LnGrp LOS	F	F	F
Approach Vol, veh/h		1490	
Approach Delay, s/veh		225.5	
Approach LOS		F	
Timer			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	30	10	90	20	10	10	10	80	868	10	10	10	1523	30
Future Volume (veh/h)	30	10	90	20	10	10	10	80	868	10	10	10	1523	30
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.95	0.98		0.97		1.00		0.99		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	43	14	95	31	16	14		84	914	10		11	1620	26
Adj No. of Lanes	0	1	0	0	1	0		1	2	0		1	2	0
Peak Hour Factor	0.69	0.69	0.69	0.64	0.64	0.64		0.95	0.95	0.95		0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	83	33	134	124	62	43		106	2643	29		18	2451	39
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14		0.08	0.98	0.98		0.01	0.69	0.69
Sat Flow, veh/h	336	240	959	577	448	305		1774	3586	39		1774	3564	57
Grp Volume(v), veh/h	152	0	0	61	0	0		84	451	473		11	803	843
Grp Sat Flow(s),veh/h/ln	1535	0	0	1331	0	0		1774	1770	1856		1774	1770	1852
Q Serve(g_s), s	6.8	0.0	0.0	0.0	0.0	0.0		5.9	1.0	1.0		0.8	32.7	32.9
Cycle Q Clear(g_c), s	11.7	0.0	0.0	4.9	0.0	0.0		5.9	1.0	1.0		0.8	32.7	32.9
Prop In Lane	0.28		0.62	0.51		0.23		1.00		0.02		1.00		0.03
Lane Grp Cap(c), veh/h	251	0	0	229	0	0		106	1304	1368		18	1217	1273
V/C Ratio(X)	0.61	0.00	0.00	0.27	0.00	0.00		0.80	0.35	0.35		0.61	0.66	0.66
Avail Cap(c_a), veh/h	387	0	0	360	0	0		234	1304	1368		191	1217	1273
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.33	1.33	1.33		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.91	0.91	0.91		0.09	0.09	0.09
Uniform Delay (d), s/veh	51.6	0.0	0.0	48.5	0.0	0.0		57.3	0.3	0.3		62.1	11.3	11.3
Incr Delay (d2), s/veh	0.9	0.0	0.0	0.2	0.0	0.0		4.6	0.7	0.6		1.1	0.3	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	0.0	0.0	1.9	0.0	0.0		3.0	0.6	0.6		0.4	15.9	16.7
LnGrp Delay(d),s/veh	52.4	0.0	0.0	48.8	0.0	0.0		61.9	1.0	1.0		63.2	11.5	11.5
LnGrp LOS	D			D				E	A	A		E	B	B
Approach Vol, veh/h		152			61				1008				1657	
Approach Delay, s/veh		52.4			48.8				6.1				11.9	
Approach LOS		D			D				A				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	5.7	97.9		22.5	11.9	91.6		22.5
Change Period (Y+Rc), s	4.4	5.0		4.9	4.4	* 5		4.9
Max Green Setting (Gmax), s	13.6	69.0		29.1	16.6	* 66		29.1
Max Q Clear Time (g_c+I1), s	2.8	3.0		13.7	7.9	34.9		6.9
Green Ext Time (p_c), s	0.0	17.7		0.5	0.0	10.6		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	12.8
HCM 2010 LOS	B

Notes



Movement	WBL	WBR	NBT	NBR	SBU	SBL	SBT
Lane Configurations							
Traffic Volume (veh/h)	52	70	848	71	10	130	1473
Future Volume (veh/h)	52	70	848	71	10	130	1473
Number	3	18	2	12		1	6
Initial Q (Qb), veh	0	0	0	0		0	0
Ped-Bike Adj(A_pbT)	1.00	0.94		1.00		1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900	1863	1900		1863	1863
Adj Flow Rate, veh/h	58	59	902	60		134	1519
Adj No. of Lanes	0	0	2	0		1	2
Peak Hour Factor	0.89	0.89	0.94	0.94		0.97	0.97
Percent Heavy Veh, %	0	0	2	2		2	2
Cap, veh/h	88	89	2241	149		158	2821
Arrive On Green	0.11	0.11	1.00	1.00		0.18	1.00
Sat Flow, veh/h	798	812	3461	224		1774	3632
Grp Volume(v), veh/h	118	0	474	488		134	1519
Grp Sat Flow(s),veh/h/ln	1623	0	1770	1822		1774	1770
Q Serve(g_s), s	8.8	0.0	0.0	0.0		9.2	0.0
Cycle Q Clear(g_c), s	8.8	0.0	0.0	0.0		9.2	0.0
Prop In Lane	0.49	0.50		0.12		1.00	
Lane Grp Cap(c), veh/h	179	0	1178	1213		158	2821
V/C Ratio(X)	0.66	0.00	0.40	0.40		0.85	0.54
Avail Cap(c_a), veh/h	310	0	1178	1213		248	2821
HCM Platoon Ratio	1.00	1.00	2.00	2.00		2.00	2.00
Upstream Filter(I)	1.00	0.00	0.94	0.94		0.67	0.67
Uniform Delay (d), s/veh	53.8	0.0	0.0	0.0		51.0	0.0
Incr Delay (d2), s/veh	1.6	0.0	1.0	0.9		6.1	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	0.0	0.3	0.3		4.7	0.2
LnGrp Delay(d),s/veh	55.4	0.0	1.0	0.9		57.1	0.5
LnGrp LOS	E		A	A		E	A
Approach Vol, veh/h	118		962				1653
Approach Delay, s/veh	55.4		0.9				5.1
Approach LOS	E		A				A

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	16.6	89.6				106.2		19.8
Change Period (Y+Rc), s	5.4	* 5.8				5.8		5.9
Max Green Setting (Gmax), s	17.6	* 67				90.2		24.1
Max Q Clear Time (g_c+I1), s	11.2	2.0				2.0		10.8
Green Ext Time (p_c), s	0.1	14.5				36.9		0.1

Intersection Summary	
HCM 2010 Ctrl Delay	5.8
HCM 2010 LOS	A

Notes

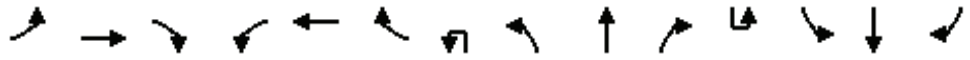


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	110	30	60	20	10	20	10	60	779	50	20	1364	140
Future Volume (veh/h)	110	30	60	20	10	20	10	60	779	50	20	1364	140
Number	7	4	14	3	8	18		1	6	16	5	2	12
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.98	1.00		0.99		1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1900		1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h	124	34	52	31	16	23		64	829	48	22	1467	109
Adj No. of Lanes	0	1	0	0	1	0		1	2	0	1	2	0
Peak Hour Factor	0.89	0.89	0.89	0.64	0.64	0.64		0.94	0.94	0.94	0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h	185	41	60	131	70	78		82	2394	139	30	2255	167
Arrive On Green	0.16	0.16	0.16	0.16	0.16	0.16		0.05	0.70	0.70	0.03	1.00	1.00
Sat Flow, veh/h	880	261	376	563	438	490		1774	3400	197	1774	3341	247
Grp Volume(v), veh/h	210	0	0	70	0	0		64	431	446	22	774	802
Grp Sat Flow(s),veh/h/ln	1516	0	0	1491	0	0		1774	1770	1827	1774	1770	1818
Q Serve(g_s), s	12.1	0.0	0.0	0.0	0.0	0.0		4.5	12.0	12.0	1.5	0.0	0.0
Cycle Q Clear(g_c), s	16.9	0.0	0.0	4.8	0.0	0.0		4.5	12.0	12.0	1.5	0.0	0.0
Prop In Lane	0.59		0.25	0.44		0.33		1.00		0.11	1.00		0.14
Lane Grp Cap(c), veh/h	286	0	0	278	0	0		82	1246	1287	30	1194	1227
V/C Ratio(X)	0.73	0.00	0.00	0.25	0.00	0.00		0.78	0.35	0.35	0.73	0.65	0.65
Avail Cap(c_a), veh/h	427	0	0	421	0	0		234	1246	1287	234	1194	1227
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00		0.85	0.85	0.85	0.82	0.82	0.82
Uniform Delay (d), s/veh	51.4	0.0	0.0	46.5	0.0	0.0		59.4	7.3	7.3	60.6	0.0	0.0
Incr Delay (d2), s/veh	1.4	0.0	0.0	0.2	0.0	0.0		5.0	0.6	0.6	9.7	2.3	2.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.2	0.0	0.0	2.2	0.0	0.0		2.3	6.1	6.3	0.8	0.7	0.8
LnGrp Delay(d),s/veh	52.8	0.0	0.0	46.7	0.0	0.0		64.4	7.9	7.9	70.3	2.3	2.2
LnGrp LOS	D			D				E	A	A	E	A	A
Approach Vol, veh/h		210			70				941			1598	
Approach Delay, s/veh		52.8			46.7				11.8			3.2	
Approach LOS		D			D				B			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.2	90.8		24.9	6.5	94.5		24.9
Change Period (Y+Rc), s	4.4	* 5.8		4.9	4.4	5.8		4.9
Max Green Setting (Gmax), s	16.6	* 63		32.1	16.6	62.2		32.1
Max Q Clear Time (g_c+I1), s	6.5	2.0		18.9	3.5	14.0		6.8
Green Ext Time (p_c), s	0.0	27.6		0.6	0.0	9.3		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	10.8
HCM 2010 LOS	B

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	30	30	40	254	30	90	10	70	809	328	20	150	1184	60
Future Volume (veh/h)	30	30	40	254	30	90	10	70	809	328	20	150	1184	60
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.96		1.00		0.98		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h	37	37	37	270	32	68		78	899	276		161	1273	50
Adj No. of Lanes	0	1	0	0	1	1		1	3	0		1	3	0
Peak Hour Factor	0.81	0.81	0.81	0.94	0.94	0.94		0.90	0.90	0.90		0.93	0.93	0.93
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	34	33	17	259	25	532		191	1702	520		185	2165	85
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35		0.07	0.30	0.30		0.10	0.43	0.43
Sat Flow, veh/h	0	95	47	600	71	1517		1774	3838	1173		1774	5019	197
Grp Volume(v), veh/h	111	0	0	302	0	68		78	794	381		161	860	463
Grp Sat Flow(s),veh/h/ln	142	0	0	671	0	1517		1774	1695	1621		1774	1695	1826
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	4.3		5.9	27.3	27.5		12.5	27.0	27.1
Cycle Q Clear(g_c), s	49.1	0.0	0.0	49.1	0.0	4.3		5.9	27.3	27.5		12.5	27.0	27.1
Prop In Lane	0.33		0.33	0.89		1.00		1.00		0.72		1.00		0.11
Lane Grp Cap(c), veh/h	84	0	0	284	0	532		191	1504	719		185	1463	788
V/C Ratio(X)	1.32	0.00	0.00	1.06	0.00	0.13		0.41	0.53	0.53		0.87	0.59	0.59
Avail Cap(c_a), veh/h	84	0	0	284	0	532		198	1504	719		274	1463	788
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		0.67	0.67	0.67		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00		0.88	0.88	0.88		0.61	0.61	0.61
Uniform Delay (d), s/veh	42.1	0.0	0.0	49.7	0.0	30.9		60.7	37.0	37.0		61.8	30.3	30.3
Incr Delay (d2), s/veh	206.0	0.0	0.0	71.3	0.0	0.0		0.5	1.2	2.5		8.4	1.1	2.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.1	0.0	0.0	16.6	0.0	1.8		2.9	13.1	12.8		6.6	12.9	14.1
LnGrp Delay(d),s/veh	248.1	0.0	0.0	120.9	0.0	30.9		61.1	38.1	39.5		70.2	31.4	32.3
LnGrp LOS	F			F		C		E	D	D		E	C	C
Approach Vol, veh/h		111			370				1253				1484	
Approach Delay, s/veh		248.1			104.4				40.0				35.9	
Approach LOS		F			F				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	19.0	67.0		54.0	20.0	66.0		54.0
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 5.6		4.9
Max Green Setting (Gmax), s	21.6	35.1		49.1	15.6	* 60		49.1
Max Q Clear Time (g_c+I1), s	14.5	29.5		51.1	7.9	29.1		51.1
Green Ext Time (p_c), s	0.1	5.2		0.0	0.0	21.8		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	52.7
HCM 2010 LOS	D

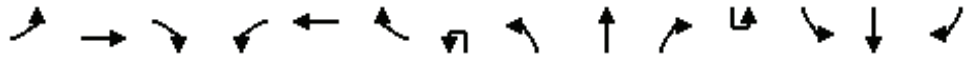
Notes

Intersection	
Intersection Delay, s/veh	15.3
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	72	50	248	101	20	110	40	119	10	90	10
Future Vol, veh/h	0	72	50	248	101	20	110	40	119	10	90	10
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	109	76	285	116	23	121	44	131	12	111	12
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11.2	19.3	13.9	11.3
HCM LOS	B	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	41%	0%	67%	9%
Vol Thru, %	15%	59%	27%	82%
Vol Right, %	44%	41%	5%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	269	122	369	110
LT Vol	110	0	248	10
Through Vol	40	72	101	90
RT Vol	119	50	20	10
Lane Flow Rate	296	185	424	136
Geometry Grp	1	1	1	1
Degree of Util (X)	0.472	0.294	0.665	0.235
Departure Headway (Hd)	5.751	5.734	5.646	6.225
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	621	621	636	572
Service Time	3.83	3.823	3.714	4.321
HCM Lane V/C Ratio	0.477	0.298	0.667	0.238
HCM Control Delay	13.9	11.2	19.3	11.3
HCM Lane LOS	B	B	C	B
HCM 95th-tile Q	2.5	1.2	5	0.9



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	105	55	200	110	58	140	20	257	910	170	10	190	1110	186
Future Volume (veh/h)	105	55	200	110	58	140	20	257	910	170	10	190	1110	186
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.98		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	112	59	173	120	63	110		282	1000	145		200	1168	156
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	248	103	302	194	151	264		443	2337	338		222	1393	604
Arrive On Green	0.25	0.25	0.25	0.25	0.25	0.25		0.25	0.52	0.52		0.25	0.79	0.79
Sat Flow, veh/h	1198	408	1197	1134	600	1047		1774	4480	648		1774	3539	1534
Grp Volume(v), veh/h	112	0	232	120	0	173		282	756	389		200	1168	156
Grp Sat Flow(s),veh/h/ln	1198	0	1605	1134	0	1647		1774	1695	1738		1774	1770	1534
Q Serve(g_s), s	12.1	0.0	17.7	14.5	0.0	12.3		19.9	19.2	19.3		15.3	28.9	3.8
Cycle Q Clear(g_c), s	24.4	0.0	17.7	32.2	0.0	12.3		19.9	19.2	19.3		15.3	28.9	3.8
Prop In Lane	1.00		0.75	1.00		0.64		1.00		0.37		1.00		1.00
Lane Grp Cap(c), veh/h	248	0	404	194	0	415		443	1768	906		222	1393	604
V/C Ratio(X)	0.45	0.00	0.57	0.62	0.00	0.42		0.64	0.43	0.43		0.90	0.84	0.26
Avail Cap(c_a), veh/h	375	0	574	314	0	589		443	1768	906		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.83	0.83	0.83
Uniform Delay (d), s/veh	54.0	0.0	45.8	59.9	0.0	43.8		46.9	20.6	20.6		51.6	12.1	9.4
Incr Delay (d2), s/veh	1.0	0.0	1.0	2.4	0.0	0.5		2.3	0.8	1.5		4.5	5.2	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.1	0.0	8.0	4.7	0.0	5.6		10.0	9.1	9.7		7.7	14.3	1.7
LnGrp Delay(d),s/veh	54.9	0.0	46.8	62.3	0.0	44.3		49.2	21.4	22.1		56.1	17.3	10.3
LnGrp LOS	D		D	E		D		D	C	C		E	B	B
Approach Vol, veh/h		344			293				1427				1524	
Approach Delay, s/veh		49.4			51.6				27.1				21.7	
Approach LOS		D			D				C				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	21.9	77.9		40.2	39.8	60.0		40.2
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	36.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	17.3	21.3		26.4	21.9	30.9		34.2
Green Ext Time (p_c), s	0.2	8.4		1.5	0.0	11.6		1.1

Intersection Summary	
HCM 2010 Ctrl Delay	28.9
HCM 2010 LOS	C

Notes

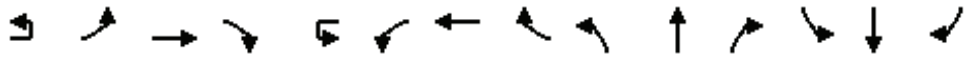


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1027	80	533	935	171	20	180	410	495	322	690	310
Future Volume (veh/h)	20	360	1027	80	533	935	171	20	180	410	495	322	690	310
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		375	1070	64	567	995	148		191	436	415	374	802	262
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		528	1119	67	577	1026	152		210	791	603	297	711	232
Arrive On Green		0.15	0.33	0.33	0.17	0.33	0.33		0.12	0.22	0.22	0.17	0.27	0.27
Sat Flow, veh/h		3442	3385	202	3442	3074	457		1774	3539	1509	1774	2606	851
Grp Volume(v), veh/h		375	559	575	567	572	571		191	436	415	374	544	520
Grp Sat Flow(s),veh/h/ln		1721	1770	1818	1721	1770	1762		1774	1770	1509	1774	1770	1688
Q Serve(g_s), s		18.5	55.3	55.4	29.4	57.0	57.1		19.0	19.5	40.0	30.0	48.8	48.8
Cycle Q Clear(g_c), s		18.5	55.3	55.4	29.4	57.0	57.1		19.0	19.5	40.0	30.0	48.8	48.8
Prop In Lane		1.00		0.11	1.00		0.26		1.00		1.00	1.00		0.50
Lane Grp Cap(c), veh/h		528	585	601	577	590	588		210	791	603	297	483	460
V/C Ratio(X)		0.71	0.96	0.96	0.98	0.97	0.97		0.91	0.55	0.69	1.26	1.13	1.13
Avail Cap(c_a), veh/h		577	593	610	577	593	591		297	791	603	297	483	460
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		72.0	58.6	58.6	74.2	58.7	58.8		77.9	61.5	45.8	74.5	65.1	65.1
Incr Delay (d2), s/veh		2.9	26.3	25.9	32.9	29.2	29.6		19.7	0.7	3.0	140.3	81.0	82.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.1	31.3	32.1	16.7	32.6	32.6		10.5	9.6	17.7	26.3	34.7	33.3
LnGrp Delay(d),s/veh		74.9	84.9	84.6	107.1	87.9	88.4		97.6	62.2	48.8	214.8	146.1	147.3
LnGrp LOS		E	F	F	F	F	F		F	E	D	F	F	F
Approach Vol, veh/h			1509			1710				1042			1438	
Approach Delay, s/veh			82.3			94.4				63.3			164.4	
Approach LOS			F			F				E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.4	64.9	25.6	54.1	33.1	66.1	34.4	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	31.4	57.4	21.0	50.8	20.5	59.1	32.0	42.0
Green Ext Time (p_c), s	0.0	1.8	0.2	0.0	0.5	0.6	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	103.2
HCM 2010 LOS	F

Notes

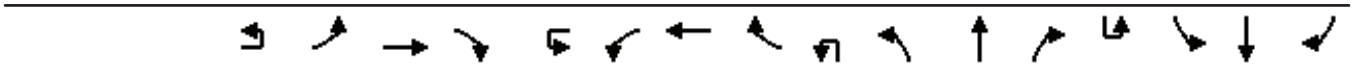


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	94	1500	180	50	150	1450	120	100	64	60	90	162	169
Future Volume (veh/h)	10	94	1500	180	50	150	1450	120	100	64	60	90	162	169
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		99	1579	145		160	1543	97	112	72	55	99	178	146
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		171	1418	129		172	1421	89	124	80	61	73	131	107
Arrive On Green		0.10	0.43	0.43		0.03	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3280	298		1774	3383	212	817	525	401	406	730	599
Grp Volume(v), veh/h		99	845	879		160	803	837	239	0	0	423	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1809		1774	1770	1825	1744	0	0	1736	0	0
Q Serve(g_s), s		7.5	60.5	60.5		12.6	58.8	58.8	18.9	0.0	0.0	25.1	0.0	0.0
Cycle Q Clear(g_c), s		7.5	60.5	60.5		12.6	58.8	58.8	18.9	0.0	0.0	25.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.12	0.47		0.23	0.23		0.35
Lane Grp Cap(c), veh/h		171	765	782		172	743	767	265	0	0	311	0	0
V/C Ratio(X)		0.58	1.10	1.12		0.93	1.08	1.09	0.90	0.00	0.00	1.36	0.00	0.00
Avail Cap(c_a), veh/h		171	765	782		172	743	767	313	0	0	311	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.09	0.09	0.09	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		60.5	39.7	39.7		67.3	60.3	60.3	58.3	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		3.2	65.2	72.0		8.4	39.1	43.4	23.1	0.0	0.0	181.3	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.8	43.4	45.8		6.6	36.9	39.0	10.8	0.0	0.0	27.7	0.0	0.0
LnGrp Delay(d),s/veh		63.7	104.9	111.8		75.7	99.4	103.7	81.4	0.0	0.0	238.7	0.0	0.0
LnGrp LOS		E	F	F		E	F	F	F			F		
Approach Vol, veh/h			1823				1800			239			423	
Approach Delay, s/veh			106.0				99.3			81.4			238.7	
Approach LOS			F				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	65.8		30.0	18.8	65.0		26.2
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	14.6	62.5		27.1	9.5	60.8		20.9
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	114.9
HCM 2010 LOS	F

Notes

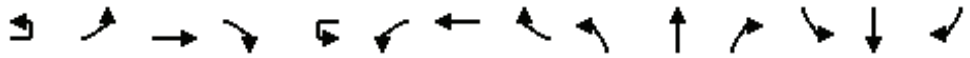


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	350	1040	280	10	330	1120	430	20	280	575	120	30	454	704	250
Future Volume (veh/h)	10	350	1040	280	10	330	1120	430	20	280	575	120	30	454	704	250
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.96		1.00		0.94
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		380	1130	231		367	1244	391		311	639	101		510	791	221
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		362	1033	210		494	1138	357		359	863	134		560	899	376
Arrive On Green		0.07	0.12	0.12		0.05	0.10	0.10		0.21	0.39	0.39		0.16	0.25	0.25
Sat Flow, veh/h		1774	2909	590		3442	3783	1187		3442	4413	687		3442	3539	1481
Grp Volume(v), veh/h		380	684	677		367	1114	521		311	489	251		510	791	221
Grp Sat Flow(s),veh/h/ln		1774	1770	1729		1721	1695	1580		1721	1695	1709		1721	1770	1481
Q Serve(g_s), s		28.6	49.7	49.7		14.7	42.1	42.1		12.2	17.3	17.8		20.4	30.1	18.3
Cycle Q Clear(g_c), s		28.6	49.7	49.7		14.7	42.1	42.1		12.2	17.3	17.8		20.4	30.1	18.3
Prop In Lane		1.00		0.34		1.00		0.75		1.00		0.40		1.00		1.00
Lane Grp Cap(c), veh/h		362	628	614		494	1020	475		359	663	334		560	899	376
V/C Ratio(X)		1.05	1.09	1.10		0.74	1.09	1.10		0.87	0.74	0.75		0.91	0.88	0.59
Avail Cap(c_a), veh/h		362	628	614		494	1020	475		556	753	380		629	899	376
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.81	0.81	0.81		0.91	0.91	0.91		1.00	1.00	1.00
Uniform Delay (d), s/veh		65.3	61.8	61.8		64.1	63.1	63.1		54.4	39.5	39.7		57.6	50.2	45.8
Incr Delay (d2), s/veh		29.1	43.2	48.6		4.3	54.6	65.8		5.1	3.8	8.1		15.4	10.4	3.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		17.0	31.9	32.1		7.3	27.5	27.1		6.0	8.4	9.1		10.9	16.0	7.9
LnGrp Delay(d),s/veh		94.4	105.0	110.4		68.4	117.6	128.8		59.6	43.3	47.8		73.0	60.6	49.0
LnGrp LOS		F	F	F		E	F	F		E	D	D		E	E	D
Approach Vol, veh/h			1741				2002				1051				1522	
Approach Delay, s/veh			104.8				111.5				49.2				63.0	
Approach LOS			F				F				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.5	55.0	19.0	40.5	33.0	47.5	27.2	32.3
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	14.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	16.7	51.7	14.2	32.1	30.6	44.1	22.4	19.8
Green Ext Time (p_c), s	0.0	0.0	0.4	1.5	0.0	0.0	0.4	5.3

Intersection Summary	
HCM 2010 Ctrl Delay	87.6
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	180	1234	160	40	160	1400	150	130	50	130	250	80	230
Future Volume (veh/h)	10	180	1234	160	40	160	1400	150	130	50	130	250	80	230
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.98	0.98		0.95	0.97		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		196	1341	146		163	1429	110	144	56	104	284	91	191
Adj No. of Lanes		2	3	0		2	3	0	1	1	1	1	1	1
Peak Hour Factor		0.92	0.92	0.92		0.98	0.98	0.98	0.90	0.90	0.90	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		242	2362	257		210	2399	185	378	394	317	420	405	333
Arrive On Green		0.14	1.00	1.00		0.12	1.00	1.00	0.08	0.21	0.21	0.08	0.22	0.22
Sat Flow, veh/h		3442	4648	506		3442	4810	370	1774	1863	1497	1774	1863	1531
Grp Volume(v), veh/h		196	978	509		163	1007	532	144	56	104	284	91	191
Grp Sat Flow(s),veh/h/ln		1721	1695	1764		1721	1695	1790	1774	1863	1497	1774	1863	1531
Q Serve(g_s), s		7.7	0.0	0.0		6.4	0.3	0.3	8.8	3.4	8.2	11.6	5.6	15.6
Cycle Q Clear(g_c), s		7.7	0.0	0.0		6.4	0.3	0.3	8.8	3.4	8.2	11.6	5.6	15.6
Prop In Lane		1.00		0.29		1.00		0.21	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		242	1723	896		210	1691	893	378	394	317	420	405	333
V/C Ratio(X)		0.81	0.57	0.57		0.78	0.60	0.60	0.38	0.14	0.33	0.68	0.22	0.57
Avail Cap(c_a), veh/h		334	1723	896		334	1691	893	388	573	461	420	573	471
HCM Platoon Ratio		2.00	2.00	2.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.54	0.54	0.54	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		59.2	0.0	0.0		60.5	0.1	0.1	38.7	44.9	46.8	43.4	45.1	49.0
Incr Delay (d2), s/veh		0.7	0.1	0.2		1.3	0.8	1.6	0.2	0.1	0.2	3.5	0.1	0.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	0.0	0.1		3.1	0.2	0.4	4.3	1.8	3.4	9.0	2.9	6.7
LnGrp Delay(d),s/veh		59.9	0.1	0.2		61.8	0.9	1.7	38.9	44.9	47.0	46.9	45.2	49.6
LnGrp LOS		E	A	A		E	A	A	D	D	D	D	D	D
Approach Vol, veh/h			1683				1702			304			566	
Approach Delay, s/veh			7.1				7.0			42.8			47.5	
Approach LOS			A				A			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.9	76.5	15.2	35.4	14.2	75.2	16.0	34.5
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	13.6	* 53	11.6	43.1	13.6	52.6	11.6	43.1
Max Q Clear Time (g_c+I1), s	9.4	2.0	10.8	17.6	9.7	2.3	13.6	10.2
Green Ext Time (p_c), s	0.1	28.7	0.0	0.7	0.1	20.1	0.0	0.4

Intersection Summary	
HCM 2010 Ctrl Delay	15.0
HCM 2010 LOS	B

Notes

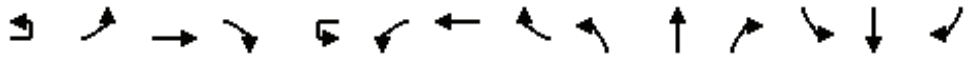


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations													
Traffic Volume (veh/h)	40	151	1303	130	340	1618	180	90	130	220	300	450	242
Future Volume (veh/h)	40	151	1303	130	340	1618	180	90	130	220	300	450	242
Number		5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.95	1.00		0.93	1.00		0.95
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900	1863	1863	1863	1863	1863	1863
Adj Flow Rate, veh/h		161	1386	108	370	1759	145	101	146	212	341	511	214
Adj No. of Lanes		1	3	0	1	3	0	2	1	1	2	2	1
Peak Hour Factor		0.94	0.94	0.94	0.92	0.92	0.92	0.89	0.89	0.89	0.88	0.88	0.88
Percent Heavy Veh, %		2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h		185	1610	125	396	2171	178	148	372	647	359	925	393
Arrive On Green		0.10	0.34	0.34	0.15	0.31	0.31	0.04	0.20	0.20	0.10	0.26	0.26
Sat Flow, veh/h		1774	4793	373	1774	4769	392	3442	1863	1466	3442	3539	1503
Grp Volume(v), veh/h		161	980	514	370	1249	655	101	146	212	341	511	214
Grp Sat Flow(s),veh/h/ln		1774	1695	1776	1774	1695	1771	1721	1863	1466	1721	1770	1503
Q Serve(g_s), s		12.5	37.8	37.8	28.9	47.6	47.9	4.1	9.5	13.7	13.8	17.4	17.2
Cycle Q Clear(g_c), s		12.5	37.8	37.8	28.9	47.6	47.9	4.1	9.5	13.7	13.8	17.4	17.2
Prop In Lane		1.00		0.21	1.00		0.22	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h		185	1139	597	396	1544	806	148	372	647	359	925	393
V/C Ratio(X)		0.87	0.86	0.86	0.93	0.81	0.81	0.68	0.39	0.33	0.95	0.55	0.54
Avail Cap(c_a), veh/h		236	1139	597	527	1544	806	310	494	742	359	988	420
HCM Platoon Ratio		1.00	1.00	1.00	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.78	0.78	0.78	0.51	0.51	0.51	0.54	0.54	0.54	1.00	1.00	1.00
Uniform Delay (d), s/veh		61.8	43.4	43.4	58.5	43.0	43.1	66.1	48.6	27.2	62.3	44.6	44.5
Incr Delay (d2), s/veh		16.8	6.9	12.2	10.8	2.5	4.7	1.1	0.1	0.1	34.3	0.3	0.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.0	18.8	20.6	15.4	22.8	24.5	2.0	4.9	5.5	8.3	8.6	7.2
LnGrp Delay(d),s/veh		78.7	50.3	55.7	69.3	45.5	47.8	67.2	48.8	27.3	96.6	44.9	45.1
LnGrp LOS		E	D	E	E	D	D	E	D	C	F	D	D
Approach Vol, veh/h			1655			2274			459			1066	
Approach Delay, s/veh			54.7			50.0			42.9			61.5	
Approach LOS			D			D			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.7	52.4	10.4	41.5	19.0	69.1	19.0	32.9
Change Period (Y+Rc), s	4.4	* 5.4	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	11.6	* 28	12.6	39.1	18.6	50.6	14.6	37.1
Max Q Clear Time (g_c+I1), s	10.9	39.8	6.1	19.4	14.5	49.9	15.8	15.7
Green Ext Time (p_c), s	0.4	0.0	0.1	2.7	0.1	0.7	0.0	0.9

Intersection Summary	
HCM 2010 Ctrl Delay	53.1
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	100	1633	100	10	130	2058	50	30	20	90	50	60	70
Future Volume (veh/h)	20	100	1633	100	10	130	2058	50	30	20	90	50	60	70
Number		5	2	12		1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		0.98	1.00		0.95	1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		109	1775	92		135	2144	43	33	22	73	60	71	65
Adj No. of Lanes		1	3	0		1	3	0	0	1	0	0	1	0
Peak Hour Factor		0.92	0.92	0.92		0.96	0.96	0.96	0.92	0.92	0.92	0.84	0.84	0.84
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		362	2608	135		157	2074	42	52	34	114	64	75	69
Arrive On Green		0.27	0.70	0.70		0.18	0.81	0.81	0.12	0.12	0.12	0.12	0.12	0.12
Sat Flow, veh/h		1774	4951	256		1774	5130	103	418	279	925	522	618	566
Grp Volume(v), veh/h		109	1215	652		135	1416	771	128	0	0	196	0	0
Grp Sat Flow(s),veh/h/ln		1774	1695	1817		1774	1695	1842	1623	0	0	1706	0	0
Q Serve(g_s), s		6.8	28.7	28.8		10.3	56.6	56.6	10.5	0.0	0.0	15.9	0.0	0.0
Cycle Q Clear(g_c), s		6.8	28.7	28.8		10.3	56.6	56.6	10.5	0.0	0.0	15.9	0.0	0.0
Prop In Lane		1.00		0.14		1.00		0.06	0.26		0.57	0.31		0.33
Lane Grp Cap(c), veh/h		362	1786	957		157	1371	745	200	0	0	208	0	0
V/C Ratio(X)		0.30	0.68	0.68		0.86	1.03	1.04	0.64	0.00	0.00	0.94	0.00	0.00
Avail Cap(c_a), veh/h		362	1786	957		248	1371	745	407	0	0	208	0	0
HCM Platoon Ratio		1.33	1.33	1.33		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.52	0.52	0.52		0.67	0.67	0.67	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		43.1	14.2	14.2		56.8	13.4	13.4	58.4	0.0	0.0	60.9	0.0	0.0
Incr Delay (d2), s/veh		0.1	1.1	2.0		6.9	28.9	36.6	1.3	0.0	0.0	45.2	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.4	13.6	14.8		5.3	30.2	34.5	4.8	0.0	0.0	10.1	0.0	0.0
LnGrp Delay(d),s/veh		43.2	15.3	16.3		63.7	42.3	50.0	59.7	0.0	0.0	106.1	0.0	0.0
LnGrp LOS		D	B	B		E	F	F	E			F		
Approach Vol, veh/h			1976				2322			128			196	
Approach Delay, s/veh			17.2				46.1			59.7			106.1	
Approach LOS			B				D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.8	79.1		22.2	33.8	62.0		22.0
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 5.4		4.9
Max Green Setting (Gmax), s	12.6	48.7		35.1	11.6	* 57		17.1
Max Q Clear Time (g_c+I1), s	12.3	30.8		12.5	8.8	58.6		17.9
Green Ext Time (p_c), s	0.1	15.6		0.5	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	36.6
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1523	180	440	2058	320	130	70	300	220	180	50
Future Volume (veh/h)	50	1523	180	440	2058	320	130	70	300	220	180	50
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	52	1570	141	454	2122	239	114	128	293	244	200	50
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	66	1944	174	400	3139	976	173	182	1011	191	154	38
Arrive On Green	0.07	0.86	0.86	0.23	0.62	0.62	0.10	0.10	0.10	0.11	0.11	0.11
Sat Flow, veh/h	1774	4533	407	1774	5085	1581	1774	1863	3036	1774	1424	356
Grp Volume(v), veh/h	52	1096	615	454	2122	239	114	128	293	244	0	250
Grp Sat Flow(s),veh/h/ln	1774	1583	1773	1774	1695	1581	1774	1863	1518	1774	0	1780
Q Serve(g_s), s	4.0	22.4	22.5	31.6	38.4	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Cycle Q Clear(g_c), s	4.0	22.4	22.5	31.6	38.4	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	66	1358	760	400	3139	976	173	182	1011	191	0	192
V/C Ratio(X)	0.78	0.81	0.81	1.13	0.68	0.24	0.66	0.70	0.29	1.28	0.00	1.30
Avail Cap(c_a), veh/h	134	1358	760	400	3139	976	318	334	1259	191	0	192
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.63	0.63	0.63	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	64.2	7.3	7.3	54.2	17.6	12.1	60.9	61.2	35.5	62.5	0.0	62.5
Incr Delay (d2), s/veh	4.7	3.3	5.9	86.7	1.2	0.6	3.2	3.7	0.1	158.0	0.0	168.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	9.8	11.5	25.1	18.2	4.3	4.4	5.0	4.3	15.8	0.0	16.4
LnGrp Delay(d),s/veh	68.9	10.6	13.1	140.9	18.8	12.7	64.1	64.9	35.6	220.5	0.0	231.1
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1763			2815			535			494	
Approach Delay, s/veh		13.2			38.0			48.7			225.8	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	65.5		20.0	9.6	91.8		18.5
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	13.6	24.5		17.1	6.0	40.4		12.1
Green Ext Time (p_c), s	0.0	19.2		0.0	0.0	24.4		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	47.8
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	0	2434	0	0	0	0	0	1	374
Future Volume (veh/h)	0	0	0	0	2434	0	0	0	0	0	1	374
Number				1	6	16				7	4	14
Initial Q (Qb), veh				0	0	0				0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00				1.00		0.98
Parking Bus, Adj				1.00	1.00	1.00				1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				0	1863	1863				0	1863	1863
Adj Flow Rate, veh/h				0	2535	0				0	1	411
Adj No. of Lanes				0	3	1				0	1	2
Peak Hour Factor				0.96	0.96	0.96				0.91	0.91	0.91
Percent Heavy Veh, %				0	2	2				0	2	2
Cap, veh/h				0	3373	1050				0	344	505
Arrive On Green				0.00	0.66	0.00				0.00	0.18	0.18
Sat Flow, veh/h				0	5253	1583				0	1863	2732
Grp Volume(v), veh/h				0	2535	0				0	1	411
Grp Sat Flow(s),veh/h/ln				0	1695	1583				0	1863	1366
Q Serve(g_s), s				0.0	19.8	0.0				0.0	0.0	8.6
Cycle Q Clear(g_c), s				0.0	19.8	0.0				0.0	0.0	8.6
Prop In Lane				0.00		1.00				0.00		1.00
Lane Grp Cap(c), veh/h				0	3373	1050				0	344	505
V/C Ratio(X)				0.00	0.75	0.00				0.00	0.00	0.81
Avail Cap(c_a), veh/h				0	4404	1371				0	1120	1642
HCM Platoon Ratio				1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)				0.00	1.00	0.00				0.00	1.00	1.00
Uniform Delay (d), s/veh				0.0	6.7	0.0				0.0	19.7	23.2
Incr Delay (d2), s/veh				0.0	0.4	0.0				0.0	0.0	1.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				0.0	9.0	0.0				0.0	0.0	3.3
LnGrp Delay(d),s/veh				0.0	7.0	0.0				0.0	19.7	24.4
LnGrp LOS					A						B	C
Approach Vol, veh/h					2535						412	
Approach Delay, s/veh					7.0						24.4	
Approach LOS					A						C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs				4		6		
Phs Duration (G+Y+Rc), s				15.4		43.8		
Change Period (Y+Rc), s				4.5		4.5		
Max Green Setting (Gmax), s				35.6		51.3		
Max Q Clear Time (g_c+I1), s				10.6		21.8		
Green Ext Time (p_c), s				0.4		17.5		

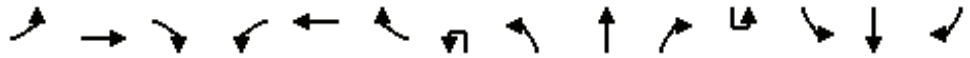
Intersection Summary	
HCM 2010 Ctrl Delay	9.5
HCM 2010 LOS	A



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	1576	410	0	0	0	0	1	510	0	0	0
Future Volume (veh/h)	0	1576	410	0	0	0	0	1	510	0	0	0
Number	5	2	12				3	8	18			
Initial Q (Qb), veh	0	0	0				0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97			
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00			
Adj Sat Flow, veh/h/ln	0	1863	1863				0	1863	1863			
Adj Flow Rate, veh/h	0	1659	0				0	1	560			
Adj No. of Lanes	0	3	1				0	1	2			
Peak Hour Factor	0.95	0.95	0.95				0.91	0.91	0.91			
Percent Heavy Veh, %	0	2	2				0	2	2			
Cap, veh/h	0	2524	786				0	495	718			
Arrive On Green	0.00	0.50	0.00				0.00	0.27	0.27			
Sat Flow, veh/h	0	5253	1583				0	1863	2702			
Grp Volume(v), veh/h	0	1659	0				0	1	560			
Grp Sat Flow(s),veh/h/ln	0	1695	1583				0	1863	1351			
Q Serve(g_s), s	0.0	11.2	0.0				0.0	0.0	8.8			
Cycle Q Clear(g_c), s	0.0	11.2	0.0				0.0	0.0	8.8			
Prop In Lane	0.00		1.00				0.00		1.00			
Lane Grp Cap(c), veh/h	0	2524	786				0	495	718			
V/C Ratio(X)	0.00	0.66	0.00				0.00	0.00	0.78			
Avail Cap(c_a), veh/h	0	5544	1726				0	1828	2651			
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00				0.00	1.00	1.00			
Uniform Delay (d), s/veh	0.0	8.6	0.0				0.0	12.4	15.6			
Incr Delay (d2), s/veh	0.0	0.1	0.0				0.0	0.0	0.7			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	5.1	0.0				0.0	0.0	3.3			
LnGrp Delay(d),s/veh	0.0	8.7	0.0				0.0	12.4	16.3			
LnGrp LOS		A						B	B			
Approach Vol, veh/h		1659						561				
Approach Delay, s/veh		8.7						16.3				
Approach LOS		A						B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2						8
Phs Duration (G+Y+Rc), s		28.6						17.3
Change Period (Y+Rc), s		5.8						5.1
Max Green Setting (Gmax), s		50.0						45.0
Max Q Clear Time (g_c+I1), s		13.2						10.8
Green Ext Time (p_c), s		9.6						1.4

Intersection Summary	
HCM 2010 Ctrl Delay	10.6
HCM 2010 LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	190	270	140	380	360	142	10	110	612	190	10	111	1062	270
Future Volume (veh/h)	190	270	140	380	360	142	10	110	612	190	10	111	1062	270
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.95	1.00		0.95		1.00		0.94		1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1863	1900	1900	1863	1863		1863	1863	1863		1863	1863	1863
Adj Flow Rate, veh/h	211	300	117	447	424	129		115	638	151		114	1095	214
Adj No. of Lanes	0	2	0	0	2	1		1	3	1		1	2	1
Peak Hour Factor	0.90	0.90	0.90	0.85	0.85	0.85		0.96	0.96	0.96		0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	238	356	144	445	444	379		134	1398	409		213	1157	509
Arrive On Green	0.21	0.21	0.21	0.25	0.25	0.25		0.08	0.28	0.28		0.12	0.33	0.33
Sat Flow, veh/h	1131	1693	684	1774	1770	1511		1774	5085	1487		1774	3539	1556
Grp Volume(v), veh/h	337	0	291	447	424	129		115	638	151		114	1095	214
Grp Sat Flow(s),veh/h/ln	1806	0	1701	1774	1770	1511		1774	1695	1487		1774	1770	1556
Q Serve(g_s), s	25.4	0.0	22.8	35.1	33.1	9.8		9.0	14.6	11.5		8.5	42.2	15.0
Cycle Q Clear(g_c), s	25.4	0.0	22.8	35.1	33.1	9.8		9.0	14.6	11.5		8.5	42.2	15.0
Prop In Lane	0.63		0.40	1.00		1.00		1.00		1.00		1.00		1.00
Lane Grp Cap(c), veh/h	379	0	357	445	444	379		134	1398	409		213	1157	509
V/C Ratio(X)	0.89	0.00	0.81	1.00	0.96	0.34		0.86	0.46	0.37		0.54	0.95	0.42
Avail Cap(c_a), veh/h	401	0	378	445	444	379		134	1398	409		213	1157	509
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	0.49	0.49	0.49		1.00	1.00	1.00		0.19	0.19	0.19
Uniform Delay (d), s/veh	53.7	0.0	52.7	52.5	51.7	43.0		63.9	42.1	41.0		57.9	45.9	36.8
Incr Delay (d2), s/veh	19.2	0.0	11.2	31.0	19.7	0.1		37.2	1.1	2.6		0.3	4.3	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.7	0.0	11.9	21.0	18.6	4.1		5.8	6.9	5.0		4.2	21.4	6.5
LnGrp Delay(d),s/veh	72.9	0.0	63.9	83.5	71.4	43.1		101.2	43.1	43.5		58.2	50.2	37.2
LnGrp LOS	E		E	F	E	D		F	D	D		E	D	D
Approach Vol, veh/h		628			1000				904				1423	
Approach Delay, s/veh		68.7			73.2				50.6				48.9	
Approach LOS		E			E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	21.7	44.0		34.3	15.0	50.7		40.0
Change Period (Y+Rc), s	4.9	* 5.5		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	15.6	* 39		31.1	10.6	44.1		35.1
Max Q Clear Time (g_c+I1), s	10.5	16.6		27.4	11.0	44.2		37.1
Green Ext Time (p_c), s	0.1	6.2		1.0	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	58.6
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	3.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	155	46	161	341	28	100
Future Vol, veh/h	155	46	161	341	28	100
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	168	50	175	371	30	109

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	218	0	914	193
Stage 1	-	-	-	-	193	-
Stage 2	-	-	-	-	721	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1352	-	303	849
Stage 1	-	-	-	-	840	-
Stage 2	-	-	-	-	482	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1352	-	254	849
Mov Cap-2 Maneuver	-	-	-	-	254	-
Stage 1	-	-	-	-	703	-
Stage 2	-	-	-	-	482	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2.6	13.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	561	-	-	1352	-
HCM Lane V/C Ratio	0.248	-	-	0.129	-
HCM Control Delay (s)	13.5	-	-	8.1	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	1	-	-	0.4	-

Appendix L
Trigger Analysis and Peak Hour Intersection LOS Worksheets – Horizon Year 2050 Plus Project with Mitigation Conditions

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	210	440	192	10	190	550	360	244	1240	90	10
Future Volume (veh/h)	10	210	440	192	10	190	550	360	244	1240	90	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.97	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		221	463	161		204	591	284	252	1278	72	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		285	854	294		622	1001	481	313	1105	62	
Arrive On Green		0.08	0.33	0.33		0.18	0.44	0.44	0.12	0.43	0.43	
Sat Flow, veh/h		3442	2562	883		3442	2293	1101	3442	3401	191	
Grp Volume(v), veh/h		221	318	306		204	456	419	252	664	686	
Grp Sat Flow(s),veh/h/ln		1721	1770	1675		1721	1770	1625	1721	1770	1822	
Q Serve(g_s), s		6.8	15.8	16.1		5.6	21.1	21.2	7.7	35.1	35.1	
Cycle Q Clear(g_c), s		6.8	15.8	16.1		5.6	21.1	21.2	7.7	35.1	35.1	
Prop In Lane		1.00		0.53		1.00		0.68	1.00		0.10	
Lane Grp Cap(c), veh/h		285	590	558		622	773	709	313	575	592	
V/C Ratio(X)		0.77	0.54	0.55		0.33	0.59	0.59	0.80	1.15	1.16	
Avail Cap(c_a), veh/h		433	590	558		622	773	709	402	575	592	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.54	0.54	0.54	
Uniform Delay (d), s/veh		48.5	29.3	29.4		38.5	23.1	23.1	46.5	30.7	30.7	
Incr Delay (d2), s/veh		2.1	3.5	3.8		0.1	3.3	3.6	3.8	80.4	81.7	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	8.3	8.0		2.7	11.0	10.1	3.8	29.9	31.0	
LnGrp Delay(d),s/veh		50.6	32.8	33.2		38.6	26.4	26.7	50.4	111.1	112.3	
LnGrp LOS		D	C	C		D	C	C	D	F	F	
Approach Vol, veh/h			845				1079			1602		
Approach Delay, s/veh			37.6				28.8			102.1		
Approach LOS			D				C			F		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.6	41.0	14.2	40.3	13.4	52.3	14.5	40.0
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	7.6	18.1	9.7	23.6	8.8	23.2	11.6	37.1
Green Ext Time (p_c), s	0.0	3.9	0.1	2.0	0.2	3.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	68.0
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	190	536	190
Future Volume (veh/h)	190	536	190
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	216	609	182
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	158	871	260
Arrive On Green	0.09	0.33	0.33
Sat Flow, veh/h	1774	2659	793
Grp Volume(v), veh/h	216	405	386
Grp Sat Flow(s),veh/h/ln	1774	1770	1683
Q Serve(g_s), s	9.6	21.5	21.6
Cycle Q Clear(g_c), s	9.6	21.5	21.6
Prop In Lane	1.00		0.47
Lane Grp Cap(c), veh/h	158	579	551
V/C Ratio(X)	1.37	0.70	0.70
Avail Cap(c_a), veh/h	158	579	551
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.2	31.7	31.7
Incr Delay (d2), s/veh	201.3	3.1	3.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.5	11.0	10.6
LnGrp Delay(d),s/veh	250.5	34.8	35.1
LnGrp LOS	F	C	D
Approach Vol, veh/h		1007	
Approach Delay, s/veh		81.2	
Approach LOS		F	
Timer			

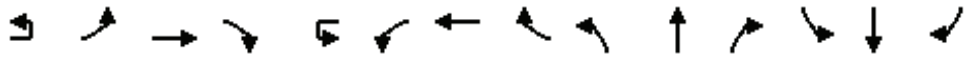


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	10	210	878	90	435	853	182	20	270	530	492	10	221	310	310
Future Volume (veh/h)	10	210	878	90	435	853	182	20	270	530	492	10	221	310	310
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		219	915	71	463	907	163		325	639	593		243	341	244
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		396	1047	81	513	1005	180		343	913	644		265	418	292
Arrive On Green		0.11	0.32	0.32	0.15	0.34	0.34		0.19	0.26	0.26		0.15	0.21	0.21
Sat Flow, veh/h		3442	3313	257	3442	2979	535		1774	3539	1583		1774	1956	1366
Grp Volume(v), veh/h		219	489	497	463	539	531		325	639	593		243	308	277
Grp Sat Flow(s),veh/h/ln		1721	1770	1801	1721	1770	1744		1774	1770	1583		1774	1770	1552
Q Serve(g_s), s		9.3	40.5	40.5	20.5	45.0	45.0		28.1	25.4	40.0		20.9	25.7	26.5
Cycle Q Clear(g_c), s		9.3	40.5	40.5	20.5	45.0	45.0		28.1	25.4	40.0		20.9	25.7	26.5
Prop In Lane		1.00		0.14	1.00		0.31		1.00		1.00		1.00		0.88
Lane Grp Cap(c), veh/h		396	559	569	513	597	588		343	913	644		265	378	332
V/C Ratio(X)		0.55	0.87	0.87	0.90	0.90	0.90		0.95	0.70	0.92		0.92	0.81	0.84
Avail Cap(c_a), veh/h		666	685	697	666	685	675		343	913	644		343	456	400
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.9	50.1	50.1	64.9	49.0	49.0		61.7	52.1	43.6		65.0	58.0	58.4
Incr Delay (d2), s/veh		0.5	10.8	10.6	11.4	14.1	14.3		34.5	2.2	18.4		22.0	8.7	11.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.5	21.5	21.8	10.6	24.3	24.0		17.0	12.7	27.3		11.9	13.5	12.5
LnGrp Delay(d),s/veh		65.3	60.9	60.7	76.3	63.0	63.3		96.3	54.3	62.0		87.1	66.7	70.1
LnGrp LOS		E	E	E	E	E	E		F	D	E		F	E	E
Approach Vol, veh/h			1205			1533				1557				828	
Approach Delay, s/veh			61.6			67.1				66.0				73.8	
Approach LOS			E			E				E				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.5	54.7	34.4	38.4	23.5	58.7	27.5	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I2), s	22.5	42.5	30.1	28.5	11.3	47.0	22.9	42.0
Green Ext Time (p_c), s	0.6	6.6	0.0	2.4	0.3	5.3	0.2	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	66.6
HCM 2010 LOS	E

Notes

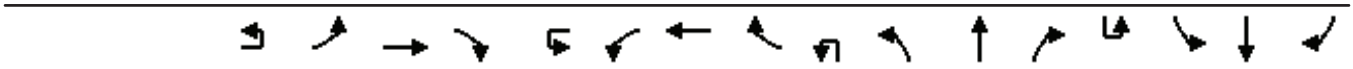


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	73	1300	140	10	180	1160	130	250	100	130	100	121	100
Future Volume (veh/h)	20	73	1300	140	10	180	1160	130	250	100	130	100	121	100
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		83	1477	129		222	1432	125	368	147	154	127	153	102
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		103	1818	158		122	1852	161	240	96	101	116	140	93
Arrive On Green		0.06	0.55	0.55		0.02	0.19	0.19	0.25	0.25	0.25	0.20	0.20	0.20
Sat Flow, veh/h		1774	3288	285		1774	3289	285	959	383	401	579	698	465
Grp Volume(v), veh/h		83	790	816		222	766	791	669	0	0	382	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1803		1774	1770	1805	1743	0	0	1743	0	0
Q Serve(g_s), s		6.5	50.5	51.7		9.6	57.6	58.4	35.1	0.0	0.0	28.1	0.0	0.0
Cycle Q Clear(g_c), s		6.5	50.5	51.7		9.6	57.6	58.4	35.1	0.0	0.0	28.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.16	0.55		0.23	0.33		0.27
Lane Grp Cap(c), veh/h		103	978	997		122	997	1016	437	0	0	350	0	0
V/C Ratio(X)		0.80	0.81	0.82		1.82	0.77	0.78	1.53	0.00	0.00	1.09	0.00	0.00
Avail Cap(c_a), veh/h		122	978	997		122	997	1016	437	0	0	350	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.47	0.47	0.47	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		65.1	25.3	25.6		68.4	48.3	48.6	52.5	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		23.5	7.1	7.5		386.1	2.8	2.8	250.1	0.0	0.0	75.1	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.9	26.5	27.7		17.8	29.0	30.0	47.2	0.0	0.0	20.8	0.0	0.0
LnGrp Delay(d),s/veh		88.7	32.4	33.0		454.5	51.1	51.5	302.5	0.0	0.0	131.1	0.0	0.0
LnGrp LOS		F	C	C		F	D	D	F			F		
Approach Vol, veh/h			1689				1779			669			382	
Approach Delay, s/veh			35.5				101.6			302.5			131.1	
Approach LOS			D				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	84.5		33.0	12.5	86.0		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	11.6	53.7		30.1	8.5	60.4		37.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	109.1
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	230	1060	300	10	110	860	357	10	300	797	80	10	291	462	220
Future Volume (veh/h)	10	230	1060	300	10	110	860	357	10	300	797	80	10	291	462	220
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		258	1191	249		126	989	321		319	848	64		334	531	196
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		390	1419	294		175	1175	381		364	1044	78		376	778	339
Arrive On Green		0.29	0.65	0.65		0.03	0.21	0.21		0.21	0.43	0.43		0.18	0.37	0.37
Sat Flow, veh/h		1774	2911	603		3442	3772	1223		3442	4819	362		3442	3539	1542
Grp Volume(v), veh/h		258	720	720		126	889	421		319	596	316		334	531	196
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1605		1721	1695	1792		1721	1770	1542
Q Serve(g_s), s		17.9	43.6	45.0		5.1	35.2	35.3		12.6	21.5	21.7		13.3	17.7	8.9
Cycle Q Clear(g_c), s		17.9	43.6	45.0		5.1	35.2	35.3		12.6	21.5	21.7		13.3	17.7	8.9
Prop In Lane		1.00		0.35		1.00		0.76		1.00		0.20		1.00		1.00
Lane Grp Cap(c), veh/h		390	863	851		175	1056	500		364	734	388		376	778	339
V/C Ratio(X)		0.66	0.83	0.85		0.72	0.84	0.84		0.88	0.81	0.82		0.89	0.68	0.58
Avail Cap(c_a), veh/h		390	863	851		383	1056	500		457	826	436		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		0.67	0.67	0.67		2.00	2.00	2.00		1.67	1.67	1.67
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.85	0.85	0.85		1.00	1.00	1.00
Uniform Delay (d), s/veh		44.9	20.3	20.5		66.6	52.1	52.1		54.3	37.2	37.2		56.4	40.2	15.2
Incr Delay (d2), s/veh		0.3	0.9	1.0		1.9	7.5	14.6		11.0	5.5	10.3		20.7	2.9	3.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		8.7	21.3	21.6		2.5	17.6	17.7		6.5	10.5	11.7		7.3	8.9	5.1
LnGrp Delay(d),s/veh		45.3	21.2	21.6		68.5	59.5	66.7		65.3	42.7	47.5		77.1	43.0	18.5
LnGrp LOS		D	C	C		E	E	E		E	D	D		E	D	B
Approach Vol, veh/h			1698				1436				1231				1061	
Approach Delay, s/veh			25.0				62.4				49.8				49.2	
Approach LOS			C				E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.5	73.6	19.2	35.7	36.1	49.0	19.7	35.2
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	17.1	47.0	14.6	19.7	19.9	37.3	15.3	23.7
Green Ext Time (p_c), s	0.1	5.9	0.3	4.8	0.2	3.9	0.0	5.9

Intersection Summary	
HCM 2010 Ctrl Delay	45.3
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1907	140	400	1346	310	110	120	640	290	180	20
Future Volume (veh/h)	20	1907	140	400	1346	310	110	120	640	290	180	20
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1966	107	435	1463	249	126	138	644	322	200	20
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1865	101	350	2847	867	255	267	1064	293	274	27
Arrive On Green	0.03	0.76	0.76	0.20	0.56	0.56	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4928	267	1774	5085	1549	1774	1863	3066	1774	1661	166
Grp Volume(v), veh/h	21	1350	723	435	1463	249	126	138	644	322	0	220
Grp Sat Flow(s),veh/h/ln	1774	1695	1805	1774	1695	1549	1774	1863	1533	1774	0	1827
Q Serve(g_s), s	1.6	53.0	53.0	27.6	24.9	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Cycle Q Clear(g_c), s	1.6	53.0	53.0	27.6	24.9	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	28	1283	683	350	2847	867	255	267	1064	293	0	301
V/C Ratio(X)	0.74	1.05	1.06	1.24	0.51	0.29	0.49	0.52	0.61	1.10	0.00	0.73
Avail Cap(c_a), veh/h	274	1283	683	350	2847	867	255	267	1064	293	0	301
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.19	0.19	0.19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	17.0	17.0	56.2	19.0	16.2	55.3	55.5	38.5	58.4	0.0	55.5
Incr Delay (d2), s/veh	2.7	27.9	33.2	131.6	0.7	0.8	1.1	1.3	0.9	82.1	0.0	7.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	28.5	31.4	26.3	11.8	5.3	4.6	5.0	10.5	18.0	0.0	8.7
LnGrp Delay(d),s/veh	70.2	44.9	50.2	187.8	19.7	17.0	56.4	56.8	39.4	140.5	0.0	63.1
LnGrp LOS	E	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2094			2147			908			542	
Approach Delay, s/veh		47.0			53.5			44.4			109.1	
Approach LOS		D			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.0	58.5		25.0	6.6	83.9		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	7.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	3.6	26.9		25.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.7		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	54.9
HCM 2010 LOS	D

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	150	670	261	20	210	750	140	271	474	140	10
Future Volume (veh/h)	10	150	670	261	20	210	750	140	271	474	140	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		167	744	207		226	806	117	288	504	115	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		222	1127	314		281	1339	194	343	654	148	
Arrive On Green		0.06	0.42	0.42		0.08	0.43	0.43	0.13	0.31	0.31	
Sat Flow, veh/h		3442	2713	755		3442	3094	449	3442	2834	642	
Grp Volume(v), veh/h		167	485	466		226	461	462	288	313	306	
Grp Sat Flow(s),veh/h/ln		1721	1770	1699		1721	1770	1773	1721	1770	1707	
Q Serve(g_s), s		6.0	27.8	27.8		8.1	25.2	25.2	10.3	20.2	20.5	
Cycle Q Clear(g_c), s		6.0	27.8	27.8		8.1	25.2	25.2	10.3	20.2	20.5	
Prop In Lane		1.00		0.44		1.00		0.25	1.00		0.38	
Lane Grp Cap(c), veh/h		222	735	706		281	766	767	343	408	394	
V/C Ratio(X)		0.75	0.66	0.66		0.80	0.60	0.60	0.84	0.77	0.78	
Avail Cap(c_a), veh/h		399	735	706		399	766	767	481	479	462	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.95	0.95	0.95	
Uniform Delay (d), s/veh		57.9	29.7	29.7		56.9	27.4	27.4	53.7	40.6	40.7	
Incr Delay (d2), s/veh		1.9	4.6	4.8		5.0	3.5	3.5	6.3	4.8	5.4	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.9	14.6	14.0		4.1	13.0	13.1	5.2	10.4	10.3	
LnGrp Delay(d),s/veh		59.9	34.3	34.5		61.9	30.9	30.9	60.0	45.4	46.1	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1118				1149			907		
Approach Delay, s/veh			38.2				37.0			50.3		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.7	57.3	17.0	37.0	12.5	59.5	20.0	34.0
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	10.1	29.8	12.3	34.1	8.0	27.2	16.9	22.5
Green Ext Time (p_c), s	0.2	5.4	0.3	0.0	0.1	5.6	0.0	1.8

Intersection Summary	
HCM 2010 Ctrl Delay	97.1
HCM 2010 LOS	F

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	200	1077	150
Future Volume (veh/h)	200	1077	150
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	211	1134	126
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	220	815	90
Arrive On Green	0.12	0.25	0.25
Sat Flow, veh/h	1774	3197	354
Grp Volume(v), veh/h	211	627	633
Grp Sat Flow(s),veh/h/ln	1774	1770	1782
Q Serve(g_s), s	14.9	32.1	32.1
Cycle Q Clear(g_c), s	14.9	32.1	32.1
Prop In Lane	1.00		0.20
Lane Grp Cap(c), veh/h	220	451	454
V/C Ratio(X)	0.96	1.39	1.40
Avail Cap(c_a), veh/h	220	451	454
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.9	47.0	47.0
Incr Delay (d2), s/veh	49.2	188.7	190.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.3	39.3	39.8
LnGrp Delay(d),s/veh	104.0	235.6	237.8
LnGrp LOS	F	F	F
Approach Vol, veh/h		1471	
Approach Delay, s/veh		217.7	
Approach LOS		F	
Timer			

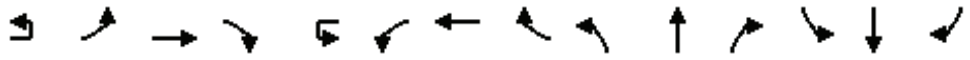


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1012	80	531	926	170	20	180	410	492	321	690	310
Future Volume (veh/h)	20	360	1012	80	531	926	170	20	180	410	492	321	690	310
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		375	1054	64	565	985	147		191	436	411	373	802	262
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		526	1112	67	579	1022	152		210	793	604	298	713	233
Arrive On Green		0.15	0.33	0.33	0.17	0.33	0.33		0.12	0.22	0.22	0.17	0.27	0.27
Sat Flow, veh/h		3442	3382	205	3442	3073	458		1774	3539	1509	1774	2606	851
Grp Volume(v), veh/h		375	551	567	565	567	565		191	436	411	373	544	520
Grp Sat Flow(s),veh/h/ln		1721	1770	1818	1721	1770	1761		1774	1770	1509	1774	1770	1688
Q Serve(g_s), s		18.5	54.2	54.3	29.2	56.1	56.3		19.0	19.5	40.0	30.0	48.9	48.9
Cycle Q Clear(g_c), s		18.5	54.2	54.3	29.2	56.1	56.3		19.0	19.5	40.0	30.0	48.9	48.9
Prop In Lane		1.00		0.11	1.00		0.26		1.00		1.00	1.00		0.50
Lane Grp Cap(c), veh/h		526	582	598	579	589	586		210	793	604	298	484	462
V/C Ratio(X)		0.71	0.95	0.95	0.98	0.96	0.96		0.91	0.55	0.68	1.25	1.12	1.12
Avail Cap(c_a), veh/h		579	595	611	579	595	592		298	793	604	298	484	462
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		71.9	58.4	58.4	73.9	58.5	58.5		77.7	61.3	45.3	74.2	64.8	64.8
Incr Delay (d2), s/veh		2.9	24.5	24.2	31.3	27.7	28.1		19.5	0.6	2.8	137.6	79.4	80.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.0	30.5	31.2	16.4	31.9	31.9		10.5	9.6	17.4	26.1	34.5	33.1
LnGrp Delay(d),s/veh		74.8	82.9	82.6	105.2	86.1	86.6		97.2	61.9	48.1	211.8	144.2	145.4
LnGrp LOS		E	F	F	F	F	F		F	E	D	F	F	F
Approach Vol, veh/h			1493			1697				1038			1437	
Approach Delay, s/veh			80.7			92.6				63.0			162.2	
Approach LOS			F			F				E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	34.4	64.4	25.5	54.2	33.0	65.8	34.4	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	31.2	56.3	21.0	50.9	20.5	58.3	32.0	42.0
Green Ext Time (p_c), s	0.0	2.4	0.2	0.0	0.5	1.1	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	101.7
HCM 2010 LOS	F

Notes

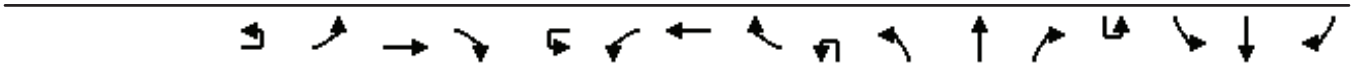


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	68	1500	180	50	150	1450	120	100	61	60	90	160	155
Future Volume (veh/h)	10	68	1500	180	50	150	1450	120	100	61	60	90	160	155
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		72	1579	145		160	1543	97	112	69	55	99	176	130
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		174	1423	129		172	1421	89	125	77	61	76	136	100
Arrive On Green		0.10	0.43	0.43		0.03	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3280	298		1774	3383	212	827	509	406	426	757	559
Grp Volume(v), veh/h		72	845	879		160	803	837	236	0	0	405	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1809		1774	1770	1825	1742	0	0	1742	0	0
Q Serve(g_s), s		5.3	60.7	60.7		12.6	58.8	58.8	18.6	0.0	0.0	25.1	0.0	0.0
Cycle Q Clear(g_c), s		5.3	60.7	60.7		12.6	58.8	58.8	18.6	0.0	0.0	25.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.12	0.47		0.23	0.24		0.32
Lane Grp Cap(c), veh/h		174	767	785		172	743	767	262	0	0	312	0	0
V/C Ratio(X)		0.41	1.10	1.12		0.93	1.08	1.09	0.90	0.00	0.00	1.30	0.00	0.00
Avail Cap(c_a), veh/h		174	767	785		172	743	767	312	0	0	312	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.09	0.09	0.09	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		59.4	39.6	39.6		67.3	60.3	60.3	58.4	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		0.6	63.7	70.5		8.4	39.1	43.4	22.5	0.0	0.0	155.3	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.6	43.2	45.7		6.6	36.9	39.0	10.6	0.0	0.0	25.5	0.0	0.0
LnGrp Delay(d),s/veh		60.0	103.4	110.2		75.7	99.4	103.7	80.9	0.0	0.0	212.8	0.0	0.0
LnGrp LOS		E	F	F		E	F	F	F			F		
Approach Vol, veh/h			1796				1800			236			405	
Approach Delay, s/veh			104.9				99.3			80.9			212.8	
Approach LOS			F				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	66.0		30.0	19.0	65.0		26.0
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	14.6	62.7		27.1	7.3	60.8		20.6
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	111.5
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	350	1040	280	10	330	1120	382	20	280	555	120	30	427	693	250
Future Volume (veh/h)	10	350	1040	280	10	330	1120	382	20	280	555	120	30	427	693	250
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		380	1130	231		367	1244	337		311	617	101		480	779	221
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		362	1033	210		531	1225	332		359	848	137		532	862	360
Arrive On Green		0.07	0.12	0.12		0.05	0.10	0.10		0.21	0.39	0.39		0.15	0.24	0.24
Sat Flow, veh/h		1774	2909	590		3442	3936	1065		3442	4389	706		3442	3539	1477
Grp Volume(v), veh/h		380	684	677		367	1071	510		311	474	244		480	779	221
Grp Sat Flow(s),veh/h/ln		1774	1770	1729		1721	1695	1611		1721	1695	1705		1721	1770	1477
Q Serve(g_s), s		28.6	49.7	49.7		14.7	43.6	43.6		12.2	16.7	17.2		19.2	29.9	18.6
Cycle Q Clear(g_c), s		28.6	49.7	49.7		14.7	43.6	43.6		12.2	16.7	17.2		19.2	29.9	18.6
Prop In Lane		1.00		0.34		1.00		0.66		1.00		0.41		1.00		1.00
Lane Grp Cap(c), veh/h		362	628	614		531	1055	501		359	655	330		532	862	360
V/C Ratio(X)		1.05	1.09	1.10		0.69	1.02	1.02		0.87	0.72	0.74		0.90	0.90	0.61
Avail Cap(c_a), veh/h		362	628	614		531	1055	501		556	753	379		629	862	360
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.81	0.81	0.81		0.91	0.91	0.91		1.00	1.00	1.00
Uniform Delay (d), s/veh		65.3	61.8	61.8		63.2	62.8	62.8		54.4	39.7	39.9		58.1	51.4	47.1
Incr Delay (d2), s/veh		29.1	43.2	48.6		2.6	28.8	40.2		5.1	3.5	7.5		13.4	13.2	4.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		17.0	31.9	32.1		7.2	24.7	25.1		6.0	8.1	8.7		10.1	16.2	8.0
LnGrp Delay(d),s/veh		94.4	105.0	110.4		65.8	91.6	103.1		59.6	43.2	47.4		71.6	64.5	51.1
LnGrp LOS		F	F	F		E	F	F		E	D	D		E	E	D
Approach Vol, veh/h			1741				1948				1029				1480	
Approach Delay, s/veh			104.8				89.7				49.1				64.8	
Approach LOS			F				F				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.0	55.0	19.0	39.0	33.0	49.0	26.1	32.0
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	14.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	16.7	51.7	14.2	31.9	30.6	45.6	21.2	19.2
Green Ext Time (p_c), s	0.0	0.0	0.4	1.6	0.0	0.0	0.5	5.3

Intersection Summary	
HCM 2010 Ctrl Delay	81.3
HCM 2010 LOS	F

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1523	180	440	2058	320	130	70	300	220	180	50
Future Volume (veh/h)	50	1523	180	440	2058	320	130	70	300	220	180	50
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	52	1570	141	454	2122	239	114	128	293	244	200	50
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	66	1944	174	400	3139	976	173	182	1011	191	154	38
Arrive On Green	0.07	0.86	0.86	0.23	0.62	0.62	0.10	0.10	0.10	0.11	0.11	0.11
Sat Flow, veh/h	1774	4533	407	1774	5085	1581	1774	1863	3036	1774	1424	356
Grp Volume(v), veh/h	52	1096	615	454	2122	239	114	128	293	244	0	250
Grp Sat Flow(s),veh/h/ln	1774	1583	1773	1774	1695	1581	1774	1863	1518	1774	0	1780
Q Serve(g_s), s	4.0	22.4	22.5	31.6	38.4	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Cycle Q Clear(g_c), s	4.0	22.4	22.5	31.6	38.4	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	66	1358	760	400	3139	976	173	182	1011	191	0	192
V/C Ratio(X)	0.78	0.81	0.81	1.13	0.68	0.24	0.66	0.70	0.29	1.28	0.00	1.30
Avail Cap(c_a), veh/h	134	1358	760	400	3139	976	318	334	1259	191	0	192
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.63	0.63	0.63	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	64.2	7.3	7.3	54.2	17.6	12.1	60.9	61.2	35.5	62.5	0.0	62.5
Incr Delay (d2), s/veh	4.7	3.3	5.9	86.7	1.2	0.6	3.2	3.7	0.1	158.0	0.0	168.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	9.8	11.5	25.1	18.2	4.3	4.4	5.0	4.3	15.8	0.0	16.4
LnGrp Delay(d),s/veh	68.9	10.6	13.1	140.9	18.8	12.7	64.1	64.9	35.6	220.5	0.0	231.1
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1763			2815			535			494	
Approach Delay, s/veh		13.2			38.0			48.7			225.8	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	65.5		20.0	9.6	91.8		18.5
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	13.6	24.5		17.1	6.0	40.4		12.1
Green Ext Time (p_c), s	0.0	19.2		0.0	0.0	24.4		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	47.8
HCM 2010 LOS	D

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	210	440	192	10	190	550	360	245	1242	90	10
Future Volume (veh/h)	10	210	440	192	10	190	550	360	245	1242	90	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.97	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		221	463	161		204	591	284	253	1280	72	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		249	678	233		1026	1139	547	315	1231	69	
Arrive On Green		0.07	0.26	0.26		0.30	0.50	0.50	0.12	0.48	0.48	
Sat Flow, veh/h		3442	2559	882		3442	2296	1102	3442	3401	191	
Grp Volume(v), veh/h		221	319	305		204	455	420	253	665	687	
Grp Sat Flow(s),veh/h/ln		1721	1770	1671		1721	1770	1628	1721	1770	1823	
Q Serve(g_s), s		6.9	17.5	17.7		4.8	18.9	18.9	7.7	39.1	39.1	
Cycle Q Clear(g_c), s		6.9	17.5	17.7		4.8	18.9	18.9	7.7	39.1	39.1	
Prop In Lane		1.00		0.53		1.00		0.68	1.00		0.10	
Lane Grp Cap(c), veh/h		249	469	442		1026	878	808	315	641	660	
V/C Ratio(X)		0.89	0.68	0.69		0.20	0.52	0.52	0.80	1.04	1.04	
Avail Cap(c_a), veh/h		249	469	442		1026	878	808	433	641	660	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.54	0.54	0.54	
Uniform Delay (d), s/veh		49.7	35.6	35.7		28.3	18.4	18.5	46.5	28.0	28.0	
Incr Delay (d2), s/veh		29.2	7.8	8.5		0.0	2.2	2.4	2.8	36.4	37.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		4.3	9.5	9.2		2.3	9.6	8.9	3.8	25.5	26.4	
LnGrp Delay(d),s/veh		78.8	43.4	44.2		28.3	20.6	20.8	49.3	64.4	65.1	
LnGrp LOS		E	D	D		C	C	C	D	F	F	
Approach Vol, veh/h			845				1079			1605		
Approach Delay, s/veh			53.0				22.2			62.3		
Approach LOS			D				C			E		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	37.7	33.6	14.3	48.4	12.2	59.1	18.7	44.0
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	7.8	* 29	13.6	39.3	7.8	28.6	13.8	* 39
Max Q Clear Time (g_c+I1), s	6.8	19.7	9.7	21.2	8.9	20.9	15.1	41.1
Green Ext Time (p_c), s	0.0	2.7	0.2	2.7	0.0	3.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	46.1
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	190	537	190
Future Volume (veh/h)	190	537	190
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	216	610	182
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	227	1073	320
Arrive On Green	0.13	0.40	0.40
Sat Flow, veh/h	1774	2664	793
Grp Volume(v), veh/h	216	405	387
Grp Sat Flow(s),veh/h/ln	1774	1770	1688
Q Serve(g_s), s	13.1	19.1	19.2
Cycle Q Clear(g_c), s	13.1	19.1	19.2
Prop In Lane	1.00		0.47
Lane Grp Cap(c), veh/h	227	713	680
V/C Ratio(X)	0.95	0.57	0.57
Avail Cap(c_a), veh/h	227	713	680
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.8	25.0	25.0
Incr Delay (d2), s/veh	46.2	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.3	9.5	9.1
LnGrp Delay(d),s/veh	92.9	25.6	25.7
LnGrp LOS	F	C	C
Approach Vol, veh/h		1008	
Approach Delay, s/veh		40.1	
Approach LOS		D	
Timer			

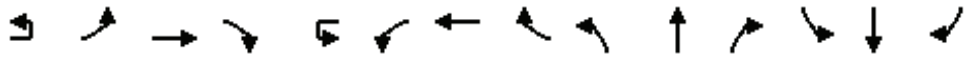


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	10	210	878	90	435	853	182	20	270	530	492	10	221	310	310
Future Volume (veh/h)	10	210	878	90	435	853	182	20	270	530	492	10	221	310	310
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		219	915	71	463	907	163		325	639	593		243	341	244
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		357	1038	81	515	1031	185		347	917	647		265	417	291
Arrive On Green		0.10	0.31	0.31	0.15	0.35	0.35		0.20	0.26	0.26		0.15	0.21	0.21
Sat Flow, veh/h		3442	3313	257	3442	2979	535		1774	3539	1583		1774	1956	1366
Grp Volume(v), veh/h		219	489	497	463	539	531		325	639	593		243	308	277
Grp Sat Flow(s),veh/h/ln		1721	1770	1800	1721	1770	1745		1774	1770	1583		1774	1770	1552
Q Serve(g_s), s		9.4	40.4	40.4	20.4	44.1	44.1		27.8	25.1	39.9		20.8	25.5	26.4
Cycle Q Clear(g_c), s		9.4	40.4	40.4	20.4	44.1	44.1		27.8	25.1	39.9		20.8	25.5	26.4
Prop In Lane		1.00		0.14	1.00		0.31		1.00		1.00		1.00		0.88
Lane Grp Cap(c), veh/h		357	554	564	515	612	604		347	917	647		265	377	331
V/C Ratio(X)		0.61	0.88	0.88	0.90	0.88	0.88		0.94	0.70	0.92		0.92	0.82	0.84
Avail Cap(c_a), veh/h		357	650	662	729	838	826		433	917	647		364	390	342
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		66.0	50.2	50.2	64.3	47.3	47.3		61.0	51.6	43.0		64.5	57.7	58.0
Incr Delay (d2), s/veh		2.3	12.4	12.2	8.6	8.2	8.4		23.0	2.1	17.8		19.1	12.1	15.9
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.6	21.6	21.9	10.3	22.9	22.7		15.9	12.6	26.9		11.6	13.7	12.8
LnGrp Delay(d),s/veh		68.3	62.6	62.4	73.0	55.5	55.7		84.0	53.7	60.8		83.7	69.8	74.0
LnGrp LOS		E	E	E	E	E	E		F	D	E		F	E	E
Approach Vol, veh/h			1205			1533				1557				828	
Approach Delay, s/veh			63.6			60.9				62.7				75.3	
Approach LOS			E			E				E				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.4	53.9	34.5	38.1	21.7	59.7	27.4	45.2
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	22.6	56.6	37.6	33.9	15.6	* 73	31.6	39.9
Max Q Clear Time (g_c+I2), s	22.4	42.4	29.8	28.4	11.4	46.1	22.8	41.9
Green Ext Time (p_c), s	0.7	5.9	0.3	1.5	0.1	7.2	0.2	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	64.4
HCM 2010 LOS	E

Notes

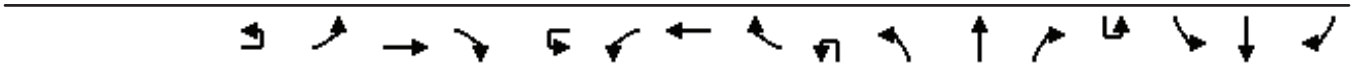


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	80	1300	140	10	180	1160	130	250	101	130	100	123	120
Future Volume (veh/h)	20	80	1300	140	10	180	1160	130	250	101	130	100	123	120
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		91	1477	129		222	1432	125	368	149	154	127	156	127
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		96	1240	108		185	1405	122	342	162	167	319	170	138
Arrive On Green		0.05	0.38	0.38		0.14	0.57	0.57	0.19	0.19	0.19	0.18	0.18	0.18
Sat Flow, veh/h		1774	3287	285		1774	3289	285	1774	840	868	1774	944	768
Grp Volume(v), veh/h		91	790	816		222	767	790	368	0	303	127	0	283
Grp Sat Flow(s),veh/h/ln		1774	1770	1802		1774	1770	1804	1774	0	1708	1774	0	1712
Q Serve(g_s), s		7.2	52.8	52.8		14.6	59.8	59.8	27.0	0.0	24.4	8.9	0.0	22.7
Cycle Q Clear(g_c), s		7.2	52.8	52.8		14.6	59.8	59.8	27.0	0.0	24.4	8.9	0.0	22.7
Prop In Lane		1.00		0.16		1.00		0.16	1.00		0.51	1.00		0.45
Lane Grp Cap(c), veh/h		96	668	680		185	756	771	342	0	329	319	0	308
V/C Ratio(X)		0.94	1.18	1.20		1.20	1.01	1.03	1.08	0.00	0.92	0.40	0.00	0.92
Avail Cap(c_a), veh/h		96	668	680		185	756	771	342	0	329	342	0	330
HCM Platoon Ratio		1.00	1.00	1.00		1.33	1.33	1.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.48	0.48	0.48	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		66.0	43.6	43.6		60.3	30.2	30.2	56.5	0.0	55.4	50.7	0.0	56.4
Incr Delay (d2), s/veh		73.0	97.2	103.7		112.6	26.2	29.2	70.3	0.0	29.4	0.3	0.0	27.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.5	43.8	45.8		12.9	34.3	35.7	19.9	0.0	14.2	4.4	0.0	13.1
LnGrp Delay(d),s/veh		139.0	140.8	147.3		172.9	56.4	59.4	126.8	0.0	84.9	51.0	0.0	84.2
LnGrp LOS		F	F	F		F	F	F	F		F	D		F
Approach Vol, veh/h			1697				1779			671			410	
Approach Delay, s/veh			143.8				72.3			107.8			73.9	
Approach LOS			F				E			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	19.0	59.0		30.1	12.0	66.0		31.9
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	14.6	* 52		27.0	7.6	58.0		27.0
Max Q Clear Time (g_c+I1), s	16.6	54.8		24.7	9.2	61.8		29.0
Green Ext Time (p_c), s	0.0	0.0		0.4	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	104.3
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	230	1060	300	10	110	860	357	10	300	797	80	10	291	462	220
Future Volume (veh/h)	10	230	1060	300	10	110	860	357	10	300	797	80	10	291	462	220
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		258	1191	249		126	989	321		319	848	64		334	531	196
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		362	1422	295		167	1229	398		363	1050	79		376	785	342
Arrive On Green		0.41	0.98	0.98		0.03	0.22	0.22		0.14	0.29	0.29		0.18	0.37	0.37
Sat Flow, veh/h		1774	2911	603		3442	3773	1223		3442	4819	362		3442	3539	1542
Grp Volume(v), veh/h		258	720	720		126	889	421		319	596	316		334	531	196
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1606		1721	1695	1792		1721	1770	1542
Q Serve(g_s), s		17.0	7.0	7.6		5.1	34.8	34.9		12.7	22.8	23.0		13.3	17.6	9.2
Cycle Q Clear(g_c), s		17.0	7.0	7.6		5.1	34.8	34.9		12.7	22.8	23.0		13.3	17.6	9.2
Prop In Lane		1.00		0.35		1.00		0.76		1.00		0.20		1.00		1.00
Lane Grp Cap(c), veh/h		362	865	852		167	1104	523		363	739	390		376	785	342
V/C Ratio(X)		0.71	0.83	0.84		0.75	0.80	0.81		0.88	0.81	0.81		0.89	0.68	0.57
Avail Cap(c_a), veh/h		362	865	852		167	1104	523		369	802	424		383	852	371
HCM Platoon Ratio		2.00	2.00	2.00		0.67	0.67	0.67		1.33	1.33	1.33		1.67	1.67	1.67
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.85	0.85	0.85		1.00	1.00	1.00
Uniform Delay (d), s/veh		38.0	0.9	0.9		66.9	50.5	50.5		59.3	47.0	47.0		56.4	39.9	16.1
Incr Delay (d2), s/veh		0.5	0.9	1.0		14.5	5.7	11.5		17.5	5.5	10.3		20.7	2.5	2.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		8.2	1.8	1.8		2.8	17.2	17.2		6.9	11.2	12.5		7.3	8.9	5.0
LnGrp Delay(d),s/veh		38.5	1.8	1.9		81.4	56.2	62.0		76.8	52.5	57.3		77.1	42.3	18.9
LnGrp LOS		D	A	A		F	E	E		E	D	E		E	D	B
Approach Vol, veh/h			1698				1436				1231				1061	
Approach Delay, s/veh			7.4				60.1				60.0				48.9	
Approach LOS			A				E				E				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.2	73.7	19.1	35.9	33.9	51.0	19.7	35.4
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	6.8	65.5	15.0	33.7	26.6	* 46	15.6	33.1
Max Q Clear Time (g_c+I1), s	7.1	9.6	14.7	19.6	19.0	36.9	15.3	25.0
Green Ext Time (p_c), s	0.0	15.8	0.0	5.4	0.2	5.0	0.0	4.9

Intersection Summary	
HCM 2010 Ctrl Delay	41.4
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1940	140	400	1357	310	110	120	640	290	180	20
Future Volume (veh/h)	20	1940	140	400	1357	310	110	120	640	290	180	20
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.94	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	2000	107	435	1475	249	126	138	644	322	200	20
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1990	106	350	2973	906	193	121	720	345	250	25
Arrive On Green	0.03	0.81	0.81	0.20	0.58	0.58	0.11	0.07	0.07	0.19	0.15	0.15
Sat Flow, veh/h	1774	4933	263	1774	5085	1549	1774	1863	2631	1774	1661	166
Grp Volume(v), veh/h	21	1372	735	435	1475	249	126	138	644	322	0	220
Grp Sat Flow(s),veh/h/ln	1774	1695	1806	1774	1695	1549	1774	1863	1315	1774	0	1827
Q Serve(g_s), s	1.6	56.5	56.5	27.6	23.8	4.0	9.5	9.1	9.1	25.0	0.0	16.3
Cycle Q Clear(g_c), s	1.6	56.5	56.5	27.6	23.8	4.0	9.5	9.1	9.1	25.0	0.0	16.3
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	28	1368	728	350	2973	906	193	121	720	345	0	275
V/C Ratio(X)	0.74	1.00	1.01	1.24	0.50	0.27	0.65	1.14	0.89	0.93	0.00	0.80
Avail Cap(c_a), veh/h	75	1368	728	350	2973	906	193	121	720	393	0	405
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.19	0.19	0.19	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	13.5	13.5	56.2	17.0	1.8	59.8	65.4	32.9	55.5	0.0	57.4
Incr Delay (d2), s/veh	2.7	11.3	16.8	131.6	0.6	0.8	7.0	124.3	13.5	26.1	0.0	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	26.8	29.7	26.3	11.2	4.1	5.1	8.9	12.3	14.8	0.0	8.6
LnGrp Delay(d),s/veh	70.2	24.8	30.3	187.8	17.6	2.6	66.8	189.7	46.4	81.6	0.0	61.5
LnGrp LOS	E	F	F	F	B	A	E	F	D	F		E
Approach Vol, veh/h		2128			2159			908			542	
Approach Delay, s/veh		27.2			50.2			71.0			73.4	
Approach LOS		C			D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	32.0	61.9	32.1	14.0	6.6	87.2	20.1	26.0
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	27.6	* 53	31.0	9.1	5.9	74.4	9.1	31.0
Max Q Clear Time (g_c+I1), s	29.6	58.5	27.0	11.1	3.6	25.8	11.5	18.3
Green Ext Time (p_c), s	0.0	0.0	0.2	0.0	0.0	23.9	0.0	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	47.1
HCM 2010 LOS	D

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	150	670	265	20	210	750	140	273	484	140	10
Future Volume (veh/h)	10	150	670	265	20	210	750	140	273	484	140	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.97	1.00		0.96	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		167	744	211		226	806	117	290	515	115	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	821	233		277	999	145	322	950	211	
Arrive On Green		0.06	0.30	0.30		0.08	0.32	0.32	0.06	0.22	0.22	
Sat Flow, veh/h		3442	2695	764		3442	3091	449	3442	2855	634	
Grp Volume(v), veh/h		167	489	466		226	461	462	290	318	312	
Grp Sat Flow(s),veh/h/ln		1721	1770	1689		1721	1770	1770	1721	1770	1719	
Q Serve(g_s), s		6.0	33.4	33.4		8.1	30.1	30.1	10.5	20.0	20.2	
Cycle Q Clear(g_c), s		6.0	33.4	33.4		8.1	30.1	30.1	10.5	20.0	20.2	
Prop In Lane		1.00		0.45		1.00		0.25	1.00		0.37	
Lane Grp Cap(c), veh/h		213	539	514		277	572	572	322	589	572	
V/C Ratio(X)		0.78	0.91	0.91		0.82	0.81	0.81	0.90	0.54	0.55	
Avail Cap(c_a), veh/h		213	539	514		279	572	572	322	589	572	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	0.67	0.67	0.67	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.95	0.95	0.95	
Uniform Delay (d), s/veh		58.3	42.1	42.1		57.0	39.0	39.0	58.5	40.5	40.5	
Incr Delay (d2), s/veh		15.9	21.5	22.2		15.8	11.6	11.6	24.9	0.5	0.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	19.5	18.7		4.5	16.6	16.6	6.1	9.9	9.7	
LnGrp Delay(d),s/veh		74.1	63.5	64.3		72.8	50.6	50.7	83.4	41.0	41.1	
LnGrp LOS		E	E	E		E	D	D	F	D	D	
Approach Vol, veh/h			1122				1149			920		
Approach Delay, s/veh			65.4				55.0			54.4		
Approach LOS			E				E			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.5	43.4	16.2	51.9	12.2	45.7	21.3	46.8
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	10.2	38.0	11.8	47.3	7.8	40.4	23.8	35.3
Max Q Clear Time (g_c+I1), s	10.1	35.4	12.5	46.5	8.0	32.1	16.7	22.2
Green Ext Time (p_c), s	0.0	1.5	0.0	0.5	0.0	3.8	0.2	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	60.6
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	200	1095	150
Future Volume (veh/h)	200	1095	150
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	211	1153	126
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	238	1196	130
Arrive On Green	0.13	0.37	0.37
Sat Flow, veh/h	1774	3207	350
Grp Volume(v), veh/h	211	635	644
Grp Sat Flow(s),veh/h/ln	1774	1770	1787
Q Serve(g_s), s	14.7	44.2	44.5
Cycle Q Clear(g_c), s	14.7	44.2	44.5
Prop In Lane	1.00		0.20
Lane Grp Cap(c), veh/h	238	660	666
V/C Ratio(X)	0.89	0.96	0.97
Avail Cap(c_a), veh/h	335	664	671
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.6	38.6	38.7
Incr Delay (d2), s/veh	14.8	25.6	26.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	26.2	26.9
LnGrp Delay(d),s/veh	68.4	64.2	65.0
LnGrp LOS	E	E	E
Approach Vol, veh/h		1490	
Approach Delay, s/veh		65.1	
Approach LOS		E	
Timer			

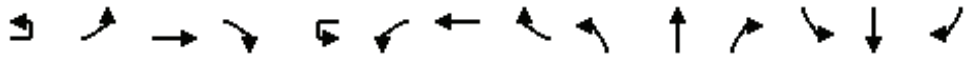


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1027	80	533	935	171	20	180	410	495	322	690	310
Future Volume (veh/h)	20	360	1027	80	533	935	171	20	180	410	495	322	690	310
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		375	1070	64	567	995	148		191	436	415	374	802	262
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		406	1036	62	545	1031	153		208	732	562	389	806	263
Arrive On Green		0.12	0.31	0.31	0.16	0.34	0.34		0.12	0.21	0.21	0.22	0.31	0.31
Sat Flow, veh/h		3442	3385	202	3442	3075	457		1774	3539	1504	1774	2608	852
Grp Volume(v), veh/h		375	559	575	567	572	571		191	436	415	374	544	520
Grp Sat Flow(s),veh/h/ln		1721	1770	1818	1721	1770	1762		1774	1770	1504	1774	1770	1691
Q Serve(g_s), s		19.5	55.5	55.5	28.7	57.6	57.7		19.3	20.2	37.5	37.8	55.6	55.7
Cycle Q Clear(g_c), s		19.5	55.5	55.5	28.7	57.6	57.7		19.3	20.2	37.5	37.8	55.6	55.7
Prop In Lane		1.00		0.11	1.00		0.26		1.00		1.00	1.00		0.50
Lane Grp Cap(c), veh/h		406	541	556	545	593	591		208	732	562	389	547	522
V/C Ratio(X)		0.92	1.03	1.03	1.04	0.96	0.97		0.92	0.60	0.74	0.96	0.99	1.00
Avail Cap(c_a), veh/h		406	541	556	545	598	596		208	732	562	390	547	522
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		79.1	62.9	62.9	76.3	59.2	59.2		79.1	65.0	50.4	70.0	62.5	62.5
Incr Delay (d2), s/veh		26.0	47.4	47.1	49.5	28.0	28.4		39.2	1.1	4.8	35.0	37.1	38.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		10.8	34.2	35.1	17.4	32.8	32.7		11.8	10.0	19.0	22.4	32.8	31.5
LnGrp Delay(d),s/veh		105.1	110.3	110.0	125.7	87.2	87.7		118.3	66.1	55.2	105.0	99.6	100.7
LnGrp LOS		F	F	F	F	F	F		F	E	E	F	F	F
Approach Vol, veh/h			1509			1710				1042			1438	
Approach Delay, s/veh			108.9			100.1				71.3			101.4	
Approach LOS			F			F				E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	33.1	61.2	25.7	61.3	27.1	67.2	44.2	42.8
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	28.7	54.7	21.3	56.0	21.4	* 61	39.8	37.5
Max Q Clear Time (g_c+I1), s	30.7	57.5	21.3	57.7	21.5	59.7	39.8	39.5
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	97.5
HCM 2010 LOS	F

Notes

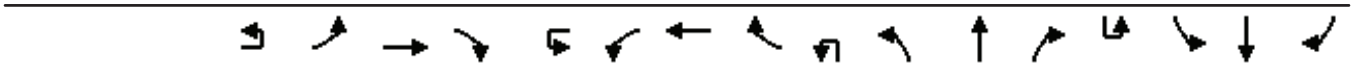


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	94	1500	180	50	150	1450	120	100	64	60	90	162	169
Future Volume (veh/h)	10	94	1500	180	50	150	1450	120	100	64	60	90	162	169
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		99	1579	145		160	1543	97	112	72	55	99	178	146
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		96	1570	143		160	1740	109	164	90	69	342	183	150
Arrive On Green		0.05	0.48	0.48		0.09	0.51	0.51	0.09	0.09	0.09	0.19	0.19	0.19
Sat Flow, veh/h		1774	3280	298		1774	3383	212	1774	973	743	1774	947	777
Grp Volume(v), veh/h		99	845	879		160	803	837	112	0	127	99	0	324
Grp Sat Flow(s),veh/h/ln		1774	1770	1809		1774	1770	1825	1774	0	1716	1774	0	1724
Q Serve(g_s), s		7.6	66.7	67.0		12.6	56.5	57.5	8.6	0.0	10.2	6.7	0.0	26.1
Cycle Q Clear(g_c), s		7.6	66.7	67.0		12.6	56.5	57.5	8.6	0.0	10.2	6.7	0.0	26.1
Prop In Lane		1.00		0.16		1.00		0.12	1.00		0.43	1.00		0.45
Lane Grp Cap(c), veh/h		96	847	866		160	910	939	164	0	159	342	0	333
V/C Ratio(X)		1.03	1.00	1.01		1.00	0.88	0.89	0.68	0.00	0.80	0.29	0.00	0.97
Avail Cap(c_a), veh/h		96	847	866		160	910	939	342	0	331	342	0	333
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.13	0.13	0.13	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		66.2	36.4	36.5		63.7	30.2	30.5	61.5	0.0	62.2	48.3	0.0	56.2
Incr Delay (d2), s/veh		99.5	30.3	34.3		25.8	1.8	1.9	1.8	0.0	3.5	0.2	0.0	42.1
Initial Q Delay(d3),s/veh		0.4	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.4	39.5	41.7		7.3	27.9	29.3	4.3	0.0	5.0	3.3	0.0	16.3
LnGrp Delay(d),s/veh		166.1	66.7	70.8		89.6	32.0	32.4	63.4	0.0	65.7	48.5	0.0	98.3
LnGrp LOS		F	E	F		F	C	C	E		E	D		F
Approach Vol, veh/h			1823				1800			239			423	
Approach Delay, s/veh			74.1				37.3			64.6			86.6	
Approach LOS			E				D			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.0	73.2		31.9	12.0	78.2		17.9
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	12.6	* 54		27.0	7.6	58.0		27.0
Max Q Clear Time (g_c+I1), s	14.6	69.0		28.1	9.6	59.5		12.2
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.5

Intersection Summary	
HCM 2010 Ctrl Delay	59.4
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	350	1040	280	10	330	1120	430	20	280	575	120	30	454	704	250
Future Volume (veh/h)	10	350	1040	280	10	330	1120	430	20	280	575	120	30	454	704	250
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.97		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		380	1130	231		367	1244	391		311	639	101		510	791	221
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		355	1181	240		368	1181	371		352	966	150		457	882	369
Arrive On Green		0.07	0.13	0.13		0.07	0.21	0.21		0.20	0.44	0.44		0.22	0.42	0.42
Sat Flow, veh/h		1774	2911	591		3442	3785	1187		3442	4415	687		3442	3539	1479
Grp Volume(v), veh/h		380	684	677		367	1114	521		311	488	252		510	791	221
Grp Sat Flow(s),veh/h/ln		1774	1770	1732		1721	1695	1582		1721	1695	1713		1721	1770	1479
Q Serve(g_s), s		28.0	53.7	54.4		14.9	43.7	43.7		12.3	15.9	16.4		18.6	29.1	10.5
Cycle Q Clear(g_c), s		28.0	53.7	54.4		14.9	43.7	43.7		12.3	15.9	16.4		18.6	29.1	10.5
Prop In Lane		1.00		0.34		1.00		0.75		1.00		0.40		1.00		1.00
Lane Grp Cap(c), veh/h		355	718	703		368	1058	494		352	741	375		457	882	369
V/C Ratio(X)		1.07	0.95	0.96		1.00	1.05	1.06		0.88	0.66	0.67		1.12	0.90	0.60
Avail Cap(c_a), veh/h		355	718	703		368	1058	494		364	799	404		457	930	389
HCM Platoon Ratio		0.33	0.33	0.33		0.67	0.67	0.67		2.00	2.00	2.00		1.67	1.67	1.67
Upstream Filter(I)		0.09	0.09	0.09		0.81	0.81	0.81		0.91	0.91	0.91		1.00	1.00	1.00
Uniform Delay (d), s/veh		65.4	59.3	59.6		65.0	55.4	55.4		54.9	35.3	35.4		54.5	39.2	14.8
Incr Delay (d2), s/veh		38.1	3.8	4.7		41.2	40.0	51.8		19.0	2.2	4.7		77.4	11.5	3.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		17.5	27.1	27.1		9.2	26.4	26.2		6.7	7.5	8.2		13.7	15.5	5.3
LnGrp Delay(d),s/veh		103.4	63.1	64.3		106.1	95.4	107.1		73.8	37.4	40.0		131.9	50.7	18.0
LnGrp LOS		F	E	E		F	F	F		E	D	D		F	D	B
Approach Vol, veh/h			1741				2002				1051				1522	
Approach Delay, s/veh			72.4				100.4				48.8				73.2	
Approach LOS			E				F				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.4	62.1	18.7	39.8	32.4	49.1	23.0	35.5
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	56.8	14.8	36.8	25.6	43.7	18.6	33.0
Max Q Clear Time (g_c+I1), s	16.9	56.4	14.3	31.1	30.0	45.7	20.6	18.4
Green Ext Time (p_c), s	0.0	0.3	0.0	3.8	0.0	0.0	0.0	6.2

Intersection Summary	
HCM 2010 Ctrl Delay	77.5
HCM 2010 LOS	E

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1523	180	440	2058	320	130	70	300	220	180	50
Future Volume (veh/h)	50	1523	180	440	2058	320	130	70	300	220	180	50
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.95	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	52	1570	141	454	2122	239	148	80	293	244	200	50
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	67	1687	151	408	2872	893	173	133	830	340	237	59
Arrive On Green	0.04	0.37	0.37	0.23	0.56	0.56	0.10	0.07	0.07	0.19	0.17	0.17
Sat Flow, veh/h	1774	4532	407	1774	5085	1581	1774	1863	2642	1774	1428	357
Grp Volume(v), veh/h	52	1097	614	454	2122	239	148	80	293	244	0	250
Grp Sat Flow(s),veh/h/ln	1774	1583	1772	1774	1695	1581	1774	1863	1321	1774	0	1785
Q Serve(g_s), s	4.2	48.5	48.7	33.6	45.5	4.5	12.0	6.1	7.5	18.8	0.0	19.8
Cycle Q Clear(g_c), s	4.2	48.5	48.7	33.6	45.5	4.5	12.0	6.1	7.5	18.8	0.0	19.8
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	67	1179	660	408	2872	893	173	133	830	340	0	296
V/C Ratio(X)	0.78	0.93	0.93	1.11	0.74	0.27	0.86	0.60	0.35	0.72	0.00	0.84
Avail Cap(c_a), veh/h	104	1179	660	408	2872	893	375	410	1222	377	0	394
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.63	0.63	0.63	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.7	44.0	44.0	56.2	23.7	2.6	64.9	65.8	17.9	55.3	0.0	59.0
Incr Delay (d2), s/veh	4.6	9.7	15.5	78.5	1.7	0.7	8.8	1.6	0.1	4.5	0.0	9.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	22.8	26.6	25.3	21.7	4.3	6.3	3.2	2.8	9.6	0.0	10.6
LnGrp Delay(d),s/veh	74.2	53.7	59.5	134.7	25.5	3.3	73.7	67.4	18.0	59.8	0.0	68.6
LnGrp LOS	E	D	E	F	C	A	E	E	B	E		E
Approach Vol, veh/h		1763			2815			521			494	
Approach Delay, s/veh		56.3			41.2			41.4			64.2	
Approach LOS		E			D			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	38.0	59.8	32.9	15.3	9.9	87.9	19.1	29.1
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	33.6	* 30	31.0	32.1	8.6	54.6	30.9	32.2
Max Q Clear Time (g_c+I1), s	35.6	50.7	20.8	9.5	6.2	47.5	14.0	21.8
Green Ext Time (p_c), s	0.0	0.0	0.3	1.0	0.0	6.7	0.2	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	48.0
HCM 2010 LOS	D

Notes

Appendix M
SANDAG Series 13 Model – VMT Analysis

Vehicle Miles of Travel Report

Scenario ID 1029

Clairemont Mesa County Crime Lab - 2050 City of San Diego Adopted Kearny Mesa CPU - Project Site

VMT per Resident						
		Residents	Total Trips	Person Miles of Travel	Vehicle Miles of Travel	VMT per Resident
Regionwide		4,099,980	14,593,211	85,445,299	58,739,911	14.3
Jurisdiction	San Diego	1,808,994	6,467,426	33,843,855	22,497,508	12.4
CPA	Clairemont Mesa	99,762	372,742	2,027,387	1,433,670	14.4
Project Site		1,019	3,954	17,914	12,901	**12.7**

VMT per Employee						
		Employees	Total Trips	Person Miles of Travel	Vehicle Miles of Travel	VMT per Employee
Regionwide		1,731,130	5,504,906	43,102,649	36,912,122	21.3
Jurisdiction	San Diego	888,429	2,690,263	20,430,135	17,656,942	19.9
CPA	Clairemont Mesa	20,614	72,302	488,523	408,817	19.8
Project Site		287	931	5,634	4,930	**17.2**

Report Generated: 01/10/19

SANDAG

I-2 Traffic Impact Study Addendum

Mt. Etna - Clairemont Mesa Community Plan Amendment and Zone Change
TRANSPORTATION IMPACT STUDY ADDENDUM

TO:	Janelle Firoozi, ESA
FROM:	Monique Chen, Dale Domingo, and Joseph Perez, Chen Ryan Associates
DATE:	September 25, 2019
RE:	Transportation Impact Study Addendum for the Mt. Etna - Clairemont Mesa Community Plan Amendment and Zone Change

The purpose of this addendum to the "Mt. Etna – Clairemont Mesa Community Plan Amendment and Zone Change Transportation Impact Study (TIS)", dated May 2019, is to evaluate the roadway segment Level of Service (LOS) as well as intersection operational delay and LOS under the new Proposed Project description. The new project proposes 404 affordable multifamily units including 150 senior units and 1,500 square feet of ancillary uses. Analysis was conducted under the following three (3) project access options:

- Access Option 1 - One Driveway: Full access on Mt Etna Drive;
- Access Option 2 - Two Driveways: Full access on Mt Etna Drive and a right-in-right-out (RIRO) driveway on Genesee Avenue; and
- Access Option 3 - Three Driveways: Full access on Mt Etna Drive, RIRO driveway on Genesee Avenue, and RIRO driveway on Balboa Avenue.

The project trips were assigned to the transportation network under all three project access options. Given that the new project does not substantially deviate from the previous one (i.e. 448 dwelling units versus 404 dwelling units), the trip distribution was not expected to change, and therefore, has remained the same as what was used in the original analysis.

However, the new project access options would change traffic circulation immediately adjacent to the site. As a result, driveway operations analysis was conducted at the following four (4) roadway segments and seven (7) intersections:

<u>Roadways</u>

- Genesee Avenue, between Mt Etna Drive and Balboa Avenue;
- Mt Everest, between Mt Etna Drive and Balboa Avenue;
- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue; and
- Balboa Avenue, between Mt Everest Drive and Genesee Avenue

Intersections

- Mt Everest Boulevard & Mt Etna Drive (All-Way Stop Controlled);
- Genesee Avenue & Mt Etna Drive (Signal);
- Mt Everest Boulevard & Balboa Avenue (Signal);
- Genesee Avenue & Balboa Avenue (Signal);
- Project Driveway #1 & Mt Etna Drive (Side-Street Stop Controlled);
- Project Driveway #2 & Genesee Avenue (Side-Street Stop Controlled); and
- Project Driveway #3 & Balboa Avenue (Side-Street Stop Controlled).

The analysis methodology and traffic volumes for the transportation network remained the same as those provided in the TIS. Similar to the TIS, the following three study scenarios are analyzed in this addendum:

1. Existing Conditions Plus Project shows how implementation of the new Proposed Project would affect existing traffic operations immediately adjacent to the project site.

2. Near-Term Base (Year 2021) Conditions Plus Project shows how implementation of the new Proposed Project would affect forecasted Near-Term Year 2021 traffic operations immediately adjacent to the project site.

3. Year 2050 Conditions Plus Project shows how implementation of the new Proposed Project would affect forecasted Horizon Year 2050 traffic operations immediately adjacent to the project site.

Since the new project would generate fewer trips compared to the previous project, an analysis of only the previously identified project impacts was conducted to determine which facilities would no longer be impacted and which would remain with the new project description. Mitigation measures are provided for Existing Plus Project, Near-Term Base (Year 2021) Plus Project, and Horizon Year 2050 Plus Project for all three access options.

A site access evaluation was also conducted to evaluate access to the project site by all travel modes per access option.

1.0 New Project Trip Geneartion, Distribution, and Assignment

The new project proposes 404 affordable multifamily units including 150 senior dwelling units. Additionally, the project would include 1,500 square feet of ground floor ancillary uses, which would be used primarily by the residents and would not generate new trips to the site.

The trip generation estimates for the residential units were derived utilizing the trip generation rates outlined in *Table 1 of the City of San Diego Land Development Code – Trip Generation Manual 2003*. The following trip reduction from the City's Traffic Impact Study Manual was applied to the estimate:

Transit Reductions

The project site is located in a Transit Oriented Development (TOD) area, with high frequency transit services immediately adjacent to the site on Genesee Avenue. Bus Route # 41 is serviced along Genesee Avenue operating with 15-minute headways during peak hours and bus route #27 is serviced along Balboa Avenue operating with 30-minutes headways during peak hours. Transit stops for Bus Routes #41 and #27 are each within 400 feet of the Project site. Consequently, the following transit reductions were applied to account for residents using transit in lieu of driving:

- Daily = 5%
- AM Peak Hour = 9%
- PM Peak Hour = 6%

Table 1 displays the projected daily, as well as AM and PM peak hour Project trip generation under the new project.

Table 1- Project Trip Generation

					AM Peak Hour					PM Peak Hour				
Land Use	Units	Trip Rate	% Daily	ADT	%	Trips	Split	In	Out	%	Trips	Split	In	Out
Residential – Multi – Family	254 Units	6 / Unit	-	1,524	8%	122	(2:8)	24	98	9%	138	(7:3)	97	41
Residential - Retirement/ Senior Citizen Housing	150 Units	4 / Unit	-	600	5%	30	(4:6)	12	18	7%	42	(6:4)	25	17
			Subtotal	2,124		152		36	116		180		122	58
Residential Reduction due to Transit Stations*	-	-	5%	-106	9%	-14		-3	-11	6%	-11		-7	-4
			Total	**2,018**		**138**		**33**	**105**		**169**		**115**	**54**

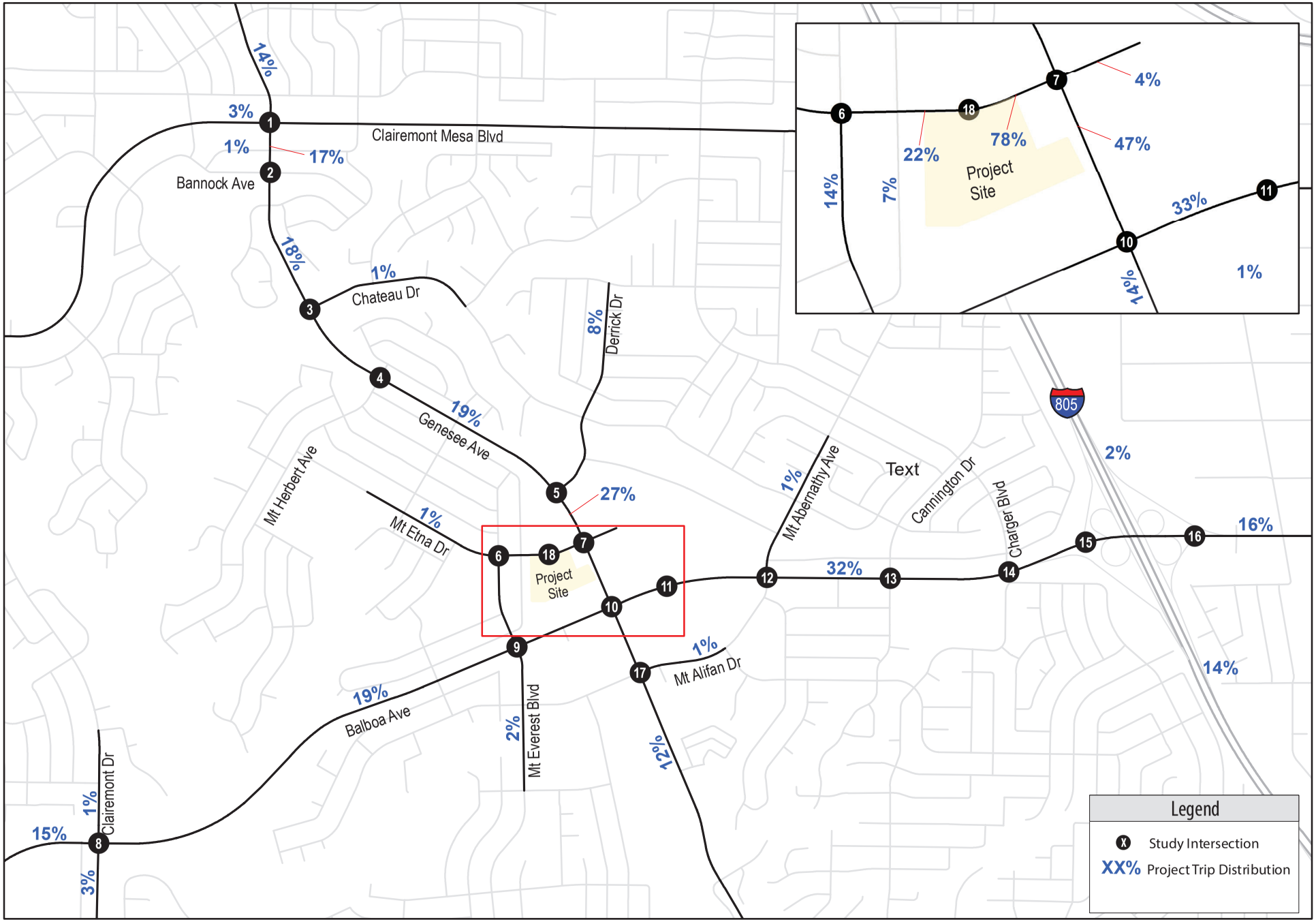
Source: City of San Diego Land Use Code – Trip Generation Manual, May 2003
*Reductions applied from City of San Diego Traffic Impact Study Manual (July 1998)

As shown in Table 1, the new project is anticipated to generate a total of 2,018 daily trips, including 138 (33-in / 105-out) AM peak hour trips and 169 (115-in / 54-out) PM peak hour trips.

The trip distribution will remain the same as what was used in the original TIS as shown in **Figure 1**.

Based upon the assumed Project trip distribution and the three access options, daily and AM/PM peak hour Project trips were assigned to the adjacent network as displayed in **Figure 2, Figure 3, and Figure 4**, for the Access Option 1, Access Option 2, and Access Option 3, respectively.

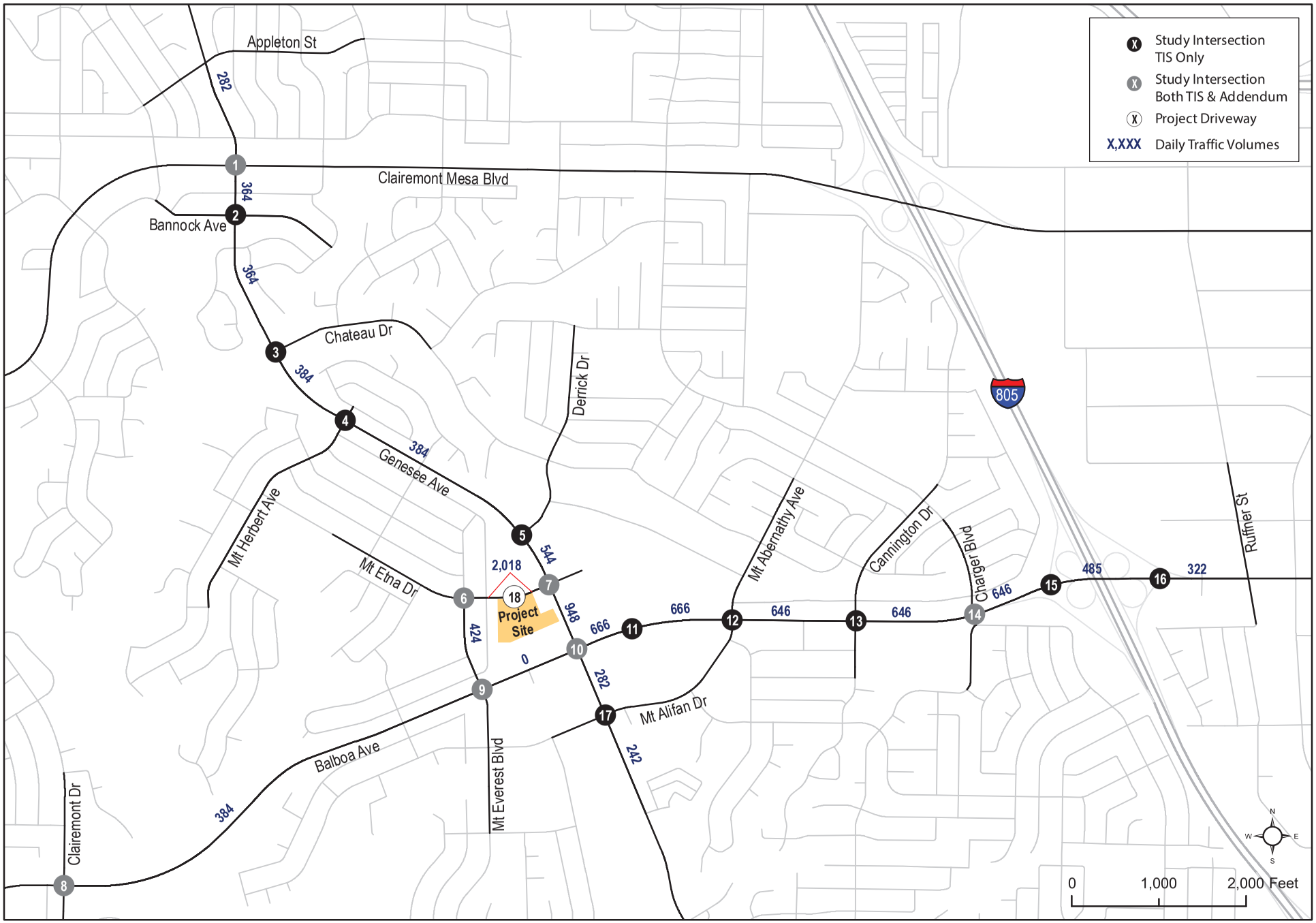
Also depicted in Figures 2, 3, and 4 is the project trip assignment for the study roadways and intersections that were previously identified as impact under the old project.



Clairemont Mesa Community Plan Amendment and Zone Change - Transportation Impact Study Addendum

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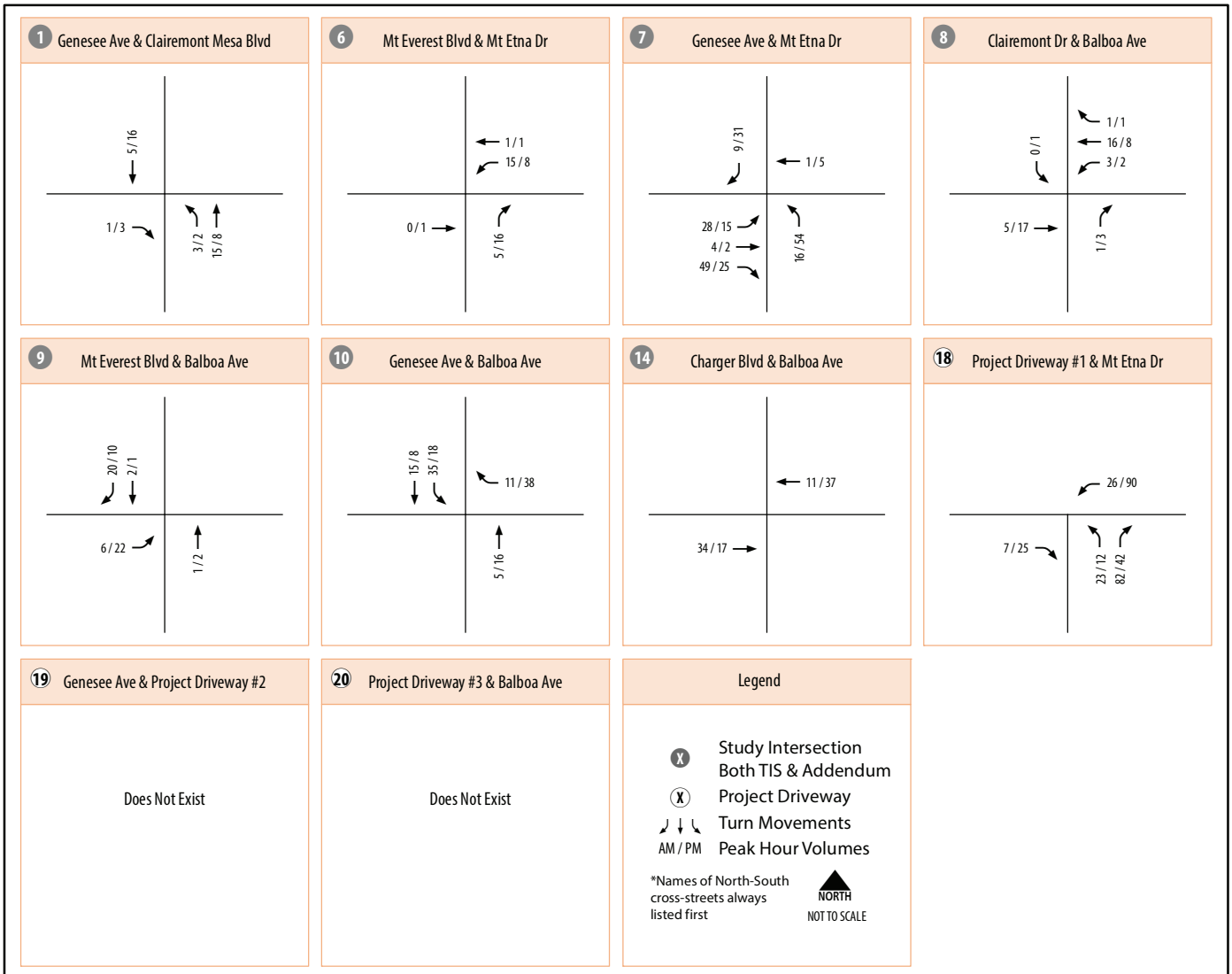
Figure 1
Project Trip Distribution



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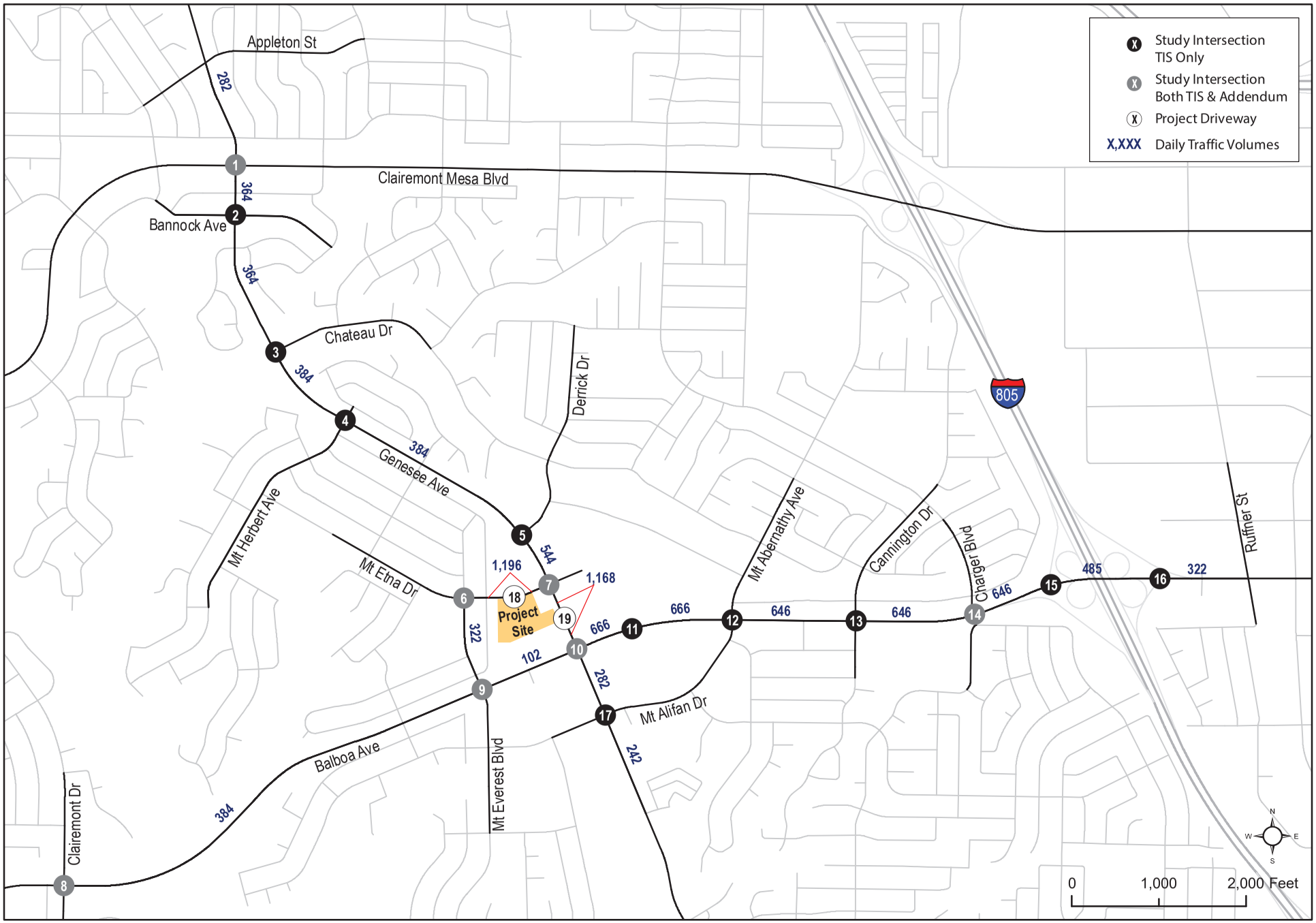
Figure 2
Project Trip Assignment
Access Option 1



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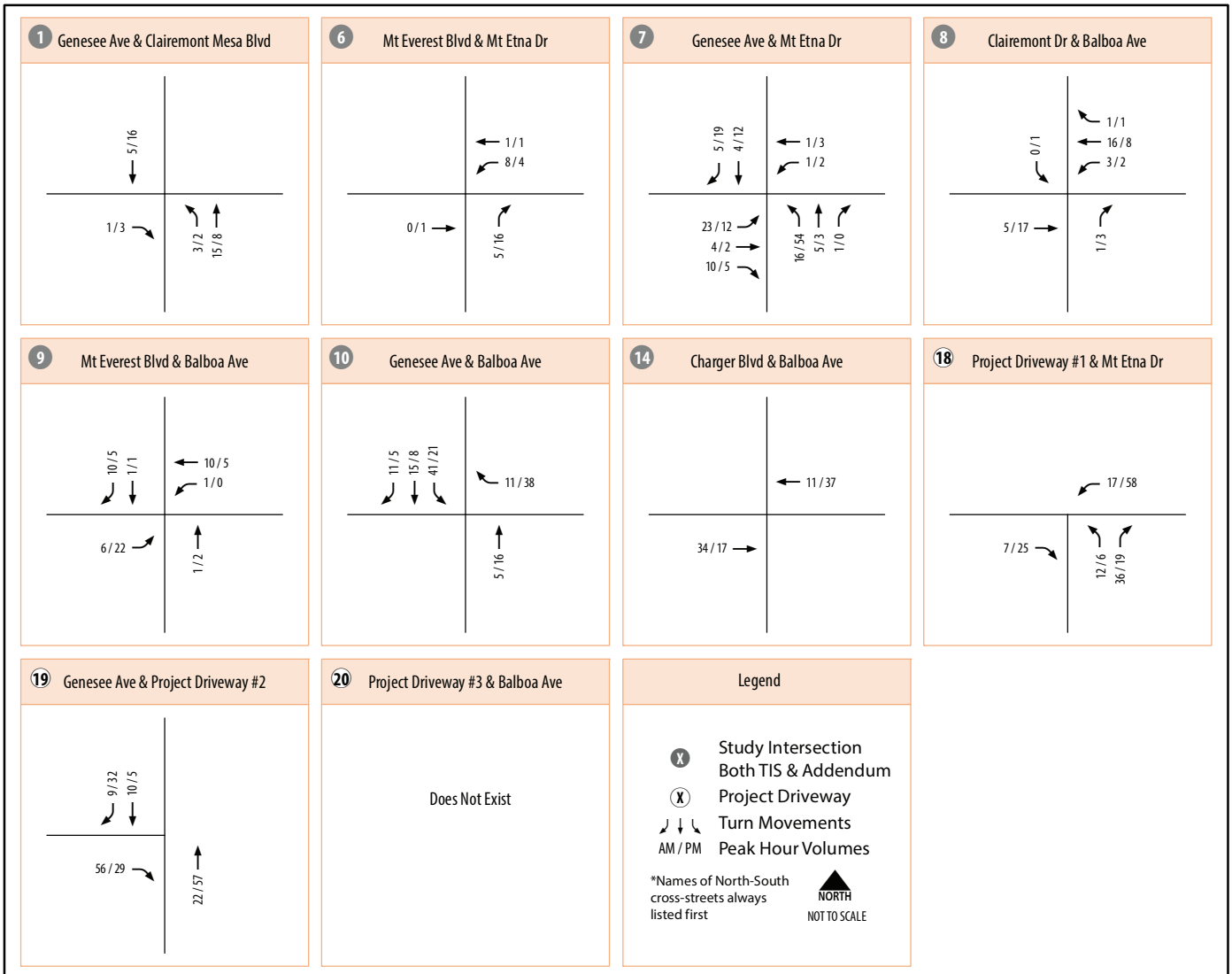
Figure 2
Project Trip Assignment
Access Option 1



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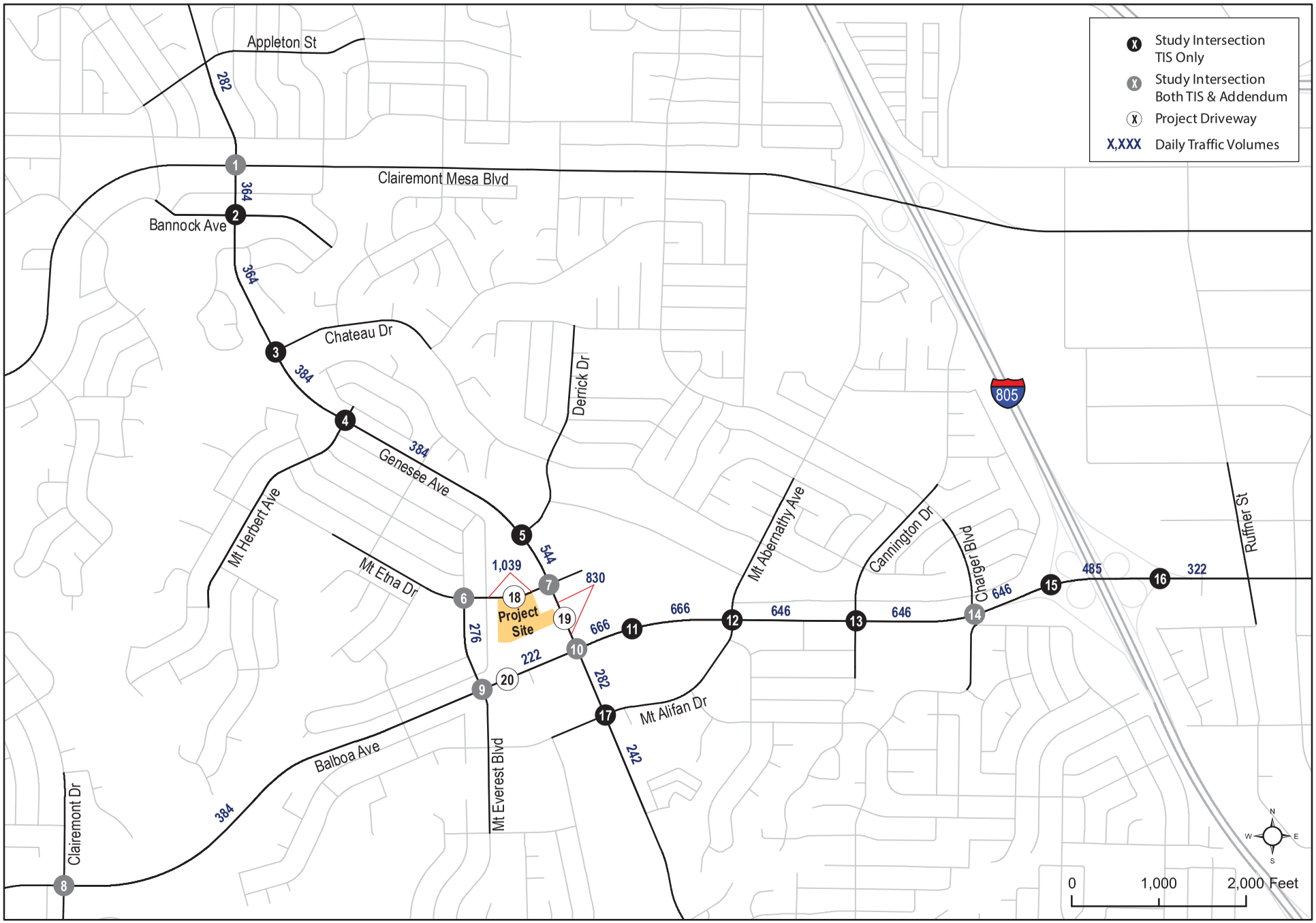
Figure 3
Project Trip Assignment
Access Option 2



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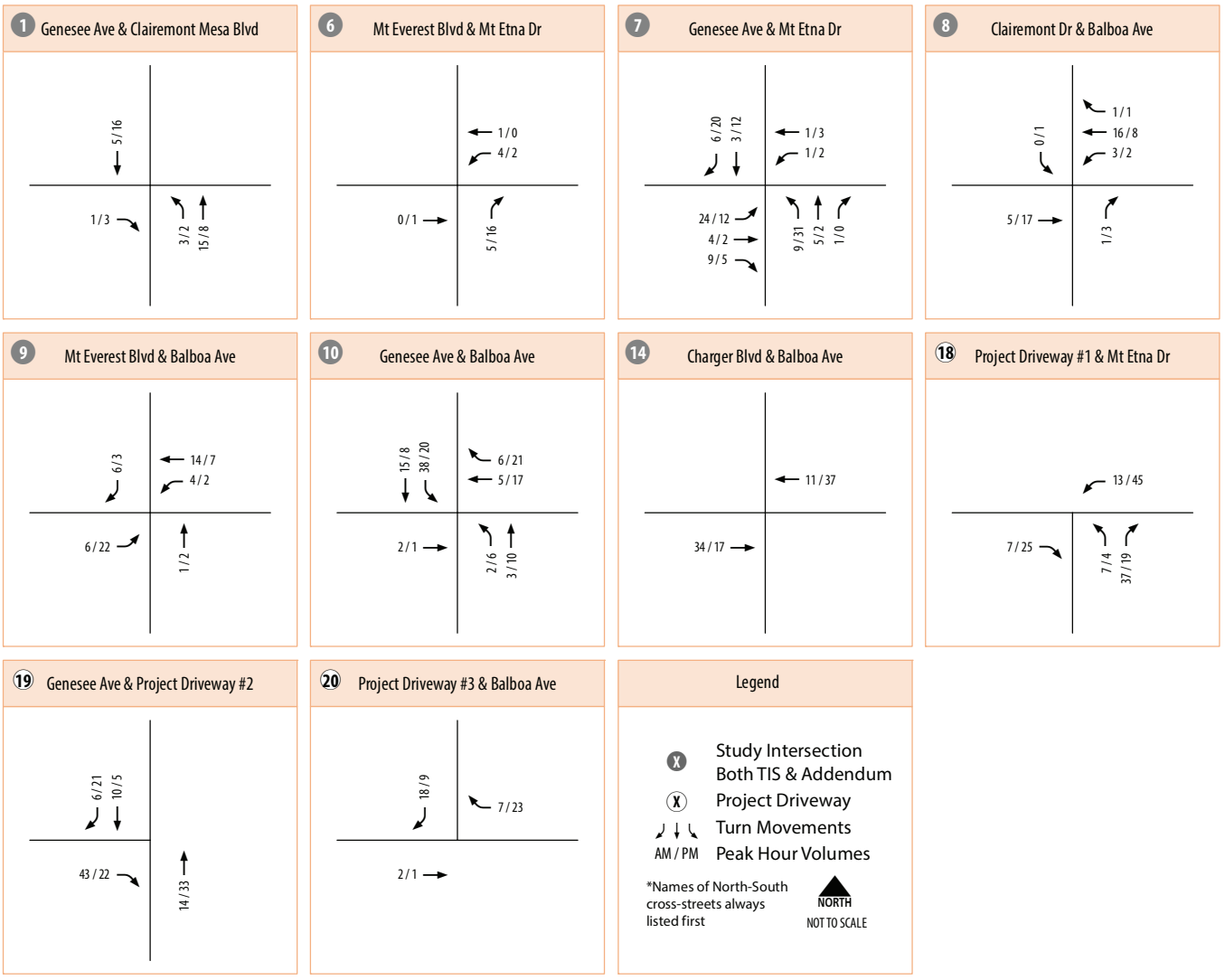
Figure 3
Project Trip Assignment
Access Option 2



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Figure 4
Project Trip Assignment
Access Option 3



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Figure 4
Project Trip Assignment
Access Option 3

2.0 Driveway Operations Analysis

This section provides an operations analysis for the following three (3) access options:

- Access Option 1 - One Driveway: Full access on Mt Etna Drive;
- Access Option 2 - Two Driveways: Full access on Mt Etna Drive and a right-in-right-out (RIRO) driveway on Genesee Avenue; and
- Access Option 3 - Three Driveways: Full access on Mt Etna Drive, RIRO driveway on Genesee Avenue, and RIRO driveway on Balboa Avenue.

The driveway analysis was conducted for all three study scenarios (Existing Plus Project, Near-Term Base (Year 2021) Plus Project, and Horizon Year 2050 Plus Project) based on the new project description.

Existing Plus Project Conditions

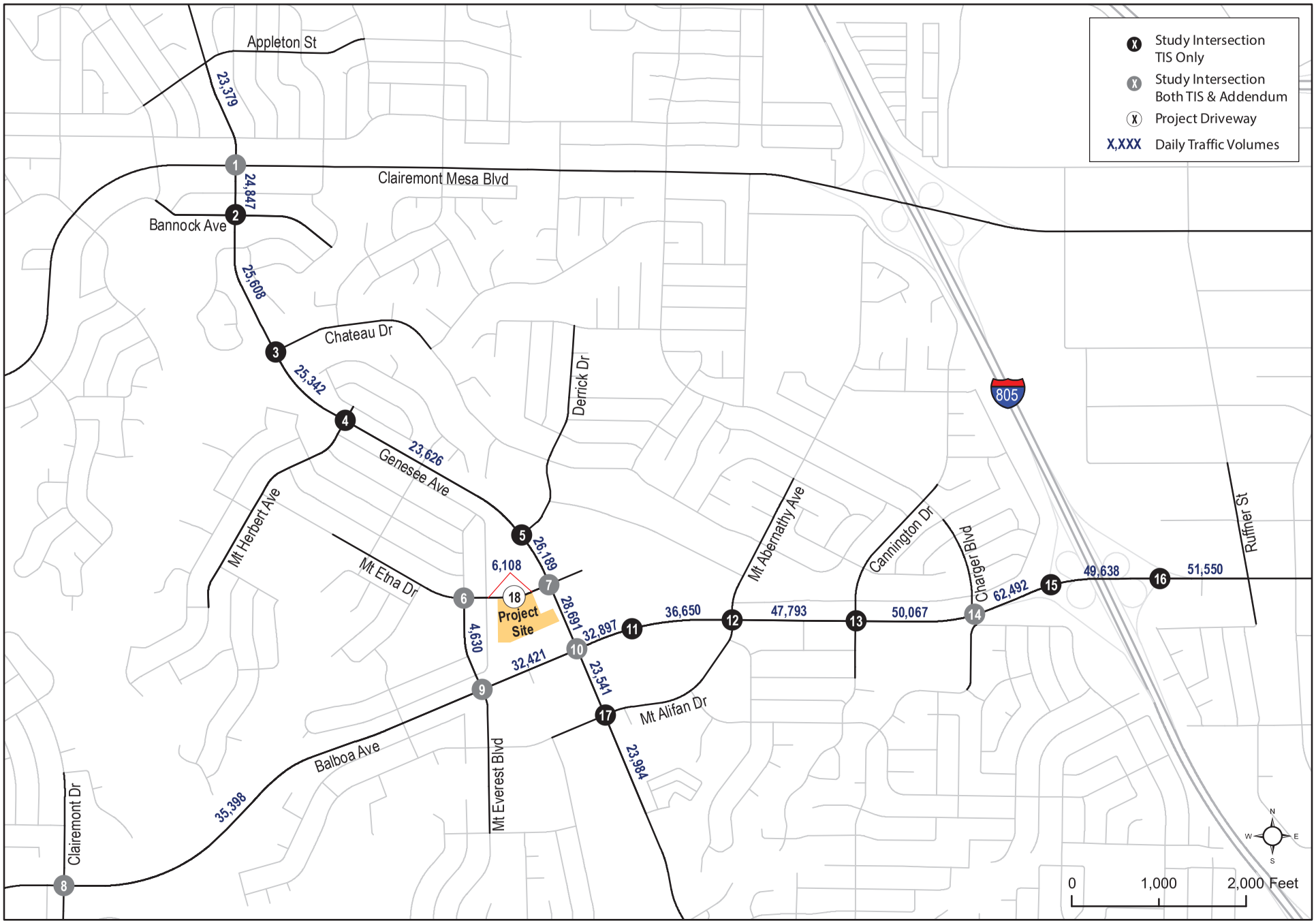
Existing Plus Project traffic volumes were derived by combining the existing traffic volumes from the TIS and Project trip assignment volumes (displayed in Figures 2, 3, and 4). Existing Plus Project daily roadway and peak hour intersection volumes are displayed in **Figure 5, Figure 6,** and **Figure 7** for Access Option 1, Access Option 2, and Access Option 3 conditions, respectively. Also depicted in Figures 5, 6, and 7 is the daily roadway and peak hour intersection volumes for the study roadways and intersections that were previously identified as impact under the old project.

Roadway Segment Analysis

Table 2 displays the roadway segment LOS analysis results under Existing Plus Project Conditions.

As shown in Table 2, all of the study roadway segments would operate at an acceptable LOS D or better with the addition of Project traffic for all three access options.

Based upon the City of San Diego Significance Criteria, outlined in Section 2.5 of the TIS, the traffic associated with the new project would not cause a significant impact to any of the study roadway segments under Existing Plus Project Conditions for all three access options.



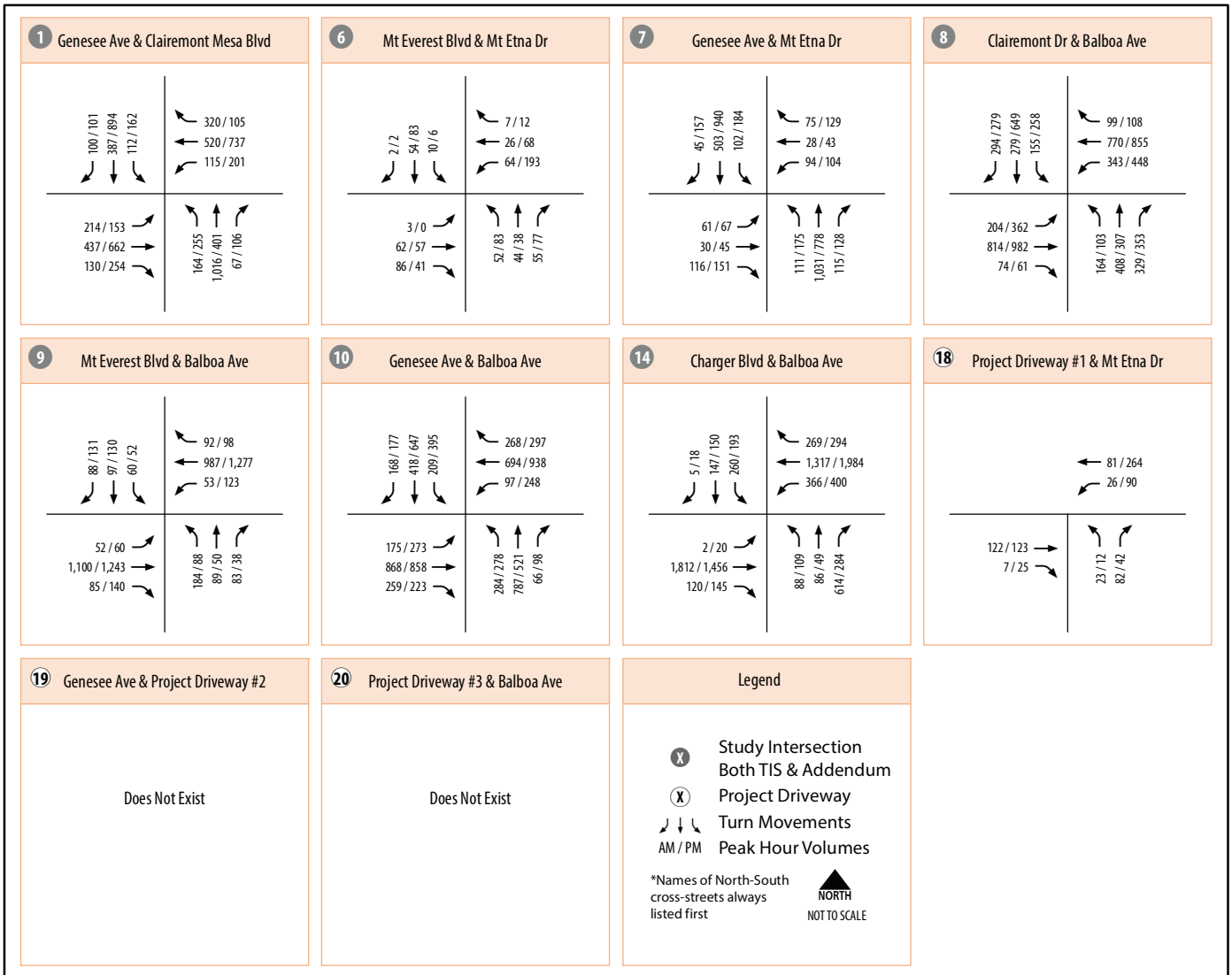
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Figure 5

Existing Plus Project Conditions

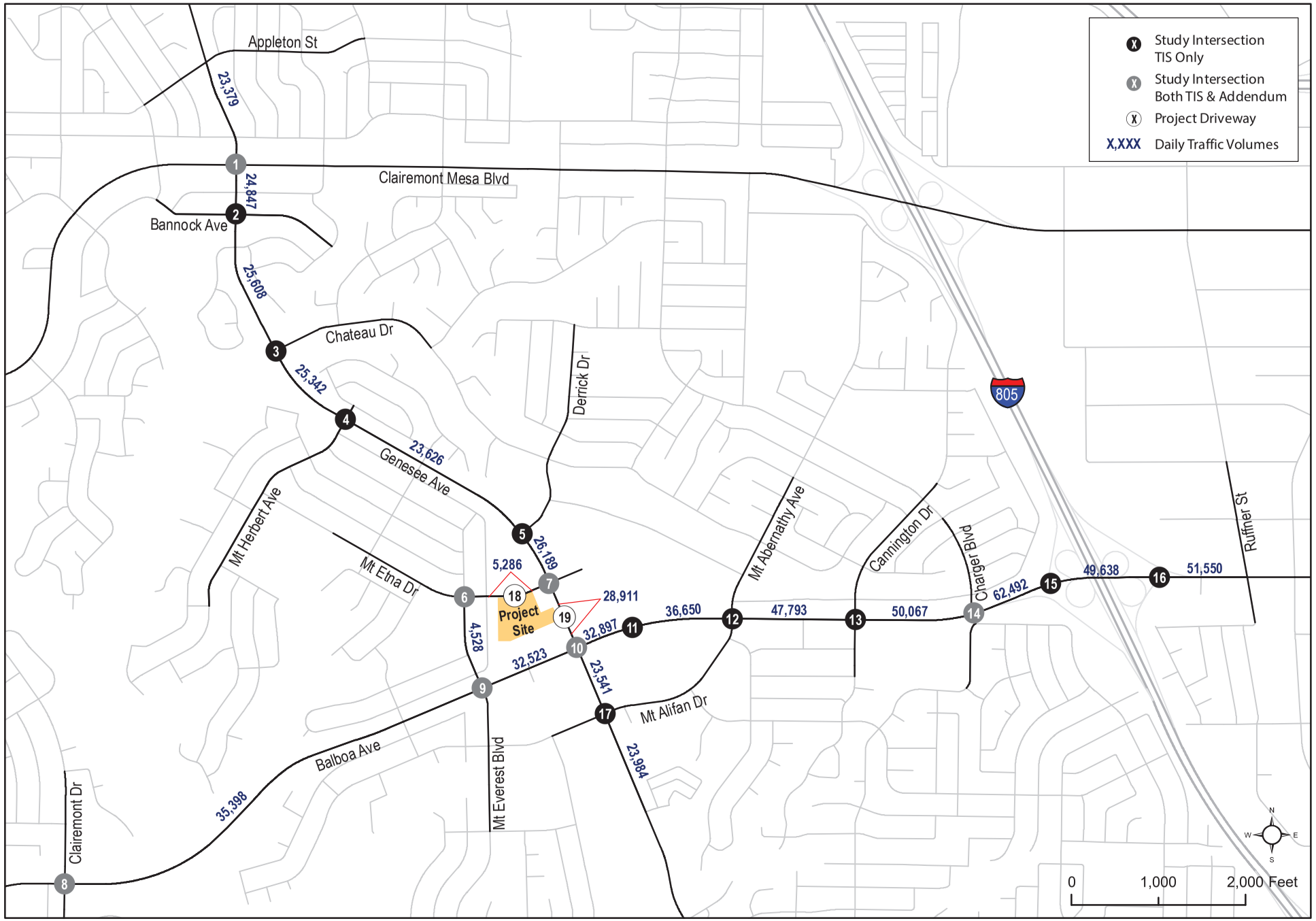
Access Option 1



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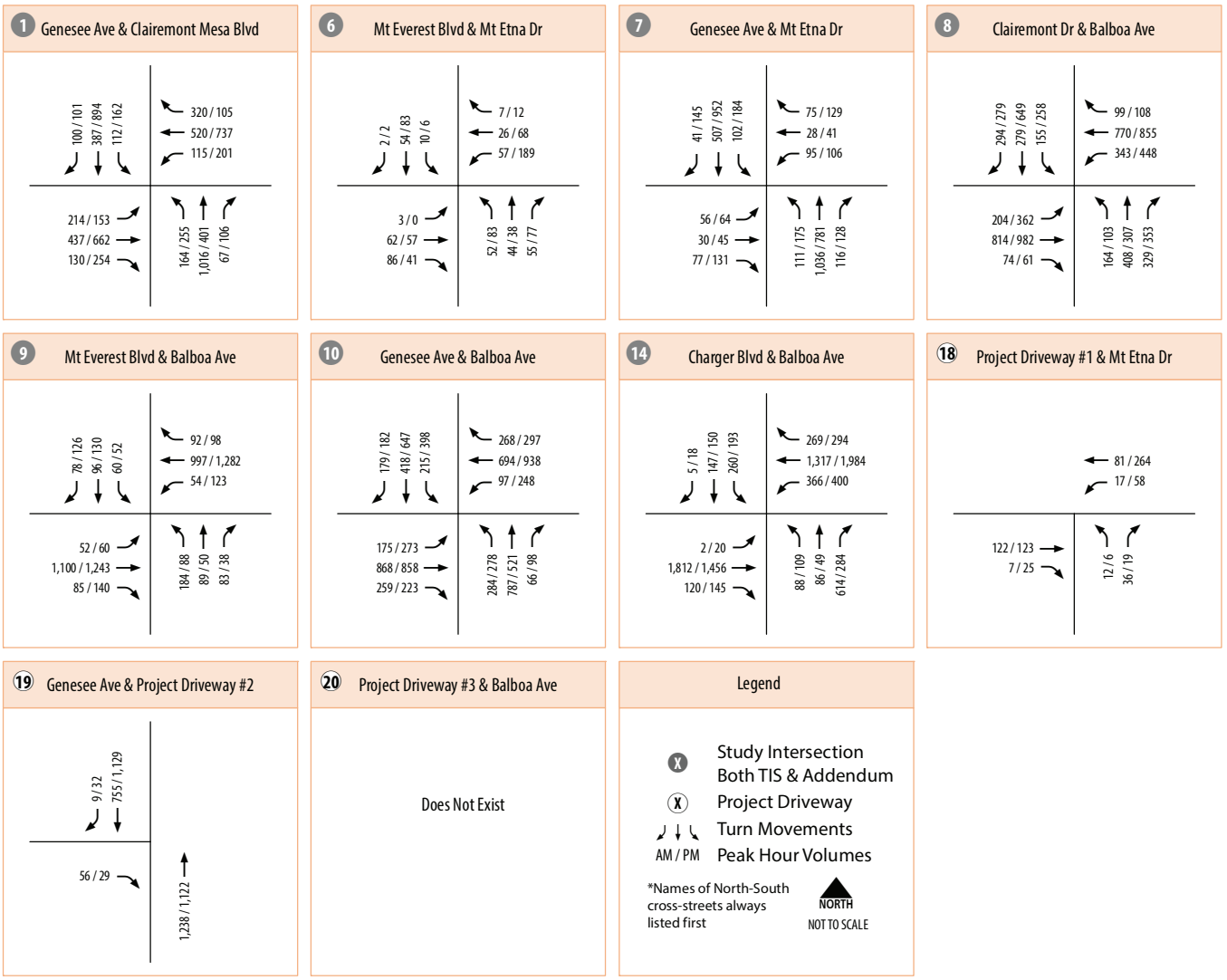
Figure 5
Existing Plus Project Conditions
Access Option 1



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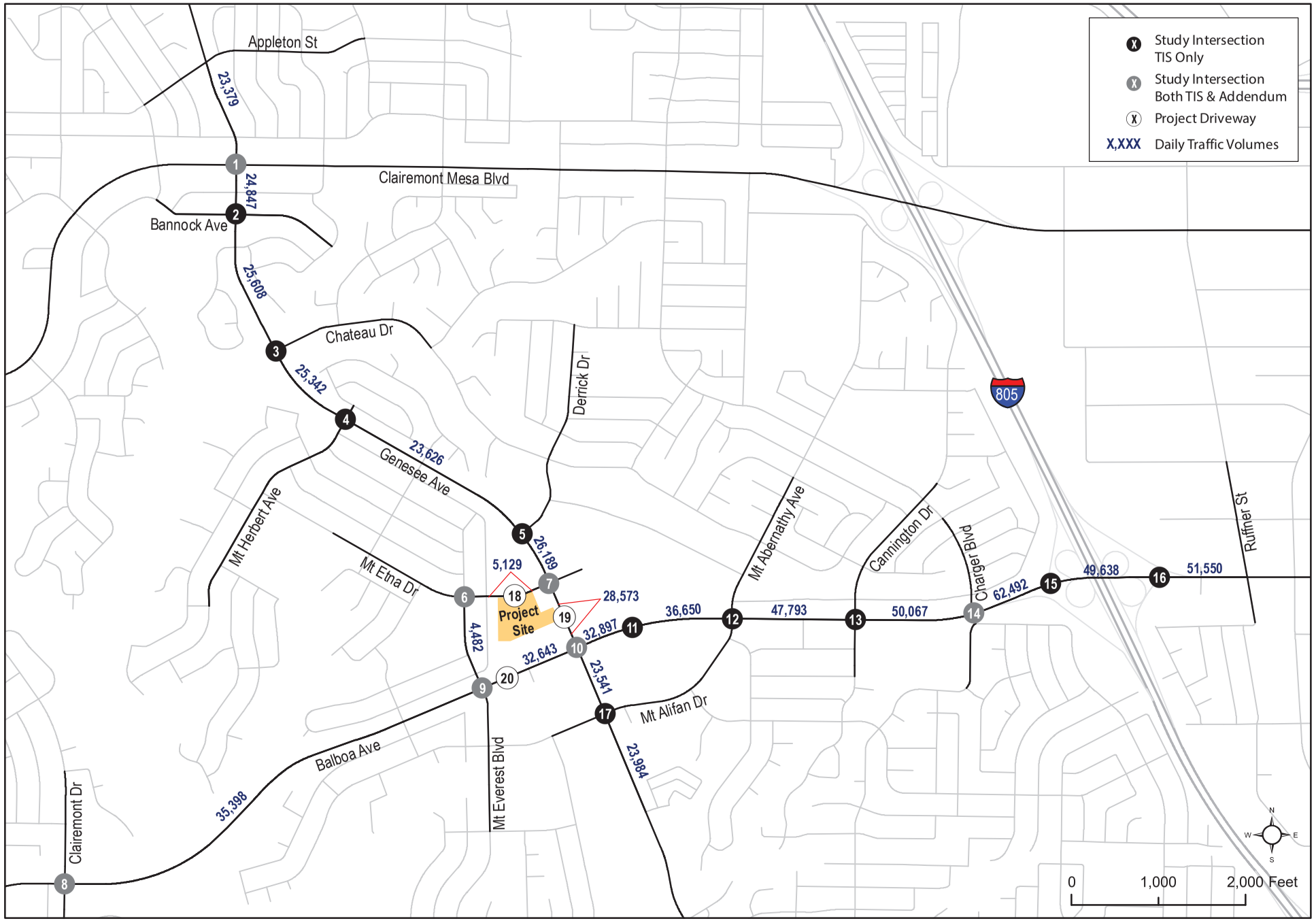
Figure 6
Existing Plus Project Conditions
Access Option 2



Clairemont Mesa Community Plan Amendment and Zone Change - Transportation Impact Study Addendum

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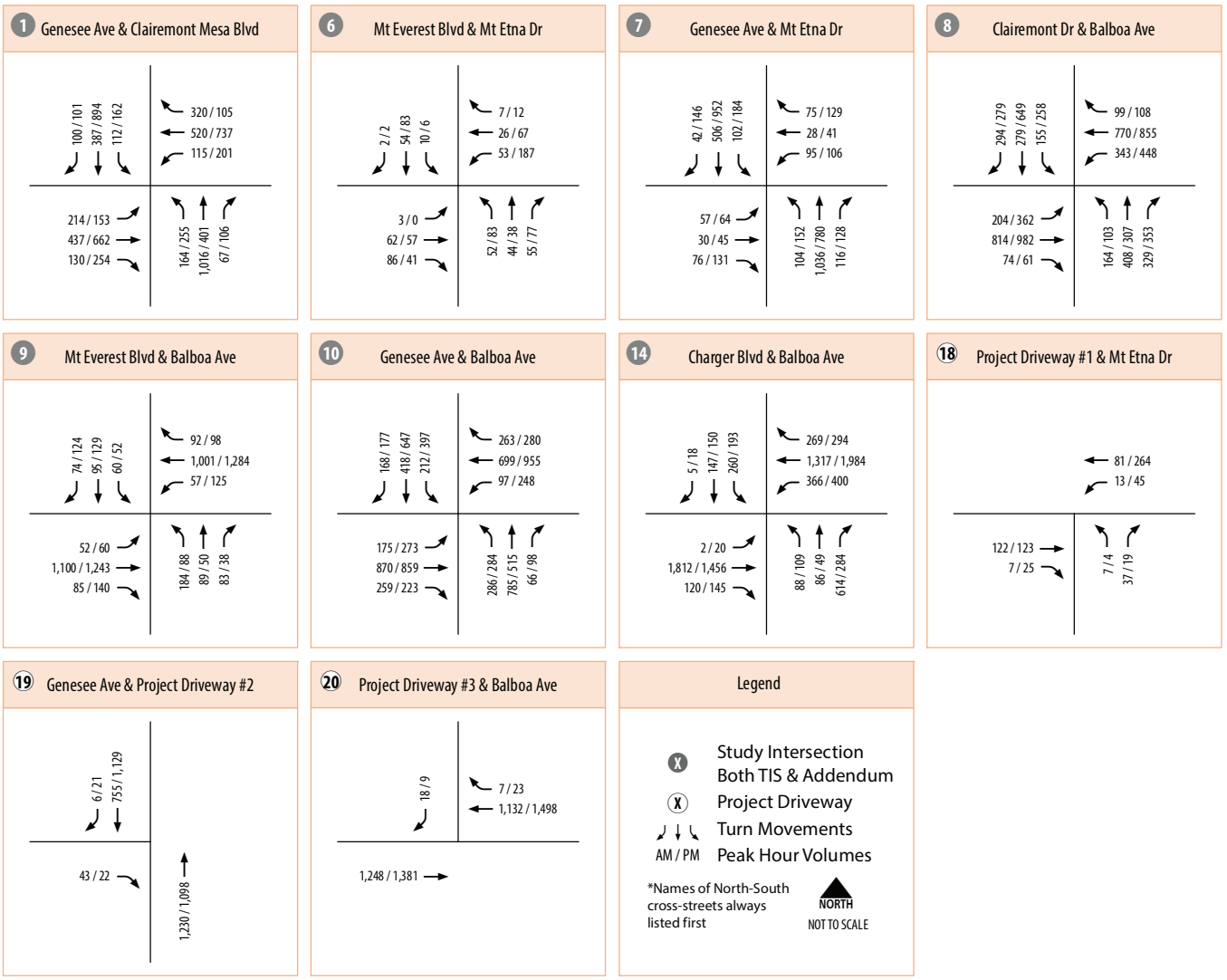
Figure 6
Existing Plus Project Conditions
Access Option 2



Clairemont Mesa Community Plan Amendment and Zone Change - Transportation Impact Study Addendum

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Figure 7
Existing Plus Project Conditions
Access Option 2



Clairemont Mesa Community Plan Amendment and Zone Change - Transportation Impact Study Addendum

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Figure 7
Existing Plus Project Conditions
Access Option 2

Table 2 - Roadway Segment Level of Service Results - Existing Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	Capacity (LOS E)	No Project			With Access Option 1					With Access Option 2					With Access Option 3				
					ADT	V/C	LOS	ADT	V/C	LOS	Δ	S?	ADT	V/C	LOS	Δ	S?	ADT	V/C	LOS	Δ	S?
Genesee Avenue	Between Mt Etna Drive & Balboa Avenue	5-Ln Major Arterial	Raised Median	45,000	27,743	0.617	C	28,691	0.638	C	0.021	N	28,911	0.642	C	0.025	N	28,573	0.635	C	0.018	N
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Ln Collector w/o CLTL	Undivided	8,000	4,206	0.526	C	4,630	0.579	C	0.053	N	4,528	0.566	C	0.040	N	4,482	0.560	C	0.034	N
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	8,000	4,090	0.511	C	6,108	0.764	D	0.253	N	5,286	0.661	D	0.150	N	5,129	0.641	D	0.130	N
Balboa Avenue	Between Mt Everest Boulevard & Genesee Avenue	4-Ln Major Arterial	Raised Median	40,000	32,421	0.811	D	32,421	0.811	D	0.000	N	32,523	0.813	D	0.002	N	32,643	0.816	D	0.005	N

Notes:
Bold letter indicates unacceptable LOS E or F.
V/C = Volume to Capacity Ratio.
Ln = Lane.
S? = Indicates if change in V/C ratio is significant.
ADT = Average Daily Traffic.
LOS = Level of Service.
CLTL = Continuous Left-Turn Lane.
Δ = Change in V/C Ratio.

Intersection Analysis

Table 3 displays intersection LOS and average vehicle delay results under Existing Plus Project Conditions for all three access options. LOS calculation worksheets for Existing Plus Project Conditions are provided in Attachment A.

As shown in Table 3, the following study intersections would operate at unacceptable LOS E/F during one or both of the peak hours:

Access Option 1:

9. Mt Everest Boulevard & Balboa Avenue – LOS F during the AM peak hour and LOS E during the PM peak hour; and
10. Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour.

Access Option 2:

9. Mt Everest Boulevard & Balboa Avenue – LOE during both AM and PM peak hour; and
10. Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour.

Access Option 3:

9. Mt Everest Boulevard & Balboa Avenue – LOS E during both AM and PM peak hours; and
10. Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour.

Based upon the City of San Diego Significance Criteria, outlined in Section 2.5 of the TIS, the traffic associated with the project would cause a significant impact to the following study intersections under Existing Plus Project Conditions:

Access Option 1:

9. Mt Everest Boulevard & Balboa Avenue.

Access Option 3:

9. Mt Everest Boulevard & Balboa Avenue; and
10. Genesee Avenue & Balboa Avenue.

Table 3 - Peak Hour Intersection Level of Service Results - Existing Plus Project Conditions

Intersection	Control	No Project		With Access Option 1				With Access Option 2				With Access Option 3			
		Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM
6. Mt Everest Boulevard & Mt Etna Drive	AWSC	9.0 / 10.6	A / B	9.2 / 11.0	A / B	0.2 / 0.4	N / N	9.1 / 10.9	A / B	0.1 / 0.3	N / N	1.2 / 2.3	A / A	-7.8 / -8.3	N / N
7. Genesee Avenue & Mt Etna Drive	Signal	20.1 / 24.5	C / C	22.5 / 25.4	C / C	2.4 / 0.9	N / N	21.2 / 25.1	C / C	1.1 / 0.6	N / N	21.1 / 25.0	C / C	1.0 / 0.5	N / N
9. Mt Everest Boulevard & Balboa Avenue	Signal	73.7 / 58.7	**E / E**	80.1 / 59.5	**F / E**	6.4 / 0.8	**Y** / N	75.0 / 59.2	**E / E**	1.3 / 0.5	N / N	78.7 / 62.7	**E / E**	5.0 / 4.0	**Y / Y**
10. Genesee Avenue & Balboa Avenue	Signal	36.3 / 59.1	D / **E**	36.9 / 59.4	D / **E**	0.6 / 0.3	N / N	37.0 / 59.8	D / **E**	0.7 / 0.7	N / N	37.8 / 63.2	D / **E**	1.5 / 4.1	N / **Y**
18. Project Driveway #1 & Mt Etna Drive	SSSC	DNE	DNE	9.9 / 10.5	A / B	9.9 / 10.5	N / N	9.5 / 10.1	A / B	9.5 / 10.1	N / N	9.3 / 9.7	A / A	9.3 / 9.7	N / N
19. Project Driveway #2 & Genesee Avenue	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	11.9 / 17.3	B / C	11.9 / 17.3	N / N	11.7 / 16.8	B / C	11.7 / 16.8	N / N
20. Project Driveway #3 & Balboa Avenue	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.7 / 16.8	B / C	13.7 / 16.8	N / N

Notes:
Bold letter indicates unacceptable LOS E or F and significant impact.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
DNE = Does Not Exist.

Near-Term Base (Year 2021) Plus Project Conditions

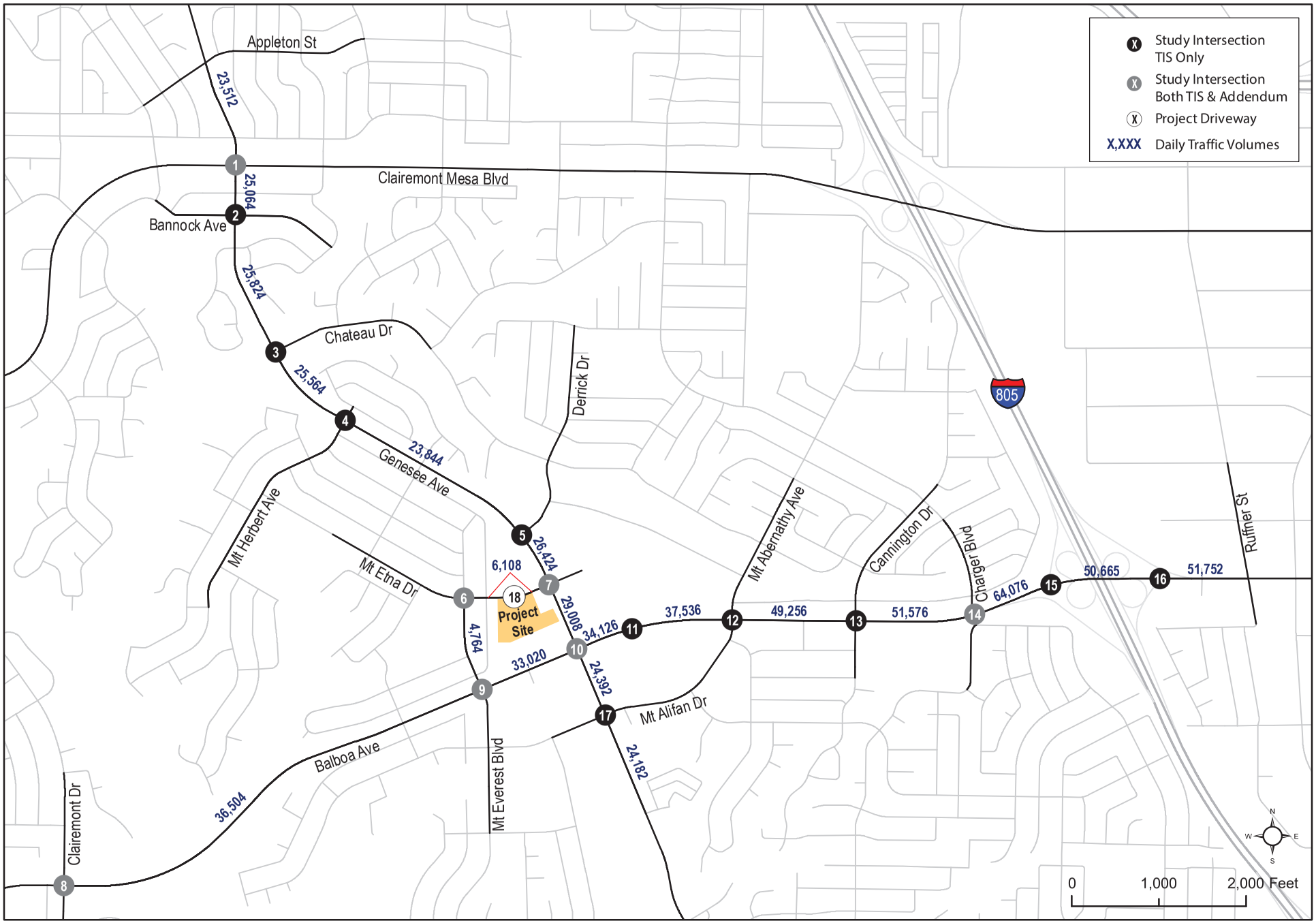
Near-Term Base (Year 2021) Plus Project traffic volumes were derived by combining the Near-Term Base (Year 2021) traffic volumes from the TIS and Project trip assignment volumes (displayed in Figures 2, 3, and 4). Near-Term Base (Year 2021) Plus Project daily roadway and peak hour intersection volumes are displayed in **Figure 8**, **Figure 9**, and **Figure 10** for Access Option 1, Access Option 2, and Access Option 3 conditions, respectively. Also depicted in Figures 8, 9, and 10 is the daily roadway and peak hour intersection volumes for the study roadways and intersections that were previously identified as impact under the old project.

Roadway Segment Analysis

Table 4 displays the roadway segment LOS analysis results under Near-Term Base (Year 2021) Plus Project Conditions.

As shown in Table 4, all of the study roadway segments would operate at an acceptable LOS D or better with the addition of Project traffic for all three access options.

Based upon the City of San Diego Significance Criteria, outlined in Section 2.5 of the TIS, the traffic associated with the new project would not cause a significant impact to any of the study roadway segments under Near-Term Base (Year 2021) Plus Project Conditions for all three access options.



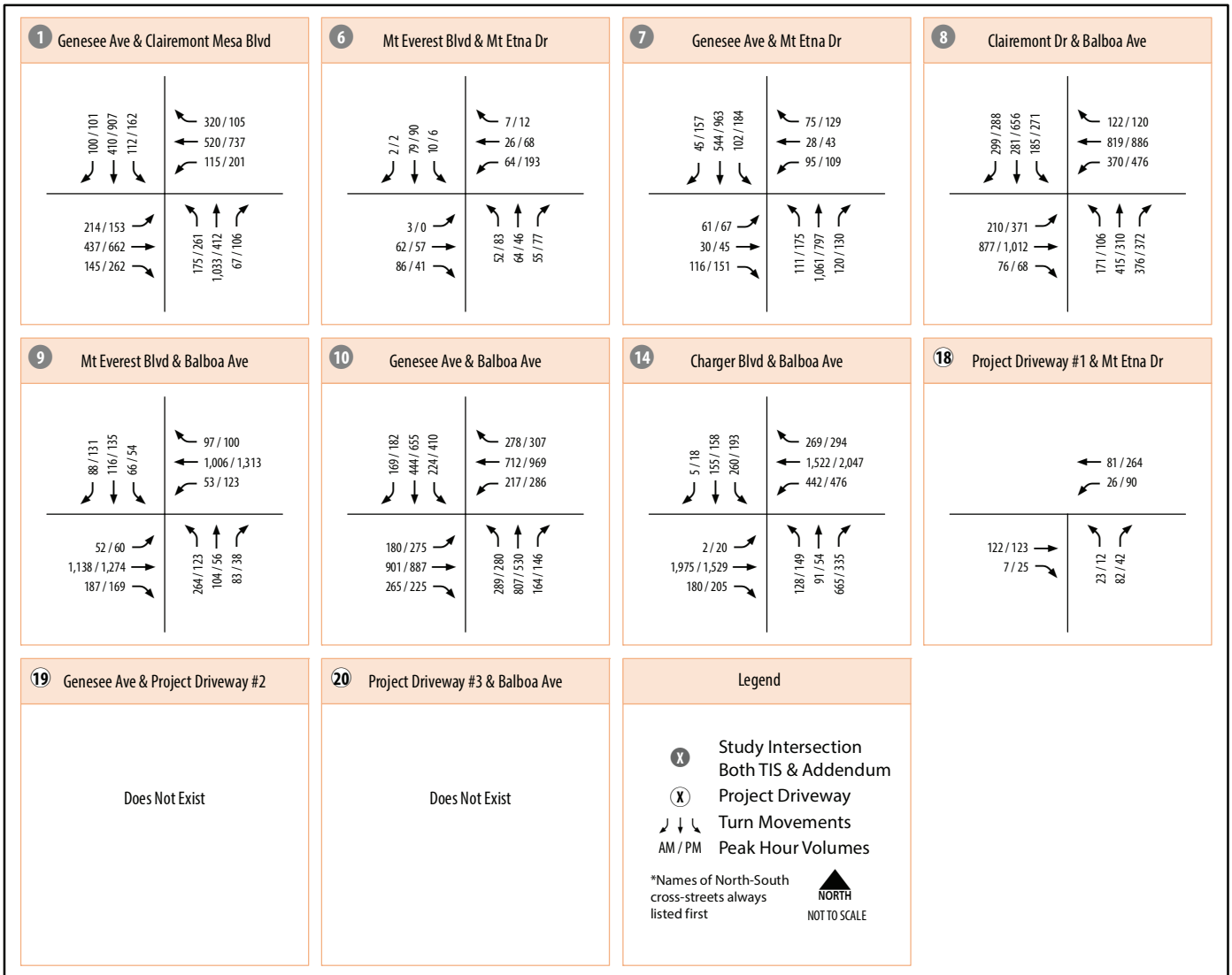
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Figure 8

Near-Term Base (Year 2021) Plus Project Conditions

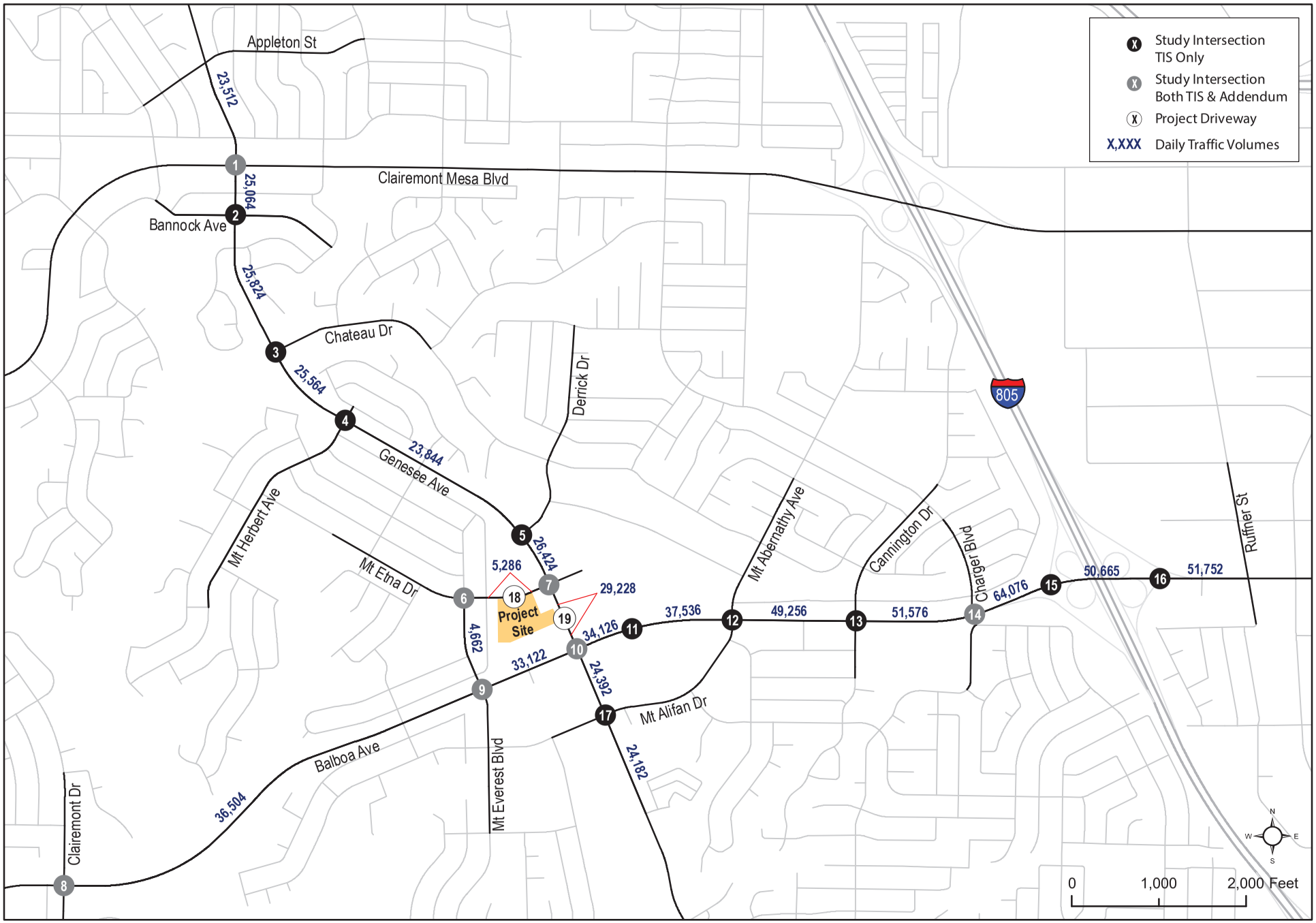
Access Option 1



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Figure 8
Near-Term Base (Year 2021) Plus Project Conditions
Access Option 1

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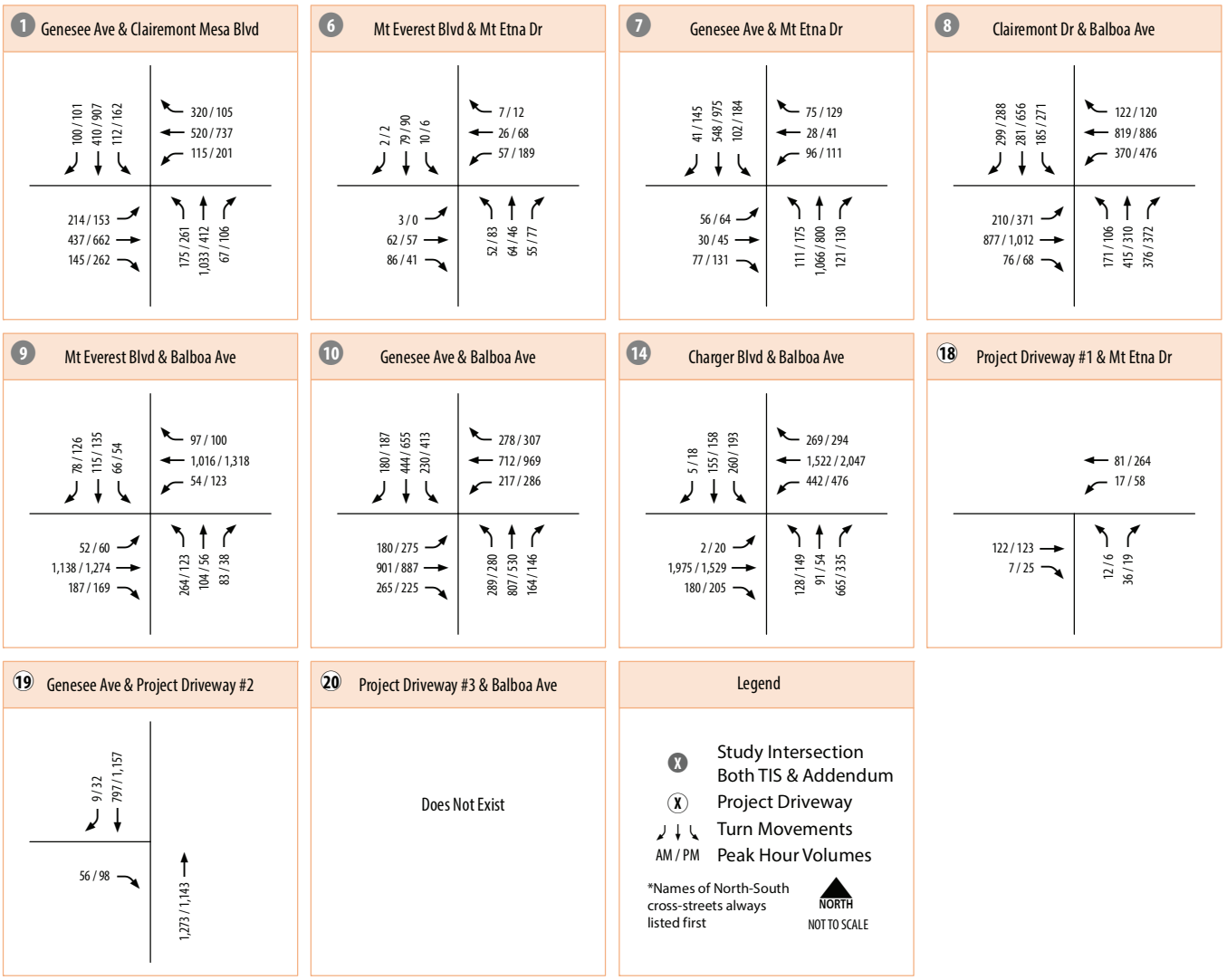
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Figure 9

Near-Term Base (Year 2021) Plus Project Conditions

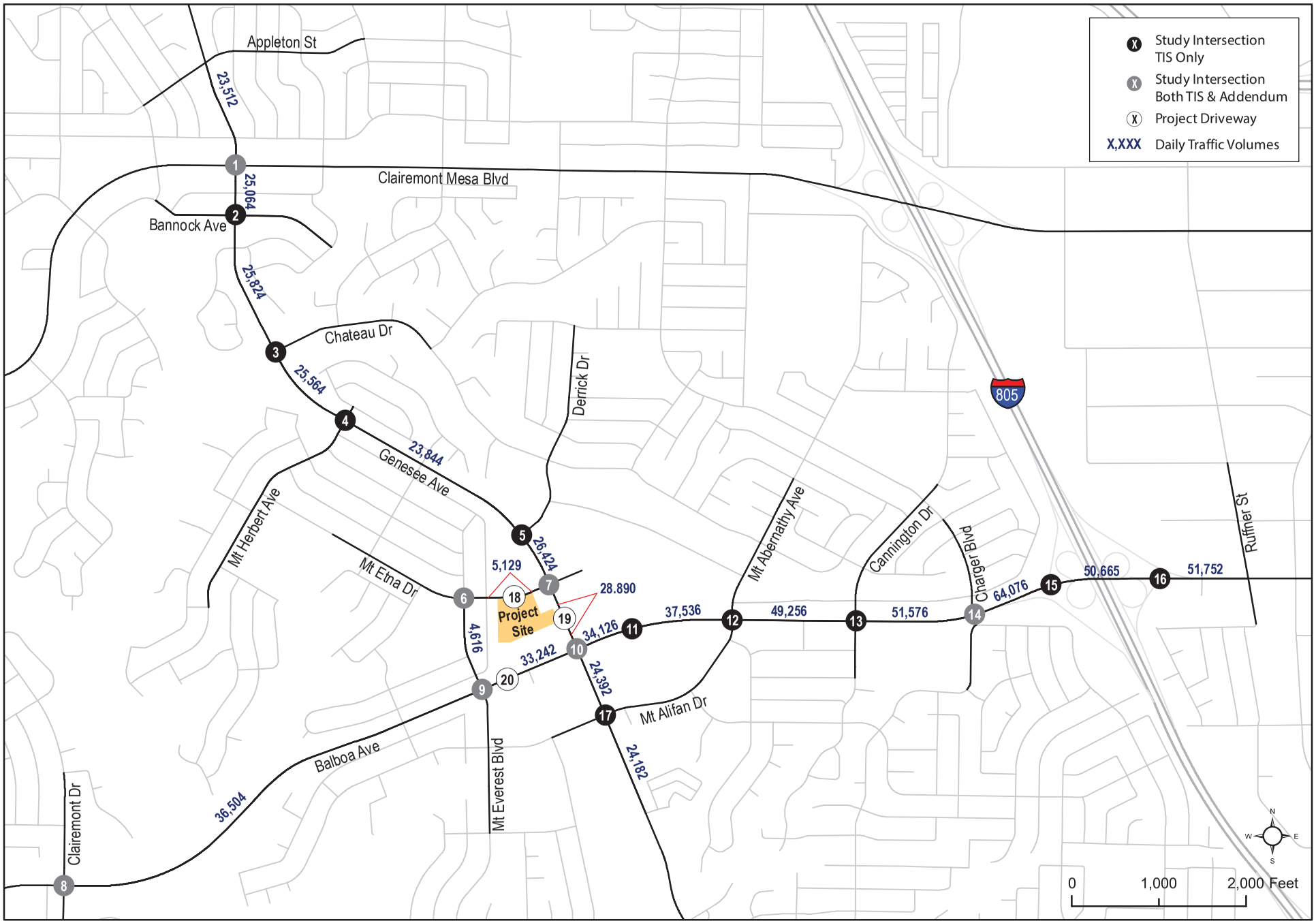
Access Option 2



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Figure 9
Near-Term Base (Year 2021) Plus Project Conditions
Access Option 2

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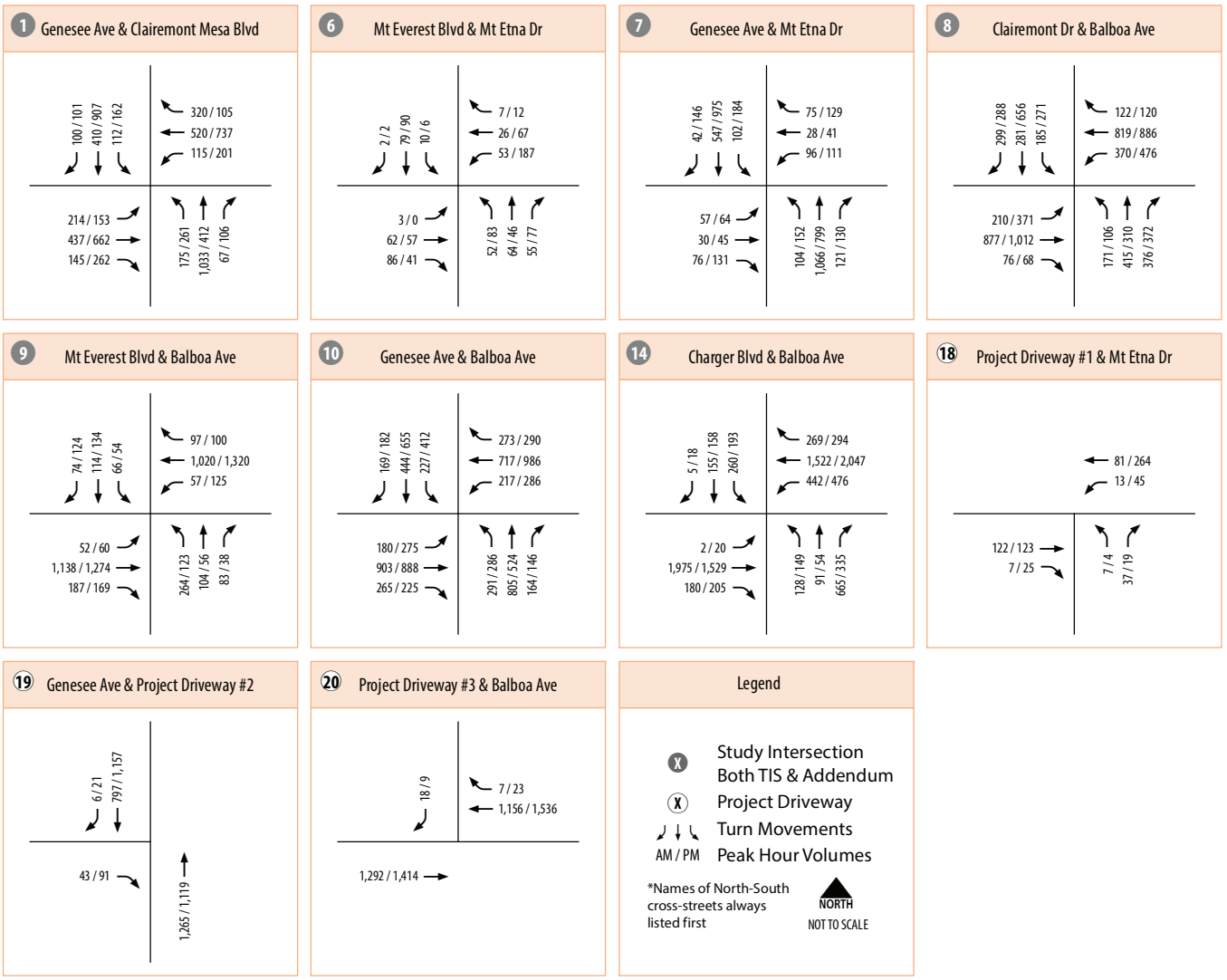
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Figure 10

Near-Term Base (Year 2021) Plus Project Conditions

Access Option 3



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Figure 10
Near-Term Base (Year 2021) Plus Project Conditions
Access Option 3

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Table 4 - Roadway Segment Level of Service Results - Near-Term Base (Year 2021) Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	Capacity (LOS E)	No Project			With Access Option 1					With Access Option 2					With Access Option 3				
					ADT	V/C	LOS	ADT	V/C	LOS	Δ	S?	ADT	V/C	LOS	Δ	S?	ADT	V/C	LOS	Δ	S?
Genesee Avenue	Between Mt Etna Drive & Balboa Avenue	5-Ln Major Arterial	Raised Median	45,000	28,060	0.624	C	29,008	0.645	C	0.021	N	29,228	0.650	C	0.026	N	28,890	0.642	C	0.018	N
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Ln Collector w/o CLTL	Undivided	8,000	4,340	0.543	C	4,764	0.596	C	0.053	N	4,662	0.583	C	0.040	N	4,616	0.577	C	0.034	N
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	8,000	4,090	0.511	C	6,108	0.764	D	0.253	N	5,286	0.661	D	0.150	N	5,129	0.641	D	0.130	N
Balboa Avenue	Between Mt Everest Boulevard & Genesee Avenue	4-Ln Major Arterial	Raised Median	40,000	33,020	0.826	D	33,020	0.826	D	0.000	N	33,122	0.828	D	0.002	N	33,242	0.831	D	0.005	N

Notes:
Bold letter indicates unacceptable LOS E or F.
V/C = Volume to Capacity Ratio.
Ln = Lane.
S? = Indicates if change in V/C ratio is significant.
ADT = Average Daily Traffic.
LOS = Level of Service.
CLTL = Continuous Left-Turn Lane.
Δ = Change in V/C Ratio.

Intersection Analysis

Table 5 displays intersection LOS and average vehicle delay results under Near-Term Base (Year 2021) Plus Project Conditions for all three access options. LOS calculation worksheets for Near-Term Base (Year 2021) Plus Project Conditions are provided in Attachment B.

As shown in Table 5, the following study intersections would operate at unacceptable LOS E/F during one or both of the peak hours:

Access Option 1:

9. Mt Everest Boulevard & Balboa Avenue – LOS F during the AM peak hour and LOS E during the PM peak hour; and
10. Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour.

Access Option 2:

9. Mt Everest Boulevard & Balboa Avenue – LOS F during the AM peak hour and LOS E during the PM peak hour; and
10. Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour.

Access Option 3:

9. Mt Everest Boulevard & Balboa Avenue – LOS F during the AM peak hour and LOS E during the PM peak hour; and
10. Genesee Avenue & Balboa Avenue – LOS E during the PM peak hour.

Based upon the City of San Diego Significance Criteria, outlined in Section 2.5 of the TIS, the traffic associated with the new project would cause a significant impact to the following study intersections under Near-Term Base (Year 2021) Plus Project Conditions:

Access Option 1:

9. Mt Everest Boulevard & Balboa Avenue.

Access Option 2:

9. Mt Everest Boulevard & Balboa Avenue.

Access Option 3:

9. Mt Everest Boulevard & Balboa Avenue; and
10. Genesee Avenue & Balboa Avenue.

Table 5 - Peak Hour Intersection Level of Service Results - Near-Term Base (Year 2021) Plus Project Conditions

		No Project		With Access Option 1				With Access Option 2				With Access Option 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM
6. Mt Everest Boulevard & Mt Etna Drive	AWSC	9.4 / 10.8	A / B	9.6 / 11.1	A / B	0.2 / 0.3	N / N	9.5 / 11.0	A / B	0.1 / 0.2	N / N	9.5 / 11.0	A / B	0.1 / 0.2	N / N
7. Genesee Avenue & Mt Etna Drive	Signal	19.7 / 24.6	B / C	22.1 / 25.6	C / C	2.4 / 1.0	N / N	20.8 / 25.2	C / C	1.1 / 0.6	N / N	20.7 / 25.1	C / C	1.0 / 0.5	N / N
9. Mt Everest Boulevard & Balboa Avenue	Signal	116.5 / 64.7	**F / E**	127.7 / 65.5	**F / E**	11.2 / 0.8	**Y** / N	123.4 / 65.2	**F / E**	6.9 / 0.5	**Y** / N	124.5 / 69.5	**F / E**	8.0 / 4.8	**Y / Y**
10. Genesee Avenue & Balboa Avenue	Signal	41.1 / 59.2	D / **E**	41.8 / 60.0	D / **E**	0.7 / 0.8	N / N	41.9 / 60.1	D / **E**	0.8 / 0.9	N / N	43.3 / 64.9	D / **E**	2.2 / 5.7	N / **Y**
18. Project Driveway #1 & Mt Etna Drive	SSSC	DNE	DNE	9.9 / 10.5	A / B	9.9 / 10.5	N / N	9.5 / 10.1	A / B	9.5 / 10.1	N / N	9.3 / 9.7	A / A	9.3 / 9.7	N / N
19. Project Driveway #2 & Genesee Avenue	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	12.1 / 17.7	B / C	12.1 / 17.7	N / N	11.9 / 17.2	B / C	11.9 / 17.2	N / N
20. Project Driveway #3 & Balboa Avenue	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.9 / 17.2	B / C	13.9 / 17.2	N / N

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
DNE = Does Not Exist.

Horizon Year 2050 Plus Project Conditions

Horizon Year 2050 Plus Project traffic volumes were derived by combining the Horizon Year 2050 traffic volumes from the TIS and Project trip assignment volumes (displayed in Figures 2, 3, and 4). Horizon Year 2050 Plus Project daily roadway and peak hour intersection volumes are displayed in **Figure 11**, **Figure 12**, and **Figure 13** for Access Option 1, Access Option 2, and Access Option 3 conditions, respectively. Also depicted in Figures 11, 12, and 13 is the daily roadway and peak hour intersection volumes for the study roadways and intersections that were previously identified as impact under the old project.

Roadway Segment Analysis

Table 6 displays the roadway segment LOS analysis results under Horizon Year 2050 Plus Project Conditions.

As shown in Table 6, the following study roadway segments would operate at unacceptable LOS E/F:

Access Option 1:

- Mt Etna Drive, between Mt Everest Boulevard & Genesee Avenue (LOS E).

Access Option 2:

- Balboa Avenue, between Mt Everest Boulevard & Genesee Avenue (LOS E).

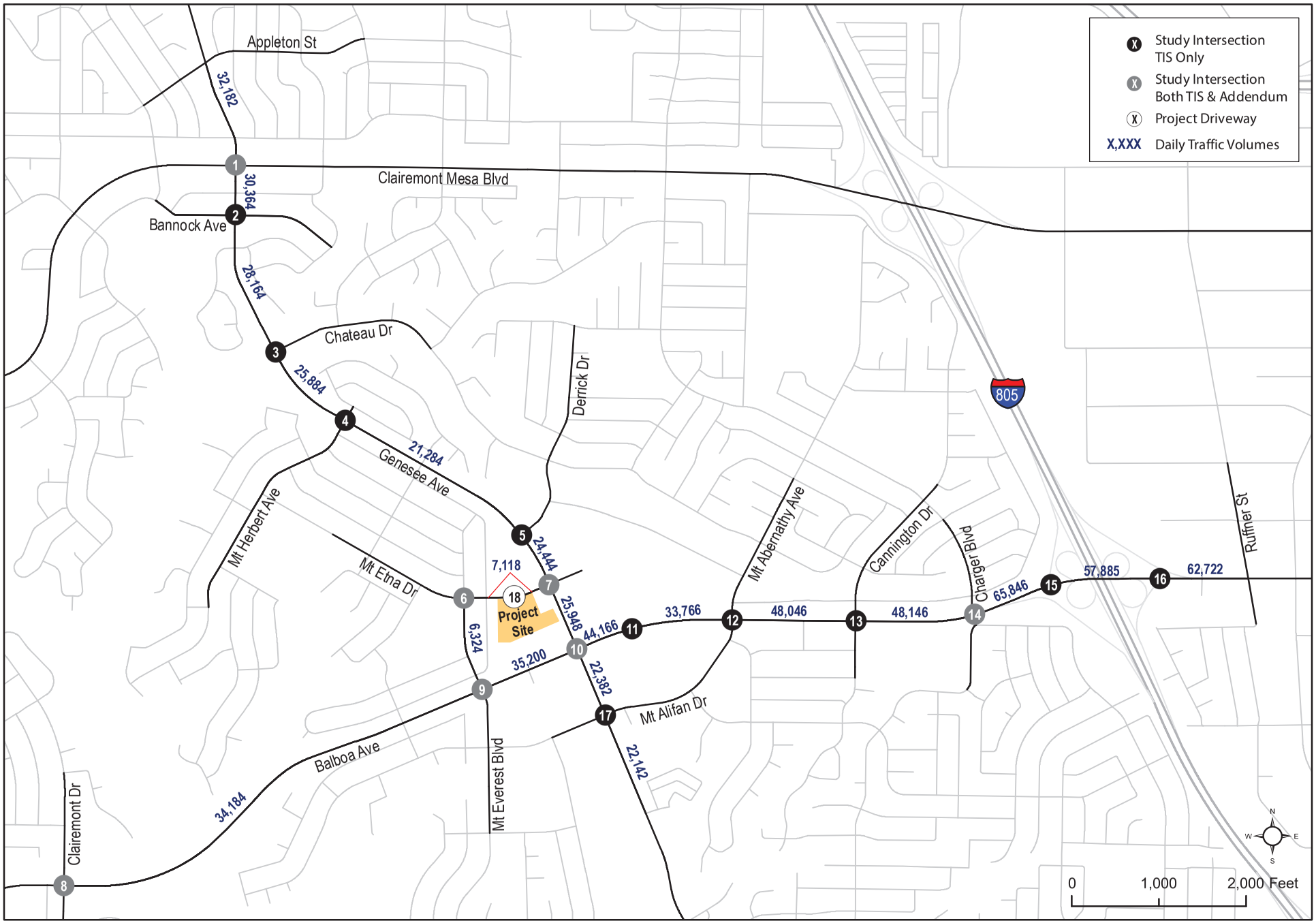
Access Option 3:

- Balboa Avenue, between Mt Everest Boulevard & Genesee Avenue (LOS E).

Based upon the City of San Diego Significance Criteria, outlined in Section 2.5 of the TIS, the traffic associated with the project would cause a significant impact to the following roadway segments under Horizon Year 2050 Plus Project Conditions:

Access Option 1:

- Mt Etna Drive, between Mt Everest Boulevard & Genesee Avenue.



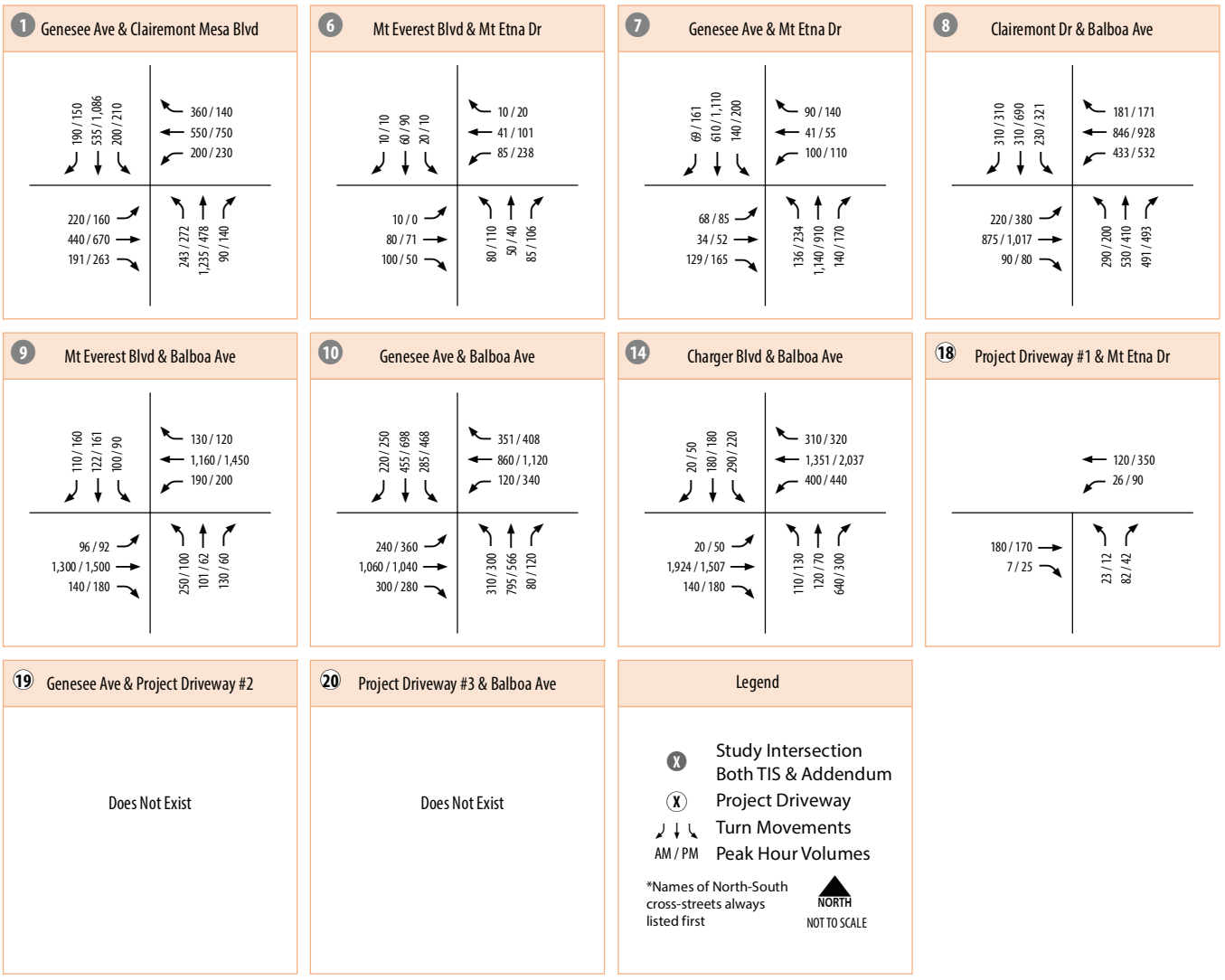
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Figure 11

Horizon Year 2050 Plus Project Conditions

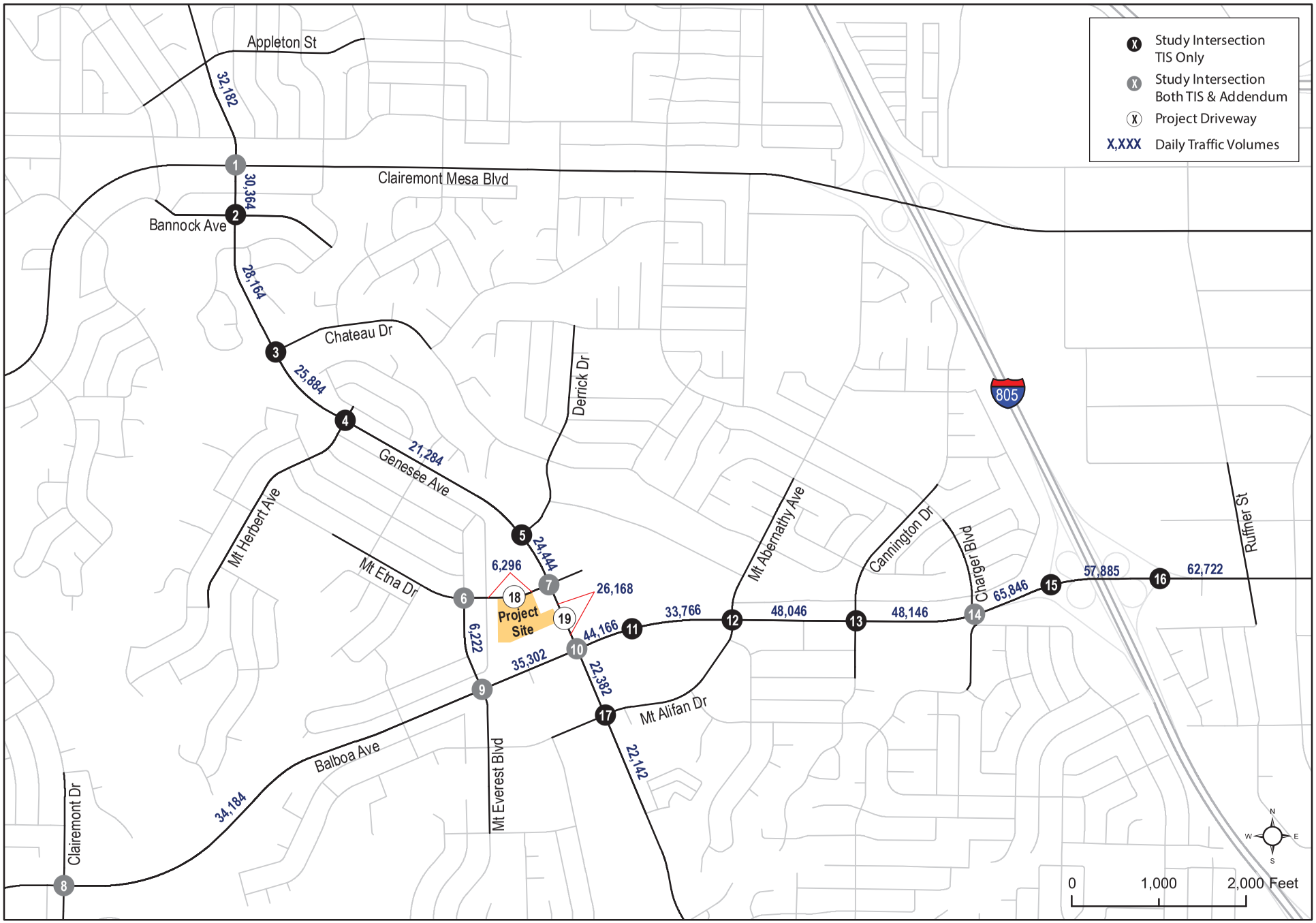
Access Option 1



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Figure 11
Horizon Year 2050 Plus Project Conditions
Access Option 1

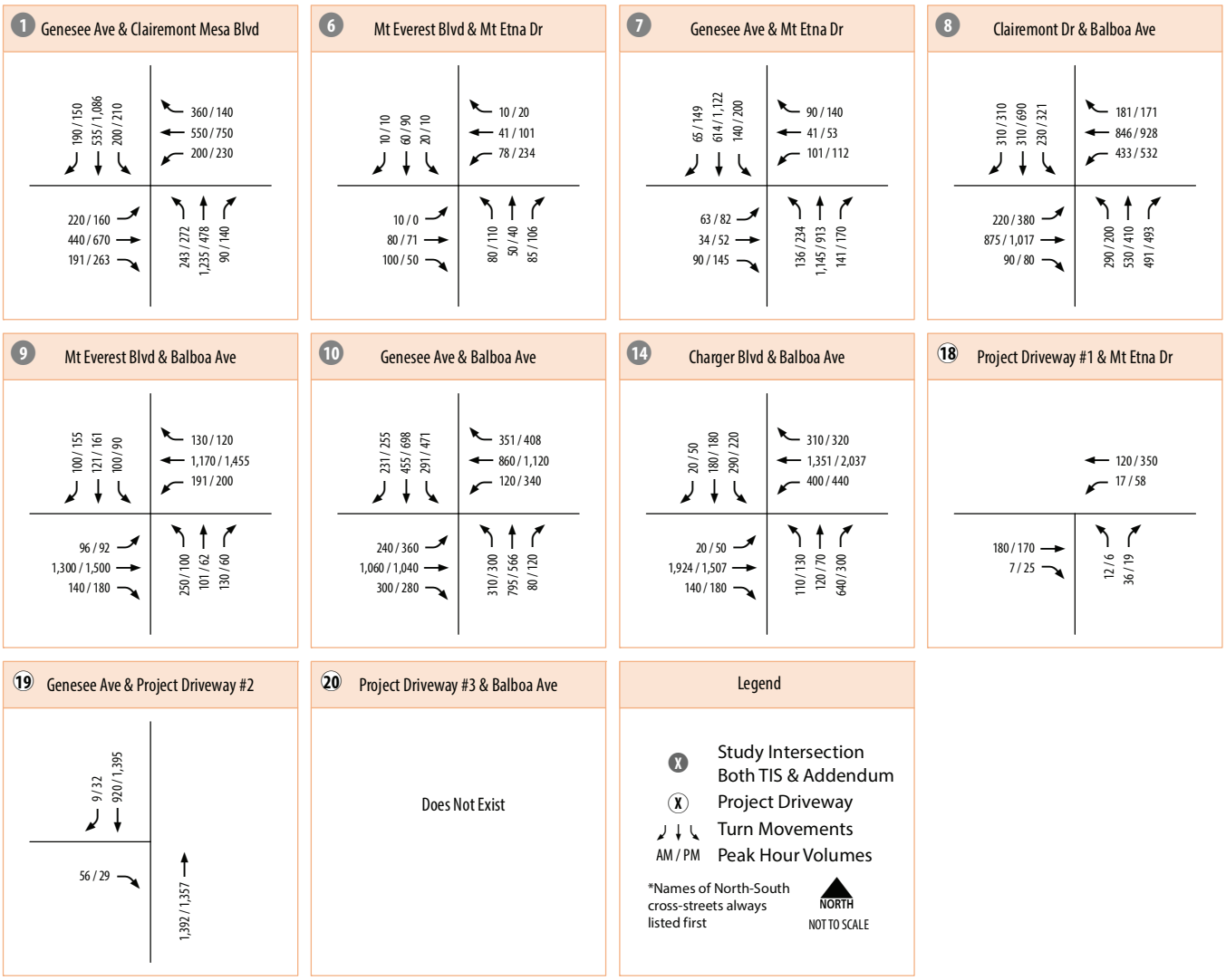
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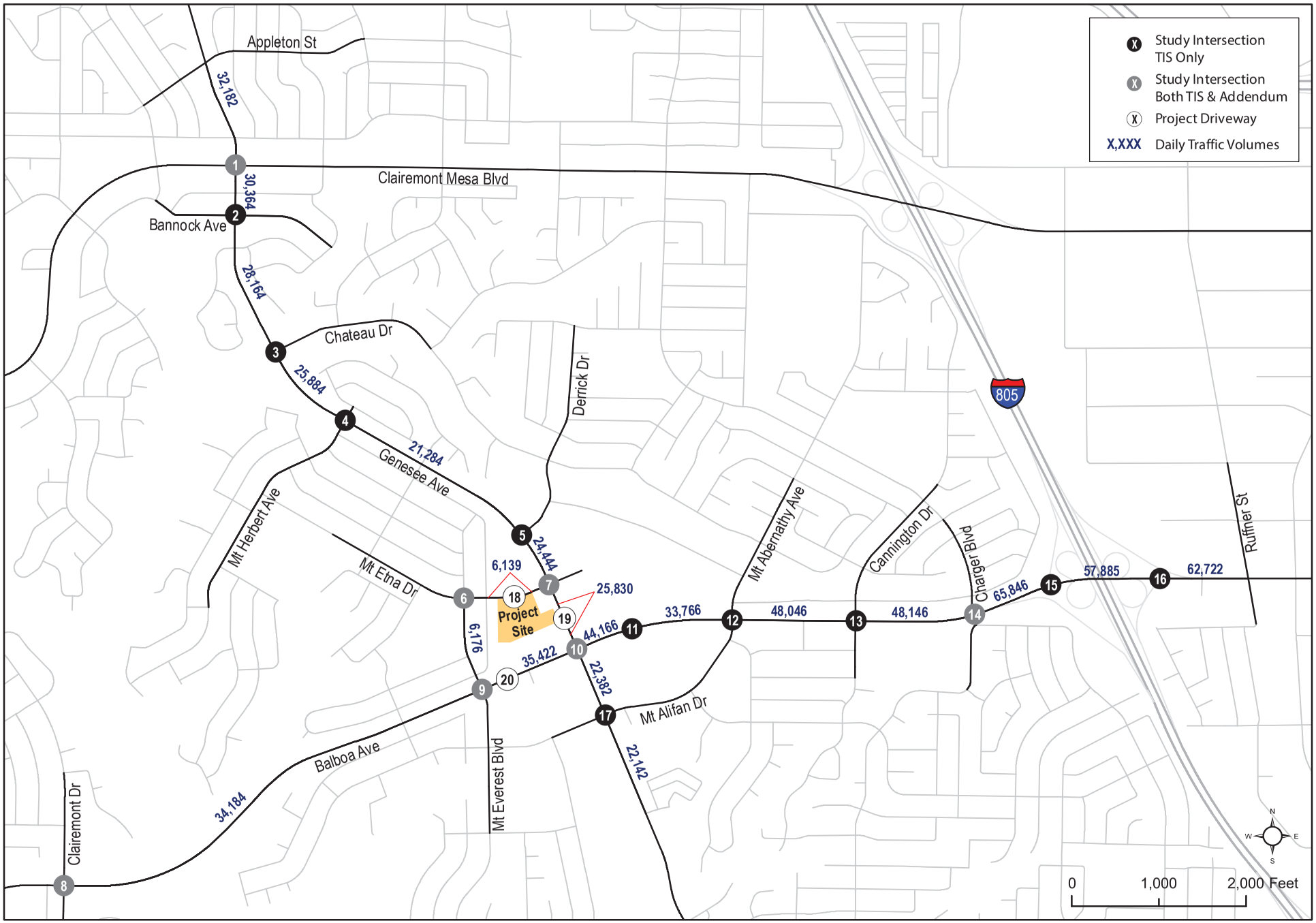
Figure 12
Horizon Year 2050 Plus Project Conditions
Access Option 2



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Figure 12
Horizon Year 2050 Plus Project Conditions
Access Option 2

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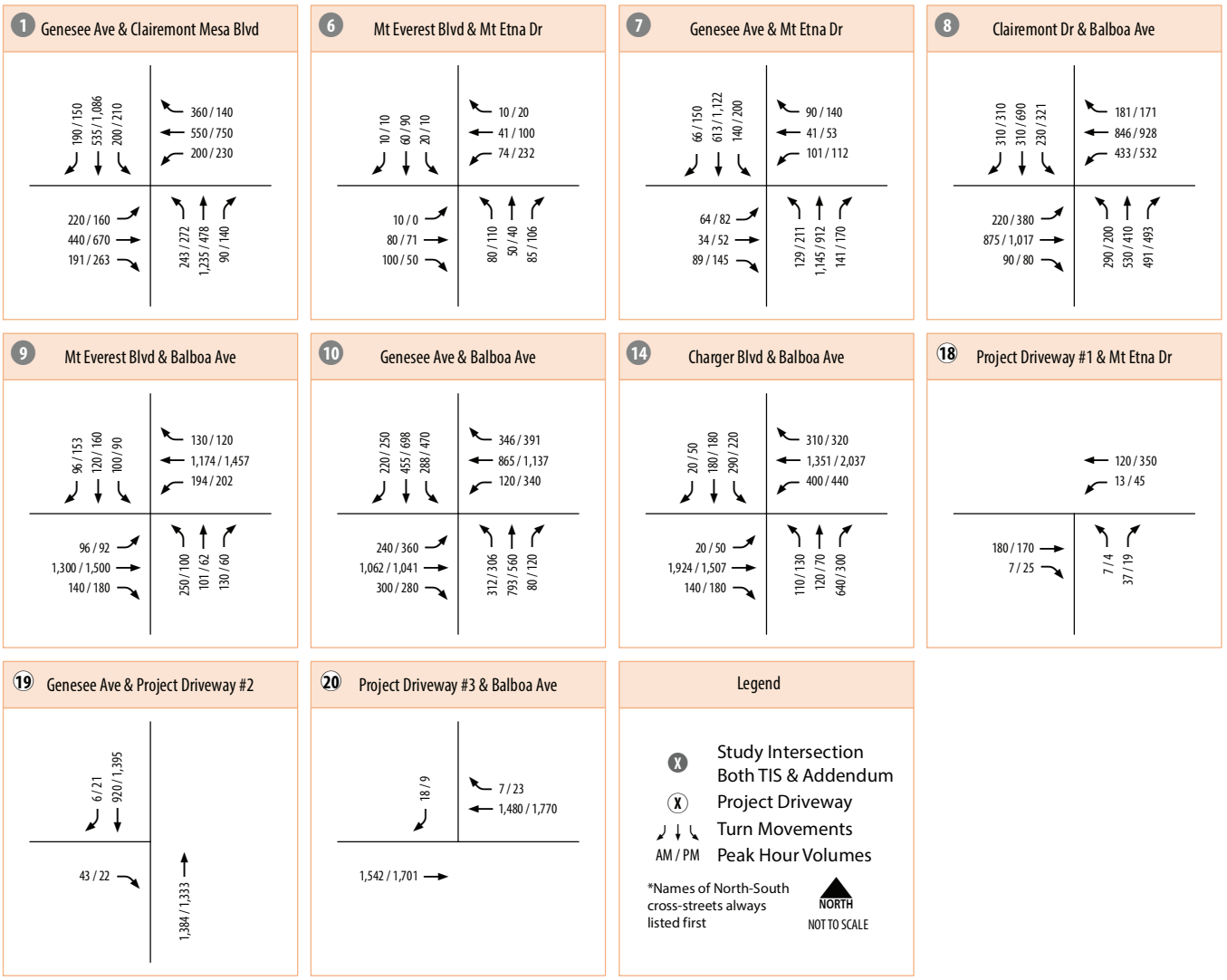
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Figure 13

Horizon Year 2050 Plus Project Conditions

Access Option 3



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Figure 13
Horizon Year 2050 Plus Project Conditions
Access Option 3

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Table 6 - Roadway Segment Level of Service Results – Horizon Year 2050 Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	Capacity (LOS E)	No Project			With Access Option 1					With Access Option 2					With Access Option 3				
					ADT	V/C	LOS	ADT	V/C	LOS	Δ	S?	ADT	V/C	LOS	Δ	S?	ADT	V/C	LOS	Δ	S?
Genesee Avenue	Between Mt Etna Drive & Balboa Avenue	5-Ln Major Arterial	Raised Median	45,000	25,000	0.556	C	25,948	0.577	C	0.021	N	26,168	0.582	C	0.026	N	25,830	0.574	C	0.018	N
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Ln Collector w/o CLTL	Undivided	8,000	5,900	0.738	D	6,324	0.791	D	0.053	N	6,222	0.778	D	0.040	N	6,176	0.772	D	0.034	N
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	8,000	5,100	0.638	D	7,118	0.890	**E**	0.252	**Y**	6,296	0.787	D	0.149	N	6,139	0.767	D	0.129	N
Balboa Avenue	Between Mt Everest Boulevard & Genesee Avenue	4-Ln Major Arterial	Raised Median	40,000	35,200	0.880	**E**	35,200	0.880	**E**	0.000	N	35,302	0.883	**E**	0.003	N	35,422	0.886	**E**	0.006	N

Notes:

Bold letter indicates unacceptable LOS E or F.
V/C = Volume to Capacity Ratio.
Ln = Lane.
S? = Indicates if change in V/C ratio is significant.
ADT = Average Daily Traffic.
LOS = Level of Service.
CLTL = Continuous Left-Turn Lane.
Δ = Change in V/C Ratio.

Intersection Analysis

Table 7 displays intersection LOS and average vehicle delay results under Horizon Year 2050 Plus Project Conditions for all three access options. LOS calculation worksheets for Horizon Year 2050 Plus Project Conditions are provided in Attachment C.

As shown in Table 7, the following study intersections would operate at unacceptable LOS E/F during one or both of the peak hours:

Access Option 1:

9. Mt Everest Boulevard & Balboa Avenue – LOS F during both AM and PM peak hours; and
10. Genesee Avenue & Balboa Avenue – LOS F during the PM peak hour.

Access Option 2:

9. Mt Everest Boulevard & Balboa Avenue – LOS F during both AM and PM peak hours; and
10. Genesee Avenue & Balboa Avenue – LOS F during the PM peak hour.

Access Option 3:

9. Mt Everest Boulevard & Balboa Avenue – LOS F during both AM and PM peak hours; and
10. Genesee Avenue & Balboa Avenue – LOS F during the PM peak hour.

Based upon the City of San Diego Significance Criteria, outlined in Section 2.5 of the TIS, the traffic associated with the project would cause a significant impact to the following study intersections under Horizon Year 2050 Plus Project Conditions:

Access Option 1:

9. Mt Everest Boulevard & Balboa Avenue; and
10. Genesee Avenue & Balboa Avenue.

Access Option 2:

9. Mt Everest Boulevard & Balboa Avenue; and
10. Genesee Avenue & Balboa Avenue.

Access Option 3:

9. Mt Everest Boulevard & Balboa Avenue; and
10. Genesee Avenue & Balboa Avenue.

Table 7 - Peak Hour Intersection Level of Service Results – Horizon Year 2050 Plus Project Conditions

		No Project		With Access Option 1				With Access Option 2				With Access Option 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	Significant Impact? AM/PM
6. Mt Everest Boulevard & Mt Etna Drive	AWSC	10.8 / 13.9	B / B	11.1 / 14.6	B / B	0.3 / 0.7	N / N	11.0 / 14.4	B / B	0.2 / 0.5	N / N	11.0 / 14.3	B / B	0.2 / 0.4	N / N
7. Genesee Avenue & Mt Etna Drive	Signal	21.7 / 26.6	C / C	23.6 / 27.4	C / C	1.9 / 0.8	N / N	22.8 / 27.3	C / C	1.1 / 0.7	N / N	22.6 / 27.2	C / C	0.9 / 0.6	N / N
9. Mt Everest Boulevard & Balboa Avenue	Signal	107.9 / 110.4	**F / F**	110.9 / 112.7	**F / F**	3.0 / 2.3	**Y / Y**	109.8 / 112.3	**F / F**	1.9 / 1.9	**Y / Y**	112.1 / 120.2	**F / F**	4.2 / 9.8	**Y / Y**
10. Genesee Avenue & Balboa Avenue	Signal	42.1 / 80.2	D / **F**	44.7 / 83.4	D / **F**	2.6 / 3.2	N / **Y**	44.9 / 84.3	D / **F**	2.8 / 4.1	N / **Y**	47.3 / 90.2	D / **F**	5.2 / 10.0	N / **Y**
18. Project Driveway #1 & Mt Etna Drive	SSSC	DNE	DNE	10.5 / 11.3	B / B	10.5 / 11.3	N / N	10.0 / 10.8	A / B	10.0 / 10.8	N / N	9.8 / 10.3	A / B	9.8 / 10.3	N / N
19. Project Driveway #2 & Genesee Avenue	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	13.0 / 16.7	B / C	13.0 / 16.7	N / N	12.7 / 16.3	B / C	12.7 / 16.3	N / N
20. Project Driveway #3 & Balboa Avenue	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	16.9 / 19.9	C / C	16.9 / 19.9	N / N

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
DNE = Does Not Exist.

3.0 Impact Analysis & Mitigation

The driveway analysis was conducted for all three access options, for all three study scenarios (Existing Plus Project, Near-Term Base (Year 2021) Plus Project, and Horizon Year 2050 Plus Project) based on the new project. Mitigation measures are also provided for each impacted facility.

Existing Plus Project Conditions

As discussed in the TIS, this scenario is required for the environmental assessment of substantive land use or roadway network modifications and provides decision-makers and the public with development impacts referenced to an "observable" baseline.

Roadway Segment Analysis

Table 8 displays the roadway segment LOS analysis results only for roadway segments that were previously identified as a significant impact with the old project and those that remain or identify as a new significant impact with the new project under Existing Plus Project Conditions.

As shown in Table 8, the following roadway segment would no longer be impacted with the new project for all three access options under Existing Plus Project Conditions:

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue.

Also shown in Table 8, the following roadway would remain impacted with the new project for all three access options under Existing Plus Project Conditions:

- Balboa Avenue, between Cannington Drive and Charger Boulevard.

Table 8 – Impact Analysis - Roadway Segment Level of Service – Existing Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	Capacity (LOS E)	With Project Studied in the TIS[1]					With Access Option 1					With Access Option 2					With Access Option 3				
					ADT	V/C	LOS	Δ from No Project	S?	ADT	V/C	LOS	Δ from No Project	S?	ADT	V/C	LOS	Δ from No Project	S?	ADT	V/C	LOS	Δ from No Project	S?
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	8,000	7,576	0.947	**E**	0.436	**Y**	6,108	0.764	D	0.253	N	5,286	0.661	D	0.150	N	5,129	0.641	D	0.130	N
Balboa Avenue	Between Cannington Drive & Charger Boulevard	6-Ln Major Arterial	Raised Median	50,000	50,383	1.008	**F**	0.019	**Y**	50,067	1.001	**F**	0.013	**Y**	50,067	1.001	**F**	0.013	**Y**	50,067	1.001	**F**	0.013	**Y**

Notes:

Bold letter indicates unacceptable LOS E or F.
V/C = Volume to Capacity Ratio.
Ln = Lane.
S? = Indicates if change in V/C ratio is significant.
ADT = Average Daily Traffic.
LOS = Level of Service.
CLTL = Continuous Left-Turn Lane.
Δ = Change in V/C Ratio.

[1]The project studied in the TIS included 448 multi-family units, 10,000 sq. ft retail space, and a single full access driveway off of Mt Etna Drive.

Mitigation

As mentioned previously in this section, Existing Plus Project is a hypothetical scenario, therefore, the mitigation measures described below are presented for informational purposes only.

Similar to the TIS (May 2019), the following roadway segment would remain significantly impacted:

- Balboa Avenue, between Cannington Drive and Charger Boulevard (Applies to all three access options. This impact occurs after the project generates more than 1,811 daily trips) –This roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the existing land use fronting this roadway (i.e. residential and school uses) as well as the right-of-way constraints, there are no feasible improvements that would expand the capacity of the roadway segment. The implementation of adaptive signal controls along the Balboa Avenue corridor, as well as signal modifications at the Charger Boulevard & Balboa Avenue intersection, would partially mitigate the project's impacts. However, the County cannot assure that the City would implement adaptive signal controls along the Balboa Avenue corridor. Therefore, this impact would remain *significant and unavoidable.*

Intersection Analysis

Table 9 displays the intersection LOS analysis results only for intersections that were previously identified as a significant impact with the old project and those that remain or identify as a new significant impact with the new project under Existing Plus Project Conditions.

As shown in Table 9, the following intersections would no longer be impacted with the new project for all three access options under Existing Plus Project Conditions:

1. Genesee Avenue & Clairemont Mesa Boulevard; and
8. Clairemont Drive & Balboa Avenue.

Also shown in Table 9, the following intersection would remain impacted with the new project under Existing Plus Project Conditions:

Access Option 1:

9. Balboa Avenue & Mt Everest Boulevard.

Access Option 3:

9. Balboa Avenue & Mt Everest Boulevard.

In addition, the following intersection would be identified as a new impact with the new project under Existing Plus Project Conditions:

Access Option 3:

10. Genesee Avenue & Balboa Avenue.

Table 9 – Impact Analysis - Intersection Level of Service – Existing Plus Project Conditions

		With Project Studied in the TIS[1]				With Access Option 1				With Access Option 2				With Access Option 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	43.2 / 62.9	D / **E**	0.6 / 3.0	N / **Y**	42.9 / 61.8	D / **E**	0.3 / 1.9	N / N	42.9 / 61.8	D / **E**	0.3 / 1.9	N / N	42.9 / 61.8	D / **E**	0.3 / 1.9	N / N
8. Clairemont Drive & Balboa Avenue	Signal	38.3 / 62.6	D / **E**	0.6 / 2.5	N / **Y**	38.0 / 61.7	D / **E**	0.3 / 1.6	N / N	38.0 / 61.7	D / **E**	0.3 / 1.6	N / N	38.0 / 61.7	D / **E**	0.3 / 1.6	N / N
9. Mt Everest Boulevard & Balboa Avenue	Signal	84.3 / 60.6	**F / E**	10.6 / 1.9	**Y** / N	80.1 / 59.5	**F / E**	6.4 / 0.8	**Y** / N	75.0 / 59.2	**E / E**	1.3 / 0.5	N / N	78.7 / 62.7	**E / E**	5.0 / 4.0	**Y / Y**
10. Genesee Avenue & Balboa Avenue*	Signal	38.8 / 60.3	D / **E**	2.5 / 1.2	N / N	36.9 / 59.4	D / **E**	0.6 / 0.3	N / N	37.0 / 59.8	D / **E**	0.7 / 0.7	N / N	37.8 / 63.2	D / **E**	1.5 / 4.1	N / **Y**

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
DNE = Does Not Exist.
*New Impacted Intersection.
[1]The project studied in the TIS included 448 multi-family units, 10,000 sq. ft retail space, and a single full access driveway off of Mt Etna Drive.

Mitigation

Similar to the TIS (May 2019), the following intersection would remain significantly impacted:

9. Mt Everest Boulevard & Balboa Avenue (Applies to Access Option 1 and Access Option 3. This impact occurs after the project generates more than 650 daily trips) –Restripe the northbound and southbound approaches on Mt Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing. Implementing this improvement could be done within the existing right-of-way and would reduce intersection delays to pre-Project conditions. Implementing these improvements would mitigate the impact and would reduce this impact to *less than significant.*

The traffic generated by the new project is anticipated to create an impact at the following intersection:

10. Genesee Avenue & Balboa Avenue (Applies to Access Option 3. This impact occurs after the project generates more than 600 daily trips) – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway. The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

Near-Term Base (Year 2021) Plus Project Conditions

Roadway Segment Analysis

Table 10 displays the roadway segment LOS analysis results only for roadway segments that were previously identified as a significant impact with the old project and those that remain or identify as a significant impact with the new project under Near-Term Base (Year 2021) Plus Project Conditions.

As shown in Table 10, the following roadway segment would no longer be impacted with the new project for all three access options under Near-Term Base (Year 2021) Plus Project Conditions:

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue.

Also shown in Table 10, the following roadway would remain impacted with the new project for all three access options under Near-Term Base (Year 2021) Plus Project Conditions:

- Balboa Avenue, between Cannington Drive and Charger Boulevard; and
- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps.

Mitigation

Similar to the TIS (May 2019), the following roadway segments would remain significantly impacted:

- Balboa Avenue, between Cannington Drive and Charger Boulevard (Applies to all three access options. This impact occurs after the project generates more than 1,811 daily trips) –This roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the existing land use fronting this roadway (i.e. residential and school uses) as well as the right-of-way constraints, there are no feasible improvements that would expand the capacity of the roadway segment. The implementation of adaptive signal controls along the Balboa Avenue corridor, as well as signal modifications at the Charger Boulevard & Balboa Avenue intersection, would partially mitigate the project's impacts. However, the County cannot assure that the City would implement adaptive signal controls along the Balboa Avenue corridor. Therefore, this impact would remain *significant and unavoidable.*

- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (Applies to all three access options. This impact occurs after the project generates more than 1,561 daily trips) – This roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the existing land use fronting this roadway (i.e. residential and school uses) as well as the right-of-way constraints, there are no feasible improvements that would expand the capacity of the roadway segment. The implementation of adaptive signal controls along the Balboa Avenue corridor, as well as signal modifications at the Charger Boulevard & Balboa Avenue intersection, would partially mitigate the project's impacts. However, the County cannot assure that the City would implement adaptive signal controls along the Balboa Avenue corridor. Therefore, this impact would remain *significant and unavoidable.*

Table 10 – Impact Analysis - Roadway Segment Level of Service – Near-Term Base (Year 2021) Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	Capacity (LOS E)	With Project Studied in the TIS[1]					With Access Option 1					With Access Option 2					With Access Option 3				
					ADT	V/C	LOS	Δ from No Project	S?	ADT	V/C	LOS	Δ from No Project	S?	ADT	V/C	LOS	Δ from No Project	S?	ADT	V/C	LOS	Δ from No Project	S?
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	8,000	7,576	0.947	**E**	0.436	**Y**	6,108	0.764	D	0.253	N	5,286	0.661	D	0.150	N	5,129	0.641	D	0.130	N
Balboa Avenue	Between Cannington Drive & Charger Boulevard	6-Ln Major Arterial	Raised Median	50,000	51,892	1.038	**F**	0.019	**Y**	51,576	1.032	**F**	0.013	**Y**	51,576	1.032	**F**	0.013	**Y**	51,576	1.032	**F**	0.013	**Y**
Balboa Avenue	Between Charger Boulevard & I-805 Southbound Ramps	6-Ln Major Arterial	Raised Median	50,000	64,392	1.288	**F**	0.019	**Y**	64,076	1.282	**F**	0.013	**Y**	64,076	1.282	**F**	0.013	**Y**	64,076	1.282	**F**	0.013	**Y**

Notes:
Bold letter indicates unacceptable LOS E or F.
V/C = Volume to Capacity Ratio.
Ln = Lane.
S? = Indicates if change in V/C ratio is significant.
ADT = Average Daily Traffic.
LOS = Level of Service.
CLTL = Continuous Left-Turn Lane.
Δ = Change in V/C Ratio.
[1]The project studied in the TIS included 448 multi-family units, 10,000 sq. ft retail space, and a single full access driveway off of Mt Etna Drive.

Intersection Analysis

Table 11 displays the intersection LOS analysis results only for intersections that were previously identified as a significant impact with the old project and those that remain or identify as a significant impact with the new project under Near-Term Base (Year 2021) Plus Project Conditions.

As shown in Table 11, the following intersections would no longer be impacted with the new project for all three access options under Near-Term Base (Year 2021) Plus Project Conditions:

1. Genesee Avenue & Clairemont Mesa Boulevard; and
8. Clairemont Drive & Balboa Avenue.

Also shown in Table 11, the following intersections would remain impacted with the new project for all three access options under Near-Term Base (Year 2021) Plus Project Conditions:

9. Balboa Avenue & Mt Everest Boulevard; and
14. Balboa Avenue & Charger Boulevard.

In addition, the following intersection would be identified as a new impact with the new project under Near-Term Base (Year 2021) Plus Project Conditions:

Access Option 3:

10. Genesee Avenue & Balboa Avenue.

Table 11 – Impact Analysis - Intersection Level of Service – Near-Term Base (Year 2021) Plus Project Conditions

		With Project Studied in the TIS[1]				With Access Option 1				With Access Option 2				With Access Option 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	43.6 / 64.5	D / **E**	0.6 / 3.0	N / **Y**	43.4 / 63.4	D / **E**	0.4 / 1.9	N / N	43.4 / 63.4	D / **E**	0.4 / 1.9	N / N	43.4 / 63.4	D / **E**	0.4 / 1.9	N / N
8. Clairemont Drive & Balboa Avenue	Signal	49.1 / 70.5	D / **E**	1.1 / 2.3	N / **Y**	48.6 / 69.7	D / **E**	0.6 / 1.5	N / N	48.6 / 69.7	D / **E**	0.6 / 1.5	N / N	48.6 / 69.7	D / **E**	0.6 / 1.5	N / N
9. Mt Everest Boulevard & Balboa Avenue	Signal	133.6 / 66.4	**F / E**	17.1 / 1.7	**Y** / N	127.7 / 65.5	**F / E**	11.2 / 0.8	**Y** / N	123.4 / 65.2	**F / E**	6.9 / 0.5	**Y** / N	124.5 / 69.5	**F / E**	8.0 / 4.8	**Y / Y**
10. Genesee Avenue & Balboa Avenue*	Signal	42.1 / 60.4	D / **E**	1.0 / 1.2	N / N	41.8 / 60.0	D / **E**	0.7 / 0.8	N / N	41.9 / 60.1	D / **E**	0.8 / 0.9	N / N	43.3 / 64.9	D / **E**	2.2 / 5.7	N / **Y**
14. Charger Boulevard & Balboa Avenue	Signal	68.3 / 42.8	**E** / D	3.6 / -0.1	**Y** / N	67.1 / 42.8	**E** / D	2.4 / -0.1	**Y** / N	67.1 / 42.8	**E** / D	2.4 / -0.1	**Y** / N	67.1 / 42.8	**E** / D	2.4 / -0.1	**Y** / N

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
DNE = Does Not Exist.
*New Impacted Intersection.
[1]The project studied in the TIS included 448 multi-family units, 10,000 sq. ft retail space, and a single full access driveway off of Mt Etna Drive.

Mitigation

Similar to the TIS (May 2019), the following intersections would remain significantly impacted:

9. Mt Everest Boulevard & Balboa Avenue (Applies to all three access options. This impact occurs after the project generates more than 650 daily trips) – Restripe the northbound and southbound approaches on Mt Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing. Implementing this improvement could be done within the existing right-of-way and would reduce intersection delays to pre-Project conditions and would reduce this impact to *less than significant.*

14. Charger Boulevard & Balboa Avenue (Applies to all three access options. This impact occurs after the project generates more than 1,811 daily trips) – Restripe the northbound shared through-left turn lane into an exclusive through lane and convert the northbound and southbound signal from split phasing to protective phasing. Implementing this improvement would reduce intersection delays to pre-Project conditions and would reduce this impact to *less than significant.*

The traffic generated by the new project is anticipated to create an impact at the following intersection:

10. Genesee Avenue & Balboa Avenue (Applies to Access Option 3. This impact occurs after the project generates more than 600 daily trips) – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway. The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact would reduce this impact to *less than significant.*

Horizon Year 2050 Plus Project Conditions

Roadway Segment Analysis

Table 12 displays the roadway segment LOS analysis results only for roadway segments that were previously identified as a significant impact with the old project and those that remain or identify as a significant impact with the new project under Horizon Year 2050 Plus Project Conditions.

As shown in Table 12, the following roadway segment would no longer be impacted with the new project for all three access options under Horizon Year 2050 Plus Project Conditions:

- Mt Everest Boulevard, between Mt Etna Drive and Balboa Avenue.

Also shown in Table 12, the following roadway segments would remain impacted with the new project under Horizon Year 2050 Plus Project Conditions:

Access Option 1:

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue; and

- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps.

Access Option 2:

- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps.

Access Option 3:

- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps.

Table 12 – Impact Analysis - Roadway Segment Level of Service – Horizon Year 2050 Plus Project Conditions

Roadway	Segment	Functional Classification	Cross-Section	Capacity (LOS E)	With Project Studied in the TIS[1]					With Access Option 1					With Access Option 2					With Access Option 3				
					ADT	V/C	LOS	Δ from No Project	S?	ADT	V/C	LOS	Δ from No Project	S?	ADT	V/C	LOS	Δ from No Project	S?	ADT	V/C	LOS	Δ from No Project	S?
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue	2-Ln Collector w/o CLTL	Undivided	8,000	6,532	0.817	**E**	0.079	**Y**	6,324	0.791	D	0.053	N	6,222	0.778	D	0.040	N	6,176	0.772	D	0.034	N
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	2-Ln Collector w/o CLTL	Undivided	8,000	8,586	1.073	**F**	0.435	**Y**	7,118	0.890	**E**	0.252	**Y**	6,296	0.787	D	0.149	N	6,139	0.767	D	0.129	N
Balboa Avenue	Between Charger Boulevard & I-805 Southbound Ramps	6-Ln Major Arterial	Raised Median	50,000	66,162	1.323	**F**	0.019	**Y**	65,846	1.317	**F**	0.013	**Y**	65,846	1.317	**F**	0.013	**Y**	65,846	1.317	**F**	0.013	**Y**

Notes:
Bold letter indicates unacceptable LOS E or F.
V/C = Volume to Capacity Ratio.
Ln = Lane.
S? = Indicates if change in V/C ratio is significant.
ADT = Average Daily Traffic.
LOS = Level of Service.
CLTL = Continuous Left-Turn Lane.
Δ = Change in V/C Ratio.
[1]The project studied in the TIS included 448 multi-family units, 10,000 sq. ft retail space, and a single full access driveway off of Mt Etna Drive.

Mitigation

Similar to the TIS (May 2019), the following roadway segments would remain significantly impacted:

- Mt Etna Drive, between Mt Everest Boulevard and Genesee Avenue (Applies to Access Option 1. This impact occurs after the project generates more than 1,399 daily trips) – This roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the classification of this roadway, there is insufficient right-of-way and street parking removal limitations that would prevent any improvements to the capacity of the impacted roadway segment. Therefore, this impact would remain *significant and unavoidable*.

- Balboa Avenue, between Charger Boulevard and I-805 Southbound Ramps (Applies to all three access options. This impact occurs after the project generates more than 1,561 daily trips) – This roadway is currently built to its ultimate classification per the currently adopted Clairemont Mesa Community Plan. Based on the existing land use fronting this roadway (i.e. residential and school uses) as well as the right-of-way constraints, there are no feasible improvements that would expand the capacity of the roadway segment. The implementation of adaptive signal controls along the Balboa Avenue corridor, as well as signal modifications at the Charger Boulevard & Balboa Avenue intersection, would partially mitigate the project's impacts. However, the County cannot assure that the City would implement adaptive signal controls along the Balboa Avenue corridor. Therefore, this impact would remain *significant and unavoidable.*

Intersection Analysis

Table 13 displays the intersection LOS analysis results only for intersections that were previously identified as a significant impact with the old project and those that remain or identify as a significant impact with the new project under Horizon Year 2050 Plus Project Conditions.

As shown in Table 13, the following intersection would remain impacted with the new project for all three access options under Horizon Year 2050 Plus Project Conditions:

1. Genesee Avenue & Clairemont Mesa Boulevard;
8. Clairemont Drive & Balboa Avenue;
9. Mt Everest Boulevard & Balboa Avenue;
10. Genesee Avenue & Balboa Avenue; and
14. Charger Boulevard & Balboa Avenue.

Table 13 – Impact Analysis – Intersection Level of Service – Horizon Year 2050 Plus Project Conditions

		With Project Studied in the TIS[1]				With Access Option 1				With Access Option 2				With Access Option 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) No Project AM/PM	Significant Impact? AM/PM
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	68.2 / 100.0	**E / F**	2.3 / 4.1	**Y / Y**	67.5 / 98.5	**E / F**	1.6 / 2.6	N / **Y**	67.5 / 98.5	**E / F**	1.6 / 2.6	N / **Y**	67.5 / 98.5	**E / F**	1.6 / 2.6	N / **Y**
8. Clairemont Drive & Balboa Avenue	Signal	66.6 / 103.2	**E / F**	1.2 / 2.6	N / **Y**	66.0 / 102.1	**E / F**	0.6 / 1.5	N / **Y**	66.0 / 102.1	**E / F**	0.6 / 1.5	N / **Y**	66.0 / 102.1	**E / F**	0.6 / 1.5	N / **Y**
9. Mt Everest Boulevard & Balboa Avenue	Signal	112.7 / 114.9	**F / F**	4.8 / 4.5	**Y / Y**	110.9 / 112.7	**F / F**	3.0 / 2.3	**Y / Y**	109.8 / 112.3	**F / F**	1.9 / 1.9	**Y / Y**	112.1 / 120.2	**F / F**	4.2 / 9.8	**Y / Y**
10. Genesee Avenue & Balboa Avenue	Signal	45.3 / 87.6	D / **F**	3.2 / 7.4	N / **Y**	44.7 / 83.4	D / **F**	2.6 / 3.2	N / **Y**	44.9 / 84.3	D / **F**	2.8 / 4.1	N / **Y**	47.3 / 90.2	D / **F**	5.2 / 10.0	N / **Y**
14. Charger Boulevard & Balboa Avenue	Signal	57.3 / 47.8	**E** / D	3.0 / -0.2	**Y** / N	56.3 / 47.9	**E** / D	2.0 / -0.1	N / **Y**	56.3 / 47.9	**E** / D	2.0 / -0.1	N / **Y**	56.3 / 47.9	**E** / D	2.0 / -0.1	N / **Y**

Notes:
Bold letter indicates unacceptable LOS E or F.
AWSC = All-Way Stop Controlled.
SSSC = Side-Street Stop Controlled.
DNE = Does Not Exist.

[1]The project studied in the TIS included 448 multi-family units, 10,000 sq. ft retail space, and a single full access driveway off of Mt Etna Drive.

Mitigation

Similar to the TIS (May 2019), the following intersections would remain significantly impacted:

1. Genesee Avenue & Clairemont Mesa Boulevard (Applies to all three access options. This impact occurs after the project generates more than 800 daily trips) – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway. The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this improvement would reduce delays to pre-Project conditions and would mitigate the impact to less than significant. However, there is no specific mitigation program established by the City that would ensure the improvements would be implemented. Therefore, unless and until a specific mitigation program is created by the City to accommodate proportionate contributions toward the implementation of adaptive signal controls or other improvements at these locations, the County cannot assume that payment of its fair share of the mitigation improvements would reduce or avoid the project's cumulative impact Therefore, this impact would remain *significant and unavoidable*.

8. Clairemont Drive & Balboa Avenue (Applies to all three access options. This impact occurs after the project generates more than 1,300 daily trips) - Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway. The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this improvement would reduce delays to pre-Project conditions and would mitigate the impact to less than significant. However, there is no specific mitigation program established by the City that would ensure the improvements would be implemented. Therefore, unless and until a specific mitigation program is created by the City to accommodate proportionate contributions toward the implementation of adaptive signal controls or other improvements at these locations, the County cannot assume that payment of its fair share of the mitigation improvements would reduce or avoid the project's cumulative impact Therefore, this impact would remain *significant and unavoidable*.

9. Mt Everest Boulevard & Balboa Avenue (Applies to all three access options. This impact occurs after the project generates more than 650 daily trips)– Restripe the northbound and southbound approaches on Mt Everest Boulevard to provide an exclusive left-turn lane and a shared through-right turn lane, then convert the northbound and southbound approaches from split phasing to protected left-turn phasing. Implementing this improvement could be done within the existing right-of-way and would reduce intersection delays to pre-Project conditions and would reduce this impact to *less than significant*

10. Genesee Avenue & Balboa Avenue (Applies to all three access options. This impact occurs after the project generates more than 1,811 daily trips) – Optimize signal timing or install traffic systems management (TSM) strategies (e.g. adaptive signal technology) to maximize efficiency of the existing roadway. The City of San Diego's *Traffic Signal Communications Master Plan (TSCMP)* (December 2014) identifies deficient intersections throughout the City where implementation of traffic signal communications and ITS improvements could be done to improve signal communication and operations. This intersection is identified in that Plan as deficient and in need of repair. Improving signal timings could result in an increase in intersection capacity, vehicle throughput, and reduction in vehicle delays. Implementing this would mitigate the impact, and the project applicant would coordinate with the City to define the fees for the implementation of this improvement. Therefore, this impact would be reduced to *less than significant.*

14. Charger Boulevard & Balboa Avenue (Applies to all three access options. This impact occurs after the project generates more than 1,850 daily trips) – Restripe the northbound shared through-left turn lane into an exclusive through lane and convert the northbound and southbound signal from split phasing to protective phasing. Implementing this improvement would reduce intersection delays to pre-Project conditions. However, the County of San Diego cannot guarantee improvements to an intersection under the jurisdiction of the City of San Diego. Implementing this would mitigate the impact would reduce this impact to *less than significant.*

Impact Analysis Summary

Table 14 and Table 15 displays the impact summary for roadway segment analysis and intersection analysis respectively.

Table 14 – Impact Analysis - Roadway Segment Level of Service – Summary

Roadway	Segment	With Project Studied in the TIS[1]			With Access Option 1			With Access Option 2			With Access Option 3		
		Existing Plus Project	Near-Term Plus Project	Horizon Plus Project	Existing Plus Project	Near-Term Plus Project	Horizon Plus Project	Existing Plus Project	Near-Term Plus Project	Horizon Plus Project	Existing Plus Project	Near-Term Plus Project	Horizon Plus Project
Mt Everest Boulevard	Between Mt Etna Drive & Balboa Avenue			X									
Mt Etna Drive	Between Mt Everest Boulevard & Genesee Avenue	X	X	X			X						
Balboa Avenue	Between Cannington Drive & Charger Boulevard	X	X		X	X		X	X		X	X	
Balboa Avenue	Between Charger Boulevard & I-805 Southbound Ramps		X	X		X	X		X	X		X	X

Notes:

[1]The project studied in the TIS included 448 multi-family units, 10,000 sq. ft retail space, and a single full access driveway off of Mt Etna Drive.

Table 15 – Impact Analysis - Intersection Level of Service – Summary

	With Project Studied in the TIS[1]			With Access Option 1			With Access Option 2			With Access Option 3		
	Existing Plus Project	Near-Term Plus Project	Horizon Plus Project	Existing Plus Project	Near-Term Plus Project	Horizon Plus Project	Existing Plus Project	Near-Term Plus Project	Horizon Plus Project	Existing Plus Project	Near-Term Plus Project	Horizon Plus Project
1. Genesee Avenue & Clairemont Mesa Boulevard	X	X	X			X			X			X
8. Clairemont Drive & Balboa Avenue	X	X	X			X			X			X
9. Mt Everest Boulevard & Balboa Avenue	X	X	X	X	X	X		X	X	X	X	X
10. Genesee Avenue & Balboa Avenue			X			X			X	X*	X*	X
14. Charger Boulevard & Balboa Avenue		X	X		X	X		X	X		X	X

Notes:

*New Impacted Intersection.

[1]The project studied in the TIS included 448 multi-family units, 10,000 sq. ft retail space, and a single full access driveway off of Mt Etna Drive.

4.0 Site Access

This section evaluates access to the project site for all transportation modes and for each project access options.

Access Option 1

For Access Option 1, the Project would provide full-access via a single driveway located along Mt Etna Drive. The driveway would be a side street stop-controlled intersection. Sidewalks currently exist along Mt Etna Drive and are expected to remain to allow full access from-to the project site for pedestrians. Bicycle facilities currently do not exist along Mt Etna Drive nor are there expected improvements per *San Diego Bicycle Master Plan, December 2013*. Since the proposed Access Option 1 would not alter the existing sidewalk, there are no impacts related to pedestrian or bicycle facilities under Access Option 1 for the Proposed Project.

Overall, this driveway is expected to serve at most 169 vehicles during the peak hour and would operate at LOS B or better for all study scenarios (i.e. Existing Plus Project, Near-Term Base Year Plus Project, and Horizon Year Plus Project). Therefore, no operational issues are expected to occur at the driveway located on Mt Etna Drive under Access Option 1. However, during the development of the site plan, the project should conduct a sight distance analysis to ensure sufficient line of sight exist at the project driveway.

Access Option 2

For Access Option 2, the Project would provide access via two driveways. The Mt Etna Drive driveway would provide full-access and operate as a side street stop-controlled intersection. The second driveway would be located on Genesee Avenue between Mt Etna Drive and Balboa Avenue and would provide right-in-right-out access with operation as a side street stop-controlled intersection. Sidewalks currently exist along the Mt Etna Drive and Genesee Avenue, and are expected to remain to allow full access from-to project site for pedestrians. Bicycle facilities currently do not exist along Mt Etna Drive, but a Class II bike lane does exist along Genesee Avenue with highly visible green striped markings. No bicycle facility improvements are expected for Mt Etna Drive or Genesee Avenue with in the project vicinity per *San Diego Bicycle Master Plan, December 2013*. Installation of the two driveways would not conflict with the current bicycle and pedestrian facilities; therefore, no impacts related to pedestrian or bicycle facilities are expected to occur under Access Option 2 of the Proposed Project.

Overall, the Mt Etna Drive driveway is expected to serve at most 108 project generated vehicles and the Genesee Avenue driveway is expected to serve at most 61 project generated vehicles during the PM Peak Hour. For the worst case, the driveway along Mt Etna Drive would operate at LOS B and driveway along Genesee Avenue at LOS C for all study scenarios (Existing Plus Project, Near-Term Base Year Plus Project, and Horizon Year Plus Project). Genesee Avenue's outer lane provides sufficient lane width of approximately 13 feet allowing for deceleration of vehicles entering the project site without substantially impeding traffic flow on Genesee Avenue. Therefore, no operational issues are expected to occur under Access Option 2 for the Proposed Project. However, during the development of the site plan, the project should conduct a sight distance analysis to ensure sufficient line of sight exist at the project driveway.

Access Option 3

For Access Option 3, the Project would provide access via three driveways. The Mt Etna Drive driveway would provide full-access and operate as a side street stop-controlled intersection. The second driveway would be located on Genesee Avenue between Mt Etna Drive and Balboa Avenue and would provide right-in-right-out access with operation as a side street stop-controlled intersection. The third driveway would be located on Balboa Avenue between Mt Everest Drive and Balboa Way and would provide right-in-right-out access with operation as a side-street stop-controlled intersection.

Sidewalks currently exist along Mt Etna Drive, Genesee Avenue, and Balboa Avenue, and are expected to remain to allow full access from-to project site for pedestrians. Bicycle facilities currently do not exist along Mt Etna Drive, but a Class II bike lane do exist along Genesee Avenue with highly visible, green striped markings. Additionally, Class II bike lanes are currently striped along Balboa Avenue in the vicinity of the project. No additional bicycle facility improvements are expected for Mt Etna Drive, Genesee Avenue, or Balboa Avenue within the project vicinity per *San Diego Bicycle Master Plan, December 2013*. Installation of the three site driveways would not conflict with the current bicycle and pedestrian facilities; therefore, no impacts related to pedestrian or bicycle facilities are expected to occur under Access Option 3 of the Proposed Project. However, during the development of the site plan, the project should conduct a sight distance analysis to ensure sufficient line of sight exist at the project driveway.

Overall, the driveways along Mt Etna Drive, Genesee Avenue, and Balboa Avenue are expected to serve at most 93, 43, and 32 project generated vehicles, respectively, during the PM Peak Hour. For the worst case, the driveways along Mt Etna Drive, Genesee Avenue, and Balboa Avenue would operate at LOS B, LOS C, and LOS C respectively for all study scenarios (Existing Plus Project, Near-Term Base Year Plus Project, and Horizon Year Plus Project). Furthermore, Genesee Avenue and Balboa Avenue's outer lanes provide sufficient lane width of approximately 13 feet and 18 feet, respectively, which allow for deceleration of vehicles entering the project site without substantially impeding traffic flow on Genesee Avenue or Balboa Avenue. Therefore, no operational issues are expected to occur under the Access Option 3 for the Proposed Project. However, during the development of the site plan, the project should conduct a sight distance analysis to ensure sufficient line of sight exist at the project driveway.

ATTACHMENT A
EXISTING PLUS PROJECT CONDITIONS – SYNCHRO WORKSHEETS

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	130	9	106	520	320	164	1016	67	6
Future Volume (veh/h)	6	208	437	130	9	106	520	320	164	1016	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	96		114	559	241	169	1047	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	968	200		280	804	346	231	1098	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.34	0.34	0.09	0.42	0.42	
Sat Flow, veh/h		3442	2904	601		3442	2380	1023	3442	3441	158	
Grp Volume(v), veh/h		219	279	277		114	415	385	169	538	557	
Grp Sat Flow(s),veh/h/ln		1721	1770	1735		1721	1770	1634	1721	1770	1829	
Q Serve(g_s), s		6.7	13.5	13.7		3.4	21.9	22.0	5.2	31.8	31.8	
Cycle Q Clear(g_c), s		6.7	13.5	13.7		3.4	21.9	22.0	5.2	31.8	31.8	
Prop In Lane		1.00		0.35		1.00		0.63	1.00		0.09	
Lane Grp Cap(c), veh/h		283	590	578		280	598	552	231	565	584	
V/C Ratio(X)		0.77	0.47	0.48		0.41	0.69	0.70	0.73	0.95	0.95	
Avail Cap(c_a), veh/h		433	590	578		280	598	552	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.86	0.86	0.86	
Uniform Delay (d), s/veh		48.6	28.5	28.6		47.1	30.9	31.0	48.2	30.3	30.3	
Incr Delay (d2), s/veh		1.9	2.7	2.8		0.4	6.5	7.1	1.5	23.5	23.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.0	7.0		1.6	11.8	11.0	2.5	19.0	19.6	
LnGrp Delay(d),s/veh		50.5	31.2	31.4		47.5	37.4	38.1	49.7	53.8	53.3	
LnGrp LOS		D	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			775				914			1264		
Approach Delay, s/veh			36.7				39.0			53.0		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	41.0	11.6	41.6	13.3	41.5	13.8	39.4
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	15.7	7.2	14.5	8.7	24.0	9.2	33.8
Green Ext Time (p_c), s	0.0	3.5	0.1	1.6	0.2	3.0	0.0	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	42.9
HCM 2010 LOS	D

Notes



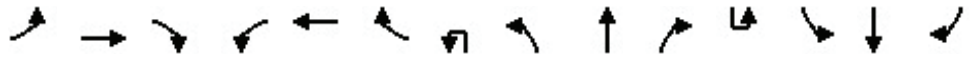
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	387	100
Future Volume (veh/h)	106	387	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	440	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1010	182
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	2975	536
Grp Volume(v), veh/h	120	260	260
Grp Sat Flow(s),veh/h/ln	1774	1770	1742
Q Serve(g_s), s	7.2	12.3	12.5
Cycle Q Clear(g_c), s	7.2	12.3	12.5
Prop In Lane	1.00		0.31
Lane Grp Cap(c), veh/h	147	601	591
V/C Ratio(X)	0.82	0.43	0.44
Avail Cap(c_a), veh/h	158	601	591
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.6	27.7
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.0	6.0
LnGrp Delay(d),s/veh	72.5	27.8	27.9
LnGrp LOS	E	C	C
Approach Vol, veh/h		640	
Approach Delay, s/veh		36.2	
Approach LOS		D	
Timer			

Intersection	
Intersection Delay, s/veh	9.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	62	86	64	26	7	52	44	55	10	54	2
Future Vol, veh/h	3	62	86	64	26	7	52	44	55	10	54	2
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	74	102	82	33	9	79	67	83	13	72	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	8.9	9.1	9.6	8.7
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	34%	2%	66%	15%
Vol Thru, %	29%	41%	27%	82%
Vol Right, %	36%	57%	7%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	151	151	97	66
LT Vol	52	3	64	10
Through Vol	44	62	26	54
RT Vol	55	86	7	2
Lane Flow Rate	229	180	124	88
Geometry Grp	1	1	1	1
Degree of Util (X)	0.293	0.225	0.172	0.121
Departure Headway (Hd)	4.612	4.509	4.989	4.944
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	776	793	715	721
Service Time	2.661	2.561	3.046	3.004
HCM Lane V/C Ratio	0.295	0.227	0.173	0.122
HCM Control Delay	9.6	8.9	9.1	8.7
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	1.2	0.9	0.6	0.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	61	30	116	94	28	75	7	104	1031	115	4	98	503	45
Future Volume (veh/h)	61	30	116	94	28	75	7	104	1031	115	4	98	503	45
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	73	36	116	121	36	67		113	1121	87		108	553	37
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	248	79	253	203	119	221		137	2967	230		130	2173	964
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21		0.08	0.62	0.62		0.15	1.00	1.00
Sat Flow, veh/h	1273	379	1222	1216	573	1067		1774	4802	372		1774	3539	1569
Grp Volume(v), veh/h	73	0	152	121	0	103		113	791	417		108	553	37
Grp Sat Flow(s),veh/h/ln	1273	0	1601	1216	0	1640		1774	1695	1784		1774	1770	1569
Q Serve(g_s), s	7.2	0.0	11.6	13.5	0.0	7.4		8.8	16.3	16.3		8.3	0.0	0.0
Cycle Q Clear(g_c), s	14.6	0.0	11.6	25.2	0.0	7.4		8.8	16.3	16.3		8.3	0.0	0.0
Prop In Lane	1.00		0.76	1.00		0.65		1.00		0.21		1.00		1.00
Lane Grp Cap(c), veh/h	248	0	332	203	0	340		137	2095	1102		130	2173	964
V/C Ratio(X)	0.29	0.00	0.46	0.60	0.00	0.30		0.83	0.38	0.38		0.83	0.25	0.04
Avail Cap(c_a), veh/h	385	0	504	333	0	517		400	2095	1102		400	2173	964
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.99	0.99	0.99
Uniform Delay (d), s/veh	53.1	0.0	48.6	59.6	0.0	46.9		63.7	13.3	13.3		58.9	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.7	2.1	0.0	0.4		4.8	0.5	1.0		5.1	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.0	5.2	4.7	0.0	3.4		4.5	7.7	8.3		4.2	0.1	0.0
LnGrp Delay(d),s/veh	53.6	0.0	49.3	61.7	0.0	47.3		68.5	13.9	14.3		64.0	0.3	0.1
LnGrp LOS	D		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		225			224				1321				698	
Approach Delay, s/veh		50.7			55.1				18.7				10.1	
Approach LOS		D			E				B				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	91.4		33.9	15.2	90.9		33.9
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	10.3	18.3		16.6	10.8	2.0		27.2
Green Ext Time (p_c), s	0.1	11.7		0.9	0.1	5.2		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	22.5
HCM 2010 LOS	C

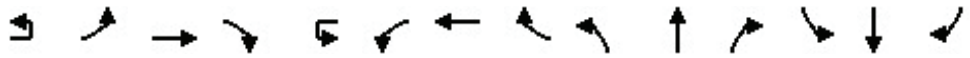
Notes

Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	199	814	74	343	770	99	15	149	408	329	2	153	279	294
Future Volume (veh/h)	5	199	814	74	343	770	99	15	149	408	329	2	153	279	294
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		207	848	54	365	819	74		180	492	396		168	307	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		417	1069	68	440	999	90		212	903	607		200	482	344
Arrive On Green		0.12	0.32	0.32	0.13	0.31	0.31		0.12	0.26	0.26		0.11	0.25	0.25
Sat Flow, veh/h		3442	3366	214	3442	3270	295		1774	3539	1583		1774	1940	1384
Grp Volume(v), veh/h		207	446	456	365	443	450		180	492	396		168	279	254
Grp Sat Flow(s),veh/h/ln		1721	1770	1811	1721	1770	1796		1774	1770	1583		1774	1770	1555
Q Serve(g_s), s		6.0	24.4	24.4	11.0	24.6	24.6		10.6	12.8	21.8		9.9	14.9	15.6
Cycle Q Clear(g_c), s		6.0	24.4	24.4	11.0	24.6	24.6		10.6	12.8	21.8		9.9	14.9	15.6
Prop In Lane		1.00		0.12	1.00		0.16		1.00		1.00		1.00		0.89
Lane Grp Cap(c), veh/h		417	562	575	440	541	549		212	903	607		200	439	386
V/C Ratio(X)		0.50	0.79	0.79	0.83	0.82	0.82		0.85	0.54	0.65		0.84	0.64	0.66
Avail Cap(c_a), veh/h		973	1000	1024	973	1000	1015		501	1334	799		501	667	586
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		43.6	33.0	33.0	45.2	34.2	34.2		45.8	34.2	26.9		46.2	35.6	35.8
Incr Delay (d2), s/veh		0.3	3.1	3.0	1.6	3.1	3.1		3.6	0.3	0.8		3.6	1.2	1.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.9	12.4	12.7	5.3	12.5	12.7		5.4	6.3	9.6		5.0	7.4	6.9
LnGrp Delay(d),s/veh		44.0	36.1	36.1	46.7	37.3	37.3		49.4	34.5	27.7		49.8	36.8	37.4
LnGrp LOS		D	D	D	D	D	D		D	C	C		D	D	D
Approach Vol, veh/h			1109			1258				1068				701	
Approach Delay, s/veh			37.6			40.0				34.5				40.1	
Approach LOS			D			D				C				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.0	39.4	17.1	31.7	18.6	38.8	16.4	32.4
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	13.0	26.4	12.6	17.6	8.0	26.6	11.9	23.8
Green Ext Time (p_c), s	0.6	7.3	0.2	2.8	0.3	5.8	0.2	3.3

Intersection Summary	
HCM 2010 Ctrl Delay	38.0
HCM 2010 LOS	D

Notes

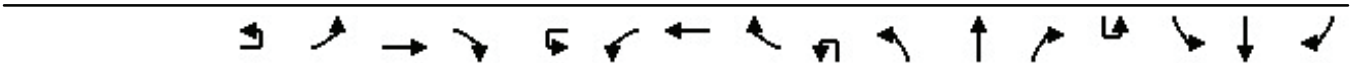


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	39	1100	85	3	50	987	92	184	89	83	60	97	88
Future Volume (veh/h)	13	39	1100	85	3	50	987	92	184	89	83	60	97	88
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		44	1250	67		62	1219	79	271	131	85	76	123	86
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		57	1296	69		79	1323	86	245	119	77	83	134	94
Arrive On Green		0.03	0.38	0.38		0.01	0.13	0.13	0.25	0.25	0.25	0.18	0.18	0.18
Sat Flow, veh/h		1774	3411	183		1774	3369	218	979	473	307	463	750	524
Grp Volume(v), veh/h		44	648	669		62	639	659	487	0	0	285	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1824		1774	1770	1818	1759	0	0	1737	0	0
Q Serve(g_s), s		3.4	50.1	50.3		4.9	50.0	50.1	35.1	0.0	0.0	22.6	0.0	0.0
Cycle Q Clear(g_c), s		3.4	50.1	50.3		4.9	50.0	50.1	35.1	0.0	0.0	22.6	0.0	0.0
Prop In Lane		1.00		0.10		1.00		0.12	0.56		0.17	0.27		0.30
Lane Grp Cap(c), veh/h		57	672	693		79	695	714	441	0	0	311	0	0
V/C Ratio(X)		0.78	0.96	0.97		0.78	0.92	0.92	1.10	0.00	0.00	0.92	0.00	0.00
Avail Cap(c_a), veh/h		122	672	693		122	695	714	441	0	0	349	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.71	0.71	0.71	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.3	42.5	42.5		68.3	58.8	58.8	52.5	0.0	0.0	56.5	0.0	0.0
Incr Delay (d2), s/veh		8.2	26.8	26.8		5.3	15.0	14.9	74.2	0.0	0.0	25.4	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.8	29.5	30.4		2.5	27.5	28.3	26.1	0.0	0.0	13.0	0.0	0.0
LnGrp Delay(d),s/veh		75.5	69.3	69.3		73.6	73.7	73.8	126.7	0.0	0.0	81.8	0.0	0.0
LnGrp LOS		E	E	E		E	E	E	F			F		
Approach Vol, veh/h			1361				1360			487			285	
Approach Delay, s/veh			69.5				73.7			126.7			81.8	
Approach LOS			E				E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.7	59.4		29.9	8.9	61.2		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	6.9	52.3		24.6	5.4	52.1		37.1
Green Ext Time (p_c), s	0.0	0.0		0.4	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	80.1
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	172	868	259	5	92	694	268	2	282	787	66	5	204	418	168
Future Volume (veh/h)	3	172	868	259	5	92	694	268	2	282	787	66	5	204	418	168
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		193	975	203		106	798	219		300	837	49		234	480	136
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		446	1528	318		153	1231	335		346	1046	61		280	687	298
Arrive On Green		0.33	0.70	0.70		0.06	0.41	0.41		0.20	0.43	0.43		0.16	0.39	0.39
Sat Flow, veh/h		1774	2909	605		3442	3952	1074		3442	4910	287		3442	3539	1539
Grp Volume(v), veh/h		193	592	586		106	683	334		300	577	309		234	480	136
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1636		1721	1695	1806		1721	1770	1539
Q Serve(g_s), s		11.9	25.4	25.6		4.2	22.6	22.9		11.8	20.7	20.9		9.2	15.9	5.5
Cycle Q Clear(g_c), s		11.9	25.4	25.6		4.2	22.6	22.9		11.8	20.7	20.9		9.2	15.9	5.5
Prop In Lane		1.00		0.35		1.00		0.66		1.00		0.16		1.00		1.00
Lane Grp Cap(c), veh/h		446	930	917		153	1056	510		346	722	385		280	687	298
V/C Ratio(X)		0.43	0.64	0.64		0.69	0.65	0.65		0.87	0.80	0.80		0.84	0.70	0.46
Avail Cap(c_a), veh/h		446	930	917		383	1056	510		457	826	440		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		1.33	1.33	1.33		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.93	0.93	0.93		0.89	0.89	0.89		1.00	1.00	1.00
Uniform Delay (d), s/veh		38.9	13.8	13.9		64.9	34.9	35.0		55.0	37.6	37.6		57.7	39.4	13.4
Incr Delay (d2), s/veh		0.0	0.3	0.3		2.0	2.9	6.0		9.5	5.2	9.7		8.3	3.0	1.9
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.8	12.4	12.2		2.0	10.9	11.1		6.0	10.1	11.3		4.7	8.0	3.3
LnGrp Delay(d),s/veh		38.9	14.1	14.2		66.9	37.7	41.0		64.6	42.8	47.3		66.0	42.5	15.2
LnGrp LOS		D	B	B		E	D	D		E	D	D		E	D	B
Approach Vol, veh/h			1371				1123				1186				850	
Approach Delay, s/veh			17.6				41.4				49.5				44.6	
Approach LOS			B				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.6	78.8	18.5	32.1	40.5	49.0	15.8	34.7
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	6.2	27.6	13.8	17.9	13.9	24.9	11.2	22.9
Green Ext Time (p_c), s	0.1	9.5	0.3	4.5	0.2	5.9	0.2	6.1

Intersection Summary	
HCM 2010 Ctrl Delay	36.9
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	3.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	122	7	26	81	23	82
Future Vol, veh/h	122	7	26	81	23	82
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	133	8	28	88	25	89

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	141	0	281	137
Stage 1	-	-	-	-	137	-
Stage 2	-	-	-	-	144	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1442	-	709	911
Stage 1	-	-	-	-	890	-
Stage 2	-	-	-	-	883	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1442	-	695	911
Mov Cap-2 Maneuver	-	-	-	-	695	-
Stage 1	-	-	-	-	872	-
Stage 2	-	-	-	-	883	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.8	9.9
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	853	-	-	1442	-
HCM Lane V/C Ratio	0.134	-	-	0.02	-
HCM Control Delay (s)	9.9	-	-	7.5	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.5	-	-	0.1	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	254	15	186	737	105	255	401	106	2
Future Volume (veh/h)	11	142	662	254	15	186	737	105	255	401	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	199		200	792	79	271	427	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1168	316		255	1427	142	328	713	131	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2733	739		3442	3245	324	3442	2960	542	
Grp Volume(v), veh/h		158	476	459		200	432	439	271	254	252	
Grp Sat Flow(s),veh/h/ln		1721	1770	1703		1721	1770	1799	1721	1770	1732	
Q Serve(g_s), s		5.7	26.6	26.6		7.2	22.8	22.8	9.7	16.0	16.3	
Cycle Q Clear(g_c), s		5.7	26.6	26.6		7.2	22.8	22.8	9.7	16.0	16.3	
Prop In Lane		1.00		0.43		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		213	756	728		255	778	791	328	426	417	
V/C Ratio(X)		0.74	0.63	0.63		0.78	0.56	0.56	0.83	0.59	0.60	
Avail Cap(c_a), veh/h		399	756	728		399	778	791	481	479	469	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.3	28.3		57.3	26.2	26.2	56.0	42.4	42.5	
Incr Delay (d2), s/veh		1.9	4.0	4.1		2.1	2.8	2.8	4.7	0.8	1.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	13.8	13.3		3.5	11.8	12.0	4.8	7.9	7.9	
LnGrp Delay(d),s/veh		60.0	32.2	32.4		59.4	29.0	29.0	60.7	43.2	43.4	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1093				1071			777		
Approach Delay, s/veh			36.3				34.7			49.4		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.8	16.4	37.0	12.2	60.4	18.1	35.3
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	28.6	11.7	34.1	7.7	24.8	13.7	18.3
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.6

Intersection Summary	
HCM 2010 Ctrl Delay	61.8
HCM 2010 LOS	E

Notes



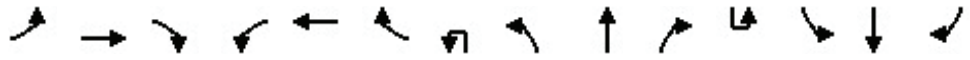
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	894	101
Future Volume (veh/h)	160	894	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	941	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	844	66
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3313	260
Grp Volume(v), veh/h	168	503	512
Grp Sat Flow(s),veh/h/ln	1774	1770	1803
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	459
V/C Ratio(X)	0.87	1.12	1.12
Avail Cap(c_a), veh/h	220	451	459
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	77.6	77.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	25.4	25.8
LnGrp Delay(d),s/veh	79.8	124.5	124.2
LnGrp LOS	E	F	F
Approach Vol, veh/h		1183	
Approach Delay, s/veh		118.0	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	11
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	57	41	193	68	12	83	38	77	6	83	2
Future Vol, veh/h	0	57	41	193	68	12	83	38	77	6	83	2
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	86	62	222	78	14	91	42	85	7	102	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.4	12.4	10.6	9.7
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	42%	0%	71%	7%
Vol Thru, %	19%	58%	25%	91%
Vol Right, %	39%	42%	4%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	198	98	273	91
LT Vol	83	0	193	6
Through Vol	38	57	68	83
RT Vol	77	41	12	2
Lane Flow Rate	218	148	314	112
Geometry Grp	1	1	1	1
Degree of Util (X)	0.314	0.209	0.453	0.172
Departure Headway (Hd)	5.189	5.057	5.195	5.507
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	692	710	697	650
Service Time	3.224	3.092	3.195	3.547
HCM Lane V/C Ratio	0.315	0.208	0.451	0.172
HCM Control Delay	10.6	9.4	12.4	9.7
HCM Lane LOS	B	A	B	A
HCM 95th-tile Q	1.3	0.8	2.4	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	67	45	151	104	43	129	17	158	778	128	8	176	940	157
Future Volume (veh/h)	67	45	151	104	43	129	17	158	778	128	8	176	940	157
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.96	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	71	48	121	113	47	98		174	855	99		185	989	125
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	219	98	246	196	113	235		511	2626	303		207	1393	604
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21		0.29	0.57	0.57		0.23	0.79	0.79
Sat Flow, veh/h	1226	457	1153	1197	529	1103		1774	4619	532		1774	3539	1534
Grp Volume(v), veh/h	71	0	169	113	0	145		174	626	328		185	989	125
Grp Sat Flow(s),veh/h/ln	1226	0	1610	1197	0	1632		1774	1695	1761		1774	1770	1534
Q Serve(g_s), s	7.4	0.0	12.9	12.8	0.0	10.7		10.8	13.7	13.8		14.1	18.9	2.9
Cycle Q Clear(g_c), s	18.2	0.0	12.9	25.8	0.0	10.7		10.8	13.7	13.8		14.1	18.9	2.9
Prop In Lane	1.00		0.72	1.00		0.68		1.00		0.30		1.00		1.00
Lane Grp Cap(c), veh/h	219	0	343	196	0	348		511	1927	1001		207	1393	604
V/C Ratio(X)	0.32	0.00	0.49	0.58	0.00	0.42		0.34	0.33	0.33		0.89	0.71	0.21
Avail Cap(c_a), veh/h	396	0	576	369	0	584		511	1927	1001		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		0.58	0.58	0.58		0.91	0.91	0.91
Uniform Delay (d), s/veh	55.4	0.0	48.4	59.7	0.0	47.5		39.3	16.0	16.0		52.8	11.0	9.3
Incr Delay (d2), s/veh	0.6	0.0	0.8	2.0	0.0	0.6		0.1	0.3	0.5		4.8	2.8	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.0	5.9	4.3	0.0	4.9		5.3	6.4	6.9		7.2	9.3	1.3
LnGrp Delay(d),s/veh	56.0	0.0	49.2	61.7	0.0	48.1		39.4	16.3	16.5		57.6	13.9	10.1
LnGrp LOS	E		D	E		D		D	B	B		E	B	B
Approach Vol, veh/h		240			258				1128				1299	
Approach Delay, s/veh		51.2			54.1				19.9				19.7	
Approach LOS		D			D				B				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	84.5		34.8	45.2	60.0		34.8
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	16.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	16.1	15.8		20.2	12.8	20.9		27.8
Green Ext Time (p_c), s	0.2	7.8		1.1	0.1	10.8		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	25.4
HCM 2010 LOS	C

Notes

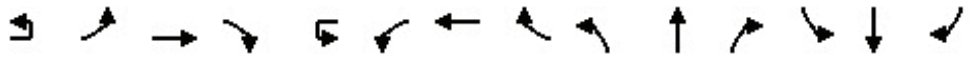


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	347	982	61	448	855	108	21	82	307	353	258	649	279
Future Volume (veh/h)	15	347	982	61	448	855	108	21	82	307	353	258	649	279
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		361	1023	45	477	910	81		87	327	264	300	755	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		566	1171	52	530	1034	92		108	677	530	322	832	249
Arrive On Green		0.16	0.34	0.34	0.15	0.32	0.32		0.06	0.19	0.19	0.18	0.31	0.31
Sat Flow, veh/h		3442	3447	152	3442	3276	292		1774	3539	1499	1774	2671	800
Grp Volume(v), veh/h		361	525	543	477	492	499		87	327	264	300	500	481
Grp Sat Flow(s),veh/h/ln		1721	1770	1830	1721	1770	1798		1774	1770	1499	1774	1770	1701
Q Serve(g_s), s		14.5	41.2	41.2	20.1	38.9	38.9		7.2	12.2	20.7	24.6	40.1	40.1
Cycle Q Clear(g_c), s		14.5	41.2	41.2	20.1	38.9	38.9		7.2	12.2	20.7	24.6	40.1	40.1
Prop In Lane		1.00		0.08	1.00		0.16		1.00		1.00	1.00		0.47
Lane Grp Cap(c), veh/h		566	601	621	530	558	567		108	677	530	322	551	530
V/C Ratio(X)		0.64	0.87	0.87	0.90	0.88	0.88		0.81	0.48	0.50	0.93	0.91	0.91
Avail Cap(c_a), veh/h		698	718	743	698	718	730		360	958	649	360	551	530
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		57.6	45.8	45.8	61.4	47.9	47.9		68.6	53.3	38.5	59.6	48.8	48.8
Incr Delay (d2), s/veh		0.6	10.5	10.2	10.4	10.1	9.9		5.3	0.4	0.5	28.0	18.6	19.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.9	21.9	22.6	10.4	20.5	20.8		3.7	6.0	8.6	14.6	22.4	21.7
LnGrp Delay(d),s/veh		58.3	56.3	56.0	71.8	58.0	57.9		73.8	53.6	39.0	87.6	67.4	68.0
LnGrp LOS		E	E	E	E	E	E		E	D	D	F	E	E
Approach Vol, veh/h			1429			1468				678			1281	
Approach Delay, s/veh			56.7			62.5				50.5			72.4	
Approach LOS			E			E				D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.1	55.9	13.4	51.4	30.0	53.1	31.2	33.6
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I2), s	22.1	43.2	9.2	42.1	16.5	40.9	26.6	22.7
Green Ext Time (p_c), s	0.6	7.0	0.1	0.0	0.6	5.7	0.2	2.1

Intersection Summary	
HCM 2010 Ctrl Delay	61.7
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	54	1243	140	47	76	1277	98	88	50	38	52	130	131
Future Volume (veh/h)	6	54	1243	140	47	76	1277	98	88	50	38	52	130	131
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		57	1308	103		81	1359	73	99	56	31	57	143	104
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		224	1668	131		102	1435	77	114	65	36	58	147	107
Arrive On Green		0.13	0.50	0.50		0.02	0.14	0.14	0.12	0.12	0.12	0.18	0.18	0.18
Sat Flow, veh/h		1774	3325	261		1774	3417	183	936	529	293	326	819	595
Grp Volume(v), veh/h		57	695	716		81	703	729	186	0	0	304	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1816		1774	1770	1830	1759	0	0	1740	0	0
Q Serve(g_s), s		4.1	45.1	45.4		6.4	55.1	55.3	14.5	0.0	0.0	24.3	0.0	0.0
Cycle Q Clear(g_c), s		4.1	45.1	45.4		6.4	55.1	55.3	14.5	0.0	0.0	24.3	0.0	0.0
Prop In Lane		1.00		0.14		1.00		0.10	0.53		0.17	0.19		0.34
Lane Grp Cap(c), veh/h		224	888	911		102	743	769	215	0	0	312	0	0
V/C Ratio(X)		0.25	0.78	0.79		0.80	0.95	0.95	0.87	0.00	0.00	0.97	0.00	0.00
Avail Cap(c_a), veh/h		224	888	911		172	743	769	315	0	0	312	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.51	0.51	0.51	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		55.2	28.6	28.7		67.9	58.7	58.8	60.3	0.0	0.0	57.1	0.0	0.0
Incr Delay (d2), s/veh		0.2	6.8	6.8		2.7	13.7	13.8	11.1	0.0	0.0	43.7	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.0	23.7	24.4		3.2	29.9	31.0	7.7	0.0	0.0	15.5	0.0	0.0
LnGrp Delay(d),s/veh		55.4	35.4	35.5		70.6	72.4	72.6	71.5	0.0	0.0	100.8	0.0	0.0
LnGrp LOS		E	D	D		E	E	E	E			F		
Approach Vol, veh/h			1468				1513			186			304	
Approach Delay, s/veh			36.2				72.4			71.5			100.8	
Approach LOS			D				E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.4	75.5		30.0	23.0	65.0		22.0
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	8.4	47.4		26.3	6.1	57.3		16.5
Green Ext Time (p_c), s	0.0	7.3		0.0	0.0	1.1		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	59.5
HCM 2010 LOS	E

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	270	858	223	8	240	938	297	13	265	521	98	31	364	647	177
Future Volume (veh/h)	3	270	858	223	8	240	938	297	13	265	521	98	31	364	647	177
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.96		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		293	933	169		267	1042	243		294	579	77		409	727	139
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		319	1055	191		580	1430	333		343	901	118		464	828	345
Arrive On Green		0.06	0.12	0.12		0.06	0.12	0.12		0.20	0.40	0.40		0.13	0.23	0.23
Sat Flow, veh/h		1774	2973	538		3442	4082	951		3442	4528	593		3442	3539	1473
Grp Volume(v), veh/h		293	555	547		267	865	420		294	431	225		409	727	139
Grp Sat Flow(s),veh/h/ln		1774	1770	1741		1721	1695	1643		1721	1695	1731		1721	1770	1473
Q Serve(g_s), s		23.0	43.3	43.3		10.5	34.5	34.6		11.6	14.4	14.8		16.3	27.7	11.2
Cycle Q Clear(g_c), s		23.0	43.3	43.3		10.5	34.5	34.6		11.6	14.4	14.8		16.3	27.7	11.2
Prop In Lane		1.00		0.31		1.00		0.58		1.00		0.34		1.00		1.00
Lane Grp Cap(c), veh/h		319	628	618		580	1187	575		343	674	344		464	828	345
V/C Ratio(X)		0.92	0.88	0.88		0.46	0.73	0.73		0.86	0.64	0.65		0.88	0.88	0.40
Avail Cap(c_a), veh/h		362	628	618		580	1187	575		556	753	384		629	862	359
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.25	0.25	0.25		0.86	0.86	0.86		0.95	0.95	0.95		0.82	0.82	0.82
Uniform Delay (d), s/veh		64.8	59.0	59.0		59.9	55.5	55.5		55.1	38.1	38.2		59.5	51.7	45.3
Incr Delay (d2), s/veh		8.3	4.9	5.0		0.2	3.4	6.9		3.8	2.1	4.4		7.4	8.8	1.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		12.1	22.1	21.8		5.1	16.8	16.9		5.7	6.9	7.4		8.3	14.5	4.7
LnGrp Delay(d),s/veh		73.2	63.9	64.0		60.1	58.9	62.4		58.9	40.2	42.7		66.9	60.5	46.4
LnGrp LOS		E	E	E		E	E	E		E	D	D		E	E	D
Approach Vol, veh/h			1395				1552				950				1275	
Approach Delay, s/veh			65.9				60.0				46.6				61.0	
Approach LOS			E				E				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.0	55.0	18.3	37.7	29.6	54.4	23.3	32.7
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	4.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	2.5	45.3	13.6	29.7	25.0	36.6	18.3	16.8
Green Ext Time (p_c), s	0.1	2.7	0.4	2.7	0.2	0.0	0.5	5.4

Intersection Summary	
HCM 2010 Ctrl Delay	59.4
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	2.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	123	25	90	264	12	42
Future Vol, veh/h	123	25	90	264	12	42
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	134	27	98	287	13	46

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	161	0	631	148
Stage 1	-	-	-	-	148	-
Stage 2	-	-	-	-	483	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1418	-	445	899
Stage 1	-	-	-	-	880	-
Stage 2	-	-	-	-	620	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1418	-	409	899
Mov Cap-2 Maneuver	-	-	-	-	409	-
Stage 1	-	-	-	-	808	-
Stage 2	-	-	-	-	620	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2	10.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	710	-	-	1418	-
HCM Lane V/C Ratio	0.083	-	-	0.069	-
HCM Control Delay (s)	10.5	-	-	7.7	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.3	-	-	0.2	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	130	9	106	520	320	164	1016	67	6
Future Volume (veh/h)	6	208	437	130	9	106	520	320	164	1016	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	96		114	559	241	169	1047	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	968	200		280	804	346	231	1098	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.34	0.34	0.09	0.42	0.42	
Sat Flow, veh/h		3442	2904	601		3442	2380	1023	3442	3441	158	
Grp Volume(v), veh/h		219	279	277		114	415	385	169	538	557	
Grp Sat Flow(s),veh/h/ln		1721	1770	1735		1721	1770	1634	1721	1770	1829	
Q Serve(g_s), s		6.7	13.5	13.7		3.4	21.9	22.0	5.2	31.8	31.8	
Cycle Q Clear(g_c), s		6.7	13.5	13.7		3.4	21.9	22.0	5.2	31.8	31.8	
Prop In Lane		1.00		0.35		1.00		0.63	1.00		0.09	
Lane Grp Cap(c), veh/h		283	590	578		280	598	552	231	565	584	
V/C Ratio(X)		0.77	0.47	0.48		0.41	0.69	0.70	0.73	0.95	0.95	
Avail Cap(c_a), veh/h		433	590	578		280	598	552	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.86	0.86	0.86	
Uniform Delay (d), s/veh		48.6	28.5	28.6		47.1	30.9	31.0	48.2	30.3	30.3	
Incr Delay (d2), s/veh		1.9	2.7	2.8		0.4	6.5	7.1	1.5	23.5	23.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.0	7.0		1.6	11.8	11.0	2.5	19.0	19.6	
LnGrp Delay(d),s/veh		50.5	31.2	31.4		47.5	37.4	38.1	49.7	53.8	53.3	
LnGrp LOS		D	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			775				914			1264		
Approach Delay, s/veh			36.7				39.0			53.0		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	41.0	11.6	41.6	13.3	41.5	13.8	39.4
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	15.7	7.2	14.5	8.7	24.0	9.2	33.8
Green Ext Time (p_c), s	0.0	3.5	0.1	1.6	0.2	3.0	0.0	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	42.9
HCM 2010 LOS	D

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	387	100
Future Volume (veh/h)	106	387	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	440	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1010	182
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	2975	536
Grp Volume(v), veh/h	120	260	260
Grp Sat Flow(s),veh/h/ln	1774	1770	1742
Q Serve(g_s), s	7.2	12.3	12.5
Cycle Q Clear(g_c), s	7.2	12.3	12.5
Prop In Lane	1.00		0.31
Lane Grp Cap(c), veh/h	147	601	591
V/C Ratio(X)	0.82	0.43	0.44
Avail Cap(c_a), veh/h	158	601	591
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.6	27.7
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.0	6.0
LnGrp Delay(d),s/veh	72.5	27.8	27.9
LnGrp LOS	E	C	C
Approach Vol, veh/h		640	
Approach Delay, s/veh		36.2	
Approach LOS		D	
Timer			

Intersection	
Intersection Delay, s/veh	9.1
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	62	86	57	26	7	52	44	55	10	54	2
Future Vol, veh/h	3	62	86	57	26	7	52	44	55	10	54	2
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	74	102	73	33	9	79	67	83	13	72	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	8.9	9	9.5	8.7
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	34%	2%	63%	15%
Vol Thru, %	29%	41%	29%	82%
Vol Right, %	36%	57%	8%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	151	151	90	66
LT Vol	52	3	57	10
Through Vol	44	62	26	54
RT Vol	55	86	7	2
Lane Flow Rate	229	180	115	88
Geometry Grp	1	1	1	1
Degree of Util (X)	0.292	0.224	0.16	0.12
Departure Headway (Hd)	4.587	4.494	4.978	4.917
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	780	795	717	724
Service Time	2.635	2.544	3.033	2.977
HCM Lane V/C Ratio	0.294	0.226	0.16	0.122
HCM Control Delay	9.5	8.9	9	8.7
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	1.2	0.9	0.6	0.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	56	30	77	95	28	75	7	104	1036	116	4	98	507	41
Future Volume (veh/h)	56	30	77	95	28	75	7	104	1036	116	4	98	507	41
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	67	36	69	122	36	67		113	1126	88		108	557	33
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	214	102	195	211	104	194		137	3086	241		130	2262	1003
Arrive On Green	0.18	0.18	0.18	0.18	0.18	0.18		0.08	0.64	0.64		0.15	1.00	1.00
Sat Flow, veh/h	1272	559	1071	1265	572	1065		1774	4799	375		1774	3539	1570
Grp Volume(v), veh/h	67	0	105	122	0	103		113	795	419		108	557	33
Grp Sat Flow(s),veh/h/ln	1272	0	1630	1265	0	1637		1774	1695	1784		1774	1770	1570
Q Serve(g_s), s	6.8	0.0	7.9	13.1	0.0	7.7		8.8	15.3	15.3		8.3	0.0	0.0
Cycle Q Clear(g_c), s	14.5	0.0	7.9	20.9	0.0	7.7		8.8	15.3	15.3		8.3	0.0	0.0
Prop In Lane	1.00		0.66	1.00		0.65		1.00		0.21		1.00		1.00
Lane Grp Cap(c), veh/h	214	0	297	211	0	299		137	2180	1147		130	2262	1003
V/C Ratio(X)	0.31	0.00	0.35	0.58	0.00	0.34		0.83	0.36	0.37		0.83	0.25	0.03
Avail Cap(c_a), veh/h	382	0	513	379	0	516		400	2180	1147		400	2262	1003
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.99	0.99	0.99
Uniform Delay (d), s/veh	56.3	0.0	50.0	59.2	0.0	49.9		63.7	11.7	11.7		58.9	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.5	1.9	0.0	0.5		4.8	0.5	0.9		5.1	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	3.6	4.7	0.0	3.5		4.5	7.3	7.8		4.2	0.1	0.0
LnGrp Delay(d),s/veh	56.9	0.0	50.6	61.0	0.0	50.4		68.5	12.1	12.6		64.0	0.3	0.1
LnGrp LOS	E		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		172			225				1327				698	
Approach Delay, s/veh		53.0			56.2				17.1				10.1	
Approach LOS		D			E				B				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	94.9		30.4	15.2	94.4		30.4
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	10.3	17.3		16.5	10.8	2.0		22.9
Green Ext Time (p_c), s	0.1	11.9		0.7	0.1	5.2		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	21.2
HCM 2010 LOS	C

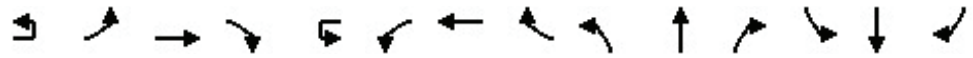
Notes

Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	199	814	74	343	770	99	15	149	408	329	2	153	279	294
Future Volume (veh/h)	5	199	814	74	343	770	99	15	149	408	329	2	153	279	294
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		207	848	54	365	819	74		180	492	396		168	307	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		417	1069	68	440	999	90		212	903	607		200	482	344
Arrive On Green		0.12	0.32	0.32	0.13	0.31	0.31		0.12	0.26	0.26		0.11	0.25	0.25
Sat Flow, veh/h		3442	3366	214	3442	3270	295		1774	3539	1583		1774	1940	1384
Grp Volume(v), veh/h		207	446	456	365	443	450		180	492	396		168	279	254
Grp Sat Flow(s),veh/h/ln		1721	1770	1811	1721	1770	1796		1774	1770	1583		1774	1770	1555
Q Serve(g_s), s		6.0	24.4	24.4	11.0	24.6	24.6		10.6	12.8	21.8		9.9	14.9	15.6
Cycle Q Clear(g_c), s		6.0	24.4	24.4	11.0	24.6	24.6		10.6	12.8	21.8		9.9	14.9	15.6
Prop In Lane		1.00		0.12	1.00		0.16		1.00		1.00		1.00		0.89
Lane Grp Cap(c), veh/h		417	562	575	440	541	549		212	903	607		200	439	386
V/C Ratio(X)		0.50	0.79	0.79	0.83	0.82	0.82		0.85	0.54	0.65		0.84	0.64	0.66
Avail Cap(c_a), veh/h		973	1000	1024	973	1000	1015		501	1334	799		501	667	586
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		43.6	33.0	33.0	45.2	34.2	34.2		45.8	34.2	26.9		46.2	35.6	35.8
Incr Delay (d2), s/veh		0.3	3.1	3.0	1.6	3.1	3.1		3.6	0.3	0.8		3.6	1.2	1.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.9	12.4	12.7	5.3	12.5	12.7		5.4	6.3	9.6		5.0	7.4	6.9
LnGrp Delay(d),s/veh		44.0	36.1	36.1	46.7	37.3	37.3		49.4	34.5	27.7		49.8	36.8	37.4
LnGrp LOS		D	D	D	D	D	D		D	C	C		D	D	D
Approach Vol, veh/h			1109			1258				1068				701	
Approach Delay, s/veh			37.6			40.0				34.5				40.1	
Approach LOS			D			D				C				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.0	39.4	17.1	31.7	18.6	38.8	16.4	32.4
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	13.0	26.4	12.6	17.6	8.0	26.6	11.9	23.8
Green Ext Time (p_c), s	0.6	7.3	0.2	2.8	0.3	5.8	0.2	3.3

Intersection Summary	
HCM 2010 Ctrl Delay	38.0
HCM 2010 LOS	D

Notes

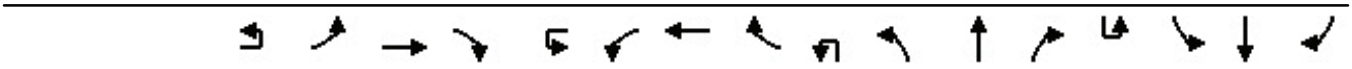


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	39	1100	85	3	51	997	92	184	89	83	60	96	78
Future Volume (veh/h)	13	39	1100	85	3	51	997	92	184	89	83	60	96	78
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		44	1250	67		63	1231	79	271	131	85	76	122	74
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		57	1319	71		81	1349	86	245	119	77	84	134	81
Arrive On Green		0.03	0.39	0.39		0.02	0.13	0.13	0.25	0.25	0.25	0.17	0.17	0.17
Sat Flow, veh/h		1774	3411	183		1774	3372	216	979	473	307	488	783	475
Grp Volume(v), veh/h		44	648	669		63	645	665	487	0	0	272	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1824		1774	1770	1818	1759	0	0	1745	0	0
Q Serve(g_s), s		3.4	49.6	49.8		5.0	50.4	50.5	35.1	0.0	0.0	21.4	0.0	0.0
Cycle Q Clear(g_c), s		3.4	49.6	49.8		5.0	50.4	50.5	35.1	0.0	0.0	21.4	0.0	0.0
Prop In Lane		1.00		0.10		1.00		0.12	0.56		0.17	0.28		0.27
Lane Grp Cap(c), veh/h		57	684	705		81	708	728	441	0	0	299	0	0
V/C Ratio(X)		0.78	0.95	0.95		0.78	0.91	0.91	1.10	0.00	0.00	0.91	0.00	0.00
Avail Cap(c_a), veh/h		122	684	705		122	708	728	441	0	0	350	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		0.59	0.59	0.59		0.71	0.71	0.71	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.3	41.5	41.6		68.3	58.3	58.4	52.5	0.0	0.0	56.9	0.0	0.0
Incr Delay (d2), s/veh		5.0	16.3	16.3		6.0	13.7	13.7	74.2	0.0	0.0	22.7	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.8	27.2	28.3		2.6	27.4	28.3	26.1	0.0	0.0	12.2	0.0	0.0
LnGrp Delay(d),s/veh		72.2	57.9	57.9		74.3	72.0	72.1	126.7	0.0	0.0	79.6	0.0	0.0
LnGrp LOS		E	E	E		E	E	E	F			E		
Approach Vol, veh/h			1361				1373			487			272	
Approach Delay, s/veh			58.3				72.2			126.7			79.6	
Approach LOS			E				E			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.8	60.3		28.9	8.9	62.2		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	7.0	51.8		23.4	5.4	52.5		37.1
Green Ext Time (p_c), s	0.0	0.0		0.5	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	75.0
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	172	868	259	5	92	694	268	2	282	787	66	5	210	418	179
Future Volume (veh/h)	3	172	868	259	5	92	694	268	2	282	787	66	5	210	418	179
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		193	975	203		106	798	219		300	837	49		241	480	149
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		442	1523	317		153	1231	335		346	1046	61		287	693	302
Arrive On Green		0.33	0.70	0.70		0.06	0.41	0.41		0.20	0.43	0.43		0.17	0.39	0.39
Sat Flow, veh/h		1774	2909	605		3442	3952	1074		3442	4910	287		3442	3539	1539
Grp Volume(v), veh/h		193	592	586		106	683	334		300	577	309		241	480	149
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1636		1721	1695	1806		1721	1770	1539
Q Serve(g_s), s		11.9	25.7	25.8		4.2	22.6	22.9		11.8	20.7	20.9		9.5	15.8	6.1
Cycle Q Clear(g_c), s		11.9	25.7	25.8		4.2	22.6	22.9		11.8	20.7	20.9		9.5	15.8	6.1
Prop In Lane		1.00		0.35		1.00		0.66		1.00		0.16		1.00		1.00
Lane Grp Cap(c), veh/h		442	926	913		153	1056	510		346	722	385		287	693	302
V/C Ratio(X)		0.44	0.64	0.64		0.69	0.65	0.65		0.87	0.80	0.80		0.84	0.69	0.49
Avail Cap(c_a), veh/h		442	926	913		383	1056	510		457	826	440		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		1.33	1.33	1.33		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.93	0.93	0.93		0.89	0.89	0.89		1.00	1.00	1.00
Uniform Delay (d), s/veh		39.1	14.0	14.1		64.9	34.9	35.0		55.0	37.6	37.6		57.4	39.0	13.4
Incr Delay (d2), s/veh		0.0	0.3	0.3		2.0	2.9	6.0		9.5	5.2	9.7		9.2	2.9	2.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.8	12.4	12.2		2.0	10.9	11.1		6.0	10.1	11.3		4.9	8.0	3.7
LnGrp Delay(d),s/veh		39.1	14.3	14.4		66.9	37.7	41.0		64.6	42.8	47.3		66.7	42.0	15.6
LnGrp LOS		D	B	B		E	D	D		E	D	D		E	D	B
Approach Vol, veh/h			1371				1123				1186				870	
Approach Delay, s/veh			17.8				41.4				49.5				44.3	
Approach LOS			B				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.6	78.6	18.5	32.3	40.2	49.0	16.1	34.7
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	6.2	27.8	13.8	17.8	13.9	24.9	11.5	22.9
Green Ext Time (p_c), s	0.1	9.4	0.3	4.6	0.2	5.9	0.2	6.1

Intersection Summary	
HCM 2010 Ctrl Delay	37.0
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	2.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	122	7	17	81	12	36
Future Vol, veh/h	122	7	17	81	12	36
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	133	8	18	88	13	39

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	141	0	261	137
Stage 1	-	-	-	-	137	-
Stage 2	-	-	-	-	124	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1442	-	728	911
Stage 1	-	-	-	-	890	-
Stage 2	-	-	-	-	902	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1442	-	719	911
Mov Cap-2 Maneuver	-	-	-	-	719	-
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	902	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	9.5
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	854	-	-	1442	-
HCM Lane V/C Ratio	0.061	-	-	0.013	-
HCM Control Delay (s)	9.5	-	-	7.5	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.2	-	-	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	56	0	1238	755	9
Future Vol, veh/h	0	56	0	1238	755	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	61	0	1346	821	10

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	416	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	585	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	585	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.9	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	585	-	-
HCM Lane V/C Ratio	-	0.104	-	-
HCM Control Delay (s)	-	11.9	-	-
HCM Lane LOS	-	B	-	-
HCM 95th %tile Q(veh)	-	0.3	-	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	254	15	186	737	105	255	401	106	2
Future Volume (veh/h)	11	142	662	254	15	186	737	105	255	401	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	199		200	792	79	271	427	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1168	316		255	1427	142	328	713	131	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2733	739		3442	3245	324	3442	2960	542	
Grp Volume(v), veh/h		158	476	459		200	432	439	271	254	252	
Grp Sat Flow(s),veh/h/ln		1721	1770	1703		1721	1770	1799	1721	1770	1732	
Q Serve(g_s), s		5.7	26.6	26.6		7.2	22.8	22.8	9.7	16.0	16.3	
Cycle Q Clear(g_c), s		5.7	26.6	26.6		7.2	22.8	22.8	9.7	16.0	16.3	
Prop In Lane		1.00		0.43		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		213	756	728		255	778	791	328	426	417	
V/C Ratio(X)		0.74	0.63	0.63		0.78	0.56	0.56	0.83	0.59	0.60	
Avail Cap(c_a), veh/h		399	756	728		399	778	791	481	479	469	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.3	28.3		57.3	26.2	26.2	56.0	42.4	42.5	
Incr Delay (d2), s/veh		1.9	4.0	4.1		2.1	2.8	2.8	4.7	0.8	1.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	13.8	13.3		3.5	11.8	12.0	4.8	7.9	7.9	
LnGrp Delay(d),s/veh		60.0	32.2	32.4		59.4	29.0	29.0	60.7	43.2	43.4	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1093				1071			777		
Approach Delay, s/veh			36.3				34.7			49.4		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.8	16.4	37.0	12.2	60.4	18.1	35.3
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	28.6	11.7	34.1	7.7	24.8	13.7	18.3
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.6

Intersection Summary	
HCM 2010 Ctrl Delay	61.8
HCM 2010 LOS	E

Notes



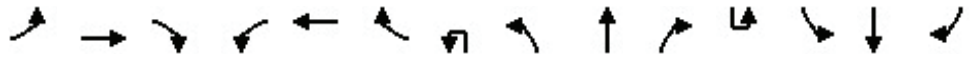
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	894	101
Future Volume (veh/h)	160	894	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	941	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	844	66
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3313	260
Grp Volume(v), veh/h	168	503	512
Grp Sat Flow(s),veh/h/ln	1774	1770	1803
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	459
V/C Ratio(X)	0.87	1.12	1.12
Avail Cap(c_a), veh/h	220	451	459
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	77.6	77.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	25.4	25.8
LnGrp Delay(d),s/veh	79.8	124.5	124.2
LnGrp LOS	E	F	F
Approach Vol, veh/h		1183	
Approach Delay, s/veh		118.0	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	10.9
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	57	41	189	68	12	83	38	77	6	83	2
Future Vol, veh/h	0	57	41	189	68	12	83	38	77	6	83	2
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	86	62	217	78	14	91	42	85	7	102	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.4	12.3	10.6	9.7
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	42%	0%	70%	7%
Vol Thru, %	19%	58%	25%	91%
Vol Right, %	39%	42%	4%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	198	98	269	91
LT Vol	83	0	189	6
Through Vol	38	57	68	83
RT Vol	77	41	12	2
Lane Flow Rate	218	148	309	112
Geometry Grp	1	1	1	1
Degree of Util (X)	0.313	0.208	0.446	0.171
Departure Headway (Hd)	5.175	5.047	5.189	5.492
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	694	711	699	653
Service Time	3.207	3.08	3.189	3.53
HCM Lane V/C Ratio	0.314	0.208	0.442	0.172
HCM Control Delay	10.6	9.4	12.3	9.7
HCM Lane LOS	B	A	B	A
HCM 95th-tile Q	1.3	0.8	2.3	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	64	45	131	106	41	129	17	158	781	128	8	176	952	145
Future Volume (veh/h)	64	45	131	106	41	129	17	158	781	128	8	176	952	145
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.96	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	68	48	99	115	45	98		174	858	99		185	1002	113
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	206	107	221	202	104	226		530	2676	307		207	1393	604
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20		0.30	0.58	0.58		0.23	0.79	0.79
Sat Flow, veh/h	1228	529	1092	1219	512	1116		1774	4621	531		1774	3539	1534
Grp Volume(v), veh/h	68	0	147	115	0	143		174	628	329		185	1002	113
Grp Sat Flow(s),veh/h/ln	1228	0	1621	1219	0	1629		1774	1695	1761		1774	1770	1534
Q Serve(g_s), s	7.2	0.0	11.1	12.8	0.0	10.7		10.7	13.4	13.5		14.1	19.4	2.6
Cycle Q Clear(g_c), s	17.9	0.0	11.1	23.9	0.0	10.7		10.7	13.4	13.5		14.1	19.4	2.6
Prop In Lane	1.00		0.67	1.00		0.69		1.00		0.30		1.00		1.00
Lane Grp Cap(c), veh/h	206	0	329	202	0	330		530	1963	1020		207	1393	604
V/C Ratio(X)	0.33	0.00	0.45	0.57	0.00	0.43		0.33	0.32	0.32		0.89	0.72	0.19
Avail Cap(c_a), veh/h	397	0	580	391	0	583		530	1963	1020		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.91	0.91	0.91
Uniform Delay (d), s/veh	56.6	0.0	48.9	59.4	0.0	48.8		38.2	15.2	15.2		52.8	11.1	9.3
Incr Delay (d2), s/veh	0.7	0.0	0.7	1.9	0.0	0.7		0.1	0.4	0.8		4.8	3.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	5.0	4.4	0.0	4.9		5.2	6.4	6.8		7.2	9.8	1.2
LnGrp Delay(d),s/veh	57.3	0.0	49.7	61.3	0.0	49.5		38.3	15.7	16.1		57.6	14.1	9.9
LnGrp LOS	E		D	E		D		D	B	B		E	B	A
Approach Vol, veh/h		215			258				1131				1300	
Approach Delay, s/veh		52.1			54.7				19.3				19.9	
Approach LOS		D			D				B				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	86.0		33.3	46.7	60.0		33.3
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	16.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	16.1	15.5		19.9	12.7	21.4		25.9
Green Ext Time (p_c), s	0.2	7.9		0.9	0.1	10.8		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	25.1
HCM 2010 LOS	C

Notes

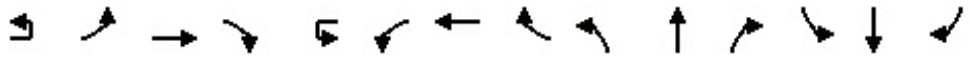


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	347	982	61	448	855	108	21	82	307	353	258	649	279
Future Volume (veh/h)	15	347	982	61	448	855	108	21	82	307	353	258	649	279
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		361	1023	45	477	910	81		87	327	264	300	755	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		566	1171	52	530	1034	92		108	677	530	322	832	249
Arrive On Green		0.16	0.34	0.34	0.15	0.32	0.32		0.06	0.19	0.19	0.18	0.31	0.31
Sat Flow, veh/h		3442	3447	152	3442	3276	292		1774	3539	1499	1774	2671	800
Grp Volume(v), veh/h		361	525	543	477	492	499		87	327	264	300	500	481
Grp Sat Flow(s),veh/h/ln		1721	1770	1830	1721	1770	1798		1774	1770	1499	1774	1770	1701
Q Serve(g_s), s		14.5	41.2	41.2	20.1	38.9	38.9		7.2	12.2	20.7	24.6	40.1	40.1
Cycle Q Clear(g_c), s		14.5	41.2	41.2	20.1	38.9	38.9		7.2	12.2	20.7	24.6	40.1	40.1
Prop In Lane		1.00		0.08	1.00		0.16		1.00		1.00	1.00		0.47
Lane Grp Cap(c), veh/h		566	601	621	530	558	567		108	677	530	322	551	530
V/C Ratio(X)		0.64	0.87	0.87	0.90	0.88	0.88		0.81	0.48	0.50	0.93	0.91	0.91
Avail Cap(c_a), veh/h		698	718	743	698	718	730		360	958	649	360	551	530
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		57.6	45.8	45.8	61.4	47.9	47.9		68.6	53.3	38.5	59.6	48.8	48.8
Incr Delay (d2), s/veh		0.6	10.5	10.2	10.4	10.1	9.9		5.3	0.4	0.5	28.0	18.6	19.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.9	21.9	22.6	10.4	20.5	20.8		3.7	6.0	8.6	14.6	22.4	21.7
LnGrp Delay(d),s/veh		58.3	56.3	56.0	71.8	58.0	57.9		73.8	53.6	39.0	87.6	67.4	68.0
LnGrp LOS		E	E	E	E	E	E		E	D	D	F	E	E
Approach Vol, veh/h			1429			1468				678			1281	
Approach Delay, s/veh			56.7			62.5				50.5			72.4	
Approach LOS			E			E				D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.1	55.9	13.4	51.4	30.0	53.1	31.2	33.6
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I2), s	22.1	43.2	9.2	42.1	16.5	40.9	26.6	22.7
Green Ext Time (p_c), s	0.6	7.0	0.1	0.0	0.6	5.7	0.2	2.1

Intersection Summary	
HCM 2010 Ctrl Delay	61.7
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	54	1243	140	47	76	1282	98	88	50	38	52	130	126
Future Volume (veh/h)	6	54	1243	140	47	76	1282	98	88	50	38	52	130	126
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		57	1308	103		81	1364	73	99	56	31	57	143	98
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		224	1668	131		102	1435	77	114	65	36	60	150	103
Arrive On Green		0.13	0.50	0.50		0.02	0.14	0.14	0.12	0.12	0.12	0.18	0.18	0.18
Sat Flow, veh/h		1774	3325	261		1774	3418	183	936	529	293	334	837	573
Grp Volume(v), veh/h		57	695	716		81	705	732	186	0	0	298	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1816		1774	1770	1831	1759	0	0	1744	0	0
Q Serve(g_s), s		4.1	45.1	45.4		6.4	55.3	55.6	14.5	0.0	0.0	23.7	0.0	0.0
Cycle Q Clear(g_c), s		4.1	45.1	45.4		6.4	55.3	55.6	14.5	0.0	0.0	23.7	0.0	0.0
Prop In Lane		1.00		0.14		1.00		0.10	0.53		0.17	0.19		0.33
Lane Grp Cap(c), veh/h		224	888	911		102	743	769	215	0	0	313	0	0
V/C Ratio(X)		0.25	0.78	0.79		0.80	0.95	0.95	0.87	0.00	0.00	0.95	0.00	0.00
Avail Cap(c_a), veh/h		224	888	911		172	743	769	315	0	0	313	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.51	0.51	0.51	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		55.2	28.6	28.7		67.9	58.8	58.9	60.3	0.0	0.0	56.9	0.0	0.0
Incr Delay (d2), s/veh		0.2	6.8	6.8		2.7	14.1	14.3	11.1	0.0	0.0	38.1	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.0	23.7	24.4		3.2	30.1	31.2	7.7	0.0	0.0	14.7	0.0	0.0
LnGrp Delay(d),s/veh		55.4	35.4	35.5		70.6	72.9	73.2	71.5	0.0	0.0	95.0	0.0	0.0
LnGrp LOS		E	D	D		E	E	E	E			F		
Approach Vol, veh/h			1468				1518			186			298	
Approach Delay, s/veh			36.2				72.9			71.5			95.0	
Approach LOS			D				E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.4	75.5		30.0	23.0	65.0		22.0
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	8.4	47.4		25.7	6.1	57.6		16.5
Green Ext Time (p_c), s	0.0	7.3		0.0	0.0	1.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	59.2
HCM 2010 LOS	E

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	270	858	223	8	240	938	297	13	265	521	98	31	367	647	182
Future Volume (veh/h)	3	270	858	223	8	240	938	297	13	265	521	98	31	367	647	182
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.96		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		293	933	169		267	1042	243		294	579	77		412	727	144
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		319	1055	191		580	1430	333		343	897	117		467	828	345
Arrive On Green		0.06	0.12	0.12		0.06	0.12	0.12		0.20	0.40	0.40		0.14	0.23	0.23
Sat Flow, veh/h		1774	2973	538		3442	4082	951		3442	4528	593		3442	3539	1473
Grp Volume(v), veh/h		293	555	547		267	865	420		294	431	225		412	727	144
Grp Sat Flow(s),veh/h/ln		1774	1770	1741		1721	1695	1643		1721	1695	1731		1721	1770	1473
Q Serve(g_s), s		23.0	43.3	43.3		10.5	34.5	34.6		11.6	14.4	14.8		16.5	27.7	11.6
Cycle Q Clear(g_c), s		23.0	43.3	43.3		10.5	34.5	34.6		11.6	14.4	14.8		16.5	27.7	11.6
Prop In Lane		1.00		0.31		1.00		0.58		1.00		0.34		1.00		1.00
Lane Grp Cap(c), veh/h		319	628	618		580	1187	575		343	671	343		467	828	345
V/C Ratio(X)		0.92	0.88	0.88		0.46	0.73	0.73		0.86	0.64	0.66		0.88	0.88	0.42
Avail Cap(c_a), veh/h		362	628	618		580	1187	575		556	753	384		629	862	359
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.25	0.25	0.25		0.86	0.86	0.86		0.95	0.95	0.95		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.8	59.0	59.0		59.9	55.5	55.5		55.1	38.3	38.4		59.4	51.7	45.5
Incr Delay (d2), s/veh		8.3	4.9	5.0		0.2	3.4	6.9		3.8	2.1	4.5		9.1	10.5	1.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		12.1	22.1	21.8		5.1	16.8	16.9		5.7	6.9	7.4		8.4	14.7	4.9
LnGrp Delay(d),s/veh		73.2	63.9	64.0		60.1	58.9	62.4		58.9	40.4	42.9		68.5	62.2	46.9
LnGrp LOS		E	E	E		E	E	E		E	D	D		E	E	D
Approach Vol, veh/h			1395				1552				950				1283	
Approach Delay, s/veh			65.9				60.0				46.7				62.5	
Approach LOS			E				E				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.0	55.0	18.3	37.7	29.6	54.4	23.4	32.6
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	4.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	2.5	45.3	13.6	29.7	25.0	36.6	18.5	16.8
Green Ext Time (p_c), s	0.1	2.7	0.4	2.7	0.2	0.0	0.5	5.4

Intersection Summary	
HCM 2010 Ctrl Delay	59.8
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	1.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	123	25	58	264	6	19
Future Vol, veh/h	123	25	58	264	6	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	134	27	63	287	7	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	161	0	561	148
Stage 1	-	-	-	-	148	-
Stage 2	-	-	-	-	413	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1418	-	489	899
Stage 1	-	-	-	-	880	-
Stage 2	-	-	-	-	668	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1418	-	463	899
Mov Cap-2 Maneuver	-	-	-	-	463	-
Stage 1	-	-	-	-	833	-
Stage 2	-	-	-	-	668	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.4	10.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	733	-	-	1418	-
HCM Lane V/C Ratio	0.037	-	-	0.044	-
HCM Control Delay (s)	10.1	-	-	7.7	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	98	0	1122	1129	32
Future Vol, veh/h	0	98	0	1122	1129	32
Conflicting Peds, #/hr	0	3	0	0	0	3
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	94	94	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	131	0	1194	1214	34

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	630	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	424	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	422	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	17.3	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	422	-	-
HCM Lane V/C Ratio	-	0.31	-	-
HCM Control Delay (s)	-	17.3	-	-
HCM Lane LOS	-	C	-	-
HCM 95th %tile Q(veh)	-	1.3	-	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	130	9	106	520	320	164	1016	67	6
Future Volume (veh/h)	6	208	437	130	9	106	520	320	164	1016	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	96		114	559	241	169	1047	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	968	200		280	804	346	231	1098	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.34	0.34	0.09	0.42	0.42	
Sat Flow, veh/h		3442	2904	601		3442	2380	1023	3442	3441	158	
Grp Volume(v), veh/h		219	279	277		114	415	385	169	538	557	
Grp Sat Flow(s),veh/h/ln		1721	1770	1735		1721	1770	1634	1721	1770	1829	
Q Serve(g_s), s		6.7	13.5	13.7		3.4	21.9	22.0	5.2	31.8	31.8	
Cycle Q Clear(g_c), s		6.7	13.5	13.7		3.4	21.9	22.0	5.2	31.8	31.8	
Prop In Lane		1.00		0.35		1.00		0.63	1.00		0.09	
Lane Grp Cap(c), veh/h		283	590	578		280	598	552	231	565	584	
V/C Ratio(X)		0.77	0.47	0.48		0.41	0.69	0.70	0.73	0.95	0.95	
Avail Cap(c_a), veh/h		433	590	578		280	598	552	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.86	0.86	0.86	
Uniform Delay (d), s/veh		48.6	28.5	28.6		47.1	30.9	31.0	48.2	30.3	30.3	
Incr Delay (d2), s/veh		1.9	2.7	2.8		0.4	6.5	7.1	1.5	23.5	23.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.0	7.0		1.6	11.8	11.0	2.5	19.0	19.6	
LnGrp Delay(d),s/veh		50.5	31.2	31.4		47.5	37.4	38.1	49.7	53.8	53.3	
LnGrp LOS		D	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			775				914			1264		
Approach Delay, s/veh			36.7				39.0			53.0		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	41.0	11.6	41.6	13.3	41.5	13.8	39.4
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	15.7	7.2	14.5	8.7	24.0	9.2	33.8
Green Ext Time (p_c), s	0.0	3.5	0.1	1.6	0.2	3.0	0.0	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	42.9
HCM 2010 LOS	D

Notes



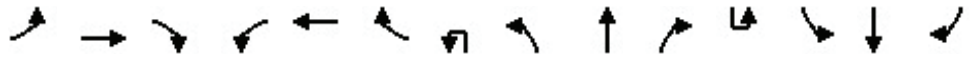
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	387	100
Future Volume (veh/h)	106	387	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	440	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1010	182
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	2975	536
Grp Volume(v), veh/h	120	260	260
Grp Sat Flow(s),veh/h/ln	1774	1770	1742
Q Serve(g_s), s	7.2	12.3	12.5
Cycle Q Clear(g_c), s	7.2	12.3	12.5
Prop In Lane	1.00		0.31
Lane Grp Cap(c), veh/h	147	601	591
V/C Ratio(X)	0.82	0.43	0.44
Avail Cap(c_a), veh/h	158	601	591
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.6	27.7
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.0	6.0
LnGrp Delay(d),s/veh	72.5	27.8	27.9
LnGrp LOS	E	C	C
Approach Vol, veh/h		640	
Approach Delay, s/veh		36.2	
Approach LOS		D	
Timer			

Intersection	
Intersection Delay, s/veh	9.1
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	62	86	53	26	7	52	44	55	10	54	2
Future Vol, veh/h	3	62	86	53	26	7	52	44	55	10	54	2
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	74	102	68	33	9	79	67	83	13	72	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	8.8	8.9	9.5	8.6
HCM LOS	A	A	A	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	34%	2%	62%	15%
Vol Thru, %	29%	41%	30%	82%
Vol Right, %	36%	57%	8%	3%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	151	151	86	66
LT Vol	52	3	53	10
Through Vol	44	62	26	54
RT Vol	55	86	7	2
Lane Flow Rate	229	180	110	88
Geometry Grp	1	1	1	1
Degree of Util (X)	0.291	0.224	0.152	0.12
Departure Headway (Hd)	4.573	4.485	4.97	4.903
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	782	796	718	727
Service Time	2.62	2.534	3.025	2.96
HCM Lane V/C Ratio	0.293	0.226	0.153	0.121
HCM Control Delay	9.5	8.8	8.9	8.6
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	1.2	0.9	0.5	0.4



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	57	30	76	95	28	75	7	97	1036	116	4	98	506	42
Future Volume (veh/h)	57	30	76	95	28	75	7	97	1036	116	4	98	506	42
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	69	36	68	122	36	67		105	1126	88		108	556	34
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	213	103	194	211	104	194		128	3089	241		130	2281	1012
Arrive On Green	0.18	0.18	0.18	0.18	0.18	0.18		0.07	0.64	0.64		0.15	1.00	1.00
Sat Flow, veh/h	1272	564	1066	1266	572	1065		1774	4799	375		1774	3539	1570
Grp Volume(v), veh/h	69	0	104	122	0	103		105	795	419		108	556	34
Grp Sat Flow(s),veh/h/ln	1272	0	1631	1266	0	1637		1774	1695	1784		1774	1770	1570
Q Serve(g_s), s	7.0	0.0	7.8	13.0	0.0	7.7		8.2	15.3	15.3		8.3	0.0	0.0
Cycle Q Clear(g_c), s	14.7	0.0	7.8	20.8	0.0	7.7		8.2	15.3	15.3		8.3	0.0	0.0
Prop In Lane	1.00		0.65	1.00		0.65		1.00		0.21		1.00		1.00
Lane Grp Cap(c), veh/h	213	0	296	211	0	298		128	2182	1148		130	2281	1012
V/C Ratio(X)	0.32	0.00	0.35	0.58	0.00	0.35		0.82	0.36	0.36		0.83	0.24	0.03
Avail Cap(c_a), veh/h	382	0	514	380	0	516		400	2182	1148		400	2281	1012
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.99	0.99	0.99
Uniform Delay (d), s/veh	56.4	0.0	50.1	59.2	0.0	50.0		64.0	11.6	11.6		58.9	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.5	1.9	0.0	0.5		4.8	0.5	0.9		5.1	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	3.6	4.7	0.0	3.5		4.2	7.2	7.7		4.2	0.1	0.0
LnGrp Delay(d),s/veh	57.1	0.0	50.6	61.0	0.0	50.5		68.9	12.1	12.5		64.0	0.3	0.1
LnGrp LOS	E		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		173			225				1319				698	
Approach Delay, s/veh		53.2			56.2				16.7				10.1	
Approach LOS		D			E				B				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	95.0		30.4	14.5	95.1		30.4
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	10.3	17.3		16.7	10.2	2.0		22.8
Green Ext Time (p_c), s	0.1	11.9		0.7	0.1	5.2		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	21.1
HCM 2010 LOS	C

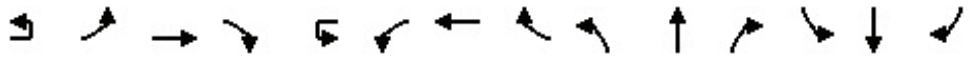
Notes

Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	199	814	74	343	770	99	15	149	408	329	2	153	279	294
Future Volume (veh/h)	5	199	814	74	343	770	99	15	149	408	329	2	153	279	294
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		207	848	54	365	819	74		180	492	396		168	307	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		417	1069	68	440	999	90		212	903	607		200	482	344
Arrive On Green		0.12	0.32	0.32	0.13	0.31	0.31		0.12	0.26	0.26		0.11	0.25	0.25
Sat Flow, veh/h		3442	3366	214	3442	3270	295		1774	3539	1583		1774	1940	1384
Grp Volume(v), veh/h		207	446	456	365	443	450		180	492	396		168	279	254
Grp Sat Flow(s),veh/h/ln		1721	1770	1811	1721	1770	1796		1774	1770	1583		1774	1770	1555
Q Serve(g_s), s		6.0	24.4	24.4	11.0	24.6	24.6		10.6	12.8	21.8		9.9	14.9	15.6
Cycle Q Clear(g_c), s		6.0	24.4	24.4	11.0	24.6	24.6		10.6	12.8	21.8		9.9	14.9	15.6
Prop In Lane		1.00		0.12	1.00		0.16		1.00		1.00		1.00		0.89
Lane Grp Cap(c), veh/h		417	562	575	440	541	549		212	903	607		200	439	386
V/C Ratio(X)		0.50	0.79	0.79	0.83	0.82	0.82		0.85	0.54	0.65		0.84	0.64	0.66
Avail Cap(c_a), veh/h		973	1000	1024	973	1000	1015		501	1334	799		501	667	586
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		43.6	33.0	33.0	45.2	34.2	34.2		45.8	34.2	26.9		46.2	35.6	35.8
Incr Delay (d2), s/veh		0.3	3.1	3.0	1.6	3.1	3.1		3.6	0.3	0.8		3.6	1.2	1.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.9	12.4	12.7	5.3	12.5	12.7		5.4	6.3	9.6		5.0	7.4	6.9
LnGrp Delay(d),s/veh		44.0	36.1	36.1	46.7	37.3	37.3		49.4	34.5	27.7		49.8	36.8	37.4
LnGrp LOS		D	D	D	D	D	D		D	C	C		D	D	D
Approach Vol, veh/h			1109			1258				1068				701	
Approach Delay, s/veh			37.6			40.0				34.5				40.1	
Approach LOS			D			D				C				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.0	39.4	17.1	31.7	18.6	38.8	16.4	32.4
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	13.0	26.4	12.6	17.6	8.0	26.6	11.9	23.8
Green Ext Time (p_c), s	0.6	7.3	0.2	2.8	0.3	5.8	0.2	3.3

Intersection Summary	
HCM 2010 Ctrl Delay	38.0
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	39	1100	85	3	54	1001	92	184	89	83	60	95	74
Future Volume (veh/h)	13	39	1100	85	3	54	1001	92	184	89	83	60	95	74
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		44	1250	67		67	1236	79	271	131	85	76	120	69
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		57	1323	71		85	1363	87	245	119	77	84	133	76
Arrive On Green		0.03	0.39	0.39		0.02	0.13	0.13	0.25	0.25	0.25	0.17	0.17	0.17
Sat Flow, veh/h		1774	3411	183		1774	3373	215	979	473	307	501	792	455
Grp Volume(v), veh/h		44	648	669		67	648	667	487	0	0	265	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1824		1774	1770	1819	1759	0	0	1748	0	0
Q Serve(g_s), s		3.4	49.5	49.7		5.3	50.5	50.7	35.1	0.0	0.0	20.8	0.0	0.0
Cycle Q Clear(g_c), s		3.4	49.5	49.7		5.3	50.5	50.7	35.1	0.0	0.0	20.8	0.0	0.0
Prop In Lane		1.00		0.10		1.00		0.12	0.56		0.17	0.29		0.26
Lane Grp Cap(c), veh/h		57	686	707		85	715	735	441	0	0	293	0	0
V/C Ratio(X)		0.78	0.94	0.95		0.78	0.91	0.91	1.10	0.00	0.00	0.90	0.00	0.00
Avail Cap(c_a), veh/h		122	686	707		122	715	735	441	0	0	351	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.3	41.4	41.4		68.2	58.0	58.1	52.5	0.0	0.0	57.2	0.0	0.0
Incr Delay (d2), s/veh		8.2	23.0	23.0		11.8	17.2	17.2	74.2	0.0	0.0	21.4	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.8	28.5	29.4		2.9	28.2	29.1	26.1	0.0	0.0	11.8	0.0	0.0
LnGrp Delay(d),s/veh		75.5	64.4	64.4		80.0	75.2	75.3	126.7	0.0	0.0	78.5	0.0	0.0
LnGrp LOS		E	E	E		F	E	E	F			E		
Approach Vol, veh/h			1361				1382			487			265	
Approach Delay, s/veh			64.8				75.5			126.7			78.5	
Approach LOS			E				E			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	11.1	60.5		28.4	8.9	62.8		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	7.3	51.7		22.8	5.4	52.7		37.1
Green Ext Time (p_c), s	0.0	0.0		0.5	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	78.7
HCM 2010 LOS	E

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	172	870	259	5	92	699	263	2	284	785	66	5	207	418	168
Future Volume (veh/h)	3	172	870	259	5	92	699	263	2	284	785	66	5	207	418	168
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		193	978	203		106	803	213		302	835	49		238	480	136
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		444	1527	316		153	1241	326		348	1045	61		284	688	299
Arrive On Green		0.33	0.70	0.70		0.06	0.41	0.41		0.20	0.43	0.43		0.17	0.39	0.39
Sat Flow, veh/h		1774	2911	603		3442	3985	1047		3442	4909	287		3442	3539	1539
Grp Volume(v), veh/h		193	594	587		106	682	334		302	576	308		238	480	136
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1642		1721	1695	1806		1721	1770	1539
Q Serve(g_s), s		11.9	25.7	25.8		4.2	22.5	22.9		11.9	20.7	20.8		9.4	15.9	5.5
Cycle Q Clear(g_c), s		11.9	25.7	25.8		4.2	22.5	22.9		11.9	20.7	20.8		9.4	15.9	5.5
Prop In Lane		1.00		0.35		1.00		0.64		1.00		0.16		1.00		1.00
Lane Grp Cap(c), veh/h		444	928	915		153	1056	511		348	722	384		284	688	299
V/C Ratio(X)		0.43	0.64	0.64		0.69	0.65	0.65		0.87	0.80	0.80		0.84	0.70	0.45
Avail Cap(c_a), veh/h		444	928	915		383	1056	511		457	826	440		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		1.33	1.33	1.33		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		1.00	1.00	1.00		0.93	0.93	0.93		0.89	0.89	0.89		1.00	1.00	1.00
Uniform Delay (d), s/veh		39.0	13.9	14.0		64.9	34.8	34.9		54.9	37.6	37.6		57.5	39.4	13.4
Incr Delay (d2), s/veh		0.2	3.4	3.4		2.0	2.9	6.0		9.7	5.2	9.6		8.8	3.0	1.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		5.8	13.2	13.1		2.0	10.9	11.1		6.1	10.1	11.3		4.8	8.0	3.3
LnGrp Delay(d),s/veh		39.2	17.3	17.4		66.9	37.7	40.9		64.7	42.8	47.2		66.4	42.4	15.2
LnGrp LOS		D	B	B		E	D	D		E	D	D		E	D	B
Approach Vol, veh/h			1374				1122				1186				854	
Approach Delay, s/veh			20.4				41.4				49.5				44.7	
Approach LOS			C				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.6	78.7	18.6	32.1	40.3	49.0	16.0	34.7
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	6.2	27.8	13.9	17.9	13.9	24.9	11.4	22.8
Green Ext Time (p_c), s	0.1	9.5	0.3	4.5	0.2	5.9	0.2	6.1

Intersection Summary	
HCM 2010 Ctrl Delay	37.8
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	1.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	122	7	13	81	7	37
Future Vol, veh/h	122	7	13	81	7	37
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	133	8	14	88	8	40

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	141	0	253	137
Stage 1	-	-	-	-	137	-
Stage 2	-	-	-	-	116	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1442	-	736	911
Stage 1	-	-	-	-	890	-
Stage 2	-	-	-	-	909	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1442	-	729	911
Mov Cap-2 Maneuver	-	-	-	-	729	-
Stage 1	-	-	-	-	881	-
Stage 2	-	-	-	-	909	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1	9.3
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	876	-	-	1442	-
HCM Lane V/C Ratio	0.055	-	-	0.01	-
HCM Control Delay (s)	9.3	-	-	7.5	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.2	-	-	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	43	0	1230	755	6
Future Vol, veh/h	0	43	0	1230	755	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	47	0	1337	821	7

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	414	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	587	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	587	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.7	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	587	-	-
HCM Lane V/C Ratio	-	0.08	-	-
HCM Control Delay (s)	-	11.7	-	-
HCM Lane LOS	-	B	-	-
HCM 95th %tile Q(veh)	-	0.3	-	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	1248	1132	7	0	18
Future Vol, veh/h	0	1248	1132	7	0	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1357	1230	8	0	20

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	619
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	432
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	432
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	13.7
HCM LOS			B

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	432
HCM Lane V/C Ratio	-	-	-	0.045
HCM Control Delay (s)	-	-	-	13.7
HCM Lane LOS	-	-	-	B
HCM 95th %tile Q(veh)	-	-	-	0.1

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	254	15	186	737	105	255	401	106	2
Future Volume (veh/h)	11	142	662	254	15	186	737	105	255	401	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	199		200	792	79	271	427	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1168	316		255	1427	142	328	713	131	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2733	739		3442	3245	324	3442	2960	542	
Grp Volume(v), veh/h		158	476	459		200	432	439	271	254	252	
Grp Sat Flow(s),veh/h/ln		1721	1770	1703		1721	1770	1799	1721	1770	1732	
Q Serve(g_s), s		5.7	26.6	26.6		7.2	22.8	22.8	9.7	16.0	16.3	
Cycle Q Clear(g_c), s		5.7	26.6	26.6		7.2	22.8	22.8	9.7	16.0	16.3	
Prop In Lane		1.00		0.43		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		213	756	728		255	778	791	328	426	417	
V/C Ratio(X)		0.74	0.63	0.63		0.78	0.56	0.56	0.83	0.59	0.60	
Avail Cap(c_a), veh/h		399	756	728		399	778	791	481	479	469	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.3	28.3		57.3	26.2	26.2	56.0	42.4	42.5	
Incr Delay (d2), s/veh		1.9	4.0	4.1		2.1	2.8	2.8	4.7	0.8	1.0	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	13.8	13.3		3.5	11.8	12.0	4.8	7.9	7.9	
LnGrp Delay(d),s/veh		60.0	32.2	32.4		59.4	29.0	29.0	60.7	43.2	43.4	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1093				1071			777		
Approach Delay, s/veh			36.3				34.7			49.4		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.8	16.4	37.0	12.2	60.4	18.1	35.3
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	28.6	11.7	34.1	7.7	24.8	13.7	18.3
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.6

Intersection Summary	
HCM 2010 Ctrl Delay	61.8
HCM 2010 LOS	E

Notes



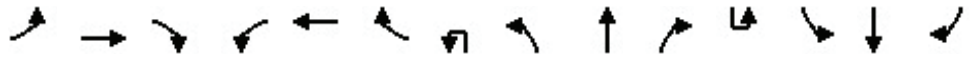
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	894	101
Future Volume (veh/h)	160	894	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	941	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	844	66
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3313	260
Grp Volume(v), veh/h	168	503	512
Grp Sat Flow(s),veh/h/ln	1774	1770	1803
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	459
V/C Ratio(X)	0.87	1.12	1.12
Avail Cap(c_a), veh/h	220	451	459
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	77.6	77.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	25.4	25.8
LnGrp Delay(d),s/veh	79.8	124.5	124.2
LnGrp LOS	E	F	F
Approach Vol, veh/h		1183	
Approach Delay, s/veh		118.0	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	10.8
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	57	41	187	67	12	83	38	77	6	83	2
Future Vol, veh/h	0	57	41	187	67	12	83	38	77	6	83	2
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	86	62	215	77	14	91	42	85	7	102	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.4	12.2	10.5	9.7
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	42%	0%	70%	7%
Vol Thru, %	19%	58%	25%	91%
Vol Right, %	39%	42%	5%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	198	98	266	91
LT Vol	83	0	187	6
Through Vol	38	57	67	83
RT Vol	77	41	12	2
Lane Flow Rate	218	148	306	112
Geometry Grp	1	1	1	1
Degree of Util (X)	0.312	0.208	0.441	0.171
Departure Headway (Hd)	5.163	5.04	5.187	5.48
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	696	711	697	654
Service Time	3.198	3.073	3.187	3.519
HCM Lane V/C Ratio	0.313	0.208	0.439	0.171
HCM Control Delay	10.5	9.4	12.2	9.7
HCM Lane LOS	B	A	B	A
HCM 95th-tile Q	1.3	0.8	2.3	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	64	45	131	106	41	129	17	135	780	128	8	176	952	146
Future Volume (veh/h)	64	45	131	106	41	129	17	135	780	128	8	176	952	146
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.96	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	68	48	99	115	45	98		148	857	99		185	1002	114
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	206	107	221	202	104	226		530	2676	308		207	1393	604
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20		0.30	0.58	0.58		0.23	0.79	0.79
Sat Flow, veh/h	1228	529	1092	1219	512	1116		1774	4620	531		1774	3539	1534
Grp Volume(v), veh/h	68	0	147	115	0	143		148	628	328		185	1002	114
Grp Sat Flow(s),veh/h/ln	1228	0	1621	1219	0	1629		1774	1695	1761		1774	1770	1534
Q Serve(g_s), s	7.2	0.0	11.1	12.8	0.0	10.7		8.9	13.4	13.5		14.1	19.4	2.6
Cycle Q Clear(g_c), s	17.9	0.0	11.1	23.9	0.0	10.7		8.9	13.4	13.5		14.1	19.4	2.6
Prop In Lane	1.00		0.67	1.00		0.69		1.00		0.30		1.00		1.00
Lane Grp Cap(c), veh/h	206	0	329	202	0	330		530	1963	1020		207	1393	604
V/C Ratio(X)	0.33	0.00	0.45	0.57	0.00	0.43		0.28	0.32	0.32		0.89	0.72	0.19
Avail Cap(c_a), veh/h	397	0	580	391	0	583		530	1963	1020		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.91	0.91	0.91
Uniform Delay (d), s/veh	56.6	0.0	48.9	59.4	0.0	48.8		37.5	15.2	15.2		52.8	11.1	9.3
Incr Delay (d2), s/veh	0.7	0.0	0.7	1.9	0.0	0.7		0.1	0.4	0.8		4.8	3.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	5.0	4.4	0.0	4.9		4.4	6.4	6.8		7.2	9.8	1.2
LnGrp Delay(d),s/veh	57.3	0.0	49.7	61.3	0.0	49.5		37.7	15.6	16.1		57.6	14.1	9.9
LnGrp LOS	E		D	E		D		D	B	B		E	B	A
Approach Vol, veh/h		215			258				1104				1301	
Approach Delay, s/veh		52.1			54.7				18.7				19.9	
Approach LOS		D			D				B				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	86.0		33.3	46.7	60.0		33.3
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	16.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	16.1	15.5		19.9	10.9	21.4		25.9
Green Ext Time (p_c), s	0.2	7.8		0.9	0.1	10.8		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	25.0
HCM 2010 LOS	C

Notes

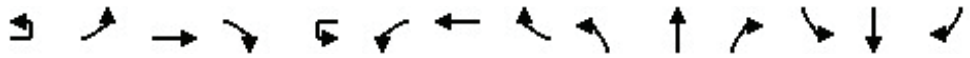


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	347	982	61	448	855	108	21	82	307	353	258	649	279
Future Volume (veh/h)	15	347	982	61	448	855	108	21	82	307	353	258	649	279
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		361	1023	45	477	910	81		87	327	264	300	755	226
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		566	1171	52	530	1034	92		108	677	530	322	832	249
Arrive On Green		0.16	0.34	0.34	0.15	0.32	0.32		0.06	0.19	0.19	0.18	0.31	0.31
Sat Flow, veh/h		3442	3447	152	3442	3276	292		1774	3539	1499	1774	2671	800
Grp Volume(v), veh/h		361	525	543	477	492	499		87	327	264	300	500	481
Grp Sat Flow(s),veh/h/ln		1721	1770	1830	1721	1770	1798		1774	1770	1499	1774	1770	1701
Q Serve(g_s), s		14.5	41.2	41.2	20.1	38.9	38.9		7.2	12.2	20.7	24.6	40.1	40.1
Cycle Q Clear(g_c), s		14.5	41.2	41.2	20.1	38.9	38.9		7.2	12.2	20.7	24.6	40.1	40.1
Prop In Lane		1.00		0.08	1.00		0.16		1.00		1.00	1.00		0.47
Lane Grp Cap(c), veh/h		566	601	621	530	558	567		108	677	530	322	551	530
V/C Ratio(X)		0.64	0.87	0.87	0.90	0.88	0.88		0.81	0.48	0.50	0.93	0.91	0.91
Avail Cap(c_a), veh/h		698	718	743	698	718	730		360	958	649	360	551	530
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		57.6	45.8	45.8	61.4	47.9	47.9		68.6	53.3	38.5	59.6	48.8	48.8
Incr Delay (d2), s/veh		0.6	10.5	10.2	10.4	10.1	9.9		5.3	0.4	0.5	28.0	18.6	19.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.9	21.9	22.6	10.4	20.5	20.8		3.7	6.0	8.6	14.6	22.4	21.7
LnGrp Delay(d),s/veh		58.3	56.3	56.0	71.8	58.0	57.9		73.8	53.6	39.0	87.6	67.4	68.0
LnGrp LOS		E	E	E	E	E	E		E	D	D	F	E	E
Approach Vol, veh/h			1429			1468				678			1281	
Approach Delay, s/veh			56.7			62.5				50.5			72.4	
Approach LOS			E			E				D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.1	55.9	13.4	51.4	30.0	53.1	31.2	33.6
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I2), s	22.1	43.2	9.2	42.1	16.5	40.9	26.6	22.7
Green Ext Time (p_c), s	0.6	7.0	0.1	0.0	0.6	5.7	0.2	2.1

Intersection Summary	
HCM 2010 Ctrl Delay	61.7
HCM 2010 LOS	E

Notes

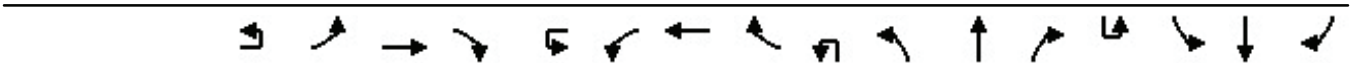


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	54	1243	140	47	78	1284	98	88	50	38	52	129	124
Future Volume (veh/h)	6	54	1243	140	47	78	1284	98	88	50	38	52	129	124
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		57	1308	103		83	1366	73	99	56	31	57	142	96
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		224	1664	131		104	1436	77	114	65	36	60	151	102
Arrive On Green		0.13	0.50	0.50		0.02	0.14	0.14	0.12	0.12	0.12	0.18	0.18	0.18
Sat Flow, veh/h		1774	3325	261		1774	3418	182	936	529	293	337	840	568
Grp Volume(v), veh/h		57	695	716		83	706	733	186	0	0	295	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1816		1774	1770	1831	1759	0	0	1745	0	0
Q Serve(g_s), s		4.1	45.2	45.6		6.5	55.4	55.7	14.5	0.0	0.0	23.4	0.0	0.0
Cycle Q Clear(g_c), s		4.1	45.2	45.6		6.5	55.4	55.7	14.5	0.0	0.0	23.4	0.0	0.0
Prop In Lane		1.00		0.14		1.00		0.10	0.53		0.17	0.19		0.33
Lane Grp Cap(c), veh/h		224	886	909		104	743	769	215	0	0	313	0	0
V/C Ratio(X)		0.25	0.78	0.79		0.80	0.95	0.95	0.87	0.00	0.00	0.94	0.00	0.00
Avail Cap(c_a), veh/h		224	886	909		172	743	769	315	0	0	313	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		55.2	28.8	28.8		67.8	58.8	58.9	60.3	0.0	0.0	56.7	0.0	0.0
Incr Delay (d2), s/veh		0.2	6.9	6.9		5.2	22.8	22.9	11.1	0.0	0.0	35.7	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.0	23.7	24.4		3.4	31.9	33.1	7.7	0.0	0.0	14.4	0.0	0.0
LnGrp Delay(d),s/veh		55.4	35.6	35.7		73.0	81.6	81.9	71.5	0.0	0.0	92.4	0.0	0.0
LnGrp LOS		E	D	D		E	F	F	E			F		
Approach Vol, veh/h			1468				1522			186			295	
Approach Delay, s/veh			36.5				81.3			71.5			92.4	
Approach LOS			D				F			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.6	75.4		30.0	23.0	65.0		22.0
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	8.5	47.6		25.4	6.1	57.7		16.5
Green Ext Time (p_c), s	0.0	7.2		0.0	0.0	0.9		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	62.7
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	270	859	223	8	240	955	280	13	271	515	98	31	366	647	177
Future Volume (veh/h)	3	270	859	223	8	240	955	280	13	271	515	98	31	366	647	177
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.96		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		293	934	169		267	1061	224		301	572	77		411	727	139
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		319	1056	191		573	1452	306		349	906	120		466	828	345
Arrive On Green		0.06	0.12	0.12		0.05	0.11	0.11		0.20	0.40	0.40		0.14	0.23	0.23
Sat Flow, veh/h		1774	2973	538		3442	4170	879		3442	4521	599		3442	3539	1473
Grp Volume(v), veh/h		293	556	547		267	862	423		301	426	223		411	727	139
Grp Sat Flow(s),veh/h/ln		1774	1770	1741		1721	1695	1659		1721	1695	1730		1721	1770	1473
Q Serve(g_s), s		23.0	43.3	43.3		10.5	34.4	34.5		11.8	14.1	14.5		16.4	27.7	11.2
Cycle Q Clear(g_c), s		23.0	43.3	43.3		10.5	34.4	34.5		11.8	14.1	14.5		16.4	27.7	11.2
Prop In Lane		1.00		0.31		1.00		0.53		1.00		0.35		1.00		1.00
Lane Grp Cap(c), veh/h		319	628	618		573	1181	578		349	679	346		466	828	345
V/C Ratio(X)		0.92	0.88	0.89		0.47	0.73	0.73		0.86	0.63	0.64		0.88	0.88	0.40
Avail Cap(c_a), veh/h		362	628	618		573	1181	578		556	753	384		629	862	359
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.86	0.86	0.86		0.95	0.95	0.95		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.8	59.0	59.0		60.1	55.6	55.6		54.8	37.8	37.9		59.4	51.7	45.3
Incr Delay (d2), s/veh		24.7	16.6	16.9		0.2	3.5	6.9		4.4	2.0	4.2		9.0	10.5	1.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		13.5	24.2	23.8		5.0	16.7	17.0		5.8	6.7	7.3		8.4	14.7	4.7
LnGrp Delay(d),s/veh		89.5	75.6	75.9		60.3	59.1	62.5		59.3	39.7	42.1		68.5	62.2	46.6
LnGrp LOS		F	E	E		E	E	E		E	D	D		E	E	D
Approach Vol, veh/h			1396				1552				950				1277	
Approach Delay, s/veh			78.7				60.2				46.5				62.5	
Approach LOS			E				E				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.7	55.0	18.6	37.7	29.6	54.2	23.3	32.9
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	4.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	2.5	45.3	13.8	29.7	25.0	36.5	18.4	16.5
Green Ext Time (p_c), s	0.1	2.6	0.4	2.7	0.2	0.0	0.5	5.4

Intersection Summary	
HCM 2010 Ctrl Delay	63.2
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	1.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	123	25	45	264	4	19
Future Vol, veh/h	123	25	45	264	4	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	134	27	49	287	4	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	161	0	533	148
Stage 1	-	-	-	-	148	-
Stage 2	-	-	-	-	385	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1418	-	507	899
Stage 1	-	-	-	-	880	-
Stage 2	-	-	-	-	688	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1418	-	486	899
Mov Cap-2 Maneuver	-	-	-	-	486	-
Stage 1	-	-	-	-	844	-
Stage 2	-	-	-	-	688	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.1	9.7
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	783	-	-	1418	-
HCM Lane V/C Ratio	0.032	-	-	0.034	-
HCM Control Delay (s)	9.7	-	-	7.6	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	91	0	1098	1129	21
Future Vol, veh/h	0	91	0	1098	1129	21
Conflicting Peds, #/hr	0	3	0	0	0	3
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	94	94	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	121	0	1168	1214	23

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	625	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	428	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	426	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	16.8	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	426	-	-
HCM Lane V/C Ratio	-	0.285	-	-
HCM Control Delay (s)	-	16.8	-	-
HCM Lane LOS	-	C	-	-
HCM 95th %tile Q(veh)	-	1.2	-	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑			↱
Traffic Vol, veh/h	0	1381	1498	23	0	9
Future Vol, veh/h	0	1381	1498	23	0	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1501	1628	25	0	10

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	827
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	315
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	315
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	16.8
HCM LOS			C

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	315
HCM Lane V/C Ratio	-	-	-	0.031
HCM Control Delay (s)	-	-	-	16.8
HCM Lane LOS	-	-	-	C
HCM 95th %tile Q(veh)	-	-	-	0.1

ATTACHMENT B
NEAR-TERM BASE (YEAR 2021) PLUS PROJECT CONDITIONS – SYNCHRO WORKSHEETS

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	145	9	106	520	320	175	1033	67	6
Future Volume (veh/h)	6	208	437	145	9	106	520	320	175	1033	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	112		114	559	241	180	1065	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	937	226		270	797	343	242	1110	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.33	0.33	0.09	0.43	0.43	
Sat Flow, veh/h		3442	2810	679		3442	2380	1023	3442	3444	155	
Grp Volume(v), veh/h		219	288	284		114	415	385	180	547	566	
Grp Sat Flow(s),veh/h/ln		1721	1770	1719		1721	1770	1633	1721	1770	1830	
Q Serve(g_s), s		6.7	14.0	14.2		3.4	22.0	22.1	5.5	32.4	32.4	
Cycle Q Clear(g_c), s		6.7	14.0	14.2		3.4	22.0	22.1	5.5	32.4	32.4	
Prop In Lane		1.00		0.39		1.00		0.63	1.00		0.08	
Lane Grp Cap(c), veh/h		283	590	573		270	593	547	242	570	590	
V/C Ratio(X)		0.77	0.49	0.50		0.42	0.70	0.70	0.74	0.96	0.96	
Avail Cap(c_a), veh/h		433	590	573		274	593	547	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.86	0.86	0.86	
Uniform Delay (d), s/veh		48.6	28.7	28.7		47.4	31.2	31.2	48.0	30.2	30.2	
Incr Delay (d2), s/veh		1.9	2.9	3.0		0.4	6.8	7.4	1.5	24.8	24.3	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.3	7.3		1.6	11.8	11.1	2.6	19.7	20.3	
LnGrp Delay(d),s/veh		50.5	31.6	31.8		47.8	38.0	38.6	49.5	54.9	54.5	
LnGrp LOS		D	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			791				914			1293		
Approach Delay, s/veh			36.9				39.5			54.0		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.5	41.0	12.0	41.5	13.3	41.2	13.8	39.7
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	16.2	7.5	15.2	8.7	24.1	9.2	34.4
Green Ext Time (p_c), s	0.0	3.6	0.1	1.7	0.2	2.9	0.0	0.4

Intersection Summary	
HCM 2010 Ctrl Delay	43.4
HCM 2010 LOS	D

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	410	100
Future Volume (veh/h)	106	410	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	466	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1019	174
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	3004	512
Grp Volume(v), veh/h	120	273	273
Grp Sat Flow(s),veh/h/ln	1774	1770	1747
Q Serve(g_s), s	7.2	13.0	13.2
Cycle Q Clear(g_c), s	7.2	13.0	13.2
Prop In Lane	1.00		0.29
Lane Grp Cap(c), veh/h	147	600	593
V/C Ratio(X)	0.82	0.45	0.46
Avail Cap(c_a), veh/h	158	600	593
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.9	27.9
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.4	6.4
LnGrp Delay(d),s/veh	72.5	28.1	28.2
LnGrp LOS	E	C	C
Approach Vol, veh/h		666	
Approach Delay, s/veh		36.1	
Approach LOS		D	
Timer			

Intersection	
Intersection Delay, s/veh	9.6
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	62	86	64	26	7	52	64	55	10	79	2
Future Vol, veh/h	3	62	86	64	26	7	52	64	55	10	79	2
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	74	102	82	33	9	79	97	83	13	105	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.2	9.4	10.2	9.1
HCM LOS	A	A	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	30%	2%	66%	11%
Vol Thru, %	37%	41%	27%	87%
Vol Right, %	32%	57%	7%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	171	151	97	91
LT Vol	52	3	64	10
Through Vol	64	62	26	79
RT Vol	55	86	7	2
Lane Flow Rate	259	180	124	121
Geometry Grp	1	1	1	1
Degree of Util (X)	0.338	0.233	0.178	0.169
Departure Headway (Hd)	4.692	4.673	5.158	5
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	762	762	689	711
Service Time	2.756	2.745	3.237	3.076
HCM Lane V/C Ratio	0.34	0.236	0.18	0.17
HCM Control Delay	10.2	9.2	9.4	9.1
HCM Lane LOS	B	A	A	A
HCM 95th-tile Q	1.5	0.9	0.6	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	61	30	116	95	28	75	7	104	1061	120	4	98	544	45
Future Volume (veh/h)	61	30	116	95	28	75	7	104	1061	120	4	98	544	45
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	73	36	116	122	36	67		113	1153	92		108	598	37
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	249	79	254	204	119	222		137	2957	236		130	2171	963
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21		0.08	0.62	0.62		0.15	1.00	1.00
Sat Flow, veh/h	1274	379	1222	1216	573	1067		1774	4790	382		1774	3539	1569
Grp Volume(v), veh/h	73	0	152	122	0	103		113	816	429		108	598	37
Grp Sat Flow(s),veh/h/ln	1274	0	1601	1216	0	1640		1774	1695	1782		1774	1770	1569
Q Serve(g_s), s	7.2	0.0	11.6	13.7	0.0	7.4		8.8	17.0	17.0		8.3	0.0	0.0
Cycle Q Clear(g_c), s	14.6	0.0	11.6	25.3	0.0	7.4		8.8	17.0	17.0		8.3	0.0	0.0
Prop In Lane	1.00		0.76	1.00		0.65		1.00		0.21		1.00		1.00
Lane Grp Cap(c), veh/h	249	0	333	204	0	341		137	2093	1100		130	2171	963
V/C Ratio(X)	0.29	0.00	0.46	0.60	0.00	0.30		0.83	0.39	0.39		0.83	0.28	0.04
Avail Cap(c_a), veh/h	385	0	504	334	0	517		400	2093	1100		400	2171	963
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.99	0.99	0.99
Uniform Delay (d), s/veh	53.0	0.0	48.5	59.6	0.0	46.8		63.7	13.5	13.5		58.9	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.7	2.1	0.0	0.4		4.8	0.5	1.0		5.1	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.0	5.2	4.7	0.0	3.4		4.5	8.1	8.7		4.2	0.1	0.0
LnGrp Delay(d),s/veh	53.5	0.0	49.2	61.7	0.0	47.2		68.5	14.1	14.5		64.0	0.3	0.1
LnGrp LOS	D		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		225			225				1358				743	
Approach Delay, s/veh		50.6			55.0				18.7				9.6	
Approach LOS		D			E				B				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	91.3		34.0	15.2	90.8		34.0
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	10.3	19.0		16.6	10.8	2.0		27.3
Green Ext Time (p_c), s	0.1	12.1		0.9	0.1	5.7		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	22.1
HCM 2010 LOS	C

Notes

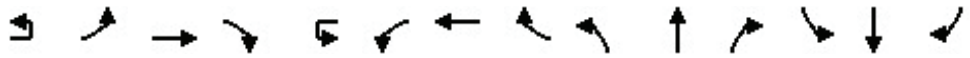


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	205	877	76	370	819	122	15	156	415	376	2	183	281	299
Future Volume (veh/h)	5	205	877	76	370	819	122	15	156	415	376	2	183	281	299
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		214	914	56	394	871	99		188	500	453		201	309	232
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		419	1087	67	453	1010	115		214	957	637		227	534	389
Arrive On Green		0.12	0.32	0.32	0.13	0.32	0.32		0.12	0.27	0.27		0.13	0.28	0.28
Sat Flow, veh/h		3442	3376	207	3442	3189	362		1774	3539	1583		1774	1924	1402
Grp Volume(v), veh/h		214	479	491	394	483	487		188	500	453		201	283	258
Grp Sat Flow(s),veh/h/ln		1721	1770	1813	1721	1770	1782		1774	1770	1583		1774	1770	1556
Q Serve(g_s), s		7.8	33.7	33.7	15.0	34.3	34.3		13.9	16.0	32.0		14.9	18.4	19.2
Cycle Q Clear(g_c), s		7.8	33.7	33.7	15.0	34.3	34.3		13.9	16.0	32.0		14.9	18.4	19.2
Prop In Lane		1.00		0.11	1.00		0.20		1.00		1.00		1.00		0.90
Lane Grp Cap(c), veh/h		419	570	584	453	561	564		214	957	637		227	491	432
V/C Ratio(X)		0.51	0.84	0.84	0.87	0.86	0.86		0.88	0.52	0.71		0.89	0.58	0.60
Avail Cap(c_a), veh/h		772	794	814	772	794	800		398	1059	682		398	530	466
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		55.0	42.1	42.1	56.9	42.9	42.9		57.8	41.4	33.5		57.3	41.5	41.8
Incr Delay (d2), s/veh		0.4	6.4	6.2	2.5	7.0	6.9		4.5	0.3	2.9		5.0	1.1	1.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	17.5	17.9	7.3	17.9	18.0		7.1	7.9	14.5		7.6	9.1	8.4
LnGrp Delay(d),s/veh		55.3	48.5	48.4	59.4	49.9	49.8		62.3	41.7	36.4		62.3	42.7	43.4
LnGrp LOS		E	D	D	E	D	D		E	D	D		E	D	D
Approach Vol, veh/h			1184			1364				1141				742	
Approach Delay, s/veh			49.7			52.6				43.0				48.2	
Approach LOS			D			D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.0	48.7	20.5	42.4	22.0	48.7	21.5	41.4
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	17.0	35.7	15.9	21.2	9.8	36.3	16.9	34.0
Green Ext Time (p_c), s	0.6	7.4	0.2	2.7	0.3	6.0	0.2	2.1

Intersection Summary	
HCM 2010 Ctrl Delay	48.6
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	39	1138	187	3	50	1006	97	264	104	83	66	116	88
Future Volume (veh/h)	13	39	1138	187	3	50	1006	97	264	104	83	66	116	88
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		44	1293	182		62	1242	85	388	153	85	84	147	86
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		57	1133	158		79	1267	87	274	108	60	90	157	92
Arrive On Green		0.03	0.36	0.36		0.01	0.12	0.12	0.25	0.25	0.25	0.19	0.19	0.19
Sat Flow, veh/h		1774	3106	434		1774	3356	229	1094	431	240	463	810	474
Grp Volume(v), veh/h		44	732	743		62	654	673	626	0	0	317	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1771		1774	1770	1816	1765	0	0	1747	0	0
Q Serve(g_s), s		3.4	51.1	51.1		4.9	51.6	51.8	35.1	0.0	0.0	25.0	0.0	0.0
Cycle Q Clear(g_c), s		3.4	51.1	51.1		4.9	51.6	51.8	35.1	0.0	0.0	25.0	0.0	0.0
Prop In Lane		1.00		0.25		1.00		0.13	0.62		0.14	0.26		0.27
Lane Grp Cap(c), veh/h		57	645	646		79	668	685	443	0	0	339	0	0
V/C Ratio(X)		0.78	1.13	1.15		0.78	0.98	0.98	1.41	0.00	0.00	0.93	0.00	0.00
Avail Cap(c_a), veh/h		122	645	646		122	668	685	443	0	0	351	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.68	0.68	0.68	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.3	44.5	44.5		68.3	60.7	60.8	52.5	0.0	0.0	55.5	0.0	0.0
Incr Delay (d2), s/veh		8.2	78.8	84.6		5.1	23.9	24.3	199.4	0.0	0.0	30.7	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.8	39.0	40.1		2.5	29.8	30.7	41.6	0.0	0.0	15.0	0.0	0.0
LnGrp Delay(d),s/veh		75.5	123.3	129.1		73.4	84.7	85.1	251.9	0.0	0.0	86.2	0.0	0.0
LnGrp LOS		E	F	F		E	F	F	F			F		
Approach Vol, veh/h			1519				1389			626			317	
Approach Delay, s/veh			124.7				84.4			251.9			86.2	
Approach LOS			F				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.7	57.3		32.1	8.9	59.1		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	6.9	53.1		27.0	5.4	53.8		37.1
Green Ext Time (p_c), s	0.0	0.0		0.2	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	127.7
HCM 2010 LOS	F

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	177	901	265	5	212	712	278	2	287	807	164	5	219	444	169
Future Volume (veh/h)	3	177	901	265	5	212	712	278	2	287	807	164	5	219	444	169
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		199	1012	210		244	818	231		305	859	153		252	510	137
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		408	1350	279		293	1222	342		351	993	176		298	756	329
Arrive On Green		0.31	0.62	0.62		0.09	0.31	0.31		0.20	0.46	0.46		0.17	0.43	0.43
Sat Flow, veh/h		1774	2912	603		3442	3923	1098		3442	4335	768		3442	3539	1541
Grp Volume(v), veh/h		199	614	608		244	706	343		305	671	341		252	510	137
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1631		1721	1695	1713		1721	1770	1541
Q Serve(g_s), s		12.8	34.6	34.9		9.8	25.4	25.7		12.0	24.8	25.1		9.9	16.2	5.3
Cycle Q Clear(g_c), s		12.8	34.6	34.9		9.8	25.4	25.7		12.0	24.8	25.1		9.9	16.2	5.3
Prop In Lane		1.00		0.35		1.00		0.67		1.00		0.45		1.00		1.00
Lane Grp Cap(c), veh/h		408	820	809		293	1056	508		351	776	392		298	756	329
V/C Ratio(X)		0.49	0.75	0.75		0.83	0.67	0.68		0.87	0.86	0.87		0.85	0.67	0.42
Avail Cap(c_a), veh/h		408	820	809		383	1056	508		457	826	417		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		1.00	1.00	1.00		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.82	0.82	0.82		1.00	1.00	1.00
Uniform Delay (d), s/veh		41.8	21.0	21.1		63.0	41.9	42.0		54.8	36.0	36.1		57.0	36.2	12.9
Incr Delay (d2), s/veh		0.0	0.6	0.6		8.2	3.1	6.4		9.4	8.2	15.5		10.7	2.7	1.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.3	16.8	16.8		5.0	12.3	12.4		6.1	12.4	13.4		5.1	8.2	3.2
LnGrp Delay(d),s/veh		41.9	21.6	21.7		71.3	45.0	48.4		64.2	44.2	51.6		67.7	38.9	14.3
LnGrp LOS		D	C	C		E	D	D		E	D	D		E	D	B
Approach Vol, veh/h			1421				1293				1317				899	
Approach Delay, s/veh			24.5				50.9				50.7				43.2	
Approach LOS			C				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.3	70.2	18.7	34.8	37.5	49.0	16.5	37.0
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	11.8	36.9	14.0	18.2	14.8	27.7	11.9	27.1
Green Ext Time (p_c), s	0.2	8.4	0.3	4.7	0.2	5.7	0.2	4.7

Intersection Summary	
HCM 2010 Ctrl Delay	41.8
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Future Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	2036	149	480	1654	204	126	134	672	289	172	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	1827	133	350	2917	889	255	267	1064	293	299	7
Arrive On Green	0.00	0.76	0.76	0.20	0.57	0.57	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4826	351	1774	5085	1549	1774	1863	3066	1774	1812	42
Grp Volume(v), veh/h	2	1426	759	480	1654	204	126	134	672	289	0	176
Grp Sat Flow(s),veh/h/ln	1774	1695	1786	1774	1695	1549	1774	1863	1533	1774	0	1854
Q Serve(g_s), s	0.2	53.0	53.0	27.6	28.8	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Cycle Q Clear(g_c), s	0.2	53.0	53.0	27.6	28.8	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Prop In Lane	1.00		0.20	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	4	1283	676	350	2917	889	255	267	1064	293	0	306
V/C Ratio(X)	0.53	1.11	1.12	1.37	0.57	0.23	0.49	0.50	0.63	0.99	0.00	0.58
Avail Cap(c_a), veh/h	274	1283	676	350	2917	889	255	267	1064	293	0	306
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.39	0.39	0.39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.6	17.0	17.0	56.2	18.9	14.7	55.3	55.3	39.0	58.3	0.0	53.9
Incr Delay (d2), s/veh	15.5	54.9	63.4	184.8	0.8	0.6	1.1	1.1	1.1	48.9	0.0	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	33.3	36.7	31.5	13.5	4.0	4.6	4.9	11.1	15.1	0.0	6.5
LnGrp Delay(d),s/veh	85.1	71.9	80.4	241.0	19.7	15.3	56.4	56.4	40.0	107.2	0.0	55.7
LnGrp LOS	F	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2187			2338			932			465	
Approach Delay, s/veh		74.9			64.7			44.6			87.7	
Approach LOS		E			E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	32.0	58.5		25.0	4.7	85.8		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	2.2	30.8		24.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	67.1
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	3.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	122	7	26	81	23	82
Future Vol, veh/h	122	7	26	81	23	82
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	133	8	28	88	25	89

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	141	0	281	137
Stage 1	-	-	-	-	137	-
Stage 2	-	-	-	-	144	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1442	-	709	911
Stage 1	-	-	-	-	890	-
Stage 2	-	-	-	-	883	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1442	-	695	911
Mov Cap-2 Maneuver	-	-	-	-	695	-
Stage 1	-	-	-	-	872	-
Stage 2	-	-	-	-	883	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.8	9.9
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	853	-	-	1442	-
HCM Lane V/C Ratio	0.134	-	-	0.02	-
HCM Control Delay (s)	9.9	-	-	7.5	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.5	-	-	0.1	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	262	15	186	737	105	261	412	106	2
Future Volume (veh/h)	11	142	662	262	15	186	737	105	261	412	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	208		200	792	79	278	438	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1150	325		255	1420	142	335	722	129	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2703	764		3442	3245	324	3442	2973	531	
Grp Volume(v), veh/h		158	482	462		200	432	439	278	259	258	
Grp Sat Flow(s),veh/h/ln		1721	1770	1697		1721	1770	1798	1721	1770	1735	
Q Serve(g_s), s		5.7	27.1	27.1		7.2	22.9	22.9	10.0	16.4	16.7	
Cycle Q Clear(g_c), s		5.7	27.1	27.1		7.2	22.9	22.9	10.0	16.4	16.7	
Prop In Lane		1.00		0.45		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		213	753	722		255	775	787	335	430	422	
V/C Ratio(X)		0.74	0.64	0.64		0.78	0.56	0.56	0.83	0.60	0.61	
Avail Cap(c_a), veh/h		399	753	722		399	775	787	481	479	470	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.6	28.6		57.3	26.4	26.4	55.9	42.3	42.4	
Incr Delay (d2), s/veh		1.9	4.1	4.3		2.1	2.9	2.8	5.3	1.0	1.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	14.1	13.6		3.5	11.8	12.0	5.0	8.1	8.1	
LnGrp Delay(d),s/veh		60.0	32.7	32.9		59.4	29.2	29.2	61.2	43.3	43.5	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1102				1071			795		
Approach Delay, s/veh			36.7				34.9			49.6		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.6	16.7	37.0	12.2	60.1	18.1	35.5
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	29.1	12.0	34.1	7.7	24.9	13.7	18.7
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.7

Intersection Summary	
HCM 2010 Ctrl Delay	63.4
HCM 2010 LOS	E

Notes



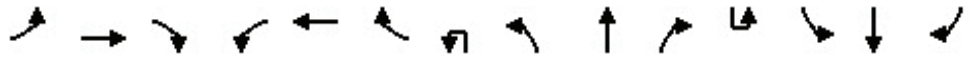
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	907	101
Future Volume (veh/h)	160	907	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	955	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	845	65
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3317	257
Grp Volume(v), veh/h	168	509	520
Grp Sat Flow(s),veh/h/ln	1774	1770	1804
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	460
V/C Ratio(X)	0.87	1.13	1.13
Avail Cap(c_a), veh/h	220	451	460
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	83.0	82.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	26.0	26.5
LnGrp Delay(d),s/veh	79.8	130.0	129.6
LnGrp LOS	E	F	F
Approach Vol, veh/h		1197	
Approach Delay, s/veh		122.8	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	11.1
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	57	41	193	68	12	83	46	77	6	90	2
Future Vol, veh/h	0	57	41	193	68	12	83	46	77	6	90	2
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	86	62	222	78	14	91	51	85	7	111	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.5	12.6	10.8	9.8
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	40%	0%	71%	6%
Vol Thru, %	22%	58%	25%	92%
Vol Right, %	37%	42%	4%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	206	98	273	98
LT Vol	83	0	193	6
Through Vol	46	57	68	90
RT Vol	77	41	12	2
Lane Flow Rate	226	148	314	121
Geometry Grp	1	1	1	1
Degree of Util (X)	0.328	0.211	0.456	0.186
Departure Headway (Hd)	5.223	5.122	5.226	5.537
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	688	701	690	647
Service Time	3.256	3.154	3.251	3.574
HCM Lane V/C Ratio	0.328	0.211	0.455	0.187
HCM Control Delay	10.8	9.5	12.6	9.8
HCM Lane LOS	B	A	B	A
HCM 95th-tile Q	1.4	0.8	2.4	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	67	45	151	109	43	129	17	158	797	130	8	176	963	157
Future Volume (veh/h)	67	45	151	109	43	129	17	158	797	130	8	176	963	157
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	71	48	121	118	47	98		174	876	101		185	1014	125
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	223	99	250	200	115	239		506	2612	300		207	1393	604
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22		0.28	0.57	0.57		0.23	0.79	0.79
Sat Flow, veh/h	1226	457	1153	1197	529	1103		1774	4621	530		1774	3539	1534
Grp Volume(v), veh/h	71	0	169	118	0	145		174	642	335		185	1014	125
Grp Sat Flow(s),veh/h/ln	1226	0	1610	1197	0	1633		1774	1695	1761		1774	1770	1534
Q Serve(g_s), s	7.4	0.0	12.9	13.4	0.0	10.7		10.9	14.2	14.3		14.1	20.0	2.9
Cycle Q Clear(g_c), s	18.1	0.0	12.9	26.3	0.0	10.7		10.9	14.2	14.3		14.1	20.0	2.9
Prop In Lane	1.00		0.72	1.00		0.68		1.00		0.30		1.00		1.00
Lane Grp Cap(c), veh/h	223	0	348	200	0	353		506	1917	996		207	1393	604
V/C Ratio(X)	0.32	0.00	0.48	0.59	0.00	0.41		0.34	0.33	0.34		0.89	0.73	0.21
Avail Cap(c_a), veh/h	397	0	576	370	0	584		506	1917	996		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.91	0.91	0.91
Uniform Delay (d), s/veh	54.9	0.0	48.0	59.5	0.0	47.2		39.7	16.3	16.3		52.8	11.2	9.3
Incr Delay (d2), s/veh	0.6	0.0	0.8	2.0	0.0	0.6		0.1	0.5	0.9		4.8	3.1	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	5.8	4.5	0.0	4.9		5.3	6.7	7.1		7.2	9.9	1.3
LnGrp Delay(d),s/veh	55.5	0.0	48.8	61.6	0.0	47.7		39.8	16.8	17.3		57.6	14.2	10.0
LnGrp LOS	E		D	E		D		D	B	B		E	B	B
Approach Vol, veh/h		240			263				1151				1324	
Approach Delay, s/veh		50.8			53.9				20.4				19.9	
Approach LOS		D			D				C				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	84.0		35.2	44.8	60.0		35.2
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	16.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	16.1	16.3		20.1	12.9	22.0		28.3
Green Ext Time (p_c), s	0.2	7.9		1.1	0.1	11.0		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	25.6
HCM 2010 LOS	C

Notes

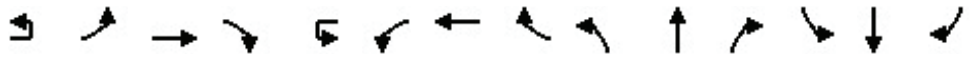


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	356	1012	68	476	886	120	21	85	310	372	271	656	288
Future Volume (veh/h)	15	356	1012	68	476	886	120	21	85	310	372	271	656	288
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		371	1054	52	506	943	94		90	330	284	315	763	237
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		570	1166	58	552	1045	104		110	671	538	331	831	258
Arrive On Green		0.17	0.34	0.34	0.16	0.32	0.32		0.06	0.19	0.19	0.19	0.31	0.31
Sat Flow, veh/h		3442	3426	169	3442	3238	323		1774	3539	1499	1774	2645	822
Grp Volume(v), veh/h		371	544	562	506	515	522		90	330	284	315	510	490
Grp Sat Flow(s),veh/h/ln		1721	1770	1826	1721	1770	1791		1774	1770	1499	1774	1770	1697
Q Serve(g_s), s		16.2	47.1	47.1	23.3	44.8	44.8		8.1	13.4	24.4	28.2	44.7	44.7
Cycle Q Clear(g_c), s		16.2	47.1	47.1	23.3	44.8	44.8		8.1	13.4	24.4	28.2	44.7	44.7
Prop In Lane		1.00		0.09	1.00		0.18		1.00		1.00	1.00		0.48
Lane Grp Cap(c), veh/h		570	602	621	552	571	578		110	671	538	331	556	533
V/C Ratio(X)		0.65	0.90	0.90	0.92	0.90	0.90		0.82	0.49	0.53	0.95	0.92	0.92
Avail Cap(c_a), veh/h		642	660	681	642	660	668		331	880	627	331	556	533
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		62.7	50.5	50.5	66.5	52.1	52.1		74.5	58.2	41.9	64.7	53.1	53.1
Incr Delay (d2), s/veh		1.3	15.3	15.0	15.6	14.4	14.3		5.5	0.4	0.5	36.5	20.2	20.9
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.8	25.5	26.3	12.3	24.2	24.5		4.1	6.6	10.2	17.2	25.0	24.0
LnGrp Delay(d),s/veh		64.1	65.9	65.5	82.0	66.5	66.4		80.1	58.6	42.5	101.2	73.4	74.0
LnGrp LOS		E	E	E	F	E	E		F	E	D	F	E	E
Approach Vol, veh/h			1477			1543				704			1315	
Approach Delay, s/veh			65.3			71.5				54.8			80.3	
Approach LOS			E			E				D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.2	60.4	14.4	55.8	32.3	58.3	34.4	35.8
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	25.3	49.1	10.1	46.7	18.2	46.8	30.2	26.4
Green Ext Time (p_c), s	0.5	5.6	0.1	0.0	0.5	5.1	0.0	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	69.7
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	54	1274	169	47	76	1313	100	123	56	38	54	135	131
Future Volume (veh/h)	6	54	1274	169	47	76	1313	100	123	56	38	54	135	131
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		57	1341	134		81	1397	75	138	63	31	59	148	104
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		180	1551	154		102	1435	77	154	70	35	59	149	104
Arrive On Green		0.10	0.48	0.48		0.02	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3251	323		1774	3417	183	1049	479	236	331	829	583
Grp Volume(v), veh/h		57	727	748		81	722	750	232	0	0	311	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1805		1774	1770	1830	1764	0	0	1742	0	0
Q Serve(g_s), s		4.2	51.1	51.8		6.4	56.8	57.1	18.1	0.0	0.0	25.0	0.0	0.0
Cycle Q Clear(g_c), s		4.2	51.1	51.8		6.4	56.8	57.1	18.1	0.0	0.0	25.0	0.0	0.0
Prop In Lane		1.00		0.18		1.00		0.10	0.59		0.13	0.19		0.33
Lane Grp Cap(c), veh/h		180	844	861		102	743	769	259	0	0	312	0	0
V/C Ratio(X)		0.32	0.86	0.87		0.80	0.97	0.98	0.90	0.00	0.00	1.00	0.00	0.00
Avail Cap(c_a), veh/h		180	844	861		172	743	769	316	0	0	312	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.45	0.45	0.45	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		58.4	32.5	32.7		67.9	59.5	59.6	58.7	0.0	0.0	57.4	0.0	0.0
Incr Delay (d2), s/veh		0.4	11.2	11.5		2.4	16.4	16.8	20.9	0.0	0.0	49.6	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.1	27.5	28.5		3.2	31.3	32.6	10.3	0.0	0.0	16.3	0.0	0.0
LnGrp Delay(d),s/veh		58.7	43.7	44.2		70.3	75.8	76.4	79.6	0.0	0.0	107.0	0.0	0.0
LnGrp LOS		E	D	D		E	E	E	E			F		
Approach Vol, veh/h			1532				1553			232			311	
Approach Delay, s/veh			44.5				75.8			79.6			107.0	
Approach LOS			D				E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.4	72.1		30.0	19.5	65.0		25.5
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	8.4	53.8		27.0	6.2	59.1		20.1
Green Ext Time (p_c), s	0.0	2.5		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	65.5
HCM 2010 LOS	E

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	272	887	225	8	278	969	307	13	267	530	146	31	379	655	182
Future Volume (veh/h)	3	272	887	225	8	278	969	307	13	267	530	146	31	379	655	182
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.96		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		296	964	172		309	1077	254		297	589	130		426	736	144
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		322	1058	189		575	1413	333		346	813	175		480	831	346
Arrive On Green		0.06	0.12	0.12		0.06	0.11	0.11		0.20	0.39	0.39		0.14	0.23	0.23
Sat Flow, veh/h		1774	2981	531		3442	4071	959		3442	4156	897		3442	3539	1474
Grp Volume(v), veh/h		296	572	564		309	897	434		297	478	241		426	736	144
Grp Sat Flow(s),veh/h/ln		1774	1770	1743		1721	1695	1641		1721	1695	1662		1721	1770	1474
Q Serve(g_s), s		23.2	44.7	44.8		12.2	35.9	36.0		11.7	16.7	17.4		17.0	28.1	11.6
Cycle Q Clear(g_c), s		23.2	44.7	44.8		12.2	35.9	36.0		11.7	16.7	17.4		17.0	28.1	11.6
Prop In Lane		1.00		0.30		1.00		0.58		1.00		0.54		1.00		1.00
Lane Grp Cap(c), veh/h		322	628	619		575	1177	569		346	663	325		480	831	346
V/C Ratio(X)		0.92	0.91	0.91		0.54	0.76	0.76		0.86	0.72	0.74		0.89	0.89	0.42
Avail Cap(c_a), veh/h		362	628	619		575	1177	569		556	753	369		629	862	359
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.84	0.84	0.84		0.93	0.93	0.93		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.8	59.6	59.6		60.9	56.4	56.4		55.0	39.4	39.6		59.2	51.8	45.4
Incr Delay (d2), s/veh		3.5	2.5	2.5		0.5	4.0	8.0		4.0	3.5	7.9		10.0	11.3	1.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		11.7	22.4	22.1		5.9	17.6	17.6		5.7	8.1	8.6		8.8	15.1	4.9
LnGrp Delay(d),s/veh		68.3	62.1	62.2		61.3	60.3	64.3		59.0	42.9	47.5		69.1	63.0	46.8
LnGrp LOS		E	E	E		E	E	E		E	D	D		E	E	D
Approach Vol, veh/h			1432				1640				1016				1306	
Approach Delay, s/veh			63.4				61.6				48.7				63.2	
Approach LOS			E				E				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.8	55.0	18.5	37.8	29.8	54.0	23.9	32.3
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	4.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	4.2	46.8	13.7	30.1	25.2	38.0	19.4	19.4
Green Ext Time (p_c), s	0.0	1.9	0.4	2.5	0.2	0.0	0.5	5.2

Intersection Summary	
HCM 2010 Ctrl Delay	60.0
HCM 2010 LOS	E

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Future Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1576	166	491	2110	212	115	137	333	214	176	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1866	196	400	3196	993	191	201	1043	191	183	15
Arrive On Green	0.03	0.84	0.84	0.23	0.63	0.63	0.11	0.11	0.11	0.11	0.11	0.11
Sat Flow, veh/h	1774	4457	469	1774	5085	1581	1774	1863	3045	1774	1696	135
Grp Volume(v), veh/h	21	1119	623	491	2110	212	115	137	333	214	0	190
Grp Sat Flow(s),veh/h/ln	1774	1583	1759	1774	1695	1581	1774	1863	1522	1774	0	1831
Q Serve(g_s), s	1.6	27.4	27.6	31.6	36.9	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Cycle Q Clear(g_c), s	1.6	27.4	27.6	31.6	36.9	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Prop In Lane	1.00		0.27	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	28	1326	736	400	3196	993	191	201	1043	191	0	198
V/C Ratio(X)	0.74	0.84	0.85	1.23	0.66	0.21	0.60	0.68	0.32	1.12	0.00	0.96
Avail Cap(c_a), veh/h	134	1326	736	400	3196	993	318	334	1261	191	0	198
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.72	0.72	0.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	8.8	8.9	54.2	16.5	11.2	59.6	60.2	34.9	62.5	0.0	62.2
Incr Delay (d2), s/veh	9.8	4.9	8.6	122.1	1.1	0.5	2.3	3.0	0.1	100.4	0.0	52.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	12.1	14.2	29.0	17.5	3.7	4.4	5.3	4.8	12.7	0.0	10.2
LnGrp Delay(d),s/veh	77.3	13.8	17.5	176.3	17.6	11.7	61.8	63.2	35.0	162.9	0.0	114.8
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1763			2813			585			404	
Approach Delay, s/veh		15.8			44.9			46.9			140.3	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	64.0		20.0	6.6	93.4		20.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	33.6	29.6		17.1	3.6	38.9		13.5
Green Ext Time (p_c), s	0.0	15.9		0.0	0.0	25.2		1.6

Intersection Summary	
HCM 2010 Ctrl Delay	42.8
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	2.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	123	25	90	264	12	42
Future Vol, veh/h	123	25	90	264	12	42
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	134	27	98	287	13	46

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	161	0	631	148
Stage 1	-	-	-	-	148	-
Stage 2	-	-	-	-	483	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1418	-	445	899
Stage 1	-	-	-	-	880	-
Stage 2	-	-	-	-	620	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1418	-	409	899
Mov Cap-2 Maneuver	-	-	-	-	409	-
Stage 1	-	-	-	-	808	-
Stage 2	-	-	-	-	620	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2	10.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	710	-	-	1418	-
HCM Lane V/C Ratio	0.083	-	-	0.069	-
HCM Control Delay (s)	10.5	-	-	7.7	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.3	-	-	0.2	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	145	9	106	520	320	175	1033	67	6
Future Volume (veh/h)	6	208	437	145	9	106	520	320	175	1033	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	112		114	559	241	180	1065	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	937	226		270	797	343	242	1110	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.33	0.33	0.09	0.43	0.43	
Sat Flow, veh/h		3442	2810	679		3442	2380	1023	3442	3444	155	
Grp Volume(v), veh/h		219	288	284		114	415	385	180	547	566	
Grp Sat Flow(s),veh/h/ln		1721	1770	1719		1721	1770	1633	1721	1770	1830	
Q Serve(g_s), s		6.7	14.0	14.2		3.4	22.0	22.1	5.5	32.4	32.4	
Cycle Q Clear(g_c), s		6.7	14.0	14.2		3.4	22.0	22.1	5.5	32.4	32.4	
Prop In Lane		1.00		0.39		1.00		0.63	1.00		0.08	
Lane Grp Cap(c), veh/h		283	590	573		270	593	547	242	570	590	
V/C Ratio(X)		0.77	0.49	0.50		0.42	0.70	0.70	0.74	0.96	0.96	
Avail Cap(c_a), veh/h		433	590	573		274	593	547	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.86	0.86	0.86	
Uniform Delay (d), s/veh		48.6	28.7	28.7		47.4	31.2	31.2	48.0	30.2	30.2	
Incr Delay (d2), s/veh		1.9	2.9	3.0		0.4	6.8	7.4	1.5	24.8	24.3	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.3	7.3		1.6	11.8	11.1	2.6	19.7	20.3	
LnGrp Delay(d),s/veh		50.5	31.6	31.8		47.8	38.0	38.6	49.5	54.9	54.5	
LnGrp LOS		D	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			791				914			1293		
Approach Delay, s/veh			36.9				39.5			54.0		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.5	41.0	12.0	41.5	13.3	41.2	13.8	39.7
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	16.2	7.5	15.2	8.7	24.1	9.2	34.4
Green Ext Time (p_c), s	0.0	3.6	0.1	1.7	0.2	2.9	0.0	0.4

Intersection Summary	
HCM 2010 Ctrl Delay	43.4
HCM 2010 LOS	D

Notes



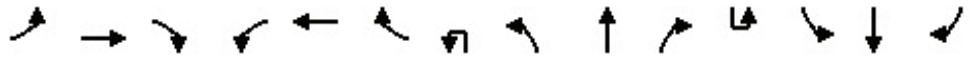
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	410	100
Future Volume (veh/h)	106	410	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	466	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1019	174
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	3004	512
Grp Volume(v), veh/h	120	273	273
Grp Sat Flow(s),veh/h/ln	1774	1770	1747
Q Serve(g_s), s	7.2	13.0	13.2
Cycle Q Clear(g_c), s	7.2	13.0	13.2
Prop In Lane	1.00		0.29
Lane Grp Cap(c), veh/h	147	600	593
V/C Ratio(X)	0.82	0.45	0.46
Avail Cap(c_a), veh/h	158	600	593
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.9	27.9
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.4	6.4
LnGrp Delay(d),s/veh	72.5	28.1	28.2
LnGrp LOS	E	C	C
Approach Vol, veh/h		666	
Approach Delay, s/veh		36.1	
Approach LOS		D	
Timer			

Intersection	
Intersection Delay, s/veh	9.5
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	62	86	57	26	7	52	64	55	10	79	2
Future Vol, veh/h	3	62	86	57	26	7	52	64	55	10	79	2
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	74	102	73	33	9	79	97	83	13	105	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.1	9.2	10.1	9.1
HCM LOS	A	A	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	30%	2%	63%	11%
Vol Thru, %	37%	41%	29%	87%
Vol Right, %	32%	57%	8%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	171	151	90	91
LT Vol	52	3	57	10
Through Vol	64	62	26	79
RT Vol	55	86	7	2
Lane Flow Rate	259	180	115	121
Geometry Grp	1	1	1	1
Degree of Util (X)	0.336	0.232	0.165	0.168
Departure Headway (Hd)	4.668	4.656	5.146	4.975
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	764	764	691	716
Service Time	2.728	2.725	3.221	3.045
HCM Lane V/C Ratio	0.339	0.236	0.166	0.169
HCM Control Delay	10.1	9.1	9.2	9.1
HCM Lane LOS	B	A	A	A
HCM 95th-tile Q	1.5	0.9	0.6	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	56	30	77	96	28	75	7	104	1066	121	4	98	548	41
Future Volume (veh/h)	56	30	77	96	28	75	7	104	1066	121	4	98	548	41
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	67	36	69	123	36	67		113	1159	94		108	602	33
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	214	102	196	212	105	195		137	3073	249		130	2260	1002
Arrive On Green	0.18	0.18	0.18	0.18	0.18	0.18		0.08	0.64	0.64		0.15	1.00	1.00
Sat Flow, veh/h	1272	559	1071	1265	572	1065		1774	4784	388		1774	3539	1570
Grp Volume(v), veh/h	67	0	105	123	0	103		113	821	432		108	602	33
Grp Sat Flow(s),veh/h/ln	1272	0	1630	1265	0	1638		1774	1695	1781		1774	1770	1570
Q Serve(g_s), s	6.8	0.0	7.9	13.2	0.0	7.7		8.8	16.0	16.0		8.3	0.0	0.0
Cycle Q Clear(g_c), s	14.5	0.0	7.9	21.0	0.0	7.7		8.8	16.0	16.0		8.3	0.0	0.0
Prop In Lane	1.00		0.66	1.00		0.65		1.00		0.22		1.00		1.00
Lane Grp Cap(c), veh/h	214	0	298	212	0	300		137	2178	1144		130	2260	1002
V/C Ratio(X)	0.31	0.00	0.35	0.58	0.00	0.34		0.83	0.38	0.38		0.83	0.27	0.03
Avail Cap(c_a), veh/h	382	0	513	379	0	516		400	2178	1144		400	2260	1002
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.99	0.99	0.99
Uniform Delay (d), s/veh	56.2	0.0	49.9	59.1	0.0	49.9		63.7	11.8	11.8		58.9	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.5	1.9	0.0	0.5		4.8	0.5	1.0		5.1	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	3.6	4.7	0.0	3.5		4.5	7.6	8.1		4.2	0.1	0.0
LnGrp Delay(d),s/veh	56.8	0.0	50.5	61.0	0.0	50.4		68.5	12.3	12.8		64.0	0.3	0.1
LnGrp LOS	E		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		172			226				1366				743	
Approach Delay, s/veh		52.9			56.2				17.1				9.5	
Approach LOS		D			E				B				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	94.8		30.5	15.2	94.3		30.5
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	10.3	18.0		16.5	10.8	2.0		23.0
Green Ext Time (p_c), s	0.1	12.3		0.7	0.1	5.7		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	20.8
HCM 2010 LOS	C

Notes

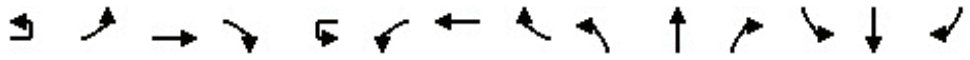


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	205	877	76	370	819	122	15	156	415	376	2	183	281	299
Future Volume (veh/h)	5	205	877	76	370	819	122	15	156	415	376	2	183	281	299
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		214	914	56	394	871	99		188	500	453		201	309	232
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		419	1087	67	453	1010	115		214	957	637		227	534	389
Arrive On Green		0.12	0.32	0.32	0.13	0.32	0.32		0.12	0.27	0.27		0.13	0.28	0.28
Sat Flow, veh/h		3442	3376	207	3442	3189	362		1774	3539	1583		1774	1924	1402
Grp Volume(v), veh/h		214	479	491	394	483	487		188	500	453		201	283	258
Grp Sat Flow(s),veh/h/ln		1721	1770	1813	1721	1770	1782		1774	1770	1583		1774	1770	1556
Q Serve(g_s), s		7.8	33.7	33.7	15.0	34.3	34.3		13.9	16.0	32.0		14.9	18.4	19.2
Cycle Q Clear(g_c), s		7.8	33.7	33.7	15.0	34.3	34.3		13.9	16.0	32.0		14.9	18.4	19.2
Prop In Lane		1.00		0.11	1.00		0.20		1.00		1.00		1.00		0.90
Lane Grp Cap(c), veh/h		419	570	584	453	561	564		214	957	637		227	491	432
V/C Ratio(X)		0.51	0.84	0.84	0.87	0.86	0.86		0.88	0.52	0.71		0.89	0.58	0.60
Avail Cap(c_a), veh/h		772	794	814	772	794	800		398	1059	682		398	530	466
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		55.0	42.1	42.1	56.9	42.9	42.9		57.8	41.4	33.5		57.3	41.5	41.8
Incr Delay (d2), s/veh		0.4	6.4	6.2	2.5	7.0	6.9		4.5	0.3	2.9		5.0	1.1	1.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	17.5	17.9	7.3	17.9	18.0		7.1	7.9	14.5		7.6	9.1	8.4
LnGrp Delay(d),s/veh		55.3	48.5	48.4	59.4	49.9	49.8		62.3	41.7	36.4		62.3	42.7	43.4
LnGrp LOS		E	D	D	E	D	D		E	D	D		E	D	D
Approach Vol, veh/h			1184			1364				1141				742	
Approach Delay, s/veh			49.7			52.6				43.0				48.2	
Approach LOS			D			D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.0	48.7	20.5	42.4	22.0	48.7	21.5	41.4
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	17.0	35.7	15.9	21.2	9.8	36.3	16.9	34.0
Green Ext Time (p_c), s	0.6	7.4	0.2	2.7	0.3	6.0	0.2	2.1

Intersection Summary	
HCM 2010 Ctrl Delay	48.6
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	39	1138	187	3	51	1016	97	264	104	83	66	115	78
Future Volume (veh/h)	13	39	1138	187	3	51	1016	97	264	104	83	66	115	78
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		44	1293	182		63	1254	85	388	153	85	84	146	74
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		57	1153	161		81	1292	87	274	108	60	91	158	80
Arrive On Green		0.03	0.37	0.37		0.02	0.13	0.13	0.25	0.25	0.25	0.19	0.19	0.19
Sat Flow, veh/h		1774	3106	434		1774	3358	227	1094	431	240	485	843	427
Grp Volume(v), veh/h		44	732	743		63	660	679	626	0	0	304	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1771		1774	1770	1816	1765	0	0	1755	0	0
Q Serve(g_s), s		3.4	52.0	52.0		5.0	52.0	52.2	35.1	0.0	0.0	23.9	0.0	0.0
Cycle Q Clear(g_c), s		3.4	52.0	52.0		5.0	52.0	52.2	35.1	0.0	0.0	23.9	0.0	0.0
Prop In Lane		1.00		0.25		1.00		0.13	0.62		0.14	0.28		0.24
Lane Grp Cap(c), veh/h		57	657	657		81	681	699	443	0	0	328	0	0
V/C Ratio(X)		0.78	1.12	1.13		0.78	0.97	0.97	1.41	0.00	0.00	0.93	0.00	0.00
Avail Cap(c_a), veh/h		122	657	657		122	681	699	443	0	0	352	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.67	0.67	0.67	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.3	44.0	44.0		68.3	60.3	60.4	52.5	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		8.2	71.2	76.7		5.7	21.8	22.1	199.4	0.0	0.0	28.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.8	38.3	39.4		2.6	29.7	30.6	41.6	0.0	0.0	14.1	0.0	0.0
LnGrp Delay(d),s/veh		75.5	115.2	120.7		74.0	82.1	82.5	251.9	0.0	0.0	84.0	0.0	0.0
LnGrp LOS		E	F	F		E	F	F	F			F		
Approach Vol, veh/h			1519				1402			626			304	
Approach Delay, s/veh			116.8				81.9			251.9			84.0	
Approach LOS			F				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.8	58.2		31.1	8.9	60.0		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	7.0	54.0		25.9	5.4	54.2		37.1
Green Ext Time (p_c), s	0.0	0.0		0.3	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	123.4
HCM 2010 LOS	F

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	177	901	265	5	212	712	278	2	287	807	164	5	225	444	180
Future Volume (veh/h)	3	177	901	265	5	212	712	278	2	287	807	164	5	225	444	180
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		199	1012	210		244	818	231		305	859	153		259	510	150
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		405	1344	278		293	1222	342		351	993	176		304	763	332
Arrive On Green		0.30	0.61	0.61		0.09	0.31	0.31		0.20	0.46	0.46		0.18	0.43	0.43
Sat Flow, veh/h		1774	2912	603		3442	3923	1098		3442	4335	768		3442	3539	1541
Grp Volume(v), veh/h		199	614	608		244	706	343		305	671	341		259	510	150
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1631		1721	1695	1713		1721	1770	1541
Q Serve(g_s), s		12.9	34.8	35.1		9.8	25.4	25.7		12.0	24.8	25.1		10.2	16.1	5.9
Cycle Q Clear(g_c), s		12.9	34.8	35.1		9.8	25.4	25.7		12.0	24.8	25.1		10.2	16.1	5.9
Prop In Lane		1.00		0.35		1.00		0.67		1.00		0.45		1.00		1.00
Lane Grp Cap(c), veh/h		405	817	805		293	1056	508		351	776	392		304	763	332
V/C Ratio(X)		0.49	0.75	0.75		0.83	0.67	0.68		0.87	0.86	0.87		0.85	0.67	0.45
Avail Cap(c_a), veh/h		405	817	805		383	1056	508		457	826	417		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		1.00	1.00	1.00		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.82	0.82	0.82		1.00	1.00	1.00
Uniform Delay (d), s/veh		42.1	21.3	21.3		63.0	41.9	42.0		54.8	36.0	36.1		56.7	35.8	12.9
Incr Delay (d2), s/veh		0.0	0.6	0.6		8.2	3.1	6.4		9.4	8.2	15.5		11.6	2.6	1.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.3	17.0	16.8		5.0	12.3	12.4		6.1	12.4	13.4		5.3	8.1	3.4
LnGrp Delay(d),s/veh		42.1	21.9	21.9		71.3	45.0	48.4		64.2	44.2	51.6		68.4	38.4	14.5
LnGrp LOS		D	C	C		E	D	D		E	D	D		E	D	B
Approach Vol, veh/h			1421				1293				1317				919	
Approach Delay, s/veh			24.7				50.9				50.7				43.0	
Approach LOS			C				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.3	69.9	18.7	35.1	37.3	49.0	16.8	37.0
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	11.8	37.1	14.0	18.1	14.9	27.7	12.2	27.1
Green Ext Time (p_c), s	0.2	8.3	0.3	4.8	0.2	5.7	0.2	4.7

Intersection Summary	
HCM 2010 Ctrl Delay	41.9
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Future Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	2036	149	480	1654	204	126	134	672	289	172	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	1827	133	350	2917	889	255	267	1064	293	299	7
Arrive On Green	0.00	0.76	0.76	0.20	0.57	0.57	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4826	351	1774	5085	1549	1774	1863	3066	1774	1812	42
Grp Volume(v), veh/h	2	1426	759	480	1654	204	126	134	672	289	0	176
Grp Sat Flow(s),veh/h/ln	1774	1695	1786	1774	1695	1549	1774	1863	1533	1774	0	1854
Q Serve(g_s), s	0.2	53.0	53.0	27.6	28.8	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Cycle Q Clear(g_c), s	0.2	53.0	53.0	27.6	28.8	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Prop In Lane	1.00		0.20	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	4	1283	676	350	2917	889	255	267	1064	293	0	306
V/C Ratio(X)	0.53	1.11	1.12	1.37	0.57	0.23	0.49	0.50	0.63	0.99	0.00	0.58
Avail Cap(c_a), veh/h	274	1283	676	350	2917	889	255	267	1064	293	0	306
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.39	0.39	0.39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.6	17.0	17.0	56.2	18.9	14.7	55.3	55.3	39.0	58.3	0.0	53.9
Incr Delay (d2), s/veh	15.5	54.9	63.4	184.8	0.8	0.6	1.1	1.1	1.1	48.9	0.0	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	33.3	36.7	31.5	13.5	4.0	4.6	4.9	11.1	15.1	0.0	6.5
LnGrp Delay(d),s/veh	85.1	71.9	80.4	241.0	19.7	15.3	56.4	56.4	40.0	107.2	0.0	55.7
LnGrp LOS	F	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2187			2338			932			465	
Approach Delay, s/veh		74.9			64.7			44.6			87.7	
Approach LOS		E			E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	32.0	58.5		25.0	4.7	85.8		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	2.2	30.8		24.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	67.1
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	2.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	122	7	17	81	12	36
Future Vol, veh/h	122	7	17	81	12	36
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	133	8	18	88	13	39

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	141	0	261	137
Stage 1	-	-	-	-	137	-
Stage 2	-	-	-	-	124	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1442	-	728	911
Stage 1	-	-	-	-	890	-
Stage 2	-	-	-	-	902	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1442	-	719	911
Mov Cap-2 Maneuver	-	-	-	-	719	-
Stage 1	-	-	-	-	878	-
Stage 2	-	-	-	-	902	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.3	9.5
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	854	-	-	1442	-
HCM Lane V/C Ratio	0.061	-	-	0.013	-
HCM Control Delay (s)	9.5	-	-	7.5	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.2	-	-	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	56	0	1273	797	9
Future Vol, veh/h	0	56	0	1273	797	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	61	0	1384	866	10

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	438	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	567	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	567	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.1	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	567	-	-
HCM Lane V/C Ratio	-	0.107	-	-
HCM Control Delay (s)	-	12.1	-	-
HCM Lane LOS	-	B	-	-
HCM 95th %tile Q(veh)	-	0.4	-	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	262	15	186	737	105	261	412	106	2
Future Volume (veh/h)	11	142	662	262	15	186	737	105	261	412	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	208		200	792	79	278	438	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1150	325		255	1420	142	335	722	129	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2703	764		3442	3245	324	3442	2973	531	
Grp Volume(v), veh/h		158	482	462		200	432	439	278	259	258	
Grp Sat Flow(s),veh/h/ln		1721	1770	1697		1721	1770	1798	1721	1770	1735	
Q Serve(g_s), s		5.7	27.1	27.1		7.2	22.9	22.9	10.0	16.4	16.7	
Cycle Q Clear(g_c), s		5.7	27.1	27.1		7.2	22.9	22.9	10.0	16.4	16.7	
Prop In Lane		1.00		0.45		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		213	753	722		255	775	787	335	430	422	
V/C Ratio(X)		0.74	0.64	0.64		0.78	0.56	0.56	0.83	0.60	0.61	
Avail Cap(c_a), veh/h		399	753	722		399	775	787	481	479	470	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.6	28.6		57.3	26.4	26.4	55.9	42.3	42.4	
Incr Delay (d2), s/veh		1.9	4.1	4.3		2.1	2.9	2.8	5.3	1.0	1.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	14.1	13.6		3.5	11.8	12.0	5.0	8.1	8.1	
LnGrp Delay(d),s/veh		60.0	32.7	32.9		59.4	29.2	29.2	61.2	43.3	43.5	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1102				1071			795		
Approach Delay, s/veh			36.7				34.9			49.6		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.6	16.7	37.0	12.2	60.1	18.1	35.5
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	29.1	12.0	34.1	7.7	24.9	13.7	18.7
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.7

Intersection Summary	
HCM 2010 Ctrl Delay	63.4
HCM 2010 LOS	E

Notes



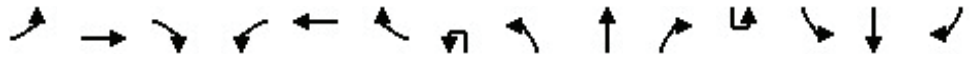
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	907	101
Future Volume (veh/h)	160	907	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	955	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	845	65
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3317	257
Grp Volume(v), veh/h	168	509	520
Grp Sat Flow(s),veh/h/ln	1774	1770	1804
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	460
V/C Ratio(X)	0.87	1.13	1.13
Avail Cap(c_a), veh/h	220	451	460
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	83.0	82.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	26.0	26.5
LnGrp Delay(d),s/veh	79.8	130.0	129.6
LnGrp LOS	E	F	F
Approach Vol, veh/h		1197	
Approach Delay, s/veh		122.8	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	11
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	57	41	189	68	12	83	46	77	6	90	2
Future Vol, veh/h	0	57	41	189	68	12	83	46	77	6	90	2
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	86	62	217	78	14	91	51	85	7	111	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.5	12.4	10.8	9.8
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	40%	0%	70%	6%
Vol Thru, %	22%	58%	25%	92%
Vol Right, %	37%	42%	4%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	206	98	269	98
LT Vol	83	0	189	6
Through Vol	46	57	68	90
RT Vol	77	41	12	2
Lane Flow Rate	226	148	309	121
Geometry Grp	1	1	1	1
Degree of Util (X)	0.327	0.211	0.448	0.186
Departure Headway (Hd)	5.208	5.11	5.221	5.522
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	690	702	690	650
Service Time	3.24	3.143	3.248	3.557
HCM Lane V/C Ratio	0.328	0.211	0.448	0.186
HCM Control Delay	10.8	9.5	12.4	9.8
HCM Lane LOS	B	A	B	A
HCM 95th-tile Q	1.4	0.8	2.3	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	64	45	131	111	41	129	17	158	800	130	8	176	975	145
Future Volume (veh/h)	64	45	131	111	41	129	17	158	800	130	8	176	975	145
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.96	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	68	48	99	121	45	98		174	879	101		185	1026	113
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	211	109	225	207	106	230		524	2660	304		207	1393	604
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21		0.30	0.58	0.58		0.23	0.79	0.79
Sat Flow, veh/h	1228	530	1092	1219	513	1116		1774	4623	529		1774	3539	1534
Grp Volume(v), veh/h	68	0	147	121	0	143		174	644	336		185	1026	113
Grp Sat Flow(s),veh/h/ln	1228	0	1622	1219	0	1629		1774	1695	1762		1774	1770	1534
Q Serve(g_s), s	7.1	0.0	11.1	13.5	0.0	10.7		10.7	13.9	14.0		14.1	20.6	2.6
Cycle Q Clear(g_c), s	17.8	0.0	11.1	24.5	0.0	10.7		10.7	13.9	14.0		14.1	20.6	2.6
Prop In Lane	1.00		0.67	1.00		0.69		1.00		0.30		1.00		1.00
Lane Grp Cap(c), veh/h	211	0	335	207	0	336		524	1951	1014		207	1393	604
V/C Ratio(X)	0.32	0.00	0.44	0.59	0.00	0.43		0.33	0.33	0.33		0.89	0.74	0.19
Avail Cap(c_a), veh/h	397	0	580	391	0	583		524	1951	1014		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.91	0.91	0.91
Uniform Delay (d), s/veh	56.1	0.0	48.5	59.2	0.0	48.3		38.6	15.6	15.6		52.8	11.2	9.3
Incr Delay (d2), s/veh	0.6	0.0	0.7	2.0	0.0	0.6		0.1	0.5	0.9		4.8	3.2	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	5.0	4.6	0.0	4.9		5.3	6.6	7.1		7.2	10.3	1.2
LnGrp Delay(d),s/veh	56.7	0.0	49.2	61.2	0.0	49.0		38.7	16.0	16.5		57.6	14.4	9.9
LnGrp LOS	E		D	E		D		D	B	B		E	B	A
Approach Vol, veh/h		215			264				1154				1324	
Approach Delay, s/veh		51.6			54.6				19.6				20.1	
Approach LOS		D			D				B				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	85.5		33.8	46.2	60.0		33.8
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	16.4	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	16.1	16.0		19.8	12.7	22.6		26.5
Green Ext Time (p_c), s	0.2	8.0		0.9	0.1	11.0		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	25.2
HCM 2010 LOS	C

Notes

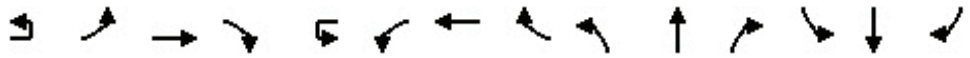


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	356	1012	68	476	886	120	21	85	310	372	271	656	288
Future Volume (veh/h)	15	356	1012	68	476	886	120	21	85	310	372	271	656	288
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		371	1054	52	506	943	94		90	330	284	315	763	237
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		570	1166	58	552	1045	104		110	671	538	331	831	258
Arrive On Green		0.17	0.34	0.34	0.16	0.32	0.32		0.06	0.19	0.19	0.19	0.31	0.31
Sat Flow, veh/h		3442	3426	169	3442	3238	323		1774	3539	1499	1774	2645	822
Grp Volume(v), veh/h		371	544	562	506	515	522		90	330	284	315	510	490
Grp Sat Flow(s),veh/h/ln		1721	1770	1826	1721	1770	1791		1774	1770	1499	1774	1770	1697
Q Serve(g_s), s		16.2	47.1	47.1	23.3	44.8	44.8		8.1	13.4	24.4	28.2	44.7	44.7
Cycle Q Clear(g_c), s		16.2	47.1	47.1	23.3	44.8	44.8		8.1	13.4	24.4	28.2	44.7	44.7
Prop In Lane		1.00		0.09	1.00		0.18		1.00		1.00	1.00		0.48
Lane Grp Cap(c), veh/h		570	602	621	552	571	578		110	671	538	331	556	533
V/C Ratio(X)		0.65	0.90	0.90	0.92	0.90	0.90		0.82	0.49	0.53	0.95	0.92	0.92
Avail Cap(c_a), veh/h		642	660	681	642	660	668		331	880	627	331	556	533
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		62.7	50.5	50.5	66.5	52.1	52.1		74.5	58.2	41.9	64.7	53.1	53.1
Incr Delay (d2), s/veh		1.3	15.3	15.0	15.6	14.4	14.3		5.5	0.4	0.5	36.5	20.2	20.9
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.8	25.5	26.3	12.3	24.2	24.5		4.1	6.6	10.2	17.2	25.0	24.0
LnGrp Delay(d),s/veh		64.1	65.9	65.5	82.0	66.5	66.4		80.1	58.6	42.5	101.2	73.4	74.0
LnGrp LOS		E	E	E	F	E	E		F	E	D	F	E	E
Approach Vol, veh/h			1477			1543				704			1315	
Approach Delay, s/veh			65.3			71.5				54.8			80.3	
Approach LOS			E			E				D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.2	60.4	14.4	55.8	32.3	58.3	34.4	35.8
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	25.3	49.1	10.1	46.7	18.2	46.8	30.2	26.4
Green Ext Time (p_c), s	0.5	5.6	0.1	0.0	0.5	5.1	0.0	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	69.7
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	54	1274	169	47	76	1318	100	123	56	38	54	135	126
Future Volume (veh/h)	6	54	1274	169	47	76	1318	100	123	56	38	54	135	126
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		57	1341	134		81	1402	75	138	63	31	59	148	98
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		180	1551	154		102	1435	77	154	70	35	61	152	101
Arrive On Green		0.10	0.48	0.48		0.02	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3251	323		1774	3418	182	1049	479	236	338	847	561
Grp Volume(v), veh/h		57	727	748		81	724	753	232	0	0	305	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1805		1774	1770	1831	1764	0	0	1746	0	0
Q Serve(g_s), s		4.2	51.1	51.8		6.4	57.1	57.4	18.1	0.0	0.0	24.3	0.0	0.0
Cycle Q Clear(g_c), s		4.2	51.1	51.8		6.4	57.1	57.4	18.1	0.0	0.0	24.3	0.0	0.0
Prop In Lane		1.00		0.18		1.00		0.10	0.59		0.13	0.19		0.32
Lane Grp Cap(c), veh/h		180	844	861		102	743	769	259	0	0	313	0	0
V/C Ratio(X)		0.32	0.86	0.87		0.80	0.97	0.98	0.90	0.00	0.00	0.97	0.00	0.00
Avail Cap(c_a), veh/h		180	844	861		172	743	769	316	0	0	313	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.45	0.45	0.45	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		58.4	32.5	32.7		67.9	59.6	59.7	58.7	0.0	0.0	57.1	0.0	0.0
Incr Delay (d2), s/veh		0.4	11.2	11.5		2.4	16.9	17.4	20.9	0.0	0.0	43.6	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.1	27.5	28.5		3.2	31.5	32.9	10.3	0.0	0.0	15.6	0.0	0.0
LnGrp Delay(d),s/veh		58.7	43.7	44.2		70.3	76.5	77.1	79.6	0.0	0.0	100.7	0.0	0.0
LnGrp LOS		E	D	D		E	E	E	E			F		
Approach Vol, veh/h			1532				1558			232			305	
Approach Delay, s/veh			44.5				76.5			79.6			100.7	
Approach LOS			D				E			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.4	72.1		30.0	19.5	65.0		25.5
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	8.4	53.8		26.3	6.2	59.4		20.1
Green Ext Time (p_c), s	0.0	2.5		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	65.2
HCM 2010 LOS	E

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	272	887	225	8	278	969	307	13	267	530	146	31	382	655	187
Future Volume (veh/h)	3	272	887	225	8	278	969	307	13	267	530	146	31	382	655	187
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.96		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		296	964	172		309	1077	254		297	589	130		429	736	150
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		322	1058	189		575	1413	333		346	809	175		483	831	346
Arrive On Green		0.06	0.12	0.12		0.06	0.11	0.11		0.20	0.39	0.39		0.14	0.23	0.23
Sat Flow, veh/h		1774	2981	531		3442	4071	959		3442	4156	897		3442	3539	1474
Grp Volume(v), veh/h		296	572	564		309	897	434		297	478	241		429	736	150
Grp Sat Flow(s),veh/h/ln		1774	1770	1743		1721	1695	1641		1721	1695	1662		1721	1770	1474
Q Serve(g_s), s		23.2	44.7	44.8		12.2	35.9	36.0		11.7	16.8	17.5		17.1	28.1	12.1
Cycle Q Clear(g_c), s		23.2	44.7	44.8		12.2	35.9	36.0		11.7	16.8	17.5		17.1	28.1	12.1
Prop In Lane		1.00		0.30		1.00		0.58		1.00		0.54		1.00		1.00
Lane Grp Cap(c), veh/h		322	628	619		575	1177	569		346	660	324		483	831	346
V/C Ratio(X)		0.92	0.91	0.91		0.54	0.76	0.76		0.86	0.72	0.74		0.89	0.89	0.43
Avail Cap(c_a), veh/h		362	628	619		575	1177	569		556	753	369		629	862	359
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.84	0.84	0.84		0.93	0.93	0.93		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.8	59.6	59.6		60.9	56.4	56.4		55.0	39.5	39.7		59.1	51.8	45.6
Incr Delay (d2), s/veh		3.5	2.5	2.5		0.5	4.0	8.0		4.0	3.6	8.1		10.2	11.3	1.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		11.7	22.4	22.1		5.9	17.6	17.6		5.7	8.2	8.6		8.8	15.1	5.1
LnGrp Delay(d),s/veh		68.3	62.1	62.2		61.3	60.3	64.4		59.0	43.1	47.8		69.3	63.0	47.1
LnGrp LOS		E	E	E		E	E	E		E	D	D		E	E	D
Approach Vol, veh/h			1432				1640				1016				1315	
Approach Delay, s/veh			63.4				61.6				48.9				63.3	
Approach LOS			E				E				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.8	55.0	18.5	37.8	29.8	54.0	24.1	32.2
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	4.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	4.2	46.8	13.7	30.1	25.2	38.0	19.1	19.5
Green Ext Time (p_c), s	0.0	1.9	0.4	2.5	0.2	0.0	0.5	5.2

Intersection Summary	
HCM 2010 Ctrl Delay	60.1
HCM 2010 LOS	E

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Future Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1576	166	491	2110	212	115	137	333	214	176	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1866	196	400	3196	993	191	201	1043	191	183	15
Arrive On Green	0.03	0.84	0.84	0.23	0.63	0.63	0.11	0.11	0.11	0.11	0.11	0.11
Sat Flow, veh/h	1774	4457	469	1774	5085	1581	1774	1863	3045	1774	1696	135
Grp Volume(v), veh/h	21	1119	623	491	2110	212	115	137	333	214	0	190
Grp Sat Flow(s),veh/h/ln	1774	1583	1759	1774	1695	1581	1774	1863	1522	1774	0	1831
Q Serve(g_s), s	1.6	27.4	27.6	31.6	36.9	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Cycle Q Clear(g_c), s	1.6	27.4	27.6	31.6	36.9	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Prop In Lane	1.00		0.27	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	28	1326	736	400	3196	993	191	201	1043	191	0	198
V/C Ratio(X)	0.74	0.84	0.85	1.23	0.66	0.21	0.60	0.68	0.32	1.12	0.00	0.96
Avail Cap(c_a), veh/h	134	1326	736	400	3196	993	318	334	1261	191	0	198
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.72	0.72	0.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	8.8	8.9	54.2	16.5	11.2	59.6	60.2	34.9	62.5	0.0	62.2
Incr Delay (d2), s/veh	9.8	4.9	8.6	122.1	1.1	0.5	2.3	3.0	0.1	100.4	0.0	52.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	12.1	14.2	29.0	17.5	3.7	4.4	5.3	4.8	12.7	0.0	10.2
LnGrp Delay(d),s/veh	77.3	13.8	17.5	176.3	17.6	11.7	61.8	63.2	35.0	162.9	0.0	114.8
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1763			2813			585			404	
Approach Delay, s/veh		15.8			44.9			46.9			140.3	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	36.0	64.0		20.0	6.6	93.4		20.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	31.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	33.6	29.6		17.1	3.6	38.9		13.5
Green Ext Time (p_c), s	0.0	15.9		0.0	0.0	25.2		1.6

Intersection Summary	
HCM 2010 Ctrl Delay	42.8
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	1.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	123	25	58	264	6	19
Future Vol, veh/h	123	25	58	264	6	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	134	27	63	287	7	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	161	0	561	148
Stage 1	-	-	-	-	148	-
Stage 2	-	-	-	-	413	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1418	-	489	899
Stage 1	-	-	-	-	880	-
Stage 2	-	-	-	-	668	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1418	-	463	899
Mov Cap-2 Maneuver	-	-	-	-	463	-
Stage 1	-	-	-	-	833	-
Stage 2	-	-	-	-	668	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.4	10.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	733	-	-	1418	-
HCM Lane V/C Ratio	0.037	-	-	0.044	-
HCM Control Delay (s)	10.1	-	-	7.7	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	98	0	1143	1157	32
Future Vol, veh/h	0	98	0	1143	1157	32
Conflicting Peds, #/hr	0	3	0	0	0	3
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	94	94	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	131	0	1216	1244	34

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	645	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	415	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	413	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	17.7	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	413	-	-
HCM Lane V/C Ratio	-	0.316	-	-
HCM Control Delay (s)	-	17.7	-	-
HCM Lane LOS	-	C	-	-
HCM 95th %tile Q(veh)	-	1.3	-	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	6	208	437	145	9	106	520	320	175	1033	67	6
Future Volume (veh/h)	6	208	437	145	9	106	520	320	175	1033	67	6
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.96	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		219	460	112		114	559	241	180	1065	48	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		283	937	226		270	797	343	242	1110	50	
Arrive On Green		0.08	0.33	0.33		0.08	0.33	0.33	0.09	0.43	0.43	
Sat Flow, veh/h		3442	2810	679		3442	2380	1023	3442	3444	155	
Grp Volume(v), veh/h		219	288	284		114	415	385	180	547	566	
Grp Sat Flow(s),veh/h/ln		1721	1770	1719		1721	1770	1633	1721	1770	1830	
Q Serve(g_s), s		6.7	14.0	14.2		3.4	22.0	22.1	5.5	32.4	32.4	
Cycle Q Clear(g_c), s		6.7	14.0	14.2		3.4	22.0	22.1	5.5	32.4	32.4	
Prop In Lane		1.00		0.39		1.00		0.63	1.00		0.08	
Lane Grp Cap(c), veh/h		283	590	573		270	593	547	242	570	590	
V/C Ratio(X)		0.77	0.49	0.50		0.42	0.70	0.70	0.74	0.96	0.96	
Avail Cap(c_a), veh/h		433	590	573		274	593	547	402	575	595	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.86	0.86	0.86	
Uniform Delay (d), s/veh		48.6	28.7	28.7		47.4	31.2	31.2	48.0	30.2	30.2	
Incr Delay (d2), s/veh		1.9	2.9	3.0		0.4	6.8	7.4	1.5	24.8	24.3	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	7.3	7.3		1.6	11.8	11.1	2.6	19.7	20.3	
LnGrp Delay(d),s/veh		50.5	31.6	31.8		47.8	38.0	38.6	49.5	54.9	54.5	
LnGrp LOS		D	C	C		D	D	D	D	D	D	
Approach Vol, veh/h			791				914			1293		
Approach Delay, s/veh			36.9				39.5			54.0		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.5	41.0	12.0	41.5	13.3	41.2	13.8	39.7
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	5.4	16.2	7.5	15.2	8.7	24.1	9.2	34.4
Green Ext Time (p_c), s	0.0	3.6	0.1	1.7	0.2	2.9	0.0	0.4

Intersection Summary	
HCM 2010 Ctrl Delay	43.4
HCM 2010 LOS	D

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	106	410	100
Future Volume (veh/h)	106	410	100
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	120	466	80
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	147	1019	174
Arrive On Green	0.08	0.34	0.34
Sat Flow, veh/h	1774	3004	512
Grp Volume(v), veh/h	120	273	273
Grp Sat Flow(s),veh/h/ln	1774	1770	1747
Q Serve(g_s), s	7.2	13.0	13.2
Cycle Q Clear(g_c), s	7.2	13.0	13.2
Prop In Lane	1.00		0.29
Lane Grp Cap(c), veh/h	147	600	593
V/C Ratio(X)	0.82	0.45	0.46
Avail Cap(c_a), veh/h	158	600	593
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.7	27.9	27.9
Incr Delay (d2), s/veh	23.8	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.5	6.4	6.4
LnGrp Delay(d),s/veh	72.5	28.1	28.2
LnGrp LOS	E	C	C
Approach Vol, veh/h		666	
Approach Delay, s/veh		36.1	
Approach LOS		D	
Timer			

Intersection	
Intersection Delay, s/veh	9.5
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	62	86	53	26	7	52	64	55	10	79	2
Future Vol, veh/h	3	62	86	53	26	7	52	64	55	10	79	2
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	74	102	68	33	9	79	97	83	13	105	3
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.1	9.2	10.1	9
HCM LOS	A	A	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	30%	2%	62%	11%
Vol Thru, %	37%	41%	30%	87%
Vol Right, %	32%	57%	8%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	171	151	86	91
LT Vol	52	3	53	10
Through Vol	64	62	26	79
RT Vol	55	86	7	2
Lane Flow Rate	259	180	110	121
Geometry Grp	1	1	1	1
Degree of Util (X)	0.335	0.232	0.157	0.167
Departure Headway (Hd)	4.653	4.648	5.14	4.959
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	767	768	692	718
Service Time	2.712	2.712	3.211	3.028
HCM Lane V/C Ratio	0.338	0.234	0.159	0.169
HCM Control Delay	10.1	9.1	9.2	9
HCM Lane LOS	B	A	A	A
HCM 95th-tile Q	1.5	0.9	0.6	0.6



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	57	30	76	96	28	75	7	97	1066	121	4	98	547	42
Future Volume (veh/h)	57	30	76	96	28	75	7	97	1066	121	4	98	547	42
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	69	36	68	123	36	67		105	1159	94		108	601	34
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	214	103	195	212	104	194		128	3076	249		130	2279	1011
Arrive On Green	0.18	0.18	0.18	0.18	0.18	0.18		0.07	0.64	0.64		0.15	1.00	1.00
Sat Flow, veh/h	1272	565	1066	1266	572	1065		1774	4784	388		1774	3539	1570
Grp Volume(v), veh/h	69	0	104	123	0	103		105	821	432		108	601	34
Grp Sat Flow(s),veh/h/ln	1272	0	1631	1266	0	1638		1774	1695	1781		1774	1770	1570
Q Serve(g_s), s	7.0	0.0	7.8	13.2	0.0	7.7		8.2	16.0	16.0		8.3	0.0	0.0
Cycle Q Clear(g_c), s	14.7	0.0	7.8	20.9	0.0	7.7		8.2	16.0	16.0		8.3	0.0	0.0
Prop In Lane	1.00		0.65	1.00		0.65		1.00		0.22		1.00		1.00
Lane Grp Cap(c), veh/h	214	0	297	212	0	299		128	2180	1145		130	2279	1011
V/C Ratio(X)	0.32	0.00	0.35	0.58	0.00	0.34		0.82	0.38	0.38		0.83	0.26	0.03
Avail Cap(c_a), veh/h	382	0	514	380	0	516		400	2180	1145		400	2279	1011
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.99	0.99	0.99
Uniform Delay (d), s/veh	56.3	0.0	50.0	59.1	0.0	49.9		64.0	11.8	11.8		58.9	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.5	1.9	0.0	0.5		4.8	0.5	0.9		5.1	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	3.6	4.7	0.0	3.5		4.2	7.6	8.1		4.2	0.1	0.0
LnGrp Delay(d),s/veh	57.0	0.0	50.5	61.0	0.0	50.4		68.9	12.3	12.7		64.0	0.3	0.1
LnGrp LOS	E		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		173			226				1358				743	
Approach Delay, s/veh		53.1			56.2				16.8				9.5	
Approach LOS		D			E				B				A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	94.9		30.4	14.5	95.0		30.4
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	10.3	18.0		16.7	10.2	2.0		22.9
Green Ext Time (p_c), s	0.1	12.3		0.7	0.1	5.7		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	20.7
HCM 2010 LOS	C

Notes

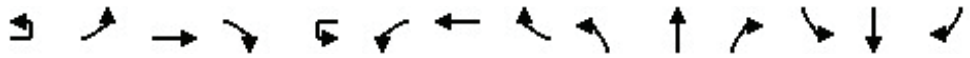


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	5	205	877	76	370	819	122	15	156	415	376	2	183	281	299
Future Volume (veh/h)	5	205	877	76	370	819	122	15	156	415	376	2	183	281	299
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		214	914	56	394	871	99		188	500	453		201	309	232
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		419	1087	67	453	1010	115		214	957	637		227	534	389
Arrive On Green		0.12	0.32	0.32	0.13	0.32	0.32		0.12	0.27	0.27		0.13	0.28	0.28
Sat Flow, veh/h		3442	3376	207	3442	3189	362		1774	3539	1583		1774	1924	1402
Grp Volume(v), veh/h		214	479	491	394	483	487		188	500	453		201	283	258
Grp Sat Flow(s),veh/h/ln		1721	1770	1813	1721	1770	1782		1774	1770	1583		1774	1770	1556
Q Serve(g_s), s		7.8	33.7	33.7	15.0	34.3	34.3		13.9	16.0	32.0		14.9	18.4	19.2
Cycle Q Clear(g_c), s		7.8	33.7	33.7	15.0	34.3	34.3		13.9	16.0	32.0		14.9	18.4	19.2
Prop In Lane		1.00		0.11	1.00		0.20		1.00		1.00		1.00		0.90
Lane Grp Cap(c), veh/h		419	570	584	453	561	564		214	957	637		227	491	432
V/C Ratio(X)		0.51	0.84	0.84	0.87	0.86	0.86		0.88	0.52	0.71		0.89	0.58	0.60
Avail Cap(c_a), veh/h		772	794	814	772	794	800		398	1059	682		398	530	466
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		55.0	42.1	42.1	56.9	42.9	42.9		57.8	41.4	33.5		57.3	41.5	41.8
Incr Delay (d2), s/veh		0.4	6.4	6.2	2.5	7.0	6.9		4.5	0.3	2.9		5.0	1.1	1.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.7	17.5	17.9	7.3	17.9	18.0		7.1	7.9	14.5		7.6	9.1	8.4
LnGrp Delay(d),s/veh		55.3	48.5	48.4	59.4	49.9	49.8		62.3	41.7	36.4		62.3	42.7	43.4
LnGrp LOS		E	D	D	E	D	D		E	D	D		E	D	D
Approach Vol, veh/h			1184			1364				1141				742	
Approach Delay, s/veh			49.7			52.6				43.0				48.2	
Approach LOS			D			D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.0	48.7	20.5	42.4	22.0	48.7	21.5	41.4
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	17.0	35.7	15.9	21.2	9.8	36.3	16.9	34.0
Green Ext Time (p_c), s	0.6	7.4	0.2	2.7	0.3	6.0	0.2	2.1

Intersection Summary	
HCM 2010 Ctrl Delay	48.6
HCM 2010 LOS	D

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	39	1138	187	3	54	1020	97	264	104	83	66	114	74
Future Volume (veh/h)	13	39	1138	187	3	54	1020	97	264	104	83	66	114	74
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		44	1293	182		67	1259	85	388	153	85	84	144	69
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		57	1156	162		85	1305	88	274	108	60	91	156	75
Arrive On Green		0.03	0.37	0.37		0.02	0.13	0.13	0.25	0.25	0.25	0.18	0.18	0.18
Sat Flow, veh/h		1774	3106	434		1774	3359	226	1094	431	240	497	852	408
Grp Volume(v), veh/h		44	732	743		67	662	682	626	0	0	297	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1771		1774	1770	1816	1765	0	0	1758	0	0
Q Serve(g_s), s		3.4	52.1	52.1		5.3	52.1	52.3	35.1	0.0	0.0	23.2	0.0	0.0
Cycle Q Clear(g_c), s		3.4	52.1	52.1		5.3	52.1	52.3	35.1	0.0	0.0	23.2	0.0	0.0
Prop In Lane		1.00		0.25		1.00		0.12	0.62		0.14	0.28		0.23
Lane Grp Cap(c), veh/h		57	659	659		85	687	705	443	0	0	322	0	0
V/C Ratio(X)		0.78	1.11	1.13		0.78	0.96	0.97	1.41	0.00	0.00	0.92	0.00	0.00
Avail Cap(c_a), veh/h		122	659	659		122	687	705	443	0	0	353	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		67.3	43.9	43.9		68.2	60.0	60.1	52.5	0.0	0.0	56.2	0.0	0.0
Incr Delay (d2), s/veh		8.2	70.0	75.5		11.8	26.4	26.7	199.4	0.0	0.0	26.6	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.8	38.2	39.3		2.9	30.6	31.6	41.6	0.0	0.0	13.7	0.0	0.0
LnGrp Delay(d),s/veh		75.5	113.9	119.4		80.0	86.5	86.8	251.9	0.0	0.0	82.8	0.0	0.0
LnGrp LOS		E	F	F		F	F	F	F			F		
Approach Vol, veh/h			1519				1411			626			297	
Approach Delay, s/veh			115.5				86.3			251.9			82.8	
Approach LOS			F				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	11.1	58.3		30.6	8.9	60.6		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	7.3	54.1		25.2	5.4	54.3		37.1
Green Ext Time (p_c), s	0.0	0.0		0.4	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	124.5
HCM 2010 LOS	F

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	177	903	265	5	212	717	273	2	289	805	164	5	222	444	169
Future Volume (veh/h)	3	177	903	265	5	212	717	273	2	289	805	164	5	222	444	169
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		199	1015	210		244	824	225		307	856	153		255	510	137
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		407	1349	278		293	1232	334		353	991	176		300	756	329
Arrive On Green		0.31	0.62	0.62		0.09	0.31	0.31		0.20	0.46	0.46		0.17	0.43	0.43
Sat Flow, veh/h		1774	2913	601		3442	3956	1071		3442	4333	770		3442	3539	1541
Grp Volume(v), veh/h		199	615	610		244	705	344		307	669	340		255	510	137
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1637		1721	1695	1712		1721	1770	1541
Q Serve(g_s), s		12.8	34.8	35.1		9.8	25.3	25.6		12.1	24.7	25.1		10.1	16.2	5.3
Cycle Q Clear(g_c), s		12.8	34.8	35.1		9.8	25.3	25.6		12.1	24.7	25.1		10.1	16.2	5.3
Prop In Lane		1.00		0.34		1.00		0.65		1.00		0.45		1.00		1.00
Lane Grp Cap(c), veh/h		407	819	808		293	1056	510		353	775	392		300	756	329
V/C Ratio(X)		0.49	0.75	0.75		0.83	0.67	0.67		0.87	0.86	0.87		0.85	0.67	0.42
Avail Cap(c_a), veh/h		407	819	808		383	1056	510		457	826	417		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		1.00	1.00	1.00		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		1.00	1.00	1.00		0.91	0.91	0.91		0.82	0.82	0.82		1.00	1.00	1.00
Uniform Delay (d), s/veh		41.9	21.1	21.2		63.0	41.9	42.0		54.8	36.0	36.1		56.9	36.2	12.9
Incr Delay (d2), s/veh		0.3	6.3	6.5		8.2	3.1	6.4		9.5	8.1	15.3		11.1	2.7	1.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.3	18.3	18.2		5.0	12.3	12.5		6.2	12.4	13.4		5.2	8.2	3.2
LnGrp Delay(d),s/veh		42.2	27.4	27.6		71.3	45.0	48.4		64.3	44.1	51.4		68.0	38.9	14.3
LnGrp LOS		D	C	C		E	D	D		E	D	D		E	D	B
Approach Vol, veh/h			1424				1293				1316				902	
Approach Delay, s/veh			29.6				50.8				50.7				43.4	
Approach LOS			C				D				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.3	70.1	18.7	34.8	37.5	49.0	16.6	36.9
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	11.8	37.1	14.1	18.2	14.8	27.6	12.1	27.1
Green Ext Time (p_c), s	0.2	8.3	0.3	4.7	0.2	5.7	0.2	4.7

Intersection Summary	
HCM 2010 Ctrl Delay	43.3
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Future Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	2036	149	480	1654	204	126	134	672	289	172	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	1827	133	350	2917	889	255	267	1064	293	299	7
Arrive On Green	0.00	0.76	0.76	0.20	0.57	0.57	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4826	351	1774	5085	1549	1774	1863	3066	1774	1812	42
Grp Volume(v), veh/h	2	1426	759	480	1654	204	126	134	672	289	0	176
Grp Sat Flow(s),veh/h/ln	1774	1695	1786	1774	1695	1549	1774	1863	1533	1774	0	1854
Q Serve(g_s), s	0.2	53.0	53.0	27.6	28.8	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Cycle Q Clear(g_c), s	0.2	53.0	53.0	27.6	28.8	9.1	9.2	9.3	20.1	22.7	0.0	12.3
Prop In Lane	1.00		0.20	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	4	1283	676	350	2917	889	255	267	1064	293	0	306
V/C Ratio(X)	0.53	1.11	1.12	1.37	0.57	0.23	0.49	0.50	0.63	0.99	0.00	0.58
Avail Cap(c_a), veh/h	274	1283	676	350	2917	889	255	267	1064	293	0	306
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.39	0.39	0.39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.6	17.0	17.0	56.2	18.9	14.7	55.3	55.3	39.0	58.3	0.0	53.9
Incr Delay (d2), s/veh	15.5	54.9	63.4	184.8	0.8	0.6	1.1	1.1	1.1	48.9	0.0	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	33.3	36.7	31.5	13.5	4.0	4.6	4.9	11.1	15.1	0.0	6.5
LnGrp Delay(d),s/veh	85.1	71.9	80.4	241.0	19.7	15.3	56.4	56.4	40.0	107.2	0.0	55.7
LnGrp LOS	F	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2187			2338			932			465	
Approach Delay, s/veh		74.9			64.7			44.6			87.7	
Approach LOS		E			E			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	32.0	58.5		25.0	4.7	85.8		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	2.2	30.8		24.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	67.1
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	1.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	122	7	13	81	7	37
Future Vol, veh/h	122	7	13	81	7	37
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	133	8	14	88	8	40

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	141	0	253	137
Stage 1	-	-	-	-	137	-
Stage 2	-	-	-	-	116	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1442	-	736	911
Stage 1	-	-	-	-	890	-
Stage 2	-	-	-	-	909	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1442	-	729	911
Mov Cap-2 Maneuver	-	-	-	-	729	-
Stage 1	-	-	-	-	881	-
Stage 2	-	-	-	-	909	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1	9.3
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	876	-	-	1442	-
HCM Lane V/C Ratio	0.055	-	-	0.01	-
HCM Control Delay (s)	9.3	-	-	7.5	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.2	-	-	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	43	0	1265	797	6
Future Vol, veh/h	0	43	0	1265	797	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	47	0	1375	866	7

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	437	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	567	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	567	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.9	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	567	-	-
HCM Lane V/C Ratio	-	0.082	-	-
HCM Control Delay (s)	-	11.9	-	-
HCM Lane LOS	-	B	-	-
HCM 95th %tile Q(veh)	-	0.3	-	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	1292	1156	7	0	18
Future Vol, veh/h	0	1292	1156	7	0	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1404	1257	8	0	20

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	633
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	422
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	422
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	13.9
HCM LOS			B

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	422
HCM Lane V/C Ratio	-	-	-	0.046
HCM Control Delay (s)	-	-	-	13.9
HCM Lane LOS	-	-	-	B
HCM 95th %tile Q(veh)	-	-	-	0.1

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	11	142	662	262	15	186	737	105	261	412	106	2
Future Volume (veh/h)	11	142	662	262	15	186	737	105	261	412	106	2
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		158	736	208		200	792	79	278	438	79	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	1150	325		255	1420	142	335	722	129	
Arrive On Green		0.06	0.43	0.43		0.07	0.44	0.44	0.10	0.24	0.24	
Sat Flow, veh/h		3442	2703	764		3442	3245	324	3442	2973	531	
Grp Volume(v), veh/h		158	482	462		200	432	439	278	259	258	
Grp Sat Flow(s),veh/h/ln		1721	1770	1697		1721	1770	1798	1721	1770	1735	
Q Serve(g_s), s		5.7	27.1	27.1		7.2	22.9	22.9	10.0	16.4	16.7	
Cycle Q Clear(g_c), s		5.7	27.1	27.1		7.2	22.9	22.9	10.0	16.4	16.7	
Prop In Lane		1.00		0.45		1.00		0.18	1.00		0.31	
Lane Grp Cap(c), veh/h		213	753	722		255	775	787	335	430	422	
V/C Ratio(X)		0.74	0.64	0.64		0.78	0.56	0.56	0.83	0.60	0.61	
Avail Cap(c_a), veh/h		399	753	722		399	775	787	481	479	470	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.97	0.97	0.97	
Uniform Delay (d), s/veh		58.1	28.6	28.6		57.3	26.4	26.4	55.9	42.3	42.4	
Incr Delay (d2), s/veh		1.9	4.1	4.3		2.1	2.9	2.8	5.3	1.0	1.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.8	14.1	13.6		3.5	11.8	12.0	5.0	8.1	8.1	
LnGrp Delay(d),s/veh		60.0	32.7	32.9		59.4	29.2	29.2	61.2	43.3	43.5	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1102				1071			795		
Approach Delay, s/veh			36.7				34.9			49.6		
Approach LOS			D				C			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	58.6	16.7	37.0	12.2	60.1	18.1	35.5
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	9.2	29.1	12.0	34.1	7.7	24.9	13.7	18.7
Green Ext Time (p_c), s	0.2	5.5	0.3	0.0	0.1	5.6	0.0	1.7

Intersection Summary	
HCM 2010 Ctrl Delay	63.4
HCM 2010 LOS	E

Notes



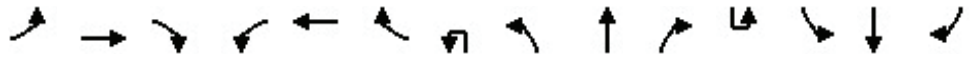
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	160	907	101
Future Volume (veh/h)	160	907	101
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	168	955	74
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	194	845	65
Arrive On Green	0.11	0.25	0.25
Sat Flow, veh/h	1774	3317	257
Grp Volume(v), veh/h	168	509	520
Grp Sat Flow(s),veh/h/ln	1774	1770	1804
Q Serve(g_s), s	11.7	32.1	32.1
Cycle Q Clear(g_c), s	11.7	32.1	32.1
Prop In Lane	1.00		0.14
Lane Grp Cap(c), veh/h	194	451	460
V/C Ratio(X)	0.87	1.13	1.13
Avail Cap(c_a), veh/h	220	451	460
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.2	47.0	47.0
Incr Delay (d2), s/veh	24.6	83.0	82.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	26.0	26.5
LnGrp Delay(d),s/veh	79.8	130.0	129.6
LnGrp LOS	E	F	F
Approach Vol, veh/h		1197	
Approach Delay, s/veh		122.8	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	11
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	57	41	187	67	12	83	46	77	6	90	2
Future Vol, veh/h	0	57	41	187	67	12	83	46	77	6	90	2
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	86	62	215	77	14	91	51	85	7	111	2
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.5	12.3	10.7	9.8
HCM LOS	A	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	40%	0%	70%	6%
Vol Thru, %	22%	58%	25%	92%
Vol Right, %	37%	42%	5%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	206	98	266	98
LT Vol	83	0	187	6
Through Vol	46	57	67	90
RT Vol	77	41	12	2
Lane Flow Rate	226	148	306	121
Geometry Grp	1	1	1	1
Degree of Util (X)	0.327	0.21	0.443	0.185
Departure Headway (Hd)	5.2	5.103	5.219	5.512
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	693	704	691	651
Service Time	3.228	3.135	3.245	3.545
HCM Lane V/C Ratio	0.326	0.21	0.443	0.186
HCM Control Delay	10.7	9.5	12.3	9.8
HCM Lane LOS	B	A	B	A
HCM 95th-tile Q	1.4	0.8	2.3	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	64	45	131	111	41	129	17	135	799	130	8	176	975	146
Future Volume (veh/h)	64	45	131	111	41	129	17	135	799	130	8	176	975	146
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.96	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	68	48	99	121	45	98		148	878	101		185	1026	114
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	211	109	225	207	106	230		524	2660	305		207	1393	604
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21		0.30	0.58	0.58		0.23	0.79	0.79
Sat Flow, veh/h	1228	530	1092	1219	513	1116		1774	4622	529		1774	3539	1534
Grp Volume(v), veh/h	68	0	147	121	0	143		148	643	336		185	1026	114
Grp Sat Flow(s),veh/h/ln	1228	0	1622	1219	0	1629		1774	1695	1762		1774	1770	1534
Q Serve(g_s), s	7.1	0.0	11.1	13.5	0.0	10.7		9.0	13.9	14.0		14.1	20.6	2.6
Cycle Q Clear(g_c), s	17.8	0.0	11.1	24.5	0.0	10.7		9.0	13.9	14.0		14.1	20.6	2.6
Prop In Lane	1.00		0.67	1.00		0.69		1.00		0.30		1.00		1.00
Lane Grp Cap(c), veh/h	211	0	335	207	0	336		524	1951	1014		207	1393	604
V/C Ratio(X)	0.32	0.00	0.44	0.59	0.00	0.43		0.28	0.33	0.33		0.89	0.74	0.19
Avail Cap(c_a), veh/h	397	0	580	391	0	583		524	1951	1014		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.91	0.91	0.91
Uniform Delay (d), s/veh	56.1	0.0	48.5	59.2	0.0	48.3		37.9	15.6	15.6		52.8	11.2	9.3
Incr Delay (d2), s/veh	0.6	0.0	0.7	2.0	0.0	0.6		0.1	0.5	0.9		4.8	3.2	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.0	5.0	4.6	0.0	4.9		4.4	6.6	7.1		7.2	10.3	1.2
LnGrp Delay(d),s/veh	56.7	0.0	49.2	61.2	0.0	49.0		38.1	16.0	16.5		57.6	14.4	9.9
LnGrp LOS	E		D	E		D		D	B	B		E	B	A
Approach Vol, veh/h		215			264				1127				1325	
Approach Delay, s/veh		51.6			54.6				19.0				20.1	
Approach LOS		D			D				B				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.8	85.5		33.8	46.2	60.0		33.8
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	16.4	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	16.1	16.0		19.8	11.0	22.6		26.5
Green Ext Time (p_c), s	0.2	8.0		0.9	0.1	11.0		1.0

Intersection Summary	
HCM 2010 Ctrl Delay	25.1
HCM 2010 LOS	C

Notes

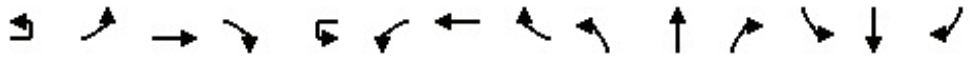


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	15	356	1012	68	476	886	120	21	85	310	372	271	656	288
Future Volume (veh/h)	15	356	1012	68	476	886	120	21	85	310	372	271	656	288
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		371	1054	52	506	943	94		90	330	284	315	763	237
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		570	1166	58	552	1045	104		110	671	538	331	831	258
Arrive On Green		0.17	0.34	0.34	0.16	0.32	0.32		0.06	0.19	0.19	0.19	0.31	0.31
Sat Flow, veh/h		3442	3426	169	3442	3238	323		1774	3539	1499	1774	2645	822
Grp Volume(v), veh/h		371	544	562	506	515	522		90	330	284	315	510	490
Grp Sat Flow(s),veh/h/ln		1721	1770	1826	1721	1770	1791		1774	1770	1499	1774	1770	1697
Q Serve(g_s), s		16.2	47.1	47.1	23.3	44.8	44.8		8.1	13.4	24.4	28.2	44.7	44.7
Cycle Q Clear(g_c), s		16.2	47.1	47.1	23.3	44.8	44.8		8.1	13.4	24.4	28.2	44.7	44.7
Prop In Lane		1.00		0.09	1.00		0.18		1.00		1.00	1.00		0.48
Lane Grp Cap(c), veh/h		570	602	621	552	571	578		110	671	538	331	556	533
V/C Ratio(X)		0.65	0.90	0.90	0.92	0.90	0.90		0.82	0.49	0.53	0.95	0.92	0.92
Avail Cap(c_a), veh/h		642	660	681	642	660	668		331	880	627	331	556	533
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		62.7	50.5	50.5	66.5	52.1	52.1		74.5	58.2	41.9	64.7	53.1	53.1
Incr Delay (d2), s/veh		1.3	15.3	15.0	15.6	14.4	14.3		5.5	0.4	0.5	36.5	20.2	20.9
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.8	25.5	26.3	12.3	24.2	24.5		4.1	6.6	10.2	17.2	25.0	24.0
LnGrp Delay(d),s/veh		64.1	65.9	65.5	82.0	66.5	66.4		80.1	58.6	42.5	101.2	73.4	74.0
LnGrp LOS		E	E	E	F	E	E		F	E	D	F	E	E
Approach Vol, veh/h			1477			1543				704			1315	
Approach Delay, s/veh			65.3			71.5				54.8			80.3	
Approach LOS			E			E				D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.2	60.4	14.4	55.8	32.3	58.3	34.4	35.8
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	25.3	49.1	10.1	46.7	18.2	46.8	30.2	26.4
Green Ext Time (p_c), s	0.5	5.6	0.1	0.0	0.5	5.1	0.0	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	69.7
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	54	1274	169	47	78	1320	100	123	56	38	54	134	124
Future Volume (veh/h)	6	54	1274	169	47	78	1320	100	123	56	38	54	134	124
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		57	1341	134		83	1404	75	138	63	31	59	147	96
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		180	1547	154		104	1436	77	154	70	35	61	152	100
Arrive On Green		0.10	0.48	0.48		0.02	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3251	323		1774	3418	182	1049	479	236	341	850	555
Grp Volume(v), veh/h		57	727	748		83	725	754	232	0	0	302	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1805		1774	1770	1831	1764	0	0	1747	0	0
Q Serve(g_s), s		4.2	51.2	51.9		6.5	57.2	57.5	18.1	0.0	0.0	24.0	0.0	0.0
Cycle Q Clear(g_c), s		4.2	51.2	51.9		6.5	57.2	57.5	18.1	0.0	0.0	24.0	0.0	0.0
Prop In Lane		1.00		0.18		1.00		0.10	0.59		0.13	0.20		0.32
Lane Grp Cap(c), veh/h		180	842	859		104	743	769	259	0	0	313	0	0
V/C Ratio(X)		0.32	0.86	0.87		0.80	0.98	0.98	0.90	0.00	0.00	0.96	0.00	0.00
Avail Cap(c_a), veh/h		180	842	859		172	743	769	316	0	0	313	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		58.4	32.6	32.8		67.8	59.6	59.7	58.7	0.0	0.0	57.0	0.0	0.0
Incr Delay (d2), s/veh		0.4	11.4	11.8		5.2	27.6	28.0	20.9	0.0	0.0	40.9	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.1	27.5	28.6		3.4	33.8	35.2	10.3	0.0	0.0	15.1	0.0	0.0
LnGrp Delay(d),s/veh		58.7	44.1	44.6		73.0	87.2	87.7	79.6	0.0	0.0	97.9	0.0	0.0
LnGrp LOS		E	D	D		E	F	F	E			F		
Approach Vol, veh/h			1532				1562			232			302	
Approach Delay, s/veh			44.9				86.7			79.6			97.9	
Approach LOS			D				F			E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.6	71.9		30.0	19.5	65.0		25.5
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	8.5	53.9		26.0	6.2	59.5		20.1
Green Ext Time (p_c), s	0.0	2.4		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	69.5
HCM 2010 LOS	E

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	272	888	225	8	278	986	290	13	273	524	146	31	381	655	182
Future Volume (veh/h)	3	272	888	225	8	278	986	290	13	273	524	146	31	381	655	182
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.96		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		296	965	172		309	1096	235		303	582	130		428	736	144
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		322	1058	188		569	1436	308		351	816	178		482	831	346
Arrive On Green		0.06	0.12	0.12		0.05	0.11	0.11		0.20	0.39	0.39		0.14	0.23	0.23
Sat Flow, veh/h		1774	2982	531		3442	4156	890		3442	4146	905		3442	3539	1474
Grp Volume(v), veh/h		296	572	565		309	894	437		303	473	239		428	736	144
Grp Sat Flow(s),veh/h/ln		1774	1770	1743		1721	1695	1656		1721	1695	1661		1721	1770	1474
Q Serve(g_s), s		23.2	44.7	44.8		12.2	35.8	35.9		11.9	16.5	17.1		17.1	28.1	11.6
Cycle Q Clear(g_c), s		23.2	44.7	44.8		12.2	35.8	35.9		11.9	16.5	17.1		17.1	28.1	11.6
Prop In Lane		1.00		0.30		1.00		0.54		1.00		0.54		1.00		1.00
Lane Grp Cap(c), veh/h		322	628	619		569	1171	572		351	667	327		482	831	346
V/C Ratio(X)		0.92	0.91	0.91		0.54	0.76	0.76		0.86	0.71	0.73		0.89	0.89	0.42
Avail Cap(c_a), veh/h		362	628	619		569	1171	572		556	753	369		629	862	359
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.84	0.84	0.84		0.93	0.93	0.93		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.8	59.6	59.7		61.0	56.5	56.5		54.8	39.1	39.3		59.1	51.8	45.4
Incr Delay (d2), s/veh		25.1	19.7	20.1		0.5	4.0	8.0		4.6	3.3	7.4		10.1	11.3	1.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		13.7	25.4	25.2		5.9	17.5	17.8		5.9	7.9	8.5		8.8	15.1	4.9
LnGrp Delay(d),s/veh		89.9	79.3	79.8		61.5	60.5	64.5		59.3	42.4	46.7		69.2	63.0	46.8
LnGrp LOS		F	E	E		E	E	E		E	D	D		E	E	D
Approach Vol, veh/h			1433				1640				1015				1308	
Approach Delay, s/veh			81.7				61.7				48.5				63.3	
Approach LOS			F				E				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.6	55.0	18.7	37.8	29.8	53.8	24.0	32.4
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	4.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	4.2	46.8	13.9	30.1	25.2	37.9	19.1	19.1
Green Ext Time (p_c), s	0.0	1.9	0.4	2.5	0.2	0.0	0.5	5.3

Intersection Summary	
HCM 2010 Ctrl Delay	64.9
HCM 2010 LOS	E

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Future Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1576	166	491	2110	212	115	137	333	214	176	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1866	196	400	3196	993	191	201	1043	191	183	15
Arrive On Green	0.03	0.84	0.84	0.23	0.63	0.63	0.11	0.11	0.11	0.11	0.11	0.11
Sat Flow, veh/h	1774	4457	469	1774	5085	1581	1774	1863	3045	1774	1696	135
Grp Volume(v), veh/h	21	1119	623	491	2110	212	115	137	333	214	0	190
Grp Sat Flow(s),veh/h/ln	1774	1583	1759	1774	1695	1581	1774	1863	1522	1774	0	1831
Q Serve(g_s), s	1.6	27.4	27.6	31.6	36.9	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Cycle Q Clear(g_c), s	1.6	27.4	27.6	31.6	36.9	8.1	8.7	9.9	11.5	15.1	0.0	14.5
Prop In Lane	1.00		0.27	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	28	1326	736	400	3196	993	191	201	1043	191	0	198
V/C Ratio(X)	0.74	0.84	0.85	1.23	0.66	0.21	0.60	0.68	0.32	1.12	0.00	0.96
Avail Cap(c_a), veh/h	134	1326	736	400	3196	993	318	334	1261	191	0	198
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.72	0.72	0.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	8.8	8.9	54.2	16.5	11.2	59.6	60.2	34.9	62.5	0.0	62.2
Incr Delay (d2), s/veh	9.8	4.9	8.6	122.1	1.1	0.5	2.3	3.0	0.1	100.4	0.0	52.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	12.1	14.2	29.0	17.5	3.7	4.4	5.3	4.8	12.7	0.0	10.2
LnGrp Delay(d),s/veh	77.3	13.8	17.5	176.3	17.6	11.7	61.8	63.2	35.0	162.9	0.0	114.8
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1763			2813			585			404	
Approach Delay, s/veh		15.8			44.9			46.9			140.3	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	36.0	64.0		20.0	6.6	93.4		20.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	31.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	33.6	29.6		17.1	3.6	38.9		13.5
Green Ext Time (p_c), s	0.0	15.9		0.0	0.0	25.2		1.6

Intersection Summary	
HCM 2010 Ctrl Delay	42.8
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	1.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	123	25	45	264	4	19
Future Vol, veh/h	123	25	45	264	4	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	134	27	49	287	4	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	161	0	533	148
Stage 1	-	-	-	-	148	-
Stage 2	-	-	-	-	385	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1418	-	507	899
Stage 1	-	-	-	-	880	-
Stage 2	-	-	-	-	688	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1418	-	486	899
Mov Cap-2 Maneuver	-	-	-	-	486	-
Stage 1	-	-	-	-	844	-
Stage 2	-	-	-	-	688	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.1	9.7
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	783	-	-	1418	-
HCM Lane V/C Ratio	0.032	-	-	0.034	-
HCM Control Delay (s)	9.7	-	-	7.6	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	91	0	1119	1157	21
Future Vol, veh/h	0	91	0	1119	1157	21
Conflicting Peds, #/hr	0	3	0	0	0	3
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	75	75	94	94	93	93
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	121	0	1190	1244	23

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	640	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	418	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	416	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	17.2	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	416	-	-
HCM Lane V/C Ratio	-	0.292	-	-
HCM Control Delay (s)	-	17.2	-	-
HCM Lane LOS	-	C	-	-
HCM 95th %tile Q(veh)	-	1.2	-	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	1414	1536	23	0	9
Future Vol, veh/h	0	1414	1536	23	0	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1537	1670	25	0	10

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	848
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	305
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	305
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	17.2
HCM LOS			C

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	305
HCM Lane V/C Ratio	-	-	-	0.032
HCM Control Delay (s)	-	-	-	17.2
HCM Lane LOS	-	-	-	C
HCM 95th %tile Q(veh)	-	-	-	0.1

ATTACHMENT C
HORIZON YEAR 2050 PLUS PROJECT CONDITIONS– SYNCHRO WORKSHEETS

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Future Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.97	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		221	463	160		204	591	284	251	1273	72	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		285	856	293		622	1001	481	312	1105	62	
Arrive On Green		0.08	0.33	0.33		0.18	0.44	0.44	0.12	0.43	0.43	
Sat Flow, veh/h		3442	2567	879		3442	2293	1101	3442	3400	192	
Grp Volume(v), veh/h		221	318	305		204	456	419	251	662	683	
Grp Sat Flow(s),veh/h/ln		1721	1770	1676		1721	1770	1625	1721	1770	1822	
Q Serve(g_s), s		6.8	15.8	16.0		5.6	21.1	21.2	7.7	35.1	35.1	
Cycle Q Clear(g_c), s		6.8	15.8	16.0		5.6	21.1	21.2	7.7	35.1	35.1	
Prop In Lane		1.00		0.52		1.00		0.68	1.00		0.11	
Lane Grp Cap(c), veh/h		285	590	559		622	773	709	312	575	592	
V/C Ratio(X)		0.77	0.54	0.55		0.33	0.59	0.59	0.80	1.15	1.15	
Avail Cap(c_a), veh/h		433	590	559		622	773	709	402	575	592	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.55	0.55	0.55	
Uniform Delay (d), s/veh		48.5	29.3	29.3		38.5	23.1	23.1	46.5	30.7	30.7	
Incr Delay (d2), s/veh		2.1	3.5	3.8		0.1	3.3	3.6	3.8	78.9	80.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	8.3	8.0		2.7	11.0	10.1	3.8	29.6	30.7	
LnGrp Delay(d),s/veh		50.6	32.8	33.1		38.7	26.4	26.7	50.4	109.5	110.7	
LnGrp LOS		D	C	C		D	C	C	D	F	F	
Approach Vol, veh/h			844				1079			1596		
Approach Delay, s/veh			37.6				28.8			100.7		
Approach LOS			D				C			F		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.6	41.0	14.2	40.3	13.4	52.3	14.5	40.0
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	7.6	18.0	9.7	23.6	8.8	23.2	11.6	37.1
Green Ext Time (p_c), s	0.0	3.8	0.1	2.0	0.2	3.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	67.5
HCM 2010 LOS	E

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	190	535	190
Future Volume (veh/h)	190	535	190
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	216	608	182
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	158	871	260
Arrive On Green	0.09	0.33	0.33
Sat Flow, veh/h	1774	2658	794
Grp Volume(v), veh/h	216	404	386
Grp Sat Flow(s),veh/h/ln	1774	1770	1682
Q Serve(g_s), s	9.6	21.5	21.6
Cycle Q Clear(g_c), s	9.6	21.5	21.6
Prop In Lane	1.00		0.47
Lane Grp Cap(c), veh/h	158	580	551
V/C Ratio(X)	1.37	0.70	0.70
Avail Cap(c_a), veh/h	158	580	551
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.2	31.6	31.7
Incr Delay (d2), s/veh	201.3	3.1	3.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.5	10.9	10.6
LnGrp Delay(d),s/veh	250.5	34.7	35.0
LnGrp LOS	F	C	C
Approach Vol, veh/h		1006	
Approach Delay, s/veh		81.2	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	11.1
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	10	80	100	85	41	10	80	50	85	20	60	10
Future Vol, veh/h	10	80	100	85	41	10	80	50	85	20	60	10
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	12	95	119	109	53	13	121	76	129	27	80	13
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.6	10.6	12.3	9.8
HCM LOS	B	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	37%	5%	62%	22%
Vol Thru, %	23%	42%	30%	67%
Vol Right, %	40%	53%	7%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	215	190	136	90
LT Vol	80	10	85	20
Through Vol	50	80	41	60
RT Vol	85	100	10	10
Lane Flow Rate	326	226	174	120
Geometry Grp	1	1	1	1
Degree of Util (X)	0.457	0.321	0.269	0.183
Departure Headway (Hd)	5.05	5.108	5.558	5.504
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	713	703	645	652
Service Time	3.081	3.142	3.596	3.545
HCM Lane V/C Ratio	0.457	0.321	0.27	0.184
HCM Control Delay	12.3	10.6	10.6	9.8
HCM Lane LOS	B	B	B	A
HCM 95th-tile Q	2.4	1.4	1.1	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	68	34	129	100	41	90	10	126	1140	140	10	130	610	69
Future Volume (veh/h)	68	34	129	100	41	90	10	126	1140	140	10	130	610	69
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	82	41	131	128	53	86		137	1239	114		143	670	64
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	239	85	273	207	141	228		161	2751	253		165	2068	916
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22		0.09	0.58	0.58		0.19	1.00	1.00
Sat Flow, veh/h	1234	382	1221	1196	629	1021		1774	4726	435		1774	3539	1568
Grp Volume(v), veh/h	82	0	172	128	0	139		137	889	464		143	670	64
Grp Sat Flow(s),veh/h/ln	1234	0	1603	1196	0	1651		1774	1695	1771		1774	1770	1568
Q Serve(g_s), s	8.4	0.0	13.1	14.6	0.0	10.0		10.6	20.8	20.8		10.9	0.0	0.0
Cycle Q Clear(g_c), s	18.4	0.0	13.1	27.7	0.0	10.0		10.6	20.8	20.8		10.9	0.0	0.0
Prop In Lane	1.00		0.76	1.00		0.62		1.00		0.25		1.00		1.00
Lane Grp Cap(c), veh/h	239	0	358	207	0	369		161	1973	1031		165	2068	916
V/C Ratio(X)	0.34	0.00	0.48	0.62	0.00	0.38		0.85	0.45	0.45		0.86	0.32	0.07
Avail Cap(c_a), veh/h	352	0	505	316	0	520		400	1973	1031		400	2068	916
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		0.54	0.54	0.54		0.98	0.98	0.98
Uniform Delay (d), s/veh	53.9	0.0	47.3	59.3	0.0	46.1		62.7	16.6	16.6		56.1	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.7	2.2	0.0	0.5		2.6	0.4	0.8		5.0	0.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	0.0	5.9	5.0	0.0	4.6		5.3	9.9	10.4		5.6	0.1	0.0
LnGrp Delay(d),s/veh	54.6	0.0	48.1	61.6	0.0	46.6		65.3	17.0	17.3		61.1	0.4	0.1
LnGrp LOS	D		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		254			267				1490				877	
Approach Delay, s/veh		50.2			53.8				21.5				10.3	
Approach LOS		D			D				C				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.5	86.4		36.2	17.1	86.7		36.2
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	12.9	22.8		20.4	12.6	2.0		29.7
Green Ext Time (p_c), s	0.2	12.7		1.1	0.2	6.7		0.9

Intersection Summary	
HCM 2010 Ctrl Delay	23.6
HCM 2010 LOS	C

Notes

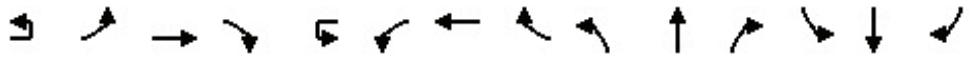


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Future Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		219	911	71	461	900	162		325	639	592		242	341	244
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		397	1045	81	511	999	180		344	917	645		264	419	292
Arrive On Green		0.12	0.32	0.32	0.15	0.34	0.34		0.19	0.26	0.26		0.15	0.21	0.21
Sat Flow, veh/h		3442	3312	258	3442	2978	536		1774	3539	1583		1774	1956	1366
Grp Volume(v), veh/h		219	487	495	461	535	527		325	639	592		242	308	277
Grp Sat Flow(s),veh/h/ln		1721	1770	1800	1721	1770	1744		1774	1770	1583		1774	1770	1552
Q Serve(g_s), s		9.3	40.1	40.1	20.3	44.4	44.5		27.9	25.2	40.0		20.8	25.5	26.4
Cycle Q Clear(g_c), s		9.3	40.1	40.1	20.3	44.4	44.5		27.9	25.2	40.0		20.8	25.5	26.4
Prop In Lane		1.00		0.14	1.00		0.31		1.00		1.00		1.00		0.88
Lane Grp Cap(c), veh/h		397	558	568	511	594	585		344	917	645		264	379	332
V/C Ratio(X)		0.55	0.87	0.87	0.90	0.90	0.90		0.95	0.70	0.92		0.92	0.81	0.83
Avail Cap(c_a), veh/h		669	688	700	669	688	678		345	917	645		345	458	402
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.5	49.9	49.9	64.6	48.8	48.8		61.4	51.7	43.3		64.8	57.7	58.1
Incr Delay (d2), s/veh		0.4	10.5	10.4	11.1	13.7	13.9		34.0	2.1	17.9		21.6	8.5	11.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.4	21.2	21.6	10.5	23.9	23.6		17.0	12.6	27.1		11.8	13.4	12.4
LnGrp Delay(d),s/veh		65.0	60.5	60.3	75.7	62.5	62.7		95.4	53.9	61.2		86.4	66.3	69.6
LnGrp LOS		E	E	E	E	E	E		F	D	E		F	E	E
Approach Vol, veh/h			1201			1523				1556				827	
Approach Delay, s/veh			61.2			66.6				65.3				73.3	
Approach LOS			E			E				E				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.3	54.4	34.3	38.3	23.5	58.2	27.4	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	22.3	42.1	29.9	28.4	11.3	46.5	22.8	42.0
Green Ext Time (p_c), s	0.6	6.6	0.0	2.4	0.3	5.4	0.2	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	66.0
HCM 2010 LOS	E

Notes

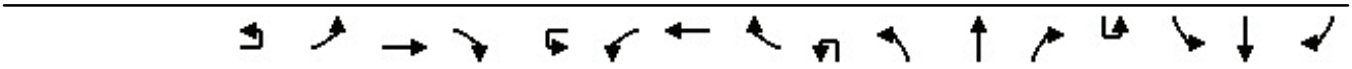


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	76	1300	140	10	180	1160	130	250	101	130	100	122	110
Future Volume (veh/h)	20	76	1300	140	10	180	1160	130	250	101	130	100	122	110
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		86	1477	129		222	1432	125	368	149	154	127	154	114
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		106	1818	158		122	1846	160	240	97	100	112	136	101
Arrive On Green		0.06	0.55	0.55		0.02	0.19	0.19	0.25	0.25	0.25	0.20	0.20	0.20
Sat Flow, veh/h		1774	3288	285		1774	3289	285	956	387	400	558	677	501
Grp Volume(v), veh/h		86	790	816		222	766	791	671	0	0	395	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1803		1774	1770	1805	1744	0	0	1737	0	0
Q Serve(g_s), s		6.7	50.5	51.7		9.6	57.6	58.4	35.1	0.0	0.0	28.1	0.0	0.0
Cycle Q Clear(g_c), s		6.7	50.5	51.7		9.6	57.6	58.4	35.1	0.0	0.0	28.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.16	0.55		0.23	0.32		0.29
Lane Grp Cap(c), veh/h		106	978	997		122	993	1013	437	0	0	349	0	0
V/C Ratio(X)		0.81	0.81	0.82		1.82	0.77	0.78	1.53	0.00	0.00	1.13	0.00	0.00
Avail Cap(c_a), veh/h		122	978	997		122	993	1013	437	0	0	349	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.48	0.48	0.48	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		65.0	25.3	25.6		68.4	48.5	48.8	52.5	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		25.3	7.1	7.5		386.4	2.9	3.0	252.0	0.0	0.0	89.4	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.0	26.5	27.7		17.8	29.2	30.1	47.5	0.0	0.0	22.1	0.0	0.0
LnGrp Delay(d),s/veh		90.3	32.4	33.0		454.8	51.4	51.8	304.4	0.0	0.0	145.3	0.0	0.0
LnGrp LOS		F	C	C		F	D	D	F			F		
Approach Vol, veh/h			1692				1779			671			395	
Approach Delay, s/veh			35.6				101.9			304.4			145.3	
Approach LOS			D				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	84.5		33.0	12.8	85.7		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	11.6	53.7		30.1	8.7	60.4		37.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	110.9
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	230	1060	300	10	110	860	351	10	300	795	80	10	275	455	220
Future Volume (veh/h)	10	230	1060	300	10	110	860	351	10	300	795	80	10	275	455	220
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		258	1191	249		126	989	314		319	846	64		316	523	196
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		399	1434	297		175	1182	375		364	1042	79		359	761	331
Arrive On Green		0.30	0.66	0.66		0.03	0.21	0.21		0.21	0.43	0.43		0.17	0.36	0.36
Sat Flow, veh/h		1774	2911	603		3442	3796	1203		3442	4819	363		3442	3539	1541
Grp Volume(v), veh/h		258	720	720		126	883	420		319	594	316		316	523	196
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1609		1721	1695	1791		1721	1770	1541
Q Serve(g_s), s		17.7	42.8	44.2		5.1	35.0	35.0		12.6	21.4	21.6		12.5	17.6	9.0
Cycle Q Clear(g_c), s		17.7	42.8	44.2		5.1	35.0	35.0		12.6	21.4	21.6		12.5	17.6	9.0
Prop In Lane		1.00		0.35		1.00		0.75		1.00		0.20		1.00		1.00
Lane Grp Cap(c), veh/h		399	872	859		175	1056	501		364	733	388		359	761	331
V/C Ratio(X)		0.65	0.83	0.84		0.72	0.84	0.84		0.88	0.81	0.81		0.88	0.69	0.59
Avail Cap(c_a), veh/h		399	872	859		383	1056	501		457	826	436		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		0.67	0.67	0.67		2.00	2.00	2.00		1.67	1.67	1.67
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.85	0.85	0.85		0.90	0.90	0.90
Uniform Delay (d), s/veh		44.2	19.6	19.9		66.6	52.0	52.0		54.3	37.2	37.3		56.9	40.9	15.4
Incr Delay (d2), s/veh		0.3	0.9	1.0		1.9	7.2	14.2		11.0	5.5	10.2		17.0	2.7	3.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		8.7	20.7	21.3		2.5	17.5	17.6		6.5	10.5	11.6		6.8	8.9	5.1
LnGrp Delay(d),s/veh		44.5	20.5	20.8		68.5	59.2	66.2		65.3	42.7	47.5		73.9	43.5	18.6
LnGrp LOS		D	C	C		E	E	E		E	D	D		E	D	B
Approach Vol, veh/h			1698				1429				1229				1035	
Approach Delay, s/veh			24.3				62.1				49.8				48.1	
Approach LOS			C				E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.5	74.3	19.2	35.0	36.8	49.0	19.0	35.2
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	7.1	46.2	14.6	19.6	19.7	37.0	14.5	23.6
Green Ext Time (p_c), s	0.1	6.3	0.3	4.7	0.2	4.0	0.1	5.9

Intersection Summary	
HCM 2010 Ctrl Delay	44.7
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Future Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1984	107	435	1468	249	126	138	644	322	200	20
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1867	100	350	2847	867	255	267	1064	293	274	27
Arrive On Green	0.03	0.76	0.76	0.20	0.56	0.56	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4930	265	1774	5085	1549	1774	1863	3066	1774	1661	166
Grp Volume(v), veh/h	21	1362	729	435	1468	249	126	138	644	322	0	220
Grp Sat Flow(s),veh/h/ln	1774	1695	1805	1774	1695	1549	1774	1863	1533	1774	0	1827
Q Serve(g_s), s	1.6	53.0	53.0	27.6	25.0	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Cycle Q Clear(g_c), s	1.6	53.0	53.0	27.6	25.0	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	28	1283	683	350	2847	867	255	267	1064	293	0	301
V/C Ratio(X)	0.74	1.06	1.07	1.24	0.52	0.29	0.49	0.52	0.61	1.10	0.00	0.73
Avail Cap(c_a), veh/h	274	1283	683	350	2847	867	255	267	1064	293	0	301
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.21	0.21	0.21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	17.0	17.0	56.2	19.1	16.2	55.3	55.5	38.5	58.4	0.0	55.5
Incr Delay (d2), s/veh	3.0	31.8	37.3	131.6	0.7	0.8	1.1	1.3	0.9	82.1	0.0	7.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	29.2	32.1	26.3	11.9	5.3	4.6	5.0	10.5	18.0	0.0	8.7
LnGrp Delay(d),s/veh	70.5	48.8	54.3	187.8	19.7	17.0	56.4	56.8	39.4	140.5	0.0	63.1
LnGrp LOS	E	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2112			2152			908			542	
Approach Delay, s/veh		50.9			53.4			44.4			109.1	
Approach LOS		D			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.0	58.5		25.0	6.6	83.9		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	3.6	27.0		25.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.7		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	56.3
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	180	7	26	120	23	82
Future Vol, veh/h	180	7	26	120	23	82
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	196	8	28	130	25	89

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	204	0	386	200
Stage 1	-	-	-	-	200	-
Stage 2	-	-	-	-	186	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1368	-	617	841
Stage 1	-	-	-	-	834	-
Stage 2	-	-	-	-	846	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1368	-	603	841
Mov Cap-2 Maneuver	-	-	-	-	603	-
Stage 1	-	-	-	-	816	-
Stage 2	-	-	-	-	846	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.4	10.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	774	-	-	1368	-
HCM Lane V/C Ratio	0.147	-	-	0.021	-
HCM Control Delay (s)	10.5	-	-	7.7	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.5	-	-	0.1	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Future Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		167	744	209		226	806	117	289	509	115	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		222	1124	316		281	1338	194	344	656	147	
Arrive On Green		0.06	0.42	0.42		0.08	0.43	0.43	0.13	0.31	0.31	
Sat Flow, veh/h		3442	2707	760		3442	3094	449	3442	2840	637	
Grp Volume(v), veh/h		167	486	467		226	461	462	289	316	308	
Grp Sat Flow(s),veh/h/ln		1721	1770	1697		1721	1770	1773	1721	1770	1708	
Q Serve(g_s), s		6.0	27.9	27.9		8.1	25.2	25.2	10.3	20.4	20.7	
Cycle Q Clear(g_c), s		6.0	27.9	27.9		8.1	25.2	25.2	10.3	20.4	20.7	
Prop In Lane		1.00		0.45		1.00		0.25	1.00		0.37	
Lane Grp Cap(c), veh/h		222	735	705		281	765	767	344	409	394	
V/C Ratio(X)		0.75	0.66	0.66		0.80	0.60	0.60	0.84	0.77	0.78	
Avail Cap(c_a), veh/h		399	735	705		399	765	767	481	479	462	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.95	0.95	0.95	
Uniform Delay (d), s/veh		57.9	29.7	29.7		56.9	27.5	27.5	53.6	40.7	40.8	
Incr Delay (d2), s/veh		1.9	4.7	4.8		5.0	3.5	3.5	6.4	5.1	5.7	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.9	14.6	14.0		4.1	13.0	13.1	5.2	10.6	10.4	
LnGrp Delay(d),s/veh		59.9	34.4	34.6		61.9	31.0	30.9	60.0	45.7	46.4	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1120				1149			913		
Approach Delay, s/veh			38.3				37.0			50.5		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.7	57.3	17.0	37.0	12.5	59.5	20.0	34.0
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	10.1	29.9	12.3	34.1	8.0	27.2	16.9	22.7
Green Ext Time (p_c), s	0.2	5.3	0.3	0.0	0.1	5.6	0.0	1.9

Intersection Summary	
HCM 2010 Ctrl Delay	98.5
HCM 2010 LOS	F

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	200	1086	150
Future Volume (veh/h)	200	1086	150
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	211	1143	126
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	220	815	90
Arrive On Green	0.12	0.25	0.25
Sat Flow, veh/h	1774	3200	352
Grp Volume(v), veh/h	211	631	638
Grp Sat Flow(s),veh/h/ln	1774	1770	1783
Q Serve(g_s), s	14.9	32.1	32.1
Cycle Q Clear(g_c), s	14.9	32.1	32.1
Prop In Lane	1.00		0.20
Lane Grp Cap(c), veh/h	220	451	454
V/C Ratio(X)	0.96	1.40	1.41
Avail Cap(c_a), veh/h	220	451	454
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.9	47.0	47.0
Incr Delay (d2), s/veh	49.2	192.8	195.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.3	39.8	40.4
LnGrp Delay(d),s/veh	104.0	239.7	242.1
LnGrp LOS	F	F	F
Approach Vol, veh/h		1480	
Approach Delay, s/veh		221.4	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	14.6
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	71	50	238	101	20	110	40	106	10	90	10
Future Vol, veh/h	0	71	50	238	101	20	110	40	106	10	90	10
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	108	76	274	116	23	121	44	116	12	111	12
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11	18.1	13.4	11.1
HCM LOS	B	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	43%	0%	66%	9%
Vol Thru, %	16%	59%	28%	82%
Vol Right, %	41%	41%	6%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	256	121	359	110
LT Vol	110	0	238	10
Through Vol	40	71	101	90
RT Vol	106	50	20	10
Lane Flow Rate	281	183	413	136
Geometry Grp	1	1	1	1
Degree of Util (X)	0.446	0.287	0.64	0.231
Departure Headway (Hd)	5.713	5.642	5.581	6.13
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	627	633	644	581
Service Time	3.786	3.723	3.643	4.218
HCM Lane V/C Ratio	0.448	0.289	0.641	0.234
HCM Control Delay	13.4	11	18.1	11.1
HCM Lane LOS	B	B	C	B
HCM 95th-tile Q	2.3	1.2	4.6	0.9



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	85	52	165	110	55	140	20	214	910	170	10	190	1110	161
Future Volume (veh/h)	85	52	165	110	55	140	20	214	910	170	10	190	1110	161
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	90	55	136	120	60	110		235	1000	145		200	1168	129
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	220	107	264	200	133	244		482	2436	352		222	1393	604
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23		0.27	0.54	0.54		0.25	0.79	0.79
Sat Flow, veh/h	1200	464	1149	1174	580	1063		1774	4480	648		1774	3539	1534
Grp Volume(v), veh/h	90	0	191	120	0	170		235	756	389		200	1168	129
Grp Sat Flow(s),veh/h/ln	1200	0	1613	1174	0	1642		1774	1695	1738		1774	1770	1534
Q Serve(g_s), s	9.8	0.0	14.5	13.9	0.0	12.5		15.6	18.3	18.4		15.3	28.9	3.0
Cycle Q Clear(g_c), s	22.2	0.0	14.5	28.4	0.0	12.5		15.6	18.3	18.4		15.3	28.9	3.0
Prop In Lane	1.00		0.71	1.00		0.65		1.00		0.37		1.00		1.00
Lane Grp Cap(c), veh/h	220	0	370	200	0	377		482	1844	945		222	1393	604
V/C Ratio(X)	0.41	0.00	0.52	0.60	0.00	0.45		0.49	0.41	0.41		0.90	0.84	0.21
Avail Cap(c_a), veh/h	374	0	577	350	0	588		482	1844	945		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		0.37	0.37	0.37		0.84	0.84	0.84
Uniform Delay (d), s/veh	55.9	0.0	47.1	59.5	0.0	46.3		42.8	18.8	18.8		51.6	12.1	9.4
Incr Delay (d2), s/veh	0.9	0.0	0.8	2.2	0.0	0.6		0.1	0.3	0.5		4.5	5.3	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.3	0.0	6.6	4.7	0.0	5.7		7.7	8.6	9.0		7.7	14.3	1.3
LnGrp Delay(d),s/veh	56.8	0.0	47.9	61.7	0.0	47.0		42.9	19.0	19.3		56.2	17.4	10.0
LnGrp LOS	E		D	E		D		D	B	B		E	B	B
Approach Vol, veh/h		281			290				1380				1497	
Approach Delay, s/veh		50.8			53.1				23.1				21.9	
Approach LOS		D			D				C				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	21.9	81.0		37.1	42.9	60.0		37.1
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	36.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	17.3	20.4		24.2	17.6	30.9		30.4
Green Ext Time (p_c), s	0.2	8.6		1.2	0.1	11.5		1.1

Intersection Summary	
HCM 2010 Ctrl Delay	27.4
HCM 2010 LOS	C

Notes

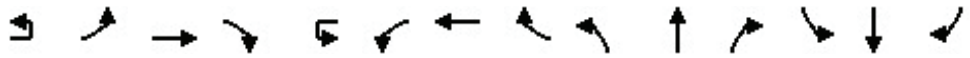


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Future Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		375	1059	64	566	987	148		191	436	412	373	802	262
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		527	1114	67	578	1022	153		210	793	604	298	713	233
Arrive On Green		0.15	0.33	0.33	0.17	0.33	0.33		0.12	0.22	0.22	0.17	0.27	0.27
Sat Flow, veh/h		3442	3383	204	3442	3071	460		1774	3539	1509	1774	2606	851
Grp Volume(v), veh/h		375	554	569	566	568	567		191	436	412	373	544	520
Grp Sat Flow(s),veh/h/ln		1721	1770	1818	1721	1770	1761		1774	1770	1509	1774	1770	1688
Q Serve(g_s), s		18.5	54.6	54.6	29.3	56.4	56.5		19.0	19.5	40.0	30.0	48.8	48.8
Cycle Q Clear(g_c), s		18.5	54.6	54.6	29.3	56.4	56.5		19.0	19.5	40.0	30.0	48.8	48.8
Prop In Lane		1.00		0.11	1.00		0.26		1.00		1.00	1.00		0.50
Lane Grp Cap(c), veh/h		527	583	599	578	589	586		210	793	604	298	484	461
V/C Ratio(X)		0.71	0.95	0.95	0.98	0.96	0.97		0.91	0.55	0.68	1.25	1.13	1.13
Avail Cap(c_a), veh/h		578	594	611	578	594	591		298	793	604	298	484	461
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		71.9	58.5	58.5	74.0	58.5	58.6		77.8	61.4	45.4	74.3	64.9	64.9
Incr Delay (d2), s/veh		2.9	25.0	24.7	32.0	28.1	28.5		19.6	0.6	2.9	138.0	79.9	81.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.0	30.7	31.5	16.5	32.2	32.2		10.5	9.6	17.5	26.1	34.5	33.1
LnGrp Delay(d),s/veh		74.8	83.5	83.2	106.0	86.6	87.1		97.4	62.0	48.3	212.4	144.8	146.1
LnGrp LOS		E	F	F	F	F	F		F	E	D	F	F	F
Approach Vol, veh/h			1498			1701				1039			1437	
Approach Delay, s/veh			81.2			93.2				63.1			162.8	
Approach LOS			F			F				E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	34.4	64.5	25.6	54.1	33.1	65.9	34.4	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	31.3	56.6	21.0	50.8	20.5	58.5	32.0	42.0
Green Ext Time (p_c), s	0.0	2.2	0.2	0.0	0.5	1.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	102.1
HCM 2010 LOS	F

Notes

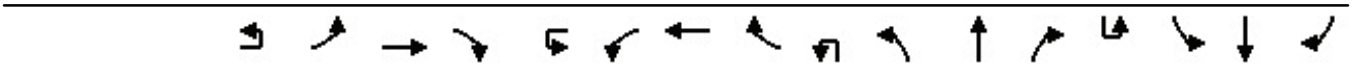


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	82	1500	180	50	150	1450	120	100	62	60	90	161	160
Future Volume (veh/h)	10	82	1500	180	50	150	1450	120	100	62	60	90	161	160
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		86	1579	145		160	1543	97	112	70	55	99	177	136
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		173	1421	129		172	1421	89	124	78	61	75	134	103
Arrive On Green		0.10	0.43	0.43		0.03	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3280	298		1774	3383	212	824	515	404	418	747	574
Grp Volume(v), veh/h		86	845	879		160	803	837	237	0	0	412	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1809		1774	1770	1825	1743	0	0	1739	0	0
Q Serve(g_s), s		6.4	60.6	60.6		12.6	58.8	58.8	18.7	0.0	0.0	25.1	0.0	0.0
Cycle Q Clear(g_c), s		6.4	60.6	60.6		12.6	58.8	58.8	18.7	0.0	0.0	25.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.12	0.47		0.23	0.24		0.33
Lane Grp Cap(c), veh/h		173	767	784		172	743	767	263	0	0	312	0	0
V/C Ratio(X)		0.50	1.10	1.12		0.93	1.08	1.09	0.90	0.00	0.00	1.32	0.00	0.00
Avail Cap(c_a), veh/h		173	767	784		172	743	767	312	0	0	312	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.09	0.09	0.09	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		59.9	39.7	39.7		67.3	60.3	60.3	58.4	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		0.8	64.2	71.0		8.4	39.1	43.4	22.7	0.0	0.0	165.3	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.2	43.3	45.7		6.6	36.9	39.0	10.7	0.0	0.0	26.4	0.0	0.0
LnGrp Delay(d),s/veh		60.7	103.9	110.7		75.7	99.4	103.7	81.1	0.0	0.0	222.7	0.0	0.0
LnGrp LOS		E	F	F		E	F	F	F			F		
Approach Vol, veh/h			1810				1800			237			412	
Approach Delay, s/veh			105.1				99.3			81.1			222.7	
Approach LOS			F				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	65.9		30.0	18.9	65.0		26.1
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	14.6	62.6		27.1	8.4	60.8		20.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	112.7
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	350	1040	280	10	330	1120	408	20	280	566	120	30	438	698	250
Future Volume (veh/h)	10	350	1040	280	10	330	1120	408	20	280	566	120	30	438	698	250
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		380	1130	231		367	1244	366		311	629	101		492	784	221
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		362	1033	210		515	1182	347		359	857	135		544	878	367
Arrive On Green		0.07	0.12	0.12		0.05	0.10	0.10		0.21	0.39	0.39		0.16	0.25	0.25
Sat Flow, veh/h		1774	2909	590		3442	3853	1132		3442	4402	695		3442	3539	1479
Grp Volume(v), veh/h		380	684	677		367	1095	515		311	482	248		492	784	221
Grp Sat Flow(s),veh/h/ln		1774	1770	1729		1721	1695	1594		1721	1695	1707		1721	1770	1479
Q Serve(g_s), s		28.6	49.7	49.7		14.7	42.9	42.9		12.2	17.0	17.5		19.7	30.0	18.5
Cycle Q Clear(g_c), s		28.6	49.7	49.7		14.7	42.9	42.9		12.2	17.0	17.5		19.7	30.0	18.5
Prop In Lane		1.00		0.34		1.00		0.71		1.00		0.41		1.00		1.00
Lane Grp Cap(c), veh/h		362	628	614		515	1040	489		359	660	332		544	878	367
V/C Ratio(X)		1.05	1.09	1.10		0.71	1.05	1.05		0.87	0.73	0.75		0.91	0.89	0.60
Avail Cap(c_a), veh/h		362	628	614		515	1040	489		556	753	379		629	878	367
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.81	0.81	0.81		0.91	0.91	0.91		0.73	0.73	0.73
Uniform Delay (d), s/veh		65.3	61.8	61.8		63.6	62.9	62.9		54.4	39.6	39.8		57.9	50.8	46.5
Incr Delay (d2), s/veh		29.1	43.2	48.6		3.2	40.2	51.8		5.2	3.7	7.8		10.9	9.0	2.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		17.0	31.9	32.1		7.3	26.0	26.0		6.0	8.2	8.8		10.2	15.7	7.8
LnGrp Delay(d),s/veh		94.4	105.0	110.4		66.8	103.1	114.7		59.6	43.3	47.6		68.9	59.9	49.2
LnGrp LOS		F	F	F		E	F	F		E	D	D		E	E	D
Approach Vol, veh/h			1741				1977				1041				1497	
Approach Delay, s/veh			104.8				99.4				49.2				61.2	
Approach LOS			F				F				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	26.3	55.0	19.0	39.6	33.0	48.3	26.5	32.1
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	14.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	16.7	51.7	14.2	32.0	30.6	44.9	21.7	19.5
Green Ext Time (p_c), s	0.0	0.0	0.4	1.5	0.0	0.0	0.4	5.3

Intersection Summary	
HCM 2010 Ctrl Delay	83.4
HCM 2010 LOS	F

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Future Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	52	1554	141	454	2100	239	114	128	293	244	200	50
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	66	1942	176	400	3139	976	173	182	1011	191	154	38
Arrive On Green	0.07	0.86	0.86	0.23	0.62	0.62	0.10	0.10	0.10	0.11	0.11	0.11
Sat Flow, veh/h	1774	4528	410	1774	5085	1581	1774	1863	3036	1774	1424	356
Grp Volume(v), veh/h	52	1086	609	454	2100	239	114	128	293	244	0	250
Grp Sat Flow(s),veh/h/ln	1774	1583	1772	1774	1695	1581	1774	1863	1518	1774	0	1780
Q Serve(g_s), s	4.0	21.7	21.8	31.6	37.7	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Cycle Q Clear(g_c), s	4.0	21.7	21.8	31.6	37.7	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	66	1358	760	400	3139	976	173	182	1011	191	0	192
V/C Ratio(X)	0.78	0.80	0.80	1.13	0.67	0.24	0.66	0.70	0.29	1.28	0.00	1.30
Avail Cap(c_a), veh/h	134	1358	760	400	3139	976	318	334	1259	191	0	192
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.64	0.64	0.64	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	64.2	7.2	7.2	54.2	17.5	12.1	60.9	61.2	35.5	62.5	0.0	62.5
Incr Delay (d2), s/veh	4.7	3.2	5.7	86.7	1.2	0.6	3.2	3.7	0.1	158.0	0.0	168.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	9.4	11.0	25.1	17.8	4.3	4.4	5.0	4.3	15.8	0.0	16.4
LnGrp Delay(d),s/veh	68.9	10.5	12.9	140.9	18.6	12.7	64.1	64.9	35.6	220.5	0.0	231.1
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1747			2793			535			494	
Approach Delay, s/veh		13.1			38.0			48.7			225.8	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	65.5		20.0	9.6	91.8		18.5
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	13.6	23.8		17.1	6.0	39.7		12.1
Green Ext Time (p_c), s	0.0	19.5		0.0	0.0	24.7		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	47.9
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	1.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	170	25	90	350	12	42
Future Vol, veh/h	170	25	90	350	12	42
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	185	27	98	380	13	46

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	212	0	775	199
Stage 1	-	-	-	-	199	-
Stage 2	-	-	-	-	576	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1358	-	366	842
Stage 1	-	-	-	-	835	-
Stage 2	-	-	-	-	562	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1358	-	332	842
Mov Cap-2 Maneuver	-	-	-	-	332	-
Stage 1	-	-	-	-	758	-
Stage 2	-	-	-	-	562	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.6	11.3
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	628	-	-	1358	-
HCM Lane V/C Ratio	0.093	-	-	0.072	-
HCM Control Delay (s)	11.3	-	-	7.9	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.3	-	-	0.2	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Future Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.97	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		221	463	160		204	591	284	251	1273	72	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		285	856	293		622	1001	481	312	1105	62	
Arrive On Green		0.08	0.33	0.33		0.18	0.44	0.44	0.12	0.43	0.43	
Sat Flow, veh/h		3442	2567	879		3442	2293	1101	3442	3400	192	
Grp Volume(v), veh/h		221	318	305		204	456	419	251	662	683	
Grp Sat Flow(s),veh/h/ln		1721	1770	1676		1721	1770	1625	1721	1770	1822	
Q Serve(g_s), s		6.8	15.8	16.0		5.6	21.1	21.2	7.7	35.1	35.1	
Cycle Q Clear(g_c), s		6.8	15.8	16.0		5.6	21.1	21.2	7.7	35.1	35.1	
Prop In Lane		1.00		0.52		1.00		0.68	1.00		0.11	
Lane Grp Cap(c), veh/h		285	590	559		622	773	709	312	575	592	
V/C Ratio(X)		0.77	0.54	0.55		0.33	0.59	0.59	0.80	1.15	1.15	
Avail Cap(c_a), veh/h		433	590	559		622	773	709	402	575	592	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.55	0.55	0.55	
Uniform Delay (d), s/veh		48.5	29.3	29.3		38.5	23.1	23.1	46.5	30.7	30.7	
Incr Delay (d2), s/veh		2.1	3.5	3.8		0.1	3.3	3.6	3.8	78.9	80.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	8.3	8.0		2.7	11.0	10.1	3.8	29.6	30.7	
LnGrp Delay(d),s/veh		50.6	32.8	33.1		38.7	26.4	26.7	50.4	109.5	110.7	
LnGrp LOS		D	C	C		D	C	C	D	F	F	
Approach Vol, veh/h			844				1079			1596		
Approach Delay, s/veh			37.6				28.8			100.7		
Approach LOS			D				C			F		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.6	41.0	14.2	40.3	13.4	52.3	14.5	40.0
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	7.6	18.0	9.7	23.6	8.8	23.2	11.6	37.1
Green Ext Time (p_c), s	0.0	3.8	0.1	2.0	0.2	3.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	67.5
HCM 2010 LOS	E

Notes



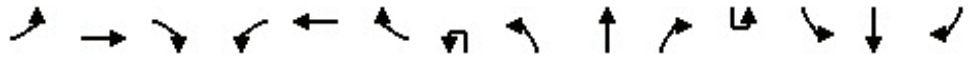
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	190	535	190
Future Volume (veh/h)	190	535	190
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	216	608	182
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	158	871	260
Arrive On Green	0.09	0.33	0.33
Sat Flow, veh/h	1774	2658	794
Grp Volume(v), veh/h	216	404	386
Grp Sat Flow(s),veh/h/ln	1774	1770	1682
Q Serve(g_s), s	9.6	21.5	21.6
Cycle Q Clear(g_c), s	9.6	21.5	21.6
Prop In Lane	1.00		0.47
Lane Grp Cap(c), veh/h	158	580	551
V/C Ratio(X)	1.37	0.70	0.70
Avail Cap(c_a), veh/h	158	580	551
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.2	31.6	31.7
Incr Delay (d2), s/veh	201.3	3.1	3.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.5	10.9	10.6
LnGrp Delay(d),s/veh	250.5	34.7	35.0
LnGrp LOS	F	C	C
Approach Vol, veh/h		1006	
Approach Delay, s/veh		81.2	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	11
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	10	80	100	78	41	10	80	50	85	20	60	10
Future Vol, veh/h	10	80	100	78	41	10	80	50	85	20	60	10
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	12	95	119	100	53	13	121	76	129	27	80	13
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.5	10.5	12.2	9.7
HCM LOS	B	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	37%	5%	60%	22%
Vol Thru, %	23%	42%	32%	67%
Vol Right, %	40%	53%	8%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	215	190	129	90
LT Vol	80	10	78	20
Through Vol	50	80	41	60
RT Vol	85	100	10	10
Lane Flow Rate	326	226	165	120
Geometry Grp	1	1	1	1
Degree of Util (X)	0.454	0.319	0.255	0.182
Departure Headway (Hd)	5.021	5.085	5.545	5.471
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	717	706	648	655
Service Time	3.05	3.118	3.579	3.508
HCM Lane V/C Ratio	0.455	0.32	0.255	0.183
HCM Control Delay	12.2	10.5	10.5	9.7
HCM Lane LOS	B	B	B	A
HCM 95th-tile Q	2.4	1.4	1	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	63	34	90	101	41	90	10	126	1145	141	10	130	614	65
Future Volume (veh/h)	63	34	90	101	41	90	10	126	1145	141	10	130	614	65
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	76	41	84	129	53	86		137	1245	115		143	675	59
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	205	106	217	215	125	202		161	2868	265		165	2157	956
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20		0.09	0.61	0.61		0.19	1.00	1.00
Sat Flow, veh/h	1233	534	1094	1245	629	1020		1774	4724	436		1774	3539	1569
Grp Volume(v), veh/h	76	0	125	129	0	139		137	893	467		143	675	59
Grp Sat Flow(s),veh/h/ln	1233	0	1627	1245	0	1649		1774	1695	1771		1774	1770	1569
Q Serve(g_s), s	8.0	0.0	9.3	14.1	0.0	10.3		10.6	19.7	19.7		10.9	0.0	0.0
Cycle Q Clear(g_c), s	18.4	0.0	9.3	23.4	0.0	10.3		10.6	19.7	19.7		10.9	0.0	0.0
Prop In Lane	1.00		0.67	1.00		0.62		1.00		0.25		1.00		1.00
Lane Grp Cap(c), veh/h	205	0	322	215	0	327		161	2058	1075		165	2157	956
V/C Ratio(X)	0.37	0.00	0.39	0.60	0.00	0.43		0.85	0.43	0.43		0.86	0.31	0.06
Avail Cap(c_a), veh/h	349	0	513	360	0	519		400	2058	1075		400	2157	956
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.98	0.98	0.98
Uniform Delay (d), s/veh	57.2	0.0	48.8	58.9	0.0	49.2		62.7	14.7	14.7		56.1	0.0	0.0
Incr Delay (d2), s/veh	0.8	0.0	0.6	2.0	0.0	0.7		4.7	0.7	1.3		5.0	0.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	0.0	4.3	5.0	0.0	4.8		5.4	9.4	10.0		5.6	0.1	0.0
LnGrp Delay(d),s/veh	58.0	0.0	49.3	60.9	0.0	49.8		67.4	15.3	15.9		61.1	0.4	0.1
LnGrp LOS	E		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		201			268				1497				877	
Approach Delay, s/veh		52.6			55.1				20.3				10.3	
Approach LOS		D			E				C				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.5	89.9		32.6	17.1	90.2		32.6
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	12.9	21.7		20.4	12.6	2.0		25.4
Green Ext Time (p_c), s	0.2	13.0		0.8	0.2	6.7		0.9

Intersection Summary	
HCM 2010 Ctrl Delay	22.8
HCM 2010 LOS	C

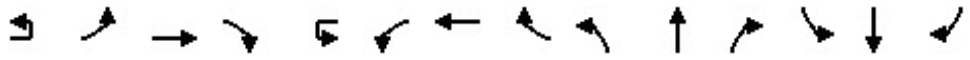
Notes

Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Future Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		219	911	71	461	900	162		325	639	592		242	341	244
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		397	1045	81	511	999	180		344	917	645		264	419	292
Arrive On Green		0.12	0.32	0.32	0.15	0.34	0.34		0.19	0.26	0.26		0.15	0.21	0.21
Sat Flow, veh/h		3442	3312	258	3442	2978	536		1774	3539	1583		1774	1956	1366
Grp Volume(v), veh/h		219	487	495	461	535	527		325	639	592		242	308	277
Grp Sat Flow(s),veh/h/ln		1721	1770	1800	1721	1770	1744		1774	1770	1583		1774	1770	1552
Q Serve(g_s), s		9.3	40.1	40.1	20.3	44.4	44.5		27.9	25.2	40.0		20.8	25.5	26.4
Cycle Q Clear(g_c), s		9.3	40.1	40.1	20.3	44.4	44.5		27.9	25.2	40.0		20.8	25.5	26.4
Prop In Lane		1.00		0.14	1.00		0.31		1.00		1.00		1.00		0.88
Lane Grp Cap(c), veh/h		397	558	568	511	594	585		344	917	645		264	379	332
V/C Ratio(X)		0.55	0.87	0.87	0.90	0.90	0.90		0.95	0.70	0.92		0.92	0.81	0.83
Avail Cap(c_a), veh/h		669	688	700	669	688	678		345	917	645		345	458	402
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.5	49.9	49.9	64.6	48.8	48.8		61.4	51.7	43.3		64.8	57.7	58.1
Incr Delay (d2), s/veh		0.4	10.5	10.4	11.1	13.7	13.9		34.0	2.1	17.9		21.6	8.5	11.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.4	21.2	21.6	10.5	23.9	23.6		17.0	12.6	27.1		11.8	13.4	12.4
LnGrp Delay(d),s/veh		65.0	60.5	60.3	75.7	62.5	62.7		95.4	53.9	61.2		86.4	66.3	69.6
LnGrp LOS		E	E	E	E	E	E		F	D	E		F	E	E
Approach Vol, veh/h			1201			1523				1556				827	
Approach Delay, s/veh			61.2			66.6				65.3				73.3	
Approach LOS			E			E				E				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.3	54.4	34.3	38.3	23.5	58.2	27.4	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I2), s	22.3	42.1	29.9	28.4	11.3	46.5	22.8	42.0
Green Ext Time (p_c), s	0.6	6.6	0.0	2.4	0.3	5.4	0.2	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	66.0
HCM 2010 LOS	E

Notes

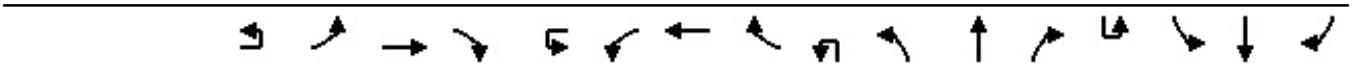


Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	76	1300	140	10	181	1170	130	250	101	130	100	121	100
Future Volume (veh/h)	20	76	1300	140	10	181	1170	130	250	101	130	100	121	100
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		86	1477	129		223	1444	125	368	149	154	127	153	102
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		106	1818	158		122	1848	159	240	97	100	116	140	93
Arrive On Green		0.06	0.55	0.55		0.02	0.19	0.19	0.25	0.25	0.25	0.20	0.20	0.20
Sat Flow, veh/h		1774	3288	285		1774	3291	283	956	387	400	579	698	465
Grp Volume(v), veh/h		86	790	816		223	772	797	671	0	0	382	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1803		1774	1770	1805	1744	0	0	1743	0	0
Q Serve(g_s), s		6.7	50.5	51.7		9.6	58.1	58.9	35.1	0.0	0.0	28.1	0.0	0.0
Cycle Q Clear(g_c), s		6.7	50.5	51.7		9.6	58.1	58.9	35.1	0.0	0.0	28.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.16	0.55		0.23	0.33		0.27
Lane Grp Cap(c), veh/h		106	978	997		122	993	1013	437	0	0	350	0	0
V/C Ratio(X)		0.81	0.81	0.82		1.83	0.78	0.79	1.53	0.00	0.00	1.09	0.00	0.00
Avail Cap(c_a), veh/h		122	978	997		122	993	1013	437	0	0	350	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.48	0.48	0.48	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		65.0	25.3	25.6		68.4	48.7	49.0	52.5	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		25.3	7.1	7.5		390.0	3.0	3.1	252.0	0.0	0.0	75.1	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.0	26.5	27.7		17.9	29.4	30.4	47.5	0.0	0.0	20.8	0.0	0.0
LnGrp Delay(d),s/veh		90.3	32.4	33.0		458.4	51.7	52.1	304.4	0.0	0.0	131.1	0.0	0.0
LnGrp LOS		F	C	C		F	D	D	F			F		
Approach Vol, veh/h			1692				1792			671			382	
Approach Delay, s/veh			35.6				102.5			304.4			131.1	
Approach LOS			D				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	84.5		33.0	12.8	85.7		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	11.6	53.7		30.1	8.7	60.9		37.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	109.8
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	230	1060	300	10	110	860	351	10	300	795	80	10	281	455	231
Future Volume (veh/h)	10	230	1060	300	10	110	860	351	10	300	795	80	10	281	455	231
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		258	1191	249		126	989	314		319	846	64		323	523	209
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		396	1429	296		175	1182	375		364	1042	79		366	767	334
Arrive On Green		0.30	0.65	0.65		0.03	0.21	0.21		0.21	0.43	0.43		0.18	0.36	0.36
Sat Flow, veh/h		1774	2911	603		3442	3796	1203		3442	4819	363		3442	3539	1541
Grp Volume(v), veh/h		258	720	720		126	883	420		319	594	316		323	523	209
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1609		1721	1695	1791		1721	1770	1541
Q Serve(g_s), s		17.8	43.1	44.5		5.1	35.0	35.0		12.6	21.4	21.6		12.8	17.5	9.7
Cycle Q Clear(g_c), s		17.8	43.1	44.5		5.1	35.0	35.0		12.6	21.4	21.6		12.8	17.5	9.7
Prop In Lane		1.00		0.35		1.00		0.75		1.00		0.20		1.00		1.00
Lane Grp Cap(c), veh/h		396	868	856		175	1056	501		364	733	388		366	767	334
V/C Ratio(X)		0.65	0.83	0.84		0.72	0.84	0.84		0.88	0.81	0.81		0.88	0.68	0.63
Avail Cap(c_a), veh/h		396	868	856		383	1056	501		457	826	436		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		0.67	0.67	0.67		2.00	2.00	2.00		1.67	1.67	1.67
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.85	0.85	0.85		1.00	1.00	1.00
Uniform Delay (d), s/veh		44.5	19.9	20.1		66.6	52.0	52.0		54.3	37.2	37.3		56.7	40.6	15.5
Incr Delay (d2), s/veh		0.3	0.9	1.0		1.9	7.2	14.2		11.0	5.5	10.2		19.3	2.8	4.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		8.7	21.0	21.3		2.5	17.5	17.6		6.5	10.5	11.6		7.0	8.8	5.5
LnGrp Delay(d),s/veh		44.8	20.8	21.1		68.5	59.2	66.2		65.3	42.7	47.5		76.0	43.4	19.9
LnGrp LOS		D	C	C		E	E	E		E	D	D		E	D	B
Approach Vol, veh/h			1698				1429				1229				1055	
Approach Delay, s/veh			24.6				62.1				49.8				48.7	
Approach LOS			C				E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.5	74.0	19.2	35.3	36.5	49.0	19.3	35.2
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	7.1	46.5	14.6	19.5	19.8	37.0	14.8	23.6
Green Ext Time (p_c), s	0.1	6.1	0.3	4.8	0.2	4.0	0.1	5.9

Intersection Summary	
HCM 2010 Ctrl Delay	44.9
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Future Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1984	107	435	1468	249	126	138	644	322	200	20
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1867	100	350	2847	867	255	267	1064	293	274	27
Arrive On Green	0.03	0.76	0.76	0.20	0.56	0.56	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4930	265	1774	5085	1549	1774	1863	3066	1774	1661	166
Grp Volume(v), veh/h	21	1362	729	435	1468	249	126	138	644	322	0	220
Grp Sat Flow(s),veh/h/ln	1774	1695	1805	1774	1695	1549	1774	1863	1533	1774	0	1827
Q Serve(g_s), s	1.6	53.0	53.0	27.6	25.0	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Cycle Q Clear(g_c), s	1.6	53.0	53.0	27.6	25.0	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	28	1283	683	350	2847	867	255	267	1064	293	0	301
V/C Ratio(X)	0.74	1.06	1.07	1.24	0.52	0.29	0.49	0.52	0.61	1.10	0.00	0.73
Avail Cap(c_a), veh/h	274	1283	683	350	2847	867	255	267	1064	293	0	301
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.21	0.21	0.21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	17.0	17.0	56.2	19.1	16.2	55.3	55.5	38.5	58.4	0.0	55.5
Incr Delay (d2), s/veh	3.0	31.8	37.3	131.6	0.7	0.8	1.1	1.3	0.9	82.1	0.0	7.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	29.2	32.1	26.3	11.9	5.3	4.6	5.0	10.5	18.0	0.0	8.7
LnGrp Delay(d),s/veh	70.5	48.8	54.3	187.8	19.7	17.0	56.4	56.8	39.4	140.5	0.0	63.1
LnGrp LOS	E	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2112			2152			908			542	
Approach Delay, s/veh		50.9			53.4			44.4			109.1	
Approach LOS		D			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.0	58.5		25.0	6.6	83.9		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	3.6	27.0		25.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.7		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	56.3
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	1.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	180	7	17	120	12	36
Future Vol, veh/h	180	7	17	120	12	36
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	196	8	18	130	13	39

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	204	0	366	200
Stage 1	-	-	-	-	200	-
Stage 2	-	-	-	-	166	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1368	-	634	841
Stage 1	-	-	-	-	834	-
Stage 2	-	-	-	-	863	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1368	-	625	841
Mov Cap-2 Maneuver	-	-	-	-	625	-
Stage 1	-	-	-	-	822	-
Stage 2	-	-	-	-	863	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1	10
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	774	-	-	1368	-
HCM Lane V/C Ratio	0.067	-	-	0.014	-
HCM Control Delay (s)	10	-	-	7.7	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.2	-	-	0	-

Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	56	0	1392	920	9
Future Vol, veh/h	0	56	0	1392	920	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	61	0	1513	1000	10

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	505	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	512	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	512	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	512	-	-
HCM Lane V/C Ratio	-	0.119	-	-
HCM Control Delay (s)	-	13	-	-
HCM Lane LOS	-	B	-	-
HCM 95th %tile Q(veh)	-	0.4	-	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Future Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		167	744	209		226	806	117	289	509	115	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		222	1124	316		281	1338	194	344	656	147	
Arrive On Green		0.06	0.42	0.42		0.08	0.43	0.43	0.13	0.31	0.31	
Sat Flow, veh/h		3442	2707	760		3442	3094	449	3442	2840	637	
Grp Volume(v), veh/h		167	486	467		226	461	462	289	316	308	
Grp Sat Flow(s),veh/h/ln		1721	1770	1697		1721	1770	1773	1721	1770	1708	
Q Serve(g_s), s		6.0	27.9	27.9		8.1	25.2	25.2	10.3	20.4	20.7	
Cycle Q Clear(g_c), s		6.0	27.9	27.9		8.1	25.2	25.2	10.3	20.4	20.7	
Prop In Lane		1.00		0.45		1.00		0.25	1.00		0.37	
Lane Grp Cap(c), veh/h		222	735	705		281	765	767	344	409	394	
V/C Ratio(X)		0.75	0.66	0.66		0.80	0.60	0.60	0.84	0.77	0.78	
Avail Cap(c_a), veh/h		399	735	705		399	765	767	481	479	462	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.95	0.95	0.95	
Uniform Delay (d), s/veh		57.9	29.7	29.7		56.9	27.5	27.5	53.6	40.7	40.8	
Incr Delay (d2), s/veh		1.9	4.7	4.8		5.0	3.5	3.5	6.4	5.1	5.7	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.9	14.6	14.0		4.1	13.0	13.1	5.2	10.6	10.4	
LnGrp Delay(d),s/veh		59.9	34.4	34.6		61.9	31.0	30.9	60.0	45.7	46.4	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1120				1149			913		
Approach Delay, s/veh			38.3				37.0			50.5		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.7	57.3	17.0	37.0	12.5	59.5	20.0	34.0
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	10.1	29.9	12.3	34.1	8.0	27.2	16.9	22.7
Green Ext Time (p_c), s	0.2	5.3	0.3	0.0	0.1	5.6	0.0	1.9

Intersection Summary	
HCM 2010 Ctrl Delay	98.5
HCM 2010 LOS	F

Notes



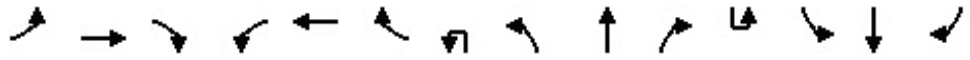
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	200	1086	150
Future Volume (veh/h)	200	1086	150
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	211	1143	126
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	220	815	90
Arrive On Green	0.12	0.25	0.25
Sat Flow, veh/h	1774	3200	352
Grp Volume(v), veh/h	211	631	638
Grp Sat Flow(s),veh/h/ln	1774	1770	1783
Q Serve(g_s), s	14.9	32.1	32.1
Cycle Q Clear(g_c), s	14.9	32.1	32.1
Prop In Lane	1.00		0.20
Lane Grp Cap(c), veh/h	220	451	454
V/C Ratio(X)	0.96	1.40	1.41
Avail Cap(c_a), veh/h	220	451	454
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.9	47.0	47.0
Incr Delay (d2), s/veh	49.2	192.8	195.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.3	39.8	40.4
LnGrp Delay(d),s/veh	104.0	239.7	242.1
LnGrp LOS	F	F	F
Approach Vol, veh/h		1480	
Approach Delay, s/veh		221.4	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	14.4
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	71	50	234	101	20	110	40	106	10	90	10
Future Vol, veh/h	0	71	50	234	101	20	110	40	106	10	90	10
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	108	76	269	116	23	121	44	116	12	111	12
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11	17.8	13.3	11.1
HCM LOS	B	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	43%	0%	66%	9%
Vol Thru, %	16%	59%	28%	82%
Vol Right, %	41%	41%	6%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	256	121	355	110
LT Vol	110	0	234	10
Through Vol	40	71	101	90
RT Vol	106	50	20	10
Lane Flow Rate	281	183	408	136
Geometry Grp	1	1	1	1
Degree of Util (X)	0.445	0.287	0.632	0.231
Departure Headway (Hd)	5.698	5.634	5.578	6.114
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	627	633	645	583
Service Time	3.77	3.711	3.64	4.2
HCM Lane V/C Ratio	0.448	0.289	0.633	0.233
HCM Control Delay	13.3	11	17.8	11.1
HCM Lane LOS	B	B	C	B
HCM 95th-tile Q	2.3	1.2	4.5	0.9



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	82	52	145	112	53	140	20	214	913	170	10	190	1122	149
Future Volume (veh/h)	82	52	145	112	53	140	20	214	913	170	10	190	1122	149
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	87	55	114	122	58	110		235	1003	145		200	1181	117
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	207	116	240	205	124	235		501	2486	359		222	1393	604
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22		0.28	0.55	0.55		0.25	0.79	0.79
Sat Flow, veh/h	1202	528	1095	1197	566	1073		1774	4483	647		1774	3539	1534
Grp Volume(v), veh/h	87	0	169	122	0	168		235	758	390		200	1181	117
Grp Sat Flow(s),veh/h/ln	1202	0	1623	1197	0	1639		1774	1695	1739		1774	1770	1534
Q Serve(g_s), s	9.5	0.0	12.7	13.9	0.0	12.5		15.3	18.0	18.0		15.3	29.9	2.7
Cycle Q Clear(g_c), s	22.0	0.0	12.7	26.6	0.0	12.5		15.3	18.0	18.0		15.3	29.9	2.7
Prop In Lane	1.00		0.67	1.00		0.65		1.00		0.37		1.00		1.00
Lane Grp Cap(c), veh/h	207	0	355	205	0	359		501	1880	964		222	1393	604
V/C Ratio(X)	0.42	0.00	0.48	0.60	0.00	0.47		0.47	0.40	0.40		0.90	0.85	0.19
Avail Cap(c_a), veh/h	374	0	581	371	0	587		501	1880	964		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.84	0.84	0.84
Uniform Delay (d), s/veh	57.2	0.0	47.7	59.2	0.0	47.6		41.5	17.9	17.9		51.6	12.2	9.3
Incr Delay (d2), s/veh	1.0	0.0	0.7	2.1	0.0	0.7		0.3	0.6	1.3		4.5	5.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	0.0	5.8	4.7	0.0	5.7		7.5	8.6	9.0		7.7	14.9	1.2
LnGrp Delay(d),s/veh	58.2	0.0	48.4	61.3	0.0	48.3		41.8	18.5	19.2		56.2	17.8	9.9
LnGrp LOS	E		D	E		D		D	B	B		E	B	A
Approach Vol, veh/h		256			290				1383				1498	
Approach Delay, s/veh		51.7			53.8				22.7				22.3	
Approach LOS		D			D				C				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	21.9	82.5		35.5	44.5	60.0		35.5
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	36.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	17.3	20.0		24.0	17.3	31.9		28.6
Green Ext Time (p_c), s	0.2	8.7		1.1	0.1	11.3		1.1

Intersection Summary	
HCM 2010 Ctrl Delay	27.3
HCM 2010 LOS	C

Notes

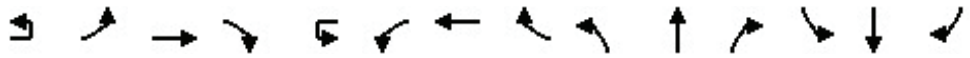


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Future Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		375	1059	64	566	987	148		191	436	412	373	802	262
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		527	1114	67	578	1022	153		210	793	604	298	713	233
Arrive On Green		0.15	0.33	0.33	0.17	0.33	0.33		0.12	0.22	0.22	0.17	0.27	0.27
Sat Flow, veh/h		3442	3383	204	3442	3071	460		1774	3539	1509	1774	2606	851
Grp Volume(v), veh/h		375	554	569	566	568	567		191	436	412	373	544	520
Grp Sat Flow(s),veh/h/ln		1721	1770	1818	1721	1770	1761		1774	1770	1509	1774	1770	1688
Q Serve(g_s), s		18.5	54.6	54.6	29.3	56.4	56.5		19.0	19.5	40.0	30.0	48.8	48.8
Cycle Q Clear(g_c), s		18.5	54.6	54.6	29.3	56.4	56.5		19.0	19.5	40.0	30.0	48.8	48.8
Prop In Lane		1.00		0.11	1.00		0.26		1.00		1.00	1.00		0.50
Lane Grp Cap(c), veh/h		527	583	599	578	589	586		210	793	604	298	484	461
V/C Ratio(X)		0.71	0.95	0.95	0.98	0.96	0.97		0.91	0.55	0.68	1.25	1.13	1.13
Avail Cap(c_a), veh/h		578	594	611	578	594	591		298	793	604	298	484	461
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		71.9	58.5	58.5	74.0	58.5	58.6		77.8	61.4	45.4	74.3	64.9	64.9
Incr Delay (d2), s/veh		2.9	25.0	24.7	32.0	28.1	28.5		19.6	0.6	2.9	138.0	79.9	81.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.0	30.7	31.5	16.5	32.2	32.2		10.5	9.6	17.5	26.1	34.5	33.1
LnGrp Delay(d),s/veh		74.8	83.5	83.2	106.0	86.6	87.1		97.4	62.0	48.3	212.4	144.8	146.1
LnGrp LOS		E	F	F	F	F	F		F	E	D	F	F	F
Approach Vol, veh/h			1498			1701				1039			1437	
Approach Delay, s/veh			81.2			93.2				63.1			162.8	
Approach LOS			F			F				E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	34.4	64.5	25.6	54.1	33.1	65.9	34.4	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	31.3	56.6	21.0	50.8	20.5	58.5	32.0	42.0
Green Ext Time (p_c), s	0.0	2.2	0.2	0.0	0.5	1.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	102.1
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	82	1500	180	50	150	1455	120	100	62	60	90	161	155
Future Volume (veh/h)	10	82	1500	180	50	150	1455	120	100	62	60	90	161	155
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		86	1579	145		160	1548	97	112	70	55	99	177	130
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		173	1421	129		172	1421	89	124	78	61	76	136	100
Arrive On Green		0.10	0.43	0.43		0.03	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3280	298		1774	3384	211	824	515	404	425	759	558
Grp Volume(v), veh/h		86	845	879		160	806	839	237	0	0	406	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1809		1774	1770	1826	1743	0	0	1742	0	0
Q Serve(g_s), s		6.4	60.6	60.6		12.6	58.8	58.8	18.7	0.0	0.0	25.1	0.0	0.0
Cycle Q Clear(g_c), s		6.4	60.6	60.6		12.6	58.8	58.8	18.7	0.0	0.0	25.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.12	0.47		0.23	0.24		0.32
Lane Grp Cap(c), veh/h		173	767	784		172	743	767	263	0	0	312	0	0
V/C Ratio(X)		0.50	1.10	1.12		0.93	1.08	1.09	0.90	0.00	0.00	1.30	0.00	0.00
Avail Cap(c_a), veh/h		173	767	784		172	743	767	312	0	0	312	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.09	0.09	0.09	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		59.9	39.7	39.7		67.3	60.3	60.3	58.4	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		0.8	64.2	71.0		8.4	40.5	44.9	22.7	0.0	0.0	156.5	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.2	43.3	45.7		6.6	37.2	39.3	10.7	0.0	0.0	25.6	0.0	0.0
LnGrp Delay(d),s/veh		60.7	103.9	110.7		75.7	100.8	105.2	81.1	0.0	0.0	214.0	0.0	0.0
LnGrp LOS		E	F	F		E	F	F	F			F		
Approach Vol, veh/h			1810				1805			237			406	
Approach Delay, s/veh			105.1				100.6			81.1			214.0	
Approach LOS			F				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	65.9		30.0	18.9	65.0		26.1
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	14.6	62.6		27.1	8.4	60.8		20.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	112.3
HCM 2010 LOS	F

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	350	1040	280	10	330	1120	408	20	280	566	120	30	441	698	255
Future Volume (veh/h)	10	350	1040	280	10	330	1120	408	20	280	566	120	30	441	698	255
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		380	1130	231		367	1244	366		311	629	101		496	784	227
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		362	1033	210		511	1177	346		359	857	135		547	882	369
Arrive On Green		0.07	0.12	0.12		0.05	0.10	0.10		0.21	0.39	0.39		0.16	0.25	0.25
Sat Flow, veh/h		1774	2909	590		3442	3852	1132		3442	4402	695		3442	3539	1479
Grp Volume(v), veh/h		380	684	677		367	1095	515		311	482	248		496	784	227
Grp Sat Flow(s),veh/h/ln		1774	1770	1729		1721	1695	1594		1721	1695	1707		1721	1770	1479
Q Serve(g_s), s		28.6	49.7	49.7		14.7	42.8	42.8		12.2	17.0	17.5		19.8	29.9	19.1
Cycle Q Clear(g_c), s		28.6	49.7	49.7		14.7	42.8	42.8		12.2	17.0	17.5		19.8	29.9	19.1
Prop In Lane		1.00		0.34		1.00		0.71		1.00		0.41		1.00		1.00
Lane Grp Cap(c), veh/h		362	628	614		511	1036	487		359	660	332		547	882	369
V/C Ratio(X)		1.05	1.09	1.10		0.72	1.06	1.06		0.87	0.73	0.75		0.91	0.89	0.62
Avail Cap(c_a), veh/h		362	628	614		511	1036	487		556	753	379		629	882	369
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.09	0.09	0.09		0.81	0.81	0.81		0.91	0.91	0.91		1.00	1.00	1.00
Uniform Delay (d), s/veh		65.3	61.8	61.8		63.7	62.9	62.9		54.4	39.6	39.8		57.8	50.7	46.6
Incr Delay (d2), s/veh		29.1	43.2	48.6		3.4	41.5	53.0		5.2	3.7	7.8		14.5	11.4	4.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		17.0	31.9	32.1		7.3	26.1	26.1		6.0	8.2	8.8		10.5	16.0	8.2
LnGrp Delay(d),s/veh		94.4	105.0	110.4		67.1	104.5	116.0		59.6	43.3	47.6		72.3	62.1	50.6
LnGrp LOS		F	F	F		E	F	F		E	D	D		E	E	D
Approach Vol, veh/h			1741				1977				1041				1507	
Approach Delay, s/veh			104.8				100.5				49.2				63.7	
Approach LOS			F				F				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	26.2	55.0	19.0	39.8	33.0	48.2	26.7	32.1
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	14.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	16.7	51.7	14.2	31.9	30.6	44.8	21.8	19.5
Green Ext Time (p_c), s	0.0	0.0	0.4	1.6	0.0	0.0	0.4	5.3

Intersection Summary	
HCM 2010 Ctrl Delay	84.3
HCM 2010 LOS	F

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Future Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	52	1554	141	454	2100	239	114	128	293	244	200	50
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	66	1942	176	400	3139	976	173	182	1011	191	154	38
Arrive On Green	0.07	0.86	0.86	0.23	0.62	0.62	0.10	0.10	0.10	0.11	0.11	0.11
Sat Flow, veh/h	1774	4528	410	1774	5085	1581	1774	1863	3036	1774	1424	356
Grp Volume(v), veh/h	52	1086	609	454	2100	239	114	128	293	244	0	250
Grp Sat Flow(s),veh/h/ln	1774	1583	1772	1774	1695	1581	1774	1863	1518	1774	0	1780
Q Serve(g_s), s	4.0	21.7	21.8	31.6	37.7	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Cycle Q Clear(g_c), s	4.0	21.7	21.8	31.6	37.7	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	66	1358	760	400	3139	976	173	182	1011	191	0	192
V/C Ratio(X)	0.78	0.80	0.80	1.13	0.67	0.24	0.66	0.70	0.29	1.28	0.00	1.30
Avail Cap(c_a), veh/h	134	1358	760	400	3139	976	318	334	1259	191	0	192
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.64	0.64	0.64	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	64.2	7.2	7.2	54.2	17.5	12.1	60.9	61.2	35.5	62.5	0.0	62.5
Incr Delay (d2), s/veh	4.7	3.2	5.7	86.7	1.2	0.6	3.2	3.7	0.1	158.0	0.0	168.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	9.4	11.0	25.1	17.8	4.3	4.4	5.0	4.3	15.8	0.0	16.4
LnGrp Delay(d),s/veh	68.9	10.5	12.9	140.9	18.6	12.7	64.1	64.9	35.6	220.5	0.0	231.1
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1747			2793			535			494	
Approach Delay, s/veh		13.1			38.0			48.7			225.8	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	65.5		20.0	9.6	91.8		18.5
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	13.6	23.8		17.1	6.0	39.7		12.1
Green Ext Time (p_c), s	0.0	19.5		0.0	0.0	24.7		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	47.9
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	1.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	170	25	58	350	6	19
Future Vol, veh/h	170	25	58	350	6	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	185	27	63	380	7	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	212	0	705	199
Stage 1	-	-	-	-	199	-
Stage 2	-	-	-	-	506	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1358	-	403	842
Stage 1	-	-	-	-	835	-
Stage 2	-	-	-	-	606	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1358	-	379	842
Mov Cap-2 Maneuver	-	-	-	-	379	-
Stage 1	-	-	-	-	786	-
Stage 2	-	-	-	-	606	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.1	10.8
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	651	-	-	1358	-
HCM Lane V/C Ratio	0.042	-	-	0.046	-
HCM Control Delay (s)	10.8	-	-	7.8	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	29	0	1357	1395	32
Future Vol, veh/h	0	29	0	1357	1395	32
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	32	0	1475	1516	35

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	776	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	340	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	340	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	16.7	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	340	-	-
HCM Lane V/C Ratio	-	0.093	-	-
HCM Control Delay (s)	-	16.7	-	-
HCM Lane LOS	-	C	-	-
HCM 95th %tile Q(veh)	-	0.3	-	-

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Future Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.97	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		221	463	160		204	591	284	251	1273	72	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		285	856	293		622	1001	481	312	1105	62	
Arrive On Green		0.08	0.33	0.33		0.18	0.44	0.44	0.12	0.43	0.43	
Sat Flow, veh/h		3442	2567	879		3442	2293	1101	3442	3400	192	
Grp Volume(v), veh/h		221	318	305		204	456	419	251	662	683	
Grp Sat Flow(s),veh/h/ln		1721	1770	1676		1721	1770	1625	1721	1770	1822	
Q Serve(g_s), s		6.8	15.8	16.0		5.6	21.1	21.2	7.7	35.1	35.1	
Cycle Q Clear(g_c), s		6.8	15.8	16.0		5.6	21.1	21.2	7.7	35.1	35.1	
Prop In Lane		1.00		0.52		1.00		0.68	1.00		0.11	
Lane Grp Cap(c), veh/h		285	590	559		622	773	709	312	575	592	
V/C Ratio(X)		0.77	0.54	0.55		0.33	0.59	0.59	0.80	1.15	1.15	
Avail Cap(c_a), veh/h		433	590	559		622	773	709	402	575	592	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.55	0.55	0.55	
Uniform Delay (d), s/veh		48.5	29.3	29.3		38.5	23.1	23.1	46.5	30.7	30.7	
Incr Delay (d2), s/veh		2.1	3.5	3.8		0.1	3.3	3.6	3.8	78.9	80.1	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	8.3	8.0		2.7	11.0	10.1	3.8	29.6	30.7	
LnGrp Delay(d),s/veh		50.6	32.8	33.1		38.7	26.4	26.7	50.4	109.5	110.7	
LnGrp LOS		D	C	C		D	C	C	D	F	F	
Approach Vol, veh/h			844				1079			1596		
Approach Delay, s/veh			37.6				28.8			100.7		
Approach LOS			D				C			F		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.6	41.0	14.2	40.3	13.4	52.3	14.5	40.0
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	8.6	* 36	12.6	32.1	13.6	31.0	9.6	* 35
Max Q Clear Time (g_c+I1), s	7.6	18.0	9.7	23.6	8.8	23.2	11.6	37.1
Green Ext Time (p_c), s	0.0	3.8	0.1	2.0	0.2	3.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	67.5
HCM 2010 LOS	E

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	190	535	190
Future Volume (veh/h)	190	535	190
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	216	608	182
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	158	871	260
Arrive On Green	0.09	0.33	0.33
Sat Flow, veh/h	1774	2658	794
Grp Volume(v), veh/h	216	404	386
Grp Sat Flow(s),veh/h/ln	1774	1770	1682
Q Serve(g_s), s	9.6	21.5	21.6
Cycle Q Clear(g_c), s	9.6	21.5	21.6
Prop In Lane	1.00		0.47
Lane Grp Cap(c), veh/h	158	580	551
V/C Ratio(X)	1.37	0.70	0.70
Avail Cap(c_a), veh/h	158	580	551
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.2	31.6	31.7
Incr Delay (d2), s/veh	201.3	3.1	3.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.5	10.9	10.6
LnGrp Delay(d),s/veh	250.5	34.7	35.0
LnGrp LOS	F	C	C
Approach Vol, veh/h		1006	
Approach Delay, s/veh		81.2	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	11
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	10	80	100	74	41	10	80	50	85	20	60	10
Future Vol, veh/h	10	80	100	74	41	10	80	50	85	20	60	10
Peak Hour Factor	0.84	0.84	0.84	0.78	0.78	0.78	0.66	0.66	0.66	0.75	0.75	0.75
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	12	95	119	95	53	13	121	76	129	27	80	13
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.5	10.4	12.1	9.7
HCM LOS	B	B	B	A

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	37%	5%	59%	22%
Vol Thru, %	23%	42%	33%	67%
Vol Right, %	40%	53%	8%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	215	190	125	90
LT Vol	80	10	74	20
Through Vol	50	80	41	60
RT Vol	85	100	10	10
Lane Flow Rate	326	226	160	120
Geometry Grp	1	1	1	1
Degree of Util (X)	0.453	0.319	0.246	0.182
Departure Headway (Hd)	5.003	5.07	5.533	5.45
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	720	708	649	658
Service Time	3.033	3.105	3.573	3.488
HCM Lane V/C Ratio	0.453	0.319	0.247	0.182
HCM Control Delay	12.1	10.5	10.4	9.7
HCM Lane LOS	B	B	B	A
HCM 95th-tile Q	2.4	1.4	1	0.7



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	64	34	89	101	41	90	10	119	1145	141	10	130	613	66
Future Volume (veh/h)	64	34	89	101	41	90	10	119	1145	141	10	130	613	66
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.97		1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	77	41	83	129	53	86		129	1245	115		143	674	61
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.83	0.83	0.83	0.78	0.78	0.78		0.92	0.92	0.92		0.91	0.91	0.91
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	204	106	215	215	124	202		153	2871	265		165	2175	964
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20		0.09	0.61	0.61		0.19	1.00	1.00
Sat Flow, veh/h	1233	538	1090	1246	629	1020		1774	4724	436		1774	3539	1569
Grp Volume(v), veh/h	77	0	124	129	0	139		129	893	467		143	674	61
Grp Sat Flow(s),veh/h/ln	1233	0	1628	1246	0	1649		1774	1695	1771		1774	1770	1569
Q Serve(g_s), s	8.2	0.0	9.3	14.0	0.0	10.3		10.0	19.6	19.7		10.9	0.0	0.0
Cycle Q Clear(g_c), s	18.5	0.0	9.3	23.3	0.0	10.3		10.0	19.6	19.7		10.9	0.0	0.0
Prop In Lane	1.00		0.67	1.00		0.62		1.00		0.25		1.00		1.00
Lane Grp Cap(c), veh/h	204	0	322	215	0	326		153	2060	1076		165	2175	964
V/C Ratio(X)	0.38	0.00	0.39	0.60	0.00	0.43		0.84	0.43	0.43		0.86	0.31	0.06
Avail Cap(c_a), veh/h	349	0	513	361	0	519		400	2060	1076		400	2175	964
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.98	0.98	0.98
Uniform Delay (d), s/veh	57.3	0.0	48.8	58.9	0.0	49.2		63.0	14.6	14.6		56.1	0.0	0.0
Incr Delay (d2), s/veh	0.9	0.0	0.6	2.0	0.0	0.7		4.7	0.7	1.3		5.0	0.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	0.0	4.2	5.0	0.0	4.8		5.1	9.4	10.0		5.6	0.1	0.0
LnGrp Delay(d),s/veh	58.2	0.0	49.3	60.9	0.0	49.9		67.7	15.3	15.9		61.1	0.4	0.1
LnGrp LOS	E		D	E		D		E	B	B		E	A	A
Approach Vol, veh/h		201			268				1489				878	
Approach Delay, s/veh		52.7			55.2				20.0				10.2	
Approach LOS		D			E				C				B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	17.5	90.0		32.6	16.5	90.9		32.6
Change Period (Y+Rc), s	4.4	4.9		4.9	4.4	4.9		4.9
Max Green Setting (Gmax), s	31.6	50.1		44.1	31.6	50.1		44.1
Max Q Clear Time (g_c+I1), s	12.3	21.7		20.5	12.0	2.0		25.3
Green Ext Time (p_c), s	0.2	13.0		0.8	0.1	6.7		0.9

Intersection Summary	
HCM 2010 Ctrl Delay	22.6
HCM 2010 LOS	C

Notes

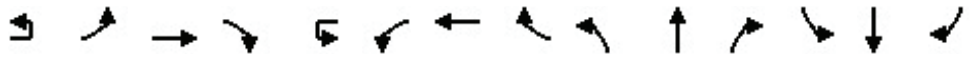


Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Future Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		219	911	71	461	900	162		325	639	592		242	341	244
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		397	1045	81	511	999	180		344	917	645		264	419	292
Arrive On Green		0.12	0.32	0.32	0.15	0.34	0.34		0.19	0.26	0.26		0.15	0.21	0.21
Sat Flow, veh/h		3442	3312	258	3442	2978	536		1774	3539	1583		1774	1956	1366
Grp Volume(v), veh/h		219	487	495	461	535	527		325	639	592		242	308	277
Grp Sat Flow(s),veh/h/ln		1721	1770	1800	1721	1770	1744		1774	1770	1583		1774	1770	1552
Q Serve(g_s), s		9.3	40.1	40.1	20.3	44.4	44.5		27.9	25.2	40.0		20.8	25.5	26.4
Cycle Q Clear(g_c), s		9.3	40.1	40.1	20.3	44.4	44.5		27.9	25.2	40.0		20.8	25.5	26.4
Prop In Lane		1.00		0.14	1.00		0.31		1.00		1.00		1.00		0.88
Lane Grp Cap(c), veh/h		397	558	568	511	594	585		344	917	645		264	379	332
V/C Ratio(X)		0.55	0.87	0.87	0.90	0.90	0.90		0.95	0.70	0.92		0.92	0.81	0.83
Avail Cap(c_a), veh/h		669	688	700	669	688	678		345	917	645		345	458	402
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		64.5	49.9	49.9	64.6	48.8	48.8		61.4	51.7	43.3		64.8	57.7	58.1
Incr Delay (d2), s/veh		0.4	10.5	10.4	11.1	13.7	13.9		34.0	2.1	17.9		21.6	8.5	11.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.4	21.2	21.6	10.5	23.9	23.6		17.0	12.6	27.1		11.8	13.4	12.4
LnGrp Delay(d),s/veh		65.0	60.5	60.3	75.7	62.5	62.7		95.4	53.9	61.2		86.4	66.3	69.6
LnGrp LOS		E	E	E	E	E	E		F	D	E		F	E	E
Approach Vol, veh/h			1201			1523				1556				827	
Approach Delay, s/veh			61.2			66.6				65.3				73.3	
Approach LOS			E			E				E				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.3	54.4	34.3	38.3	23.5	58.2	27.4	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.6	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I2), s	22.3	42.1	29.9	28.4	11.3	46.5	22.8	42.0
Green Ext Time (p_c), s	0.6	6.6	0.0	2.4	0.3	5.4	0.2	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	66.0
HCM 2010 LOS	E

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	76	1300	140	10	184	1174	130	250	101	130	100	120	96
Future Volume (veh/h)	20	76	1300	140	10	184	1174	130	250	101	130	100	120	96
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		86	1477	129		227	1449	125	368	149	154	127	152	97
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		106	1818	158		122	1848	158	240	97	100	118	142	90
Arrive On Green		0.06	0.55	0.55		0.02	0.19	0.19	0.25	0.25	0.25	0.20	0.20	0.20
Sat Flow, veh/h		1774	3288	285		1774	3293	282	956	387	400	589	706	450
Grp Volume(v), veh/h		86	790	816		227	775	799	671	0	0	376	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1803		1774	1770	1805	1744	0	0	1745	0	0
Q Serve(g_s), s		6.7	50.5	51.7		9.6	58.3	59.2	35.1	0.0	0.0	28.1	0.0	0.0
Cycle Q Clear(g_c), s		6.7	50.5	51.7		9.6	58.3	59.2	35.1	0.0	0.0	28.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.16	0.55		0.23	0.34		0.26
Lane Grp Cap(c), veh/h		106	978	997		122	993	1013	437	0	0	350	0	0
V/C Ratio(X)		0.81	0.81	0.82		1.87	0.78	0.79	1.53	0.00	0.00	1.07	0.00	0.00
Avail Cap(c_a), veh/h		122	978	997		122	993	1013	437	0	0	350	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		65.0	25.3	25.6		68.4	48.8	49.1	52.5	0.0	0.0	56.0	0.0	0.0
Incr Delay (d2), s/veh		25.3	7.1	7.5		419.3	6.0	6.2	252.0	0.0	0.0	69.0	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.0	26.5	27.7		18.9	30.3	31.4	47.5	0.0	0.0	20.2	0.0	0.0
LnGrp Delay(d),s/veh		90.3	32.4	33.0		487.8	54.8	55.3	304.4	0.0	0.0	125.0	0.0	0.0
LnGrp LOS		F	C	C		F	D	E	F			F		
Approach Vol, veh/h			1692				1801			671			376	
Approach Delay, s/veh			35.6				109.6			304.4			125.0	
Approach LOS			D				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	84.5		33.0	12.8	85.7		40.0
Change Period (Y+Rc), s	4.4	* 6.2		4.9	4.4	6.2		4.9
Max Green Setting (Gmax), s	9.6	* 48		28.1	9.6	46.8		35.1
Max Q Clear Time (g_c+I1), s	11.6	53.7		30.1	8.7	61.2		37.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	112.1
HCM 2010 LOS	F

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	230	1062	300	10	110	865	346	10	302	793	80	10	278	455	220
Future Volume (veh/h)	10	230	1062	300	10	110	865	346	10	302	793	80	10	278	455	220
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		258	1193	249		126	994	309		321	844	64		320	523	196
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		398	1432	296		175	1189	369		366	1041	79		363	762	332
Arrive On Green		0.30	0.65	0.65		0.03	0.21	0.21		0.21	0.43	0.43		0.18	0.36	0.36
Sat Flow, veh/h		1774	2912	602		3442	3818	1185		3442	4818	364		3442	3539	1541
Grp Volume(v), veh/h		258	721	721		126	883	420		321	593	315		320	523	196
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1613		1721	1695	1791		1721	1770	1541
Q Serve(g_s), s		17.7	43.0	44.5		5.1	34.9	35.0		12.6	21.4	21.6		12.7	17.6	9.0
Cycle Q Clear(g_c), s		17.7	43.0	44.5		5.1	34.9	35.0		12.6	21.4	21.6		12.7	17.6	9.0
Prop In Lane		1.00		0.35		1.00		0.73		1.00		0.20		1.00		1.00
Lane Grp Cap(c), veh/h		398	870	858		175	1056	502		366	733	387		363	762	332
V/C Ratio(X)		0.65	0.83	0.84		0.72	0.84	0.84		0.88	0.81	0.81		0.88	0.69	0.59
Avail Cap(c_a), veh/h		398	870	858		383	1056	502		457	826	436		383	786	342
HCM Platoon Ratio		1.33	1.33	1.33		0.67	0.67	0.67		2.00	2.00	2.00		1.67	1.67	1.67
Upstream Filter(I)		1.00	1.00	1.00		0.91	0.91	0.91		0.85	0.85	0.85		1.00	1.00	1.00
Uniform Delay (d), s/veh		44.3	19.8	20.0		66.6	52.0	52.0		54.2	37.2	37.3		56.8	40.8	15.4
Incr Delay (d2), s/veh		2.9	8.9	9.7		1.9	7.2	14.1		11.2	5.4	10.1		18.9	2.9	3.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.0	23.0	23.4		2.5	17.5	17.6		6.5	10.4	11.6		7.0	8.9	5.1
LnGrp Delay(d),s/veh		47.2	28.7	29.7		68.5	59.2	66.1		65.4	42.7	47.4		75.8	43.8	18.9
LnGrp LOS		D	C	C		E	E	E		E	D	D		E	D	B
Approach Vol, veh/h			1700				1429				1229				1039	
Approach Delay, s/veh			32.0				62.0				49.8				48.9	
Approach LOS			C				E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.5	74.1	19.3	35.0	36.7	49.0	19.2	35.2
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	15.6	55.7	18.6	31.1	27.6	* 44	15.6	34.1
Max Q Clear Time (g_c+I1), s	7.1	46.5	14.6	19.6	19.7	37.0	14.7	23.6
Green Ext Time (p_c), s	0.1	6.2	0.3	4.7	0.2	4.0	0.1	6.0

Intersection Summary	
HCM 2010 Ctrl Delay	47.3
HCM 2010 LOS	D

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Future Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.97	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1984	107	435	1468	249	126	138	644	322	200	20
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1867	100	350	2847	867	255	267	1064	293	274	27
Arrive On Green	0.03	0.76	0.76	0.20	0.56	0.56	0.14	0.14	0.14	0.17	0.17	0.17
Sat Flow, veh/h	1774	4930	265	1774	5085	1549	1774	1863	3066	1774	1661	166
Grp Volume(v), veh/h	21	1362	729	435	1468	249	126	138	644	322	0	220
Grp Sat Flow(s),veh/h/ln	1774	1695	1805	1774	1695	1549	1774	1863	1533	1774	0	1827
Q Serve(g_s), s	1.6	53.0	53.0	27.6	25.0	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Cycle Q Clear(g_c), s	1.6	53.0	53.0	27.6	25.0	11.8	9.2	9.6	20.1	23.1	0.0	16.0
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	28	1283	683	350	2847	867	255	267	1064	293	0	301
V/C Ratio(X)	0.74	1.06	1.07	1.24	0.52	0.29	0.49	0.52	0.61	1.10	0.00	0.73
Avail Cap(c_a), veh/h	274	1283	683	350	2847	867	255	267	1064	293	0	301
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.21	0.21	0.21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	17.0	17.0	56.2	19.1	16.2	55.3	55.5	38.5	58.4	0.0	55.5
Incr Delay (d2), s/veh	3.0	31.8	37.3	131.6	0.7	0.8	1.1	1.3	0.9	82.1	0.0	7.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	29.2	32.1	26.3	11.9	5.3	4.6	5.0	10.5	18.0	0.0	8.7
LnGrp Delay(d),s/veh	70.5	48.8	54.3	187.8	19.7	17.0	56.4	56.8	39.4	140.5	0.0	63.1
LnGrp LOS	E	F	F	F	B	B	E	E	D	F		E
Approach Vol, veh/h		2112			2152			908			542	
Approach Delay, s/veh		50.9			53.4			44.4			109.1	
Approach LOS		D			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.0	58.5		25.0	6.6	83.9		28.0
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	27.6	* 50		20.1	21.6	55.6		23.1
Max Q Clear Time (g_c+I1), s	29.6	55.0		22.1	3.6	27.0		25.1
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	17.7		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	56.3
HCM 2010 LOS	E

Notes

Intersection	
Int Delay, s/veh	1.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	180	7	13	120	7	37
Future Vol, veh/h	180	7	13	120	7	37
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	196	8	14	130	8	40

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	204	0	358	200
Stage 1	-	-	-	-	200	-
Stage 2	-	-	-	-	158	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1368	-	640	841
Stage 1	-	-	-	-	834	-
Stage 2	-	-	-	-	871	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1368	-	633	841
Mov Cap-2 Maneuver	-	-	-	-	633	-
Stage 1	-	-	-	-	825	-
Stage 2	-	-	-	-	871	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.7	9.8
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	799	-	-	1368	-
HCM Lane V/C Ratio	0.06	-	-	0.01	-
HCM Control Delay (s)	9.8	-	-	7.7	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.2	-	-	0	-

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	43	0	1384	920	6
Future Vol, veh/h	0	43	0	1384	920	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	47	0	1504	1000	7

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	504	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	513	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	513	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.7	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	513	-	-
HCM Lane V/C Ratio	-	0.091	-	-
HCM Control Delay (s)	-	12.7	-	-
HCM Lane LOS	-	B	-	-
HCM 95th %tile Q(veh)	-	0.3	-	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑			↱
Traffic Vol, veh/h	0	1542	1480	7	0	18
Future Vol, veh/h	0	1542	1480	7	0	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1676	1609	8	0	20

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	809
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	323
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	323
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	16.9
HCM LOS			C

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	323
HCM Lane V/C Ratio	-	-	-	0.061
HCM Control Delay (s)	-	-	-	16.9
HCM Lane LOS	-	-	-	C
HCM 95th %tile Q(veh)	-	-	-	0.2

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Future Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		0.95	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		167	744	209		226	806	117	289	509	115	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		222	1124	316		281	1338	194	344	656	147	
Arrive On Green		0.06	0.42	0.42		0.08	0.43	0.43	0.13	0.31	0.31	
Sat Flow, veh/h		3442	2707	760		3442	3094	449	3442	2840	637	
Grp Volume(v), veh/h		167	486	467		226	461	462	289	316	308	
Grp Sat Flow(s),veh/h/ln		1721	1770	1697		1721	1770	1773	1721	1770	1708	
Q Serve(g_s), s		6.0	27.9	27.9		8.1	25.2	25.2	10.3	20.4	20.7	
Cycle Q Clear(g_c), s		6.0	27.9	27.9		8.1	25.2	25.2	10.3	20.4	20.7	
Prop In Lane		1.00		0.45		1.00		0.25	1.00		0.37	
Lane Grp Cap(c), veh/h		222	735	705		281	765	767	344	409	394	
V/C Ratio(X)		0.75	0.66	0.66		0.80	0.60	0.60	0.84	0.77	0.78	
Avail Cap(c_a), veh/h		399	735	705		399	765	767	481	479	462	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.95	0.95	0.95	
Uniform Delay (d), s/veh		57.9	29.7	29.7		56.9	27.5	27.5	53.6	40.7	40.8	
Incr Delay (d2), s/veh		1.9	4.7	4.8		5.0	3.5	3.5	6.4	5.1	5.7	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.9	14.6	14.0		4.1	13.0	13.1	5.2	10.6	10.4	
LnGrp Delay(d),s/veh		59.9	34.4	34.6		61.9	31.0	30.9	60.0	45.7	46.4	
LnGrp LOS		E	C	C		E	C	C	E	D	D	
Approach Vol, veh/h			1120				1149			913		
Approach Delay, s/veh			38.3				37.0			50.5		
Approach LOS			D				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.7	57.3	17.0	37.0	12.5	59.5	20.0	34.0
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	14.6	43.0	17.6	32.1	14.6	43.0	15.6	34.1
Max Q Clear Time (g_c+I1), s	10.1	29.9	12.3	34.1	8.0	27.2	16.9	22.7
Green Ext Time (p_c), s	0.2	5.3	0.3	0.0	0.1	5.6	0.0	1.9

Intersection Summary	
HCM 2010 Ctrl Delay	98.5
HCM 2010 LOS	F

Notes



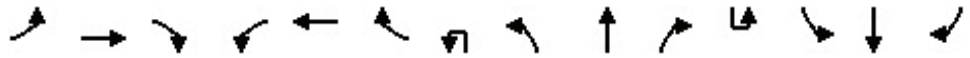
Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	200	1086	150
Future Volume (veh/h)	200	1086	150
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	211	1143	126
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	220	815	90
Arrive On Green	0.12	0.25	0.25
Sat Flow, veh/h	1774	3200	352
Grp Volume(v), veh/h	211	631	638
Grp Sat Flow(s),veh/h/ln	1774	1770	1783
Q Serve(g_s), s	14.9	32.1	32.1
Cycle Q Clear(g_c), s	14.9	32.1	32.1
Prop In Lane	1.00		0.20
Lane Grp Cap(c), veh/h	220	451	454
V/C Ratio(X)	0.96	1.40	1.41
Avail Cap(c_a), veh/h	220	451	454
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.9	47.0	47.0
Incr Delay (d2), s/veh	49.2	192.8	195.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.3	39.8	40.4
LnGrp Delay(d),s/veh	104.0	239.7	242.1
LnGrp LOS	F	F	F
Approach Vol, veh/h		1480	
Approach Delay, s/veh		221.4	
Approach LOS		F	
Timer			

Intersection	
Intersection Delay, s/veh	14.3
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	71	50	232	100	20	110	40	106	10	90	10
Future Vol, veh/h	0	71	50	232	100	20	110	40	106	10	90	10
Peak Hour Factor	0.66	0.66	0.66	0.87	0.87	0.87	0.91	0.91	0.91	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	108	76	267	115	23	121	44	116	12	111	12
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11	17.6	13.3	11
HCM LOS	B	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	43%	0%	66%	9%
Vol Thru, %	16%	59%	28%	82%
Vol Right, %	41%	41%	6%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	256	121	352	110
LT Vol	110	0	232	10
Through Vol	40	71	100	90
RT Vol	106	50	20	10
Lane Flow Rate	281	183	405	136
Geometry Grp	1	1	1	1
Degree of Util (X)	0.444	0.286	0.626	0.23
Departure Headway (Hd)	5.685	5.622	5.574	6.1
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	630	634	643	584
Service Time	3.756	3.699	3.635	4.184
HCM Lane V/C Ratio	0.446	0.289	0.63	0.233
HCM Control Delay	13.3	11	17.6	11
HCM Lane LOS	B	B	C	B
HCM 95th-tile Q	2.3	1.2	4.4	0.9



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	82	52	145	112	53	140	20	191	912	170	10	190	1122	150
Future Volume (veh/h)	82	52	145	112	53	140	20	191	912	170	10	190	1122	150
Number	7	4	14	3	8	18		5	2	12		1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)	0.99		0.97	0.99		0.97		1.00		0.99		1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h	87	55	114	122	58	110		210	1002	145		200	1181	118
Adj No. of Lanes	1	1	0	1	1	0		1	3	0		1	2	1
Peak Hour Factor	0.94	0.94	0.94	0.92	0.92	0.92		0.91	0.91	0.91		0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h	207	116	240	205	124	235		501	2485	359		222	1393	604
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22		0.28	0.55	0.55		0.25	0.79	0.79
Sat Flow, veh/h	1202	528	1095	1197	566	1073		1774	4482	647		1774	3539	1534
Grp Volume(v), veh/h	87	0	169	122	0	168		210	757	390		200	1181	118
Grp Sat Flow(s),veh/h/ln	1202	0	1623	1197	0	1639		1774	1695	1739		1774	1770	1534
Q Serve(g_s), s	9.5	0.0	12.7	13.9	0.0	12.5		13.5	17.9	18.0		15.3	29.9	2.7
Cycle Q Clear(g_c), s	22.0	0.0	12.7	26.6	0.0	12.5		13.5	17.9	18.0		15.3	29.9	2.7
Prop In Lane	1.00		0.67	1.00		0.65		1.00		0.37		1.00		1.00
Lane Grp Cap(c), veh/h	207	0	355	205	0	359		501	1880	964		222	1393	604
V/C Ratio(X)	0.42	0.00	0.48	0.60	0.00	0.47		0.42	0.40	0.40		0.90	0.85	0.20
Avail Cap(c_a), veh/h	374	0	581	371	0	587		501	1880	964		464	1393	604
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00		1.00	1.00	1.00		0.84	0.84	0.84
Uniform Delay (d), s/veh	57.2	0.0	47.7	59.2	0.0	47.6		40.9	17.9	17.9		51.6	12.2	9.3
Incr Delay (d2), s/veh	1.0	0.0	0.7	2.1	0.0	0.7		0.2	0.6	1.3		4.5	5.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	0.0	5.8	4.7	0.0	5.7		6.6	8.6	9.0		7.7	14.9	1.2
LnGrp Delay(d),s/veh	58.2	0.0	48.4	61.3	0.0	48.3		41.1	18.5	19.2		56.2	17.8	9.9
LnGrp LOS	E		D	E		D		D	B	B		E	B	A
Approach Vol, veh/h		256			290				1357				1499	
Approach Delay, s/veh		51.7			53.8				22.2				22.3	
Approach LOS		D			D				C				C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	21.9	82.5		35.5	44.5	60.0		35.5
Change Period (Y+Rc), s	4.4	4.9		4.9	4.9	* 4.9		4.9
Max Green Setting (Gmax), s	36.6	39.1		50.1	20.6	* 55		50.1
Max Q Clear Time (g_c+I1), s	17.3	20.0		24.0	15.5	31.9		28.6
Green Ext Time (p_c), s	0.2	8.7		1.1	0.1	11.3		1.1

Intersection Summary	
HCM 2010 Ctrl Delay	27.2
HCM 2010 LOS	C

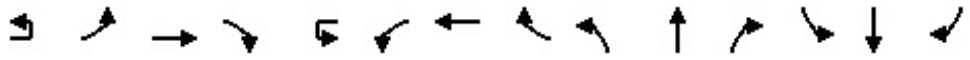
Notes

Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Future Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		375	1059	64	566	987	148		191	436	412	373	802	262
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		527	1114	67	578	1022	153		210	793	604	298	713	233
Arrive On Green		0.15	0.33	0.33	0.17	0.33	0.33		0.12	0.22	0.22	0.17	0.27	0.27
Sat Flow, veh/h		3442	3383	204	3442	3071	460		1774	3539	1509	1774	2606	851
Grp Volume(v), veh/h		375	554	569	566	568	567		191	436	412	373	544	520
Grp Sat Flow(s),veh/h/ln		1721	1770	1818	1721	1770	1761		1774	1770	1509	1774	1770	1688
Q Serve(g_s), s		18.5	54.6	54.6	29.3	56.4	56.5		19.0	19.5	40.0	30.0	48.8	48.8
Cycle Q Clear(g_c), s		18.5	54.6	54.6	29.3	56.4	56.5		19.0	19.5	40.0	30.0	48.8	48.8
Prop In Lane		1.00		0.11	1.00		0.26		1.00		1.00	1.00		0.50
Lane Grp Cap(c), veh/h		527	583	599	578	589	586		210	793	604	298	484	461
V/C Ratio(X)		0.71	0.95	0.95	0.98	0.96	0.97		0.91	0.55	0.68	1.25	1.13	1.13
Avail Cap(c_a), veh/h		578	594	611	578	594	591		298	793	604	298	484	461
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		71.9	58.5	58.5	74.0	58.5	58.6		77.8	61.4	45.4	74.3	64.9	64.9
Incr Delay (d2), s/veh		2.9	25.0	24.7	32.0	28.1	28.5		19.6	0.6	2.9	138.0	79.9	81.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.0	30.7	31.5	16.5	32.2	32.2		10.5	9.6	17.5	26.1	34.5	33.1
LnGrp Delay(d),s/veh		74.8	83.5	83.2	106.0	86.6	87.1		97.4	62.0	48.3	212.4	144.8	146.1
LnGrp LOS		E	F	F	F	F	F		F	E	D	F	F	F
Approach Vol, veh/h			1498			1701				1039			1437	
Approach Delay, s/veh			81.2			93.2				63.1			162.8	
Approach LOS			F			F				E			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	34.4	64.5	25.6	54.1	33.1	65.9	34.4	45.3
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	30.0	60.0	30.0	40.0	30.0	* 60	30.0	40.0
Max Q Clear Time (g_c+I1), s	31.3	56.6	21.0	50.8	20.5	58.5	32.0	42.0
Green Ext Time (p_c), s	0.0	2.2	0.2	0.0	0.5	1.0	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	102.1
HCM 2010 LOS	F

Notes



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	82	1500	180	50	152	1457	120	100	62	60	90	160	153
Future Volume (veh/h)	10	82	1500	180	50	152	1457	120	100	62	60	90	160	153
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1900	1863	1900	1900	1863	1900
Adj Flow Rate, veh/h		86	1579	145		162	1550	97	112	70	55	99	176	128
Adj No. of Lanes		1	2	0		1	2	0	0	1	0	0	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		173	1421	129		172	1421	89	124	78	61	77	136	99
Arrive On Green		0.10	0.43	0.43		0.03	0.14	0.14	0.15	0.15	0.15	0.18	0.18	0.18
Sat Flow, veh/h		1774	3280	298		1774	3384	211	824	515	404	428	761	553
Grp Volume(v), veh/h		86	845	879		162	807	840	237	0	0	403	0	0
Grp Sat Flow(s),veh/h/ln		1774	1770	1809		1774	1770	1826	1743	0	0	1743	0	0
Q Serve(g_s), s		6.4	60.6	60.6		12.8	58.8	58.8	18.7	0.0	0.0	25.1	0.0	0.0
Cycle Q Clear(g_c), s		6.4	60.6	60.6		12.8	58.8	58.8	18.7	0.0	0.0	25.1	0.0	0.0
Prop In Lane		1.00		0.16		1.00		0.12	0.47		0.23	0.25		0.32
Lane Grp Cap(c), veh/h		173	767	784		172	743	767	263	0	0	312	0	0
V/C Ratio(X)		0.50	1.10	1.12		0.94	1.09	1.10	0.90	0.00	0.00	1.29	0.00	0.00
Avail Cap(c_a), veh/h		173	767	784		172	743	767	312	0	0	312	0	0
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh		59.9	39.7	39.7		67.3	60.3	60.3	58.4	0.0	0.0	57.5	0.0	0.0
Incr Delay (d2), s/veh		0.8	64.2	71.0		50.6	58.6	61.9	22.7	0.0	0.0	152.4	0.0	0.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		3.2	43.3	45.7		8.7	40.9	42.9	10.7	0.0	0.0	25.3	0.0	0.0
LnGrp Delay(d),s/veh		60.7	103.9	110.7		118.0	118.9	122.2	81.1	0.0	0.0	209.9	0.0	0.0
LnGrp LOS		E	F	F		F	F	F	F			F		
Approach Vol, veh/h			1810				1809			237			403	
Approach Delay, s/veh			105.1				120.3			81.1			209.9	
Approach LOS			F				F			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	65.9		30.0	18.9	65.0		26.1
Change Period (Y+Rc), s	4.4	5.3		4.9	5.3	* 6.2		4.9
Max Green Setting (Gmax), s	13.6	56.7		25.1	10.6	* 59		25.1
Max Q Clear Time (g_c+I1), s	14.8	62.6		27.1	8.4	60.8		20.7
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	120.2
HCM 2010 LOS	F

Notes

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	350	1041	280	10	330	1137	391	20	286	560	120	30	440	698	250
Future Volume (veh/h)	10	350	1041	280	10	330	1137	391	20	286	560	120	30	440	698	250
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		380	1132	231		367	1263	347		318	622	101		494	784	221
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		362	1033	209		516	1204	330		366	852	136		545	871	364
Arrive On Green		0.07	0.12	0.12		0.05	0.10	0.10		0.21	0.39	0.39		0.16	0.25	0.25
Sat Flow, veh/h		1774	2910	590		3442	3922	1076		3442	4394	702		3442	3539	1478
Grp Volume(v), veh/h		380	685	678		367	1092	518		318	477	246		494	784	221
Grp Sat Flow(s),veh/h/ln		1774	1770	1730		1721	1695	1608		1721	1695	1706		1721	1770	1478
Q Serve(g_s), s		28.6	49.7	49.7		14.7	43.0	43.0		12.5	16.8	17.3		19.7	30.0	18.6
Cycle Q Clear(g_c), s		28.6	49.7	49.7		14.7	43.0	43.0		12.5	16.8	17.3		19.7	30.0	18.6
Prop In Lane		1.00		0.34		1.00		0.67		1.00		0.41		1.00		1.00
Lane Grp Cap(c), veh/h		362	628	614		516	1041	493		366	657	331		545	871	364
V/C Ratio(X)		1.05	1.09	1.10		0.71	1.05	1.05		0.87	0.73	0.74		0.91	0.90	0.61
Avail Cap(c_a), veh/h		362	628	614		516	1041	493		556	753	379		629	871	364
HCM Platoon Ratio		0.33	0.33	0.33		0.33	0.33	0.33		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.81	0.81	0.81		0.91	0.91	0.91		1.00	1.00	1.00
Uniform Delay (d), s/veh		65.3	61.8	61.8		63.6	62.9	62.9		54.2	39.7	39.9		57.9	51.1	46.8
Incr Delay (d2), s/veh		60.5	63.2	68.0		3.2	39.1	50.5		5.8	3.6	7.6		14.3	12.7	3.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		20.2	35.4	35.4		7.3	25.8	26.1		6.2	8.1	8.7		10.5	16.2	8.0
LnGrp Delay(d),s/veh		125.8	125.0	129.8		66.8	102.0	113.4		59.9	43.2	47.5		72.2	63.9	50.6
LnGrp LOS		F	F	F		E	F	F		E	D	D		E	E	D
Approach Vol, veh/h			1743				1977				1041				1499	
Approach Delay, s/veh			127.1				98.5				49.3				64.7	
Approach LOS			F				F				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	26.4	55.0	19.3	39.3	33.0	48.4	26.6	32.0
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	14.6	* 50	22.6	34.1	28.6	35.6	25.6	31.1
Max Q Clear Time (g_c+I1), s	16.7	51.7	14.5	32.0	30.6	45.0	21.7	19.3
Green Ext Time (p_c), s	0.0	0.0	0.4	1.5	0.0	0.0	0.4	5.3

Intersection Summary	
HCM 2010 Ctrl Delay	90.2
HCM 2010 LOS	F

Notes



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Future Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.96	1.00		0.95
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	52	1554	141	454	2100	239	114	128	293	244	200	50
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	66	1942	176	400	3139	976	173	182	1011	191	154	38
Arrive On Green	0.07	0.86	0.86	0.23	0.62	0.62	0.10	0.10	0.10	0.11	0.11	0.11
Sat Flow, veh/h	1774	4528	410	1774	5085	1581	1774	1863	3036	1774	1424	356
Grp Volume(v), veh/h	52	1086	609	454	2100	239	114	128	293	244	0	250
Grp Sat Flow(s),veh/h/ln	1774	1583	1772	1774	1695	1581	1774	1863	1518	1774	0	1780
Q Serve(g_s), s	4.0	21.7	21.8	31.6	37.7	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Cycle Q Clear(g_c), s	4.0	21.7	21.8	31.6	37.7	9.5	8.7	9.3	10.1	15.1	0.0	15.1
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	66	1358	760	400	3139	976	173	182	1011	191	0	192
V/C Ratio(X)	0.78	0.80	0.80	1.13	0.67	0.24	0.66	0.70	0.29	1.28	0.00	1.30
Avail Cap(c_a), veh/h	134	1358	760	400	3139	976	318	334	1259	191	0	192
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.64	0.64	0.64	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	64.2	7.2	7.2	54.2	17.5	12.1	60.9	61.2	35.5	62.5	0.0	62.5
Incr Delay (d2), s/veh	4.7	3.2	5.7	86.7	1.2	0.6	3.2	3.7	0.1	158.0	0.0	168.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	9.4	11.0	25.1	17.8	4.3	4.4	5.0	4.3	15.8	0.0	16.4
LnGrp Delay(d),s/veh	68.9	10.5	12.9	140.9	18.6	12.7	64.1	64.9	35.6	220.5	0.0	231.1
LnGrp LOS	E	B	B	F	B	B	E	E	D	F		F
Approach Vol, veh/h		1747			2793			535			494	
Approach Delay, s/veh		13.1			38.0			48.7			225.8	
Approach LOS		B			D			D			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.0	65.5		20.0	9.6	91.8		18.5
Change Period (Y+Rc), s	4.4	* 5.4		4.9	4.4	5.4		4.9
Max Green Setting (Gmax), s	11.6	* 49		15.1	10.6	69.6		25.1
Max Q Clear Time (g_c+I1), s	13.6	23.8		17.1	6.0	39.7		12.1
Green Ext Time (p_c), s	0.0	19.5		0.0	0.0	24.7		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	47.9
HCM 2010 LOS	D

Notes

Intersection	
Int Delay, s/veh	1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	170	25	45	350	4	19
Future Vol, veh/h	170	25	45	350	4	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	185	27	49	380	4	21

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	212	0	677	199
Stage 1	-	-	-	-	199	-
Stage 2	-	-	-	-	478	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1358	-	418	842
Stage 1	-	-	-	-	835	-
Stage 2	-	-	-	-	624	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1358	-	399	842
Mov Cap-2 Maneuver	-	-	-	-	399	-
Stage 1	-	-	-	-	797	-
Stage 2	-	-	-	-	624	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.9	10.3
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	706	-	-	1358	-
HCM Lane V/C Ratio	0.035	-	-	0.036	-
HCM Control Delay (s)	10.3	-	-	7.8	0
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	22	0	1333	1395	21
Future Vol, veh/h	0	22	0	1333	1395	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	24	0	1449	1516	23

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	-	770	-	0	-	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.94	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.32	-	-	-	-
Pot Cap-1 Maneuver	0	343	0	-	-	-
Stage 1	0	-	0	-	-	-
Stage 2	0	-	0	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	-	343	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	16.3	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	-	343	-	-
HCM Lane V/C Ratio	-	0.07	-	-
HCM Control Delay (s)	-	16.3	-	-
HCM Lane LOS	-	C	-	-
HCM 95th %tile Q(veh)	-	0.2	-	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑			↱
Traffic Vol, veh/h	0	1701	1770	23	0	9
Future Vol, veh/h	0	1701	1770	23	0	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	1849	1924	25	0	10

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	975
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.32
Pot Cap-1 Maneuver	0	-	-	-	0	251
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	251
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	19.9
HCM LOS			C

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	251
HCM Lane V/C Ratio	-	-	-	0.039
HCM Control Delay (s)	-	-	-	19.9
HCM Lane LOS	-	-	-	C
HCM 95th %tile Q(veh)	-	-	-	0.1

I-3 Vehicle Miles Traveled (VMT) Addendum

Mt. Etna - Clairemont Mesa Community Plan Amendment and Zone Change
VEHICLE MILES TRAVELED ADDENDUM

TO:	Janelle Firoozi, ESA
FROM:	Monique Chen, Dale Domingo, and Joseph Perez, Chen Ryan Associates
DATE:	August 13, 2019
RE:	Vehicle Miles Traveled Addendum for the Mt. Etna - Clairemont Mesa Community Plan Amendment and Zone Change

The purpose of this addendum to the "Mt. Etna – Clairemont Mesa Community Plan Amendment and Zone Change Transportation Impact Study (TIS)", dated May 2019, is to analyze the Vehicle Miles Traveled (VMT) impacts related to the Proposed Project. The new project proposes 404 affordable multifamily units including 150 senior units and 1,500 square feet of ancillary uses.

This report has been prepared in accordance with the County of San Diego's *Guidelines for Transportation Impact Studies in the San Diego Region, January 22, 2019*[1] (Regional TIS Guidelines), which complies with the SB 743 legislation specified by the Governor's Office of Planning (OPR). SB 743 removes traffic Level of Service (LOS) as a metric for determining significant environment impact for transportation, and replaces it with VMT as the primary measure of transportation impacts.

1.0 Project Description

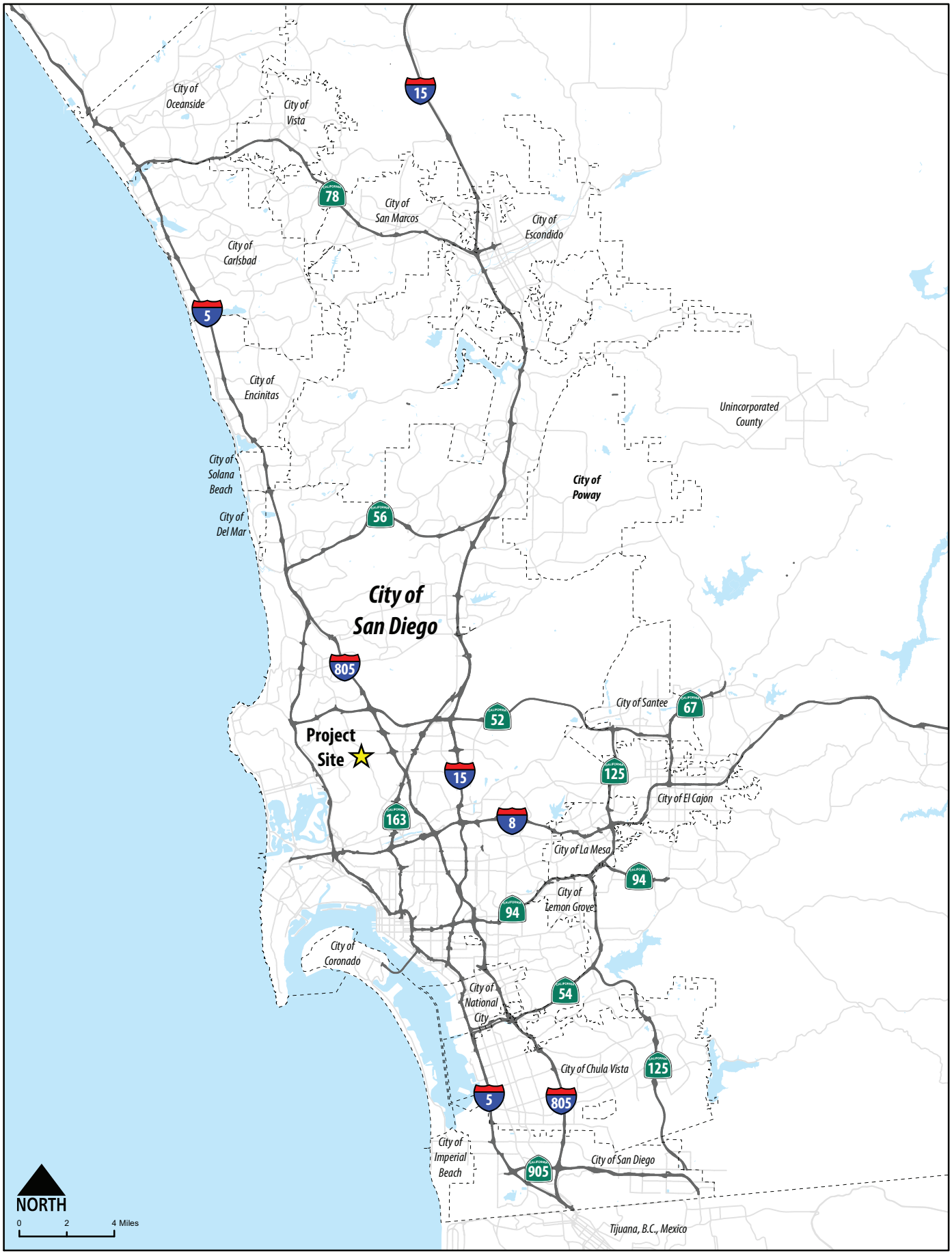
The Proposed Project would be located at 5255 Mt Etna Drive, San Diego, CA 92117 and would redevelop the vacant County's Crime Lab site into 404 affordable multifamily units, of which 150 units would be senior units. Additionally, the project would include 1,500 square feet of ground floor ancillary uses (e.g. community center, daycare, etc.) that would be used primarily by the residents. Access to the project site will be provided via one of the following driveway alternatives:

- Driveway Alternative 1 - One Driveway: Full access on Mt Etna Drive;
- Driveway Alternative 2 - Two Driveways: Full access on Mt Etna Drive and a right-in-right-out (RIRO) driveway on Genesee Avenue; and
- Driveway Alternative 3 - Three Driveways: Full access on Mt Etna Drive, RIRO driveway on Genesee Avenue, and RIRO driveway on Balboa Avenue.

Figure 1 displays the Proposed Project's regional location.

[1] Source: *Institute of Transportation Engineers San Diego Section (ITE San Diego) Transportation Capacity and Mobility Task Force SB 743 Subcommittee*

Figure 1 Proposed Project Regional Location



Clairemont Mesa Community Plan Amendment and Zone Change - Vehicle Miles Traveled Addendum

Figure 1
Project Location

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2.0 Analysis Methodology and Threshold

This chapter describes the analysis methodology that was prepared in accordance with the County of San Diego's *Guidelines for Transportation Impact Studies in the San Diego Region, January 22, 2019*[2] (Regional TIS Guidelines) as their transportation impact study guidelines and standards prior to the mandatory implementation of SB-743 (July 1, 2020). The Regional TIS Guidelines were recently developed by a committee of transportation engineers, both public and private, currently operating within the San Diego Region and were primarily based on the standards set forth in OPR's *Technical Advisory on Evaluating Transportation Impacts in CEQA (December 2018)*[3]. The intention of the guidelines is to address the new transportation analysis metrics and requirements, significance thresholds, and standards enacted by SB-743. The Regional TIS Guidelines were also developed to provide a consistent approach in the way transportation related impacts are analyzed, quantified, identified and mitigated within the San Diego Region.

SB-743 Background

On September 27, 2013, Governor Edmund G. Brown, Jr. signed SB-743 into law, starting a process that is expected to fundamentally change the way transportation impact analysis is conducted under CEQA. Within the State's CEQA Guidelines, these changes will include elimination of auto delay, level of service (LOS), and similar measurements of vehicular roadway capacity and traffic congestion as the basis for determining significant impacts.

On December 2018, the Resources Agency certified and adopted the CEQA Guidelines update package, which included the California Natural Resources Agency Guidelines for the Implementation of the California Environmental Quality Act. As a result, the California Governor's Office of Planning and Research (OPR) updated and released the Technical Advisory on Evaluating Transportation Impacts in CEQA (Technical Advisory) in December 2018. According to the updated guidelines, lead agencies will have until July 1, 2020 to comply with the updated CEQA revision.

Screening Thresholds

The Regional TIS Guidelines and OPR's Technical Advisory provide the following screening thresholds for land use projects that are presumed to have a less than significant VMT impact due to project characteristics and/or location.

1. Screening Thresholds for Small Projects: Any project that generate less than the allowable ADT threshold (1,000 ADT if consistent with the City's General Plan and 500 if inconsistent with the City's General Plan) is not required to do a VMT analysis.

2. Project's Located Near Transit: Proposed CEQA Guideline Section 15064.3, subdivision (b)(1), states that lead agencies generally should presume that certain projects (including residential, retail, and office projects, as well as projects that are a mix of these uses) proposed within ½ mile of an existing

[2] Source: *Institute of Transportation Engineers San Diego Section (ITE San Diego) Transportation Capacity and Mobility Task Force SB 743 Subcommittee*
[3] http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf

major transit stop[4] or an existing stop along a high quality transit corridor21 will have a less-than-significant impact on VMT. This presumption would not apply, however, if project-specific or location-specific information indicates that the project will still generate significant levels of VMT.

3. **Affordable Residential Development:** Project's that include 100% affordable housing in infill locations can be presumed to have a less than significant impact. Infill locations will typically have better than average access to transit and/or greater opportunities for walking and bicycling trips.

Determination of CEQA Significant Impacts

The CEQA Guidelines recommend use of automobile VMT, as the preferred CEQA transportation metric. For land use projects, the Technical Advisory reports that research has shown that automobile VMT/Capita at the project level should be fifteen percent (15%) below those of existing development.

Therefore, consistent with the CEQA Guidelines, the Regional TIS Guidelines adopted the following threshold to determine whether a project has a significant transportation related impact. For both residential and employment-based land use developments, a project is considered to have a less than significant transportation related impact if the project VMT/Capita and VMT/Employee is lower than 85% of the regional average. **Table 2** presents the thresholds of significance and specific VMT metrics.

Table 2 Measures of Significance

Land Use Type	Threshold for Determination of a Significant Transportation VMT Impact
Residential	Below 85% of regional average* Resident VMT/Capita
Commercial Employment	Below 85% of regional average* Employee VMT/Employee

*The regional average or total regional VMT is determined using the base year of the current Regional Transportation Plan (RTP) version of the SANDAG Regional Travel Demand Model.

[4] Pub. Resources Code, § 21064.3 ("'Major transit stop' means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.")

For land use development projects, the following two metrics are analyzed to determine if a project has a significant transportation related impact:

- *VMT/Capita*: Includes all vehicle-based person trips grouped and summed to the home location of individuals who are drivers or passengers on each trip. It includes both home-based and non-homebased trips. The VMT for each home is then summed for all homes in a particular census tract and divided by the population of that census tract to arrive at Resident VMT/Capita.

- *VMT/Employee*: Includes all vehicle-based person trips grouped and summed to the work location of individuals on the trip. This includes all trips, not just work-related trips. The VMT for each work location is then summed for all work locations in a particular census tract and then divided by the total number of employees of that census tract to arrive at the VMT/Employee.

VMT Methodology

The following data and metrics were obtained from the SANDAG Series 13 Activity Based Model (ABM). The ABM is a travel demand forecasting model that incorporates census data and travel surveys to inform the algorithms of the model's projections. It uses a simulated population based on existing and projected demographics to match residents to employment and forecasts the daily travel on the regional transportation network. In addition, the model is able to track the daily travel of individuals in the simulated population, including origins, destinations, travel distances and mode choices. The Series 13 ABM has four (4) forecast scenarios: 2012, 2020, 2035, and 2050; scenarios 2012 and 2050 were used in this analysis.

To calculate VMT/Capita and VMT/Employee, the Proposed Project's land uses was coded into the Traffic Analysis Zone (TAZ) in which the Proposed Project is located. A Select Zone assignment was then conducted for the Proposed Project's TAZ to track origin and destination pairings and routes to and from the Proposed Project. The VMT for each home is then summed for all homes in the TAZ and divided by the population of that TAZ to arrive at Resident VMT/Capita. Similarly, the VMT for each employee is summed within the TAZ and then divided by the number of jobs.

3.0 Transportation Impact & Mitigation

This chapter derives and analyzes the projected VMT that will be generated by the Proposed Project. This chapter also identifies if the Proposed Project related VMT would create significant project related impact, as it relates to the standards outlined in the California Environmental Quality Act (CEQA) and the Regional TIS Guidelines.

Determination of Analysis

As described in the previous section, the Regional TIS Guidelines and OPR provides a screening criterion to determine if a project is required to do a VMT analysis based on the project's land use and location. The Proposed Project comprises 100% affordable housing units, including family and senior housing, and is located in a Transit Priority Area (TPA), which indicates that the land use characteristic and location of the project falls under the VMT screening criteria, and the Project is presumed to have a less than significant impact on VMT.

The Project is located in a TPA, with high frequency transit services immediately adjacent to the site on Genesee Avenue. Bus Route # 41 is serviced along Genesee Avenue operating with 15-minute headways during peak hours and bus route #27 is serviced along Balboa Avenue operating with 30-minutes headways during peak hours. Transit stops for Bus Routes #41 and #27 are each within 400 feet of the Project site. Furthermore, the Project includes 100% affordable housing units, and according to OPR's Technical Advisory, adding affordable housing to infill locations generally improves jobs-housing match, which results in shortened commutes and reducing VMT[5,6].

Consequently, based on the "Project's Located Near Transit" and "Affordable Residential Development" screening criteria, the Proposed Project is considered to have a *less than significant* VMT impact.

VMT Impact Analysis

Though the Proposed Project is considered to have a less than significant VMT Impact as previously described, the VMT analysis presented in this section is provided to further support the less than significant impacts of the project.

To calculate the average VMT/Capita and VMT/Employee generated by the Proposed Project, the Proposed Project land uses were incorporated into the SANDAG Series 13 Year 2050 Regional Model. A Select Zone assignment was conducted for the Proposed Project Transportation Analysis Zone (TAZ) which tracked and calculated the Proposed Project VMT by user type. The results of the Select Zone assignment are provided in **Table 3**. Model output results are presented in **Appendix A.**

[5] Karner and Benner (2016) The convergence of social equity and environmental sustainability: Jobshousing fit and commute distance ("[P]olicies that advance a more equitable distribution of jobs and housing by linking the affordability of locally available housing with local wage levels are likely to be associated with reduced commuting distances").

[6] Karner and Benner (2015) Low-wage jobs-housing fit: identifying locations of affordable housing shortages

Table 3 VMT Results Impact Analysis

VMT Metric	Base Year Average Regional	Project VMT	Project % of Base Year Regional	Significant Impact?
Resident VMT/Capita	17.3	12.6	72.8%	NO

Source: SANDAG Regional Transportation Model, July 2019

Note:

[1] San Diego Base Year Regional Average, Source, SANDAG Series 13-year 2012 Model

As shown in Table 3, the Proposed Project's residential uses are anticipated to generate a VMT/Capita of 12.6, which is 72.8% of the base year regional average and is below the 85% threshold. Therefore, the Proposed Project is considered to have a l*ess than significant* impact.

ATTACHMENT A
SANDAG Vehicle Miles of Travel Report (SB 743 metrics for residential)

Vehicle Miles of Travel Report

Scenario ID **1080** **BASE YEAR (2012)**

VMT per Resident						
		Residents	**Total Trips**	**Person Miles of Travel**	**Vehicle Miles of Travel**	**VMT per Resident**
Regionwide		3,119,271	11,163,146	72,661,334	53,997,334	17.3
Jurisdiction	SAN DIEGO	1,308,024	4,676,126	26,965,973	19,688,397	15.1
CPA	Clairemont Mesa	73,799	270,253	1,507,607	1,141,178	15.5
TAZ List	N/A					

Report Generated: 05/03/19

SANDAG

Vehicle Miles of Travel Report

Scenario ID **1080** **Clairemont Mesa County Crime Lab - 2050 City of San Diego Adopted Kearny Mesa CPU - Project Site**

VMT per Resident						
		Residents	**Total Trips**	**Person Miles of Travel**	**Vehicle Miles of Travel**	**VMT per Resident**
Regionwide		4,099,980	14,665,608	86,637,127	59,962,716	14.6
Jurisdiction	San Diego	1,808,994	6,496,899	34,296,115	23,001,429	12.7
CPA	Clairemont Mesa	99,762	373,714	2,044,950	1,450,120	14.5
Project Site		1,019	3,980	18,125	12,800	**12.6**

Report Generated: 05/09/19

SANDAG

I-4 Revised Traffic Analysis Tables and Synchro Worksheets

Table 1 - Peak Hour Intersection Level of Service Results - Existing Plus Project Conditions

		No Project				With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM
1: Genesee Ave & Clairemont Mesa Blvd	Signal	42.6	D	59.9	**E**	42.90	D	61.80	**E**	42.90	D	61.80	**E**	42.90	D	61.80	**E**
2: Genesee Ave & Bannock Ave	Signal	19.7	B	10.5	B	19.80	B	10.50	B	19.80	B	10.50	B	19.80	B	10.50	B
3: Genesee Ave & Chateau Dr	Signal	11.0	B	4.7	A	11.20	B	4.70	A	11.20	B	4.70	A	11.20	B	4.70	A
4: Mt Herbert Ave & Genesee Ave	Signal	13.7	B	7.8	A	13.70	B	7.70	A	13.70	B	7.70	A	13.70	B	7.70	A
5: Genesee Ave & Derrick Dr	Signal	16.9	B	50.9	D	16.80	B	51.80	D	16.80	B	51.80	D	16.80	B	51.80	D
6: Mt Everest Blvd & Mt Etna Dr	AWSC	9.0	A	10.6	B	9.20	A	11.00	B	9.10	A	10.90	B	1.20	A	2.30	A
7: Genesee Ave & Mt Etna Dr	Signal	20.1	C	24.5	C	22.50	C	25.40	C	21.20	C	25.10	C	21.10	C	25.00	C
8: Clairemont Dr & Balboa Ave	Signal	37.7	D	60.1	**E**	38.00	D	61.70	**E**	38.00	D	61.70	**E**	38.00	D	61.70	**E**
9: Balboa Ave & Mt Everest Blvd	Signal	73.7	**E**	58.7	**E**	80.10	**F**	59.50	**E**	75.00	**E**	59.20	**E**	78.70	**E**	62.70	**E**
10: Genesee Ave & Balboa Ave	Signal	36.3	D	59.1	**E**	36.90	D	59.40	**E**	37.00	D	59.80	**E**	37.80	D	63.20	**E**
11: Balboa Ave & Shopping Center Drwy	Signal	20.9	C	15.4	B	21.10	C	15.20	B	21.10	C	15.20	B	21.10	C	15.20	B
12: Mt Alifan Dr/Mt Abernathy Ave & Balboa Ave	Signal	35.8	D	41.6	D	36.90	D	41.80	D	36.90	D	41.80	D	36.90	D	41.80	D
13: Mt Albertine Ave/Cannington Dr & Balboa Ave	Signal	10.6	B	24.0	C	10.50	B	25.60	C	10.50	B	25.60	C	10.50	B	25.60	C
14: Eckstrom Ave/Charger Blvd & Balboa Ave	Signal	43.4	D	33.3	C	44.60	D	33.30	C	44.60	D	33.30	C	44.60	D	33.30	C
15: I-805 SB Ramps & Balboa Ave	Signal	9.5	A	7.5	A	10.60	B	8.60	A	10.60	B	8.60	A	10.60	B	8.60	A
16: I-805 NB Ramps & Balboa Ave	Signal	8.8	A	9.1	A	9.80	A	10.10	B	9.80	A	10.10	B	9.80	A	10.10	B
17: Genesee Ave & Mt Alifan Dr	Signal	47.6	D	50.5	D	47.60	D	50.50	D	47.60	D	50.50	D	47.60	D	50.50	D
18: Project Driveway #1 & Mt Etna Dr	SSSC	DNE	DNE	DNE	DNE	9.90	A	10.50	B	9.50	A	10.10	B	9.30	A	9.70	A
19: Genesee Ave & Project Driveway #2	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	11.90	B	17.30	C	11.70	B	16.80	C
20: Balboa Ave & Project Driveway #3	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.70	B	16.80	C

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

AWSC = All-Way Stop Controlled.

SSSC = Side-Street Stop Controlled.

DNE = Does Not Exist.

Table 2 - Peak Hour Intersection Level of Service Results – Near-Term Base (Year 2021) Plus Project Conditions

		No Project				With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM
1: Genesee Ave & Clairemont Mesa Blvd	Signal	43.0	D	61.5	**E**	43.40	D	63.40	**E**	43.40	D	63.40	**E**	43.40	D	63.40	**E**
2: Genesee Ave & Bannock Ave	Signal	20.0	B	10.4	B	20.10	C	10.40	B	20.10	C	10.40	B	20.10	C	10.40	B
3: Genesee Ave & Chateau Dr	Signal	11.4	B	4.6	A	11.60	B	4.60	A	11.60	B	4.60	A	11.60	B	4.60	A
4: Mt Herbert Ave & Genesee Ave	Signal	13.6	B	7.7	A	13.60	B	7.70	A	13.60	B	7.70	A	13.60	B	7.70	A
5: Genesee Ave & Derrick Dr	Signal	17.0	B	51.1	D	16.90	B	52.10	D	16.90	B	52.10	D	16.90	B	52.10	D
6: Mt Everest Blvd & Mt Etna Dr	AWSC	9.4	A	10.8	B	9.60	A	11.10	B	9.50	A	11.00	B	9.50	A	11.00	B
7: Genesee Ave & Mt Etna Dr	Signal	19.7	B	24.6	C	22.10	C	25.60	C	20.80	C	25.20	C	20.70	C	25.10	C
8: Clairemont Dr & Balboa Ave	Signal	48.0	D	68.2	**E**	48.60	D	69.70	**E**	48.60	D	69.70	**E**	48.60	D	69.70	**E**
9: Balboa Ave & Mt Everest Blvd	Signal	116.5	**F**	64.7	**E**	127.70	**F**	65.50	**E**	123.40	**F**	65.20	**E**	124.50	**F**	69.50	**E**
10: Genesee Ave & Balboa Ave	Signal	41.1	D	59.2	**E**	41.80	D	60.00	**E**	41.90	D	60.10	**E**	43.30	D	64.90	**E**
11: Balboa Ave & Shopping Center Drwy	Signal	21.1	C	15.1	B	21.30	C	14.90	B	21.30	C	14.90	B	21.30	C	14.90	B
12: Mt Alifan Dr/Mt Abernathy Ave & Balboa Ave	Signal	39.1	D	44.4	D	41.10	D	44.60	D	41.10	D	44.60	D	41.10	D	44.60	D
13: Mt Albertine Ave/Cannington Dr & Balboa Ave	Signal	10.5	B	28.9	C	10.50	B	31.20	C	10.50	B	31.20	C	10.50	B	31.20	C
14: Eckstrom Ave/Charger Blvd & Balboa Ave	Signal	64.7	**E**	42.9	D	67.10	**E**	42.80	D	67.10	**E**	42.80	D	67.10	**E**	42.80	D
15: I-805 SB Ramps & Balboa Ave	Signal	12.5	B	9.0	A	14.10	B	10.40	B	14.10	B	10.40	B	14.10	B	10.40	B
16: I-805 NB Ramps & Balboa Ave	Signal	8.8	A	9.1	A	9.90	A	10.10	B	9.90	A	10.10	B	9.90	A	10.10	B
17: Genesee Ave & Mt Alifan Dr	Signal	58.6	**E**	55.2	**E**	58.60	**E**	55.20	**E**	58.60	**E**	55.20	**E**	58.60	**E**	55.20	**E**
18: Project Driveway #1 & Mt Etna Dr	SSSC	DNE	DNE	DNE	DNE	9.90	A	10.50	B	9.50	A	10.10	B	9.30	A	9.70	A
19: Genesee Ave & Project Driveway #2	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	12.10	B	17.70	C	11.90	B	17.20	C
20: Balboa Ave & Project Driveway #3	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.90	B	17.20	C

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

AWSC = All-Way Stop Controlled.

SSSC = Side-Street Stop Controlled.

DNE = Does Not Exist.

Table 3 - Peak Hour Intersection Level of Service Results –Horizon Year 2050 Plus Project Conditions

		No Project				With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM
1: Genesee Ave & Clairemont Mesa Blvd	Signal	65.9	**E**	95.9	**F**	67.50	**E**	98.50	**F**	67.50	**E**	98.50	**F**	67.50	**E**	98.50	**F**
2: Genesee Ave & Bannock Ave	Signal	28.5	C	12.7	B	28.60	C	12.80	B	28.60	C	12.80	B	28.60	C	12.80	B
3: Genesee Ave & Chateau Dr	Signal	12.4	B	5.9	A	12.90	B	5.80	A	12.90	B	5.80	A	12.90	B	5.80	A
4: Mt Herbert Ave & Genesee Ave	Signal	18.7	B	10.9	B	18.80	B	10.80	B	18.80	B	10.80	B	18.80	B	10.80	B
5: Genesee Ave & Derrick Dr	Signal	18.0	B	51.0	D	17.90	B	52.10	D	17.90	B	52.10	D	17.90	B	52.10	D
6: Mt Everest Blvd & Mt Etna Dr	AWSC	10.8	B	13.9	B	11.10	B	14.60	B	11.00	B	14.40	B	11.00	B	14.30	B
7: Genesee Ave & Mt Etna Dr	Signal	21.7	C	26.6	C	23.60	C	27.40	C	22.80	C	27.30	C	22.60	C	27.20	C
8: Clairemont Dr & Balboa Ave	Signal	65.4	**E**	100.6	**F**	66.00	**E**	102.10	**F**	66.00	**E**	102.10	**F**	66.00	**E**	102.10	**F**
9: Balboa Ave & Mt Everest Blvd	Signal	107.9	**F**	110.4	**F**	110.90	**F**	112.70	**F**	109.80	**F**	112.30	**F**	112.10	**F**	120.20	**F**
10: Genesee Ave & Balboa Ave	Signal	42.1	D	80.2	**F**	44.70	D	83.40	**F**	44.90	D	84.30	**F**	47.30	D	90.20	**F**
11: Balboa Ave & Shopping Center Drwy	Signal	24.7	C	15.3	B	24.80	C	15.10	B	24.80	C	15.10	B	24.80	C	15.10	B
12: Mt Alifan Dr/Mt Abernathy Ave & Balboa Ave	Signal	43.5	D	52.5	D	45.80	D	52.80	D	45.80	D	52.80	D	45.80	D	52.80	D
13: Mt Albertine Ave/Cannington Dr & Balboa Ave	Signal	17.2	B	33.0	C	17.30	B	35.20	D	17.30	B	35.20	D	17.30	B	35.20	D
14: Eckstrom Ave/Charger Blvd & Balboa Ave	Signal	54.3	D	48.0	D	56.30	**E**	47.90	D	56.30	**E**	47.90	D	56.30	**E**	47.90	D
15: I-805 SB Ramps & Balboa Ave	Signal	11.1	B	9.2	A	11.20	B	9.40	A	11.20	B	9.40	A	11.20	B	9.40	A
16: I-805 NB Ramps & Balboa Ave	Signal	10.5	B	10.6	B	10.50	B	10.60	B	10.50	B	10.60	B	10.50	B	10.60	B
17: Genesee Ave & Mt Alifan Dr	Signal	50.2	D	58.4	**E**	50.20	D	58.50	**E**	50.20	D	58.50	**E**	50.20	D	58.40	**E**
18: Project Driveway #1 & Mt Etna Dr	SSSC	DNE	DNE	DNE	DNE	10.50	B	11.30	B	10.00	A	10.80	B	9.80	A	10.30	B
19: Genesee Ave & Project Driveway #2	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.00	B	16.70	C	12.70	B	16.30	C
20: Balboa Ave & Project Driveway #3	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	16.90	C	19.90	C

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

AWSC = All-Way Stop Controlled.

SSSC = Side-Street Stop Controlled.

DNE = Does Not Exist.

Table 1 - Roadway Segment Level of Service Results - Existing Plus Project Conditions

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Driveway Alternative 1			With Driveway Alternative 2			With Driveway Alternative 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Genesee Avenue	Appleton Street & Clairemont Mesa Boulevard	4M	40,000	23,097	0.577	C	23,379	0.584	C	23,379	0.584	C	23,379	0.584	C
Genesee Avenue	Clairemont Mesa Boulevard & Bannock Avenue	4M	40,000	24,483	0.612	C	24,847	0.621	C	24,847	0.621	C	24,847	0.621	C
Genesee Avenue	Bannock Avenue & Chateau Drive	4M	40,000	25,244	0.631	C	25,608	0.640	C	25,608	0.640	C	25,608	0.640	C
Genesee Avenue	Chateau Drive & Mount Herbert Avenue	4M	40,000	24,958	0.624	C	25,342	0.634	C	25,342	0.634	C	25,342	0.634	C
Genesee Avenue	Mount Herbert Avenue & Derrick Drive	4M	40,000	23,242	0.581	C	23,626	0.591	C	23,626	0.591	C	23,626	0.591	C
Genesee Avenue	Derrick Drive & Mount Etna Drive	6M	50,000	25,645	0.513	B	26,189	0.524	B	26,189	0.524	B	26,189	0.524	B
Genesee Avenue	Mount Etna Drive & Balboa Avenue	5M	45,000	27,743	0.617	C	28,691	0.638	C	28,911	0.642	C	28,573	0.635	C
Genesee Avenue	Balboa Avenue & Mount Alifan Drive	5M	45,000	23,259	0.517	B	23,541	0.523	B	23,541	0.523	B	23,540	0.523	B
Genesee Avenue	Mount Alifan Drive & Genesee Court	4M	40,000	23,742	0.594	C	23,984	0.600	C	23,984	0.600	C	23,984	0.600	C
Mount Everest Boulevard	Mount Etna Drive & Balboa Avenue	2C	8,000	4,206	0.526	C	4,630	0.579	C	4,528	0.566	C	4,482	0.560	C
Mount Etna Drive	Mount Everest Boulevard & Genesee Avenue	2C	8,000	4,090	0.511	C	6,108	0.764	D	5,286	0.661	D	5,129	0.641	D
Balboa Avenue	Clairemont Drive & Mount Everest Boulevard	4M	40,000	35,014	0.875	**E**	35,398	0.885	**E**	35,398	0.885	**E**	35,398	0.885	**E**
Balboa Avenue	Mount Everest Boulevard & Genesee Avenue	4M	40,000	32,421	0.811	D	32,421	0.811	D	32,523	0.813	D	32,643	0.816	D
Balboa Avenue	Genesee Avenue & Shopping Center Driveway	6M	50,000	32,231	0.645	C	32,897	0.658	C	32,897	0.658	C	32,897	0.658	C
Balboa Avenue	Shopping Center Driveway & Mount Abernathy Avenue	6M	50,000	35,984	0.720	C	36,650	0.733	C	36,650	0.733	C	36,650	0.733	C
Balboa Avenue	Mount Abernathy Avenue & Cannington Drive	6M	50,000	47,147	0.943	**E**	47,793	0.956	**E**	47,793	0.956	**E**	47,793	0.956	**E**
Balboa Avenue	Cannington Drive & Charger Boulevard	6M	50,000	49,421	0.988	**E**	50,067	1.001	**F**	50,067	1.001	**F**	50,067	1.001	**F**
Balboa Avenue	Charger Boulevard & I-805 Southbound Ramps	6M	50,000	61,846	1.237	**F**	62,492	1.250	**F**	62,492	1.250	**F**	62,492	1.250	**F**
Balboa Avenue	I-805 Southbound & I-805 Northbound Ramps	8P	80,000	49,153	0.614	B	49,638	0.620	B	49,638	0.620	B	49,638	0.620	B
Balboa Avenue	I-805 Northbound Ramps and Ruffer Street	6M	50,000	51,228	1.025	**F**	51,550	1.031	**F**	51,550	1.031	**F**	51,550	1.031	**F**

Notes:

Bold letter indicates unacceptable LOS E or F.

ADT = Average Daily Traffic.

V/C = Volume to Capacity Ratio.

LOS = Level of Service.

Table 2 - Roadway Segment Level of Service Results – Near-Term Base (Year 2021) Plus Project Conditions

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Driveway Alternative 1			With Driveway Alternative 2			With Driveway Alternative 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Genesee Avenue	Appleton Street & Clairemont Mesa Boulevard	4M	40,000	23,230	0.581	C	23,512	0.588	C	23,512	0.588	C	23,512	0.588	C
Genesee Avenue	Clairemont Mesa Boulevard & Bannock Avenue	4M	40,000	24,700	0.618	C	25,064	0.627	C	25,064	0.627	C	25,064	0.627	C
Genesee Avenue	Bannock Avenue & Chateau Drive	4M	40,000	25,460	0.637	C	25,824	0.646	C	25,824	0.646	C	25,824	0.646	C
Genesee Avenue	Chateau Drive & Mount Herbert Avenue	4M	40,000	25,180	0.630	C	25,564	0.639	C	25,564	0.639	C	25,564	0.639	C
Genesee Avenue	Mount Herbert Avenue & Derrick Drive	4M	40,000	23,460	0.587	C	23,844	0.596	C	23,844	0.596	C	23,844	0.596	C
Genesee Avenue	Derrick Drive & Mount Etna Drive	6M	50,000	25,880	0.518	B	26,424	0.528	B	26,424	0.528	B	26,424	0.528	B
Genesee Avenue	Mount Etna Drive & Balboa Avenue	5M	45,000	28,060	0.624	C	29,008	0.645	C	29,228	0.650	C	28,890	0.642	C
Genesee Avenue	Balboa Avenue & Mount Alifan Drive	5M	45,000	24,110	0.536	B	24,392	0.542	B	24,392	0.542	B	24,391	0.542	B
Genesee Avenue	Mount Alifan Drive & Genesee Court	4M	40,000	23,940	0.599	C	24,182	0.605	C	24,182	0.605	C	24,182	0.605	C
Mount Everest Boulevard	Mount Etna Drive & Balboa Avenue	2C	8,000	4,340	0.543	C	4,764	0.596	C	4,662	0.583	C	4,616	0.577	C
Mount Etna Drive	Mount Everest Boulevard & Genesee Avenue	2C	8,000	4,090	0.511	C	6,108	0.764	D	5,286	0.661	D	5,129	0.641	D
Balboa Avenue	Clairemont Drive & Mount Everest Boulevard	4M	40,000	36,120	0.903	**E**	36,504	0.913	**E**	36,504	0.913	**E**	36,504	0.913	**E**
Balboa Avenue	Mount Everest Boulevard & Genesee Avenue	4M	40,000	33,020	0.826	D	33,020	0.826	D	33,122	0.828	D	33,242	0.831	D
Balboa Avenue	Genesee Avenue & Shopping Center Driveway	6M	50,000	33,460	0.669	C	34,126	0.683	C	34,126	0.683	C	34,126	0.683	C
Balboa Avenue	Shopping Center Driveway & Mount Abernathy Avenue	6M	50,000	36,870	0.737	C	37,536	0.751	C	37,536	0.751	C	37,536	0.751	C
Balboa Avenue	Mount Abernathy Avenue & Cannington Drive	6M	50,000	48,610	0.972	**E**	49,256	0.985	**E**	49,256	0.985	**E**	49,256	0.985	**E**
Balboa Avenue	Cannington Drive & Charger Boulevard	6M	50,000	50,930	1.019	**F**	51,576	1.032	**F**	51,576	1.032	**F**	51,576	1.032	**F**
Balboa Avenue	Charger Boulevard & I-805 Southbound Ramps	6M	50,000	63,430	1.269	**F**	64,076	1.282	**F**	64,076	1.282	**F**	64,076	1.282	**F**
Balboa Avenue	I-805 Southbound & I-805 Northbound Ramps	8P	80,000	50,180	.627	C	50,665	0.633	C	50,665	0.633	C	50,665	0.633	C
Balboa Avenue	I-805 Northbound Ramps and Ruffer Street	6M	50,000	51,430	1.029	**F**	51,752	1.035	**F**	51,752	1.035	**F**	51,752	1.035	**F**

Notes:

Bold letter indicates unacceptable LOS E or F.

V/C = Volume to Capacity Ratio.

ADT = Average Daily Traffic.

LOS = Level of Service.

Table 3 - Roadway Segment Level of Service Results – Horizon Year 2050 Plus Project Conditions

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Driveway Alternative 1			With Driveway Alternative 2			With Driveway Alternative 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Genesee Avenue	Appleton Street & Clairemont Mesa Boulevard	4M	40,000	31,900	0.798	D	32,182	0.805	D	32,182	0.805	D	32,182	0.805	D
Genesee Avenue	Clairemont Mesa Boulevard & Bannock Avenue	4M	40,000	30,000	0.750	C	30,364	0.759	D	30,364	0.759	D	30,364	0.759	D
Genesee Avenue	Bannock Avenue & Chateau Drive	4M	40,000	27,800	0.695	C	28,164	0.704	C	28,164	0.704	C	28,164	0.704	C
Genesee Avenue	Chateau Drive & Mount Herbert Avenue	4M	40,000	25,500	0.638	C	25,884	0.647	C	25,884	0.647	C	25,884	0.647	C
Genesee Avenue	Mount Herbert Avenue & Derrick Drive	4M	40,000	20,900	0.523	B	21,284	0.532	C	21,284	0.532	C	21,284	0.532	C
Genesee Avenue	Derrick Drive & Mount Etna Drive	6M	50,000	23,900	0.478	B	24,444	0.489	B	24,444	0.489	B	24,444	0.489	B
Genesee Avenue	Mount Etna Drive & Balboa Avenue	5M	45,000	25,000	0.556	C	25,948	0.577	C	26,168	0.582	C	25,830	0.574	C
Genesee Avenue	Balboa Avenue & Mount Alifan Drive	5M	45,000	22,100	0.491	B	22,382	0.497	B	22,382	0.497	B	22,381	0.497	B
Genesee Avenue	Mount Alifan Drive & Genesee Court	4M	40,000	21,900	0.548	C	22,142	0.554	C	22,142	0.554	C	22,142	0.554	C
Mount Everest Boulevard	Mount Etna Drive & Balboa Avenue	2C	8,000	5,900	0.738	D	6,324	0.791	D	6,222	0.778	D	6,176	0.772	D
Mount Etna Drive	Mount Everest Boulevard & Genesee Avenue	2C	8,000	5,100	0.638	D	7,118	0.890	**E**	6,296	0.787	D	6,139	0.767	D
Balboa Avenue	Clairemont Drive & Mount Everest Boulevard	4M	40,000	33,800	0.845	D	34,184	0.855	D	34,184	0.855	D	34,184	0.855	D
Balboa Avenue	Mount Everest Boulevard & Genesee Avenue	4M	40,000	35,200	0.880	**E**	35,200	0.880	**E**	35,302	0.883	**E**	35,422	0.886	**E**
Balboa Avenue	Genesee Avenue & Shopping Center Driveway	6M	50,000	43,500	0.870	D	44,166	0.883	D	44,166	0.883	D	44,166	0.883	D
Balboa Avenue	Shopping Center Driveway & Mount Abernathy Avenue	6M	50,000	33,100	0.662	C	33,766	0.675	C	33,766	0.675	C	33,766	0.675	C
Balboa Avenue	Mount Abernathy Avenue & Cannington Drive	6M	50,000	47,400	0.948	**E**	48,046	0.961	**E**	48,046	0.961	**E**	48,046	0.961	**E**
Balboa Avenue	Cannington Drive & Charger Boulevard	6M	50,000	47,500	0.950	**E**	48,146	0.963	**E**	48,146	0.963	**E**	48,146	0.963	**E**
Balboa Avenue	Charger Boulevard & I-805 Southbound Ramps	6M	50,000	65,200	1.304	**F**	65,846	1.317	**F**	65,846	1.317	**F**	65,846	1.317	**F**
Balboa Avenue	I-805 Southbound & I-805 Northbound Ramps	8P	80,000	57,400	0.718	C	57,885	0.724	C	57,885	0.724	C	57,885	0.724	C
Balboa Avenue	I-805 Northbound Ramps and Ruffer Street	6M	50,000	62,400	1.248	**F**	62,722	1.254	**F**	62,722	1.254	**F**	62,722	1.254	**F**

Notes:

Bold letter indicates unacceptable LOS E or F.

ADT = Average Daily Traffic.

V/C = Volume to Capacity Ratio.

LOS = Level of Service.

Table 1 - Peak Hour Intersection Level of Service Results - Existing Plus Project Conditions with Mitigation

		No Project		With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?
9. Mt. Everest Boulevard & Balboa Avenue	Signal	73.7 / 58.7	**E / E**	37.5 / 29.5	D / C	-36.2 / -29.2	Y	Not Impacted				36.5 / 28.9	D / C	-37.2 / -29.8	Y
10. Genesee Avenue & Balboa Avenue	Signal	36.3 / 59.1	D / **E**	Not Impacted				Not Impacted				43.0 / 53.1	D / D	6.7 / -6.0	Y

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

LOS = Level of Service.

M = Mitigated.

Table 2 - Peak Hour Intersection Level of Service Results – Near-Term Plus Project Conditions with Mitigation

		No Project		With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?
9. Mt. Everest Boulevard & Balboa Avenue	Signal	116.5 / 64.7	**F / E**	59.9 / 27.0	**E** / C	-56.6 / -37.7	Y	58.3 / 26.6	**E** / C	-58.2 / -38.1		57.6 / 26.4	**E** / C	-11.6 / -32.3	Y
10. Genesee Avenue & Balboa Avenue	Signal	41.1 / 59.2	D / **E**	Not Impacted				Not Impacted				42.0 / 57.0	D / **E**	0.9 / -2.2	Y
14. Charger Boulevard & Balboa Avenue	Signal	64.7 / 42.9	**E** / D	53.3 / 50.6	D / D	-11.4 / 7.7	Y	53.3 / 50.6	D / D	-11.4 / 7.7	Y	53.2 / 50.5	D / D	-11.5 / 7.6	Y

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

LOS = Level of Service.

M = Mitigated.

Table 3 - Peak Hour Intersection Level of Service Results – Horizon Year 2050 Plus Project Conditions with Mitigation

		No Project		With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	65.9 / 95.9	**E / F**	45.6 / 60.0	D / **E**	-20.3 / -35.9	Y	45.6 / 60.0	D / **E**	-20.3 / -35.9	Y	45.6 / 60.0	D / **E**	-20.3 / -35.9	Y
8. Clairemont Drive & Balboa Avenue	Signal	65.4 / 100.6	**E / F**	63.9 / 96.5	**E / F**	-1.5 / -4.1	Y	63.9 / 96.5	**E / F**	-1.5 / -4.1	Y	63.9 / 96.5	**E / F**	-1.5 / -4.1	Y
9. Mt Everest Boulevard & Balboa Avenue	Signal	107.9 / 110.4	**F /F**	89.6 / 53.6	**F** / D	-18.3 / -56.8	Y	86.2 / 52.3	**F** / D	-21.7 / -58.1	Y	84.7 / 52.0	**F** / D	-23.2 / -58.4	Y
10. Genesee Avenue & Balboa Avenue	Signal	42.1 / 80.2	D / **F**	49.7 / 73.1	D / **E**	7.6 / -7.1	Y	49.8 / 68.6	D / **E**	7.7 / -11.6	Y	49.8 / 68.9	D / **E**	7.7 / -11.3	Y
14. Charger Boulevard & Balboa Avenue	Signal	54.3 / 48.0	**E** / D	46.8 / 47.7	D / D	-7.5 / -0.3	Y	46.8 / 47.7	D / D	-7.5 / -0.3	Y	46.8 / 47.7	D / D	-7.5 / -0.3	Y

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

LOS = Level of Service.

M = Mitigated.

Table 1 - Peak Hour Intersection Level of Service Results - Existing Plus Project Conditions

		No Project				With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM
1: Genesee Ave & Clairemont Mesa Blvd	Signal	42.6	D	59.9	**E**	42.90	D	61.80	**E**	42.90	D	61.80	**E**	42.90	D	61.80	**E**
2: Genesee Ave & Bannock Ave	Signal	19.7	B	10.5	B	19.80	B	10.50	B	19.80	B	10.50	B	19.80	B	10.50	B
3: Genesee Ave & Chateau Dr	Signal	11.0	B	4.7	A	11.20	B	4.70	A	11.20	B	4.70	A	11.20	B	4.70	A
4: Mt Herbert Ave & Genesee Ave	Signal	13.7	B	7.8	A	13.70	B	7.70	A	13.70	B	7.70	A	13.70	B	7.70	A
5: Genesee Ave & Derrick Dr	Signal	16.9	B	50.9	D	16.80	B	51.80	D	16.80	B	51.80	D	16.80	B	51.80	D
6: Mt Everest Blvd & Mt Etna Dr	AWSC	9.0	A	10.6	B	9.20	A	11.00	B	9.10	A	10.90	B	1.20	A	2.30	A
7: Genesee Ave & Mt Etna Dr	Signal	20.1	C	24.5	C	22.50	C	25.40	C	21.20	C	25.10	C	21.10	C	25.00	C
8: Clairemont Dr & Balboa Ave	Signal	37.7	D	60.1	**E**	38.00	D	61.70	**E**	38.00	D	61.70	**E**	38.00	D	61.70	**E**
9: Balboa Ave & Mt Everest Blvd	Signal	73.7	**E**	58.7	**E**	80.10	**F**	59.50	**E**	75.00	**E**	59.20	**E**	78.70	**E**	62.70	**E**
10: Genesee Ave & Balboa Ave	Signal	36.3	D	59.1	**E**	36.90	D	59.40	**E**	37.00	D	59.80	**E**	37.80	D	63.20	**E**
11: Balboa Ave & Shopping Center Drwy	Signal	20.9	C	15.4	B	21.10	C	15.20	B	21.10	C	15.20	B	21.10	C	15.20	B
12: Mt Alifan Dr/Mt Abernathy Ave & Balboa Ave	Signal	35.8	D	41.6	D	36.90	D	41.80	D	36.90	D	41.80	D	36.90	D	41.80	D
13: Mt Albertine Ave/Cannington Dr & Balboa Ave	Signal	10.6	B	24.0	C	10.50	B	25.60	C	10.50	B	25.60	C	10.50	B	25.60	C
14: Eckstrom Ave/Charger Blvd & Balboa Ave	Signal	43.4	D	33.3	C	44.60	D	33.30	C	44.60	D	33.30	C	44.60	D	33.30	C
15: I-805 SB Ramps & Balboa Ave	Signal	9.5	A	7.5	A	10.60	B	8.60	A	10.60	B	8.60	A	10.60	B	8.60	A
16: I-805 NB Ramps & Balboa Ave	Signal	8.8	A	9.1	A	9.80	A	10.10	B	9.80	A	10.10	B	9.80	A	10.10	B
17: Genesee Ave & Mt Alifan Dr	Signal	47.6	D	50.5	D	47.60	D	50.50	D	47.60	D	50.50	D	47.60	D	50.50	D
18: Project Driveway #1 & Mt Etna Dr	SSSC	DNE	DNE	DNE	DNE	9.90	A	10.50	B	9.50	A	10.10	B	9.30	A	9.70	A
19: Genesee Ave & Project Driveway #2	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	11.90	B	17.30	C	11.70	B	16.80	C
20: Balboa Ave & Project Driveway #3	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.70	B	16.80	C

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

AWSC = All-Way Stop Controlled.

SSSC = Side-Street Stop Controlled.

DNE = Does Not Exist.

Table 2 - Peak Hour Intersection Level of Service Results – Near-Term Base (Year 2021) Plus Project Conditions

		No Project				With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM
1: Genesee Ave & Clairemont Mesa Blvd	Signal	43.0	D	61.5	**E**	43.40	D	63.40	**E**	43.40	D	63.40	**E**	43.40	D	63.40	**E**
2: Genesee Ave & Bannock Ave	Signal	20.0	B	10.4	B	20.10	C	10.40	B	20.10	C	10.40	B	20.10	C	10.40	B
3: Genesee Ave & Chateau Dr	Signal	11.4	B	4.6	A	11.60	B	4.60	A	11.60	B	4.60	A	11.60	B	4.60	A
4: Mt Herbert Ave & Genesee Ave	Signal	13.6	B	7.7	A	13.60	B	7.70	A	13.60	B	7.70	A	13.60	B	7.70	A
5: Genesee Ave & Derrick Dr	Signal	17.0	B	51.1	D	16.90	B	52.10	D	16.90	B	52.10	D	16.90	B	52.10	D
6: Mt Everest Blvd & Mt Etna Dr	AWSC	9.4	A	10.8	B	9.60	A	11.10	B	9.50	A	11.00	B	9.50	A	11.00	B
7: Genesee Ave & Mt Etna Dr	Signal	19.7	B	24.6	C	22.10	C	25.60	C	20.80	C	25.20	C	20.70	C	25.10	C
8: Clairemont Dr & Balboa Ave	Signal	48.0	D	68.2	**E**	48.60	D	69.70	**E**	48.60	D	69.70	**E**	48.60	D	69.70	**E**
9: Balboa Ave & Mt Everest Blvd	Signal	116.5	**F**	64.7	**E**	127.70	**F**	65.50	**E**	123.40	**F**	65.20	**E**	124.50	**F**	69.50	**E**
10: Genesee Ave & Balboa Ave	Signal	41.1	D	59.2	**E**	41.80	D	60.00	**E**	41.90	D	60.10	**E**	43.30	D	64.90	**E**
11: Balboa Ave & Shopping Center Drwy	Signal	21.1	C	15.1	B	21.30	C	14.90	B	21.30	C	14.90	B	21.30	C	14.90	B
12: Mt Alifan Dr/Mt Abernathy Ave & Balboa Ave	Signal	39.1	D	44.4	D	41.10	D	44.60	D	41.10	D	44.60	D	41.10	D	44.60	D
13: Mt Albertine Ave/Cannington Dr & Balboa Ave	Signal	10.5	B	28.9	C	10.50	B	31.20	C	10.50	B	31.20	C	10.50	B	31.20	C
14: Eckstrom Ave/Charger Blvd & Balboa Ave	Signal	64.7	**E**	42.9	D	67.10	**E**	42.80	D	67.10	**E**	42.80	D	67.10	**E**	42.80	D
15: I-805 SB Ramps & Balboa Ave	Signal	12.5	B	9.0	A	14.10	B	10.40	B	14.10	B	10.40	B	14.10	B	10.40	B
16: I-805 NB Ramps & Balboa Ave	Signal	8.8	A	9.1	A	9.90	A	10.10	B	9.90	A	10.10	B	9.90	A	10.10	B
17: Genesee Ave & Mt Alifan Dr	Signal	58.6	**E**	55.2	**E**	58.60	**E**	55.20	**E**	58.60	**E**	55.20	**E**	58.60	**E**	55.20	**E**
18: Project Driveway #1 & Mt Etna Dr	SSSC	DNE	DNE	DNE	DNE	9.90	A	10.50	B	9.50	A	10.10	B	9.30	A	9.70	A
19: Genesee Ave & Project Driveway #2	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	12.10	B	17.70	C	11.90	B	17.20	C
20: Balboa Ave & Project Driveway #3	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.90	B	17.20	C

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

AWSC = All-Way Stop Controlled.

SSSC = Side-Street Stop Controlled.

DNE = Does Not Exist.

Table 3 - Peak Hour Intersection Level of Service Results –Horizon Year 2050 Plus Project Conditions

		No Project				With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM	Avg. Delay (sec) AM	LOS AM	Avg. Delay (sec) PM	LOS PM
1: Genesee Ave & Clairemont Mesa Blvd	Signal	65.9	**E**	95.9	**F**	67.50	**E**	98.50	**F**	67.50	**E**	98.50	**F**	67.50	**E**	98.50	**F**
2: Genesee Ave & Bannock Ave	Signal	28.5	C	12.7	B	28.60	C	12.80	B	28.60	C	12.80	B	28.60	C	12.80	B
3: Genesee Ave & Chateau Dr	Signal	12.4	B	5.9	A	12.90	B	5.80	A	12.90	B	5.80	A	12.90	B	5.80	A
4: Mt Herbert Ave & Genesee Ave	Signal	18.7	B	10.9	B	18.80	B	10.80	B	18.80	B	10.80	B	18.80	B	10.80	B
5: Genesee Ave & Derrick Dr	Signal	18.0	B	51.0	D	17.90	B	52.10	D	17.90	B	52.10	D	17.90	B	52.10	D
6: Mt Everest Blvd & Mt Etna Dr	AWSC	10.8	B	13.9	B	11.10	B	14.60	B	11.00	B	14.40	B	11.00	B	14.30	B
7: Genesee Ave & Mt Etna Dr	Signal	21.7	C	26.6	C	23.60	C	27.40	C	22.80	C	27.30	C	22.60	C	27.20	C
8: Clairemont Dr & Balboa Ave	Signal	65.4	**E**	100.6	**F**	66.00	**E**	102.10	**F**	66.00	**E**	102.10	**F**	66.00	**E**	102.10	**F**
9: Balboa Ave & Mt Everest Blvd	Signal	107.9	**F**	110.4	**F**	110.90	**F**	112.70	**F**	109.80	**F**	112.30	**F**	112.10	**F**	120.20	**F**
10: Genesee Ave & Balboa Ave	Signal	42.1	D	80.2	**F**	44.70	D	83.40	**F**	44.90	D	84.30	**F**	47.30	D	90.20	**F**
11: Balboa Ave & Shopping Center Drwy	Signal	24.7	C	15.3	B	24.80	C	15.10	B	24.80	C	15.10	B	24.80	C	15.10	B
12: Mt Alifan Dr/Mt Abernathy Ave & Balboa Ave	Signal	43.5	D	52.5	D	45.80	D	52.80	D	45.80	D	52.80	D	45.80	D	52.80	D
13: Mt Albertine Ave/Cannington Dr & Balboa Ave	Signal	17.2	B	33.0	C	17.30	B	35.20	D	17.30	B	35.20	D	17.30	B	35.20	D
14: Eckstrom Ave/Charger Blvd & Balboa Ave	Signal	54.3	D	48.0	D	56.30	**E**	47.90	D	56.30	**E**	47.90	D	56.30	**E**	47.90	D
15: I-805 SB Ramps & Balboa Ave	Signal	11.1	B	9.2	A	11.20	B	9.40	A	11.20	B	9.40	A	11.20	B	9.40	A
16: I-805 NB Ramps & Balboa Ave	Signal	10.5	B	10.6	B	10.50	B	10.60	B	10.50	B	10.60	B	10.50	B	10.60	B
17: Genesee Ave & Mt Alifan Dr	Signal	50.2	D	58.4	**E**	50.20	D	58.50	**E**	50.20	D	58.50	**E**	50.20	D	58.40	**E**
18: Project Driveway #1 & Mt Etna Dr	SSSC	DNE	DNE	DNE	DNE	10.50	B	11.30	B	10.00	A	10.80	B	9.80	A	10.30	B
19: Genesee Ave & Project Driveway #2	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	13.00	B	16.70	C	12.70	B	16.30	C
20: Balboa Ave & Project Driveway #3	SSSC	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	16.90	C	19.90	C

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

AWSC = All-Way Stop Controlled.

SSSC = Side-Street Stop Controlled.

DNE = Does Not Exist.

Table 1 - Roadway Segment Level of Service Results - Existing Plus Project Conditions

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Driveway Alternative 1			With Driveway Alternative 2			With Driveway Alternative 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Genesee Avenue	Appleton Street & Clairemont Mesa Boulevard	4M	40,000	23,097	0.577	C	23,379	0.584	C	23,379	0.584	C	23,379	0.584	C
Genesee Avenue	Clairemont Mesa Boulevard & Bannock Avenue	4M	40,000	24,483	0.612	C	24,847	0.621	C	24,847	0.621	C	24,847	0.621	C
Genesee Avenue	Bannock Avenue & Chateau Drive	4M	40,000	25,244	0.631	C	25,608	0.640	C	25,608	0.640	C	25,608	0.640	C
Genesee Avenue	Chateau Drive & Mount Herbert Avenue	4M	40,000	24,958	0.624	C	25,342	0.634	C	25,342	0.634	C	25,342	0.634	C
Genesee Avenue	Mount Herbert Avenue & Derrick Drive	4M	40,000	23,242	0.581	C	23,626	0.591	C	23,626	0.591	C	23,626	0.591	C
Genesee Avenue	Derrick Drive & Mount Etna Drive	6M	50,000	25,645	0.513	B	26,189	0.524	B	26,189	0.524	B	26,189	0.524	B
Genesee Avenue	Mount Etna Drive & Balboa Avenue	5M	45,000	27,743	0.617	C	28,691	0.638	C	28,911	0.642	C	28,573	0.635	C
Genesee Avenue	Balboa Avenue & Mount Alifan Drive	5M	45,000	23,259	0.517	B	23,541	0.523	B	23,541	0.523	B	23,540	0.523	B
Genesee Avenue	Mount Alifan Drive & Genesee Court	4M	40,000	23,742	0.594	C	23,984	0.600	C	23,984	0.600	C	23,984	0.600	C
Mount Everest Boulevard	Mount Etna Drive & Balboa Avenue	2C	8,000	4,206	0.526	C	4,630	0.579	C	4,528	0.566	C	4,482	0.560	C
Mount Etna Drive	Mount Everest Boulevard & Genesee Avenue	2C	8,000	4,090	0.511	C	6,108	0.764	D	5,286	0.661	D	5,129	0.641	D
Balboa Avenue	Clairemont Drive & Mount Everest Boulevard	4M	40,000	35,014	0.875	**E**	35,398	0.885	**E**	35,398	0.885	**E**	35,398	0.885	**E**
Balboa Avenue	Mount Everest Boulevard & Genesee Avenue	4M	40,000	32,421	0.811	D	32,421	0.811	D	32,523	0.813	D	32,643	0.816	D
Balboa Avenue	Genesee Avenue & Shopping Center Driveway	6M	50,000	32,231	0.645	C	32,897	0.658	C	32,897	0.658	C	32,897	0.658	C
Balboa Avenue	Shopping Center Driveway & Mount Abernathy Avenue	6M	50,000	35,984	0.720	C	36,650	0.733	C	36,650	0.733	C	36,650	0.733	C
Balboa Avenue	Mount Abernathy Avenue & Cannington Drive	6M	50,000	47,147	0.943	**E**	47,793	0.956	**E**	47,793	0.956	**E**	47,793	0.956	**E**
Balboa Avenue	Cannington Drive & Charger Boulevard	6M	50,000	49,421	0.988	**E**	50,067	1.001	**F**	50,067	1.001	**F**	50,067	1.001	**F**
Balboa Avenue	Charger Boulevard & I-805 Southbound Ramps	6M	50,000	61,846	1.237	**F**	62,492	1.250	**F**	62,492	1.250	**F**	62,492	1.250	**F**
Balboa Avenue	I-805 Southbound & I-805 Northbound Ramps	8P	80,000	49,153	0.614	B	49,638	0.620	B	49,638	0.620	B	49,638	0.620	B
Balboa Avenue	I-805 Northbound Ramps and Ruffer Street	6M	50,000	51,228	1.025	**F**	51,550	1.031	**F**	51,550	1.031	**F**	51,550	1.031	**F**

Notes:

Bold letter indicates unacceptable LOS E or F.

ADT = Average Daily Traffic.

V/C = Volume to Capacity Ratio.

LOS = Level of Service.

Table 2 - Roadway Segment Level of Service Results – Near-Term Base (Year 2021) Plus Project Conditions

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Driveway Alternative 1			With Driveway Alternative 2			With Driveway Alternative 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Genesee Avenue	Appleton Street & Clairemont Mesa Boulevard	4M	40,000	23,230	0.581	C	23,512	0.588	C	23,512	0.588	C	23,512	0.588	C
Genesee Avenue	Clairemont Mesa Boulevard & Bannock Avenue	4M	40,000	24,700	0.618	C	25,064	0.627	C	25,064	0.627	C	25,064	0.627	C
Genesee Avenue	Bannock Avenue & Chateau Drive	4M	40,000	25,460	0.637	C	25,824	0.646	C	25,824	0.646	C	25,824	0.646	C
Genesee Avenue	Chateau Drive & Mount Herbert Avenue	4M	40,000	25,180	0.630	C	25,564	0.639	C	25,564	0.639	C	25,564	0.639	C
Genesee Avenue	Mount Herbert Avenue & Derrick Drive	4M	40,000	23,460	0.587	C	23,844	0.596	C	23,844	0.596	C	23,844	0.596	C
Genesee Avenue	Derrick Drive & Mount Etna Drive	6M	50,000	25,880	0.518	B	26,424	0.528	B	26,424	0.528	B	26,424	0.528	B
Genesee Avenue	Mount Etna Drive & Balboa Avenue	5M	45,000	28,060	0.624	C	29,008	0.645	C	29,228	0.650	C	28,890	0.642	C
Genesee Avenue	Balboa Avenue & Mount Alifan Drive	5M	45,000	24,110	0.536	B	24,392	0.542	B	24,392	0.542	B	24,391	0.542	B
Genesee Avenue	Mount Alifan Drive & Genesee Court	4M	40,000	23,940	0.599	C	24,182	0.605	C	24,182	0.605	C	24,182	0.605	C
Mount Everest Boulevard	Mount Etna Drive & Balboa Avenue	2C	8,000	4,340	0.543	C	4,764	0.596	C	4,662	0.583	C	4,616	0.577	C
Mount Etna Drive	Mount Everest Boulevard & Genesee Avenue	2C	8,000	4,090	0.511	C	6,108	0.764	D	5,286	0.661	D	5,129	0.641	D
Balboa Avenue	Clairemont Drive & Mount Everest Boulevard	4M	40,000	36,120	0.903	**E**	36,504	0.913	**E**	36,504	0.913	**E**	36,504	0.913	**E**
Balboa Avenue	Mount Everest Boulevard & Genesee Avenue	4M	40,000	33,020	0.826	D	33,020	0.826	D	33,122	0.828	D	33,242	0.831	D
Balboa Avenue	Genesee Avenue & Shopping Center Driveway	6M	50,000	33,460	0.669	C	34,126	0.683	C	34,126	0.683	C	34,126	0.683	C
Balboa Avenue	Shopping Center Driveway & Mount Abernathy Avenue	6M	50,000	36,870	0.737	C	37,536	0.751	C	37,536	0.751	C	37,536	0.751	C
Balboa Avenue	Mount Abernathy Avenue & Cannington Drive	6M	50,000	48,610	0.972	**E**	49,256	0.985	**E**	49,256	0.985	**E**	49,256	0.985	**E**
Balboa Avenue	Cannington Drive & Charger Boulevard	6M	50,000	50,930	1.019	**F**	51,576	1.032	**F**	51,576	1.032	**F**	51,576	1.032	**F**
Balboa Avenue	Charger Boulevard & I-805 Southbound Ramps	6M	50,000	63,430	1.269	**F**	64,076	1.282	**F**	64,076	1.282	**F**	64,076	1.282	**F**
Balboa Avenue	I-805 Southbound & I-805 Northbound Ramps	8P	80,000	50,180	.627	C	50,665	0.633	C	50,665	0.633	C	50,665	0.633	C
Balboa Avenue	I-805 Northbound Ramps and Ruffer Street	6M	50,000	51,430	1.029	**F**	51,752	1.035	**F**	51,752	1.035	**F**	51,752	1.035	**F**

Notes:

Bold letter indicates unacceptable LOS E or F.

V/C = Volume to Capacity Ratio.

ADT = Average Daily Traffic.

LOS = Level of Service.

Table 3 - Roadway Segment Level of Service Results – Horizon Year 2050 Plus Project Conditions

Roadway	Segment	Cross-Section	Capacity (LOS E)	No Project			With Driveway Alternative 1			With Driveway Alternative 2			With Driveway Alternative 3		
				ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS	ADT	V/C	LOS
Genesee Avenue	Appleton Street & Clairemont Mesa Boulevard	4M	40,000	31,900	0.798	D	32,182	0.805	D	32,182	0.805	D	32,182	0.805	D
Genesee Avenue	Clairemont Mesa Boulevard & Bannock Avenue	4M	40,000	30,000	0.750	C	30,364	0.759	D	30,364	0.759	D	30,364	0.759	D
Genesee Avenue	Bannock Avenue & Chateau Drive	4M	40,000	27,800	0.695	C	28,164	0.704	C	28,164	0.704	C	28,164	0.704	C
Genesee Avenue	Chateau Drive & Mount Herbert Avenue	4M	40,000	25,500	0.638	C	25,884	0.647	C	25,884	0.647	C	25,884	0.647	C
Genesee Avenue	Mount Herbert Avenue & Derrick Drive	4M	40,000	20,900	0.523	B	21,284	0.532	C	21,284	0.532	C	21,284	0.532	C
Genesee Avenue	Derrick Drive & Mount Etna Drive	6M	50,000	23,900	0.478	B	24,444	0.489	B	24,444	0.489	B	24,444	0.489	B
Genesee Avenue	Mount Etna Drive & Balboa Avenue	5M	45,000	25,000	0.556	C	25,948	0.577	C	26,168	0.582	C	25,830	0.574	C
Genesee Avenue	Balboa Avenue & Mount Alifan Drive	5M	45,000	22,100	0.491	B	22,382	0.497	B	22,382	0.497	B	22,381	0.497	B
Genesee Avenue	Mount Alifan Drive & Genesee Court	4M	40,000	21,900	0.548	C	22,142	0.554	C	22,142	0.554	C	22,142	0.554	C
Mount Everest Boulevard	Mount Etna Drive & Balboa Avenue	2C	8,000	5,900	0.738	D	6,324	0.791	D	6,222	0.778	D	6,176	0.772	D
Mount Etna Drive	Mount Everest Boulevard & Genesee Avenue	2C	8,000	5,100	0.638	D	7,118	0.890	**E**	6,296	0.787	D	6,139	0.767	D
Balboa Avenue	Clairemont Drive & Mount Everest Boulevard	4M	40,000	33,800	0.845	D	34,184	0.855	D	34,184	0.855	D	34,184	0.855	D
Balboa Avenue	Mount Everest Boulevard & Genesee Avenue	4M	40,000	35,200	0.880	**E**	35,200	0.880	**E**	35,302	0.883	**E**	35,422	0.886	**E**
Balboa Avenue	Genesee Avenue & Shopping Center Driveway	6M	50,000	43,500	0.870	D	44,166	0.883	D	44,166	0.883	D	44,166	0.883	D
Balboa Avenue	Shopping Center Driveway & Mount Abernathy Avenue	6M	50,000	33,100	0.662	C	33,766	0.675	C	33,766	0.675	C	33,766	0.675	C
Balboa Avenue	Mount Abernathy Avenue & Cannington Drive	6M	50,000	47,400	0.948	**E**	48,046	0.961	**E**	48,046	0.961	**E**	48,046	0.961	**E**
Balboa Avenue	Cannington Drive & Charger Boulevard	6M	50,000	47,500	0.950	**E**	48,146	0.963	**E**	48,146	0.963	**E**	48,146	0.963	**E**
Balboa Avenue	Charger Boulevard & I-805 Southbound Ramps	6M	50,000	65,200	1.304	**F**	65,846	1.317	**F**	65,846	1.317	**F**	65,846	1.317	**F**
Balboa Avenue	I-805 Southbound & I-805 Northbound Ramps	8P	80,000	57,400	0.718	C	57,885	0.724	C	57,885	0.724	C	57,885	0.724	C
Balboa Avenue	I-805 Northbound Ramps and Ruffer Street	6M	50,000	62,400	1.248	**F**	62,722	1.254	**F**	62,722	1.254	**F**	62,722	1.254	**F**

Notes:

Bold letter indicates unacceptable LOS E or F.

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V/C = Volume to Capacity Ratio.

LOS = Level of Service.

Table 1 - Peak Hour Intersection Level of Service Results - Existing Plus Project Conditions with Mitigation

		No Project		With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?
9. Mt. Everest Boulevard & Balboa Avenue	Signal	73.7 / 58.7	**E / E**	37.5 / 29.5	D / C	-36.2 / -29.2	Y	Not Impacted				36.5 / 28.9	D / C	-37.2 / -29.8	Y
10. Genesee Avenue & Balboa Avenue	Signal	36.3 / 59.1	D / **E**	Not Impacted				Not Impacted				43.0 / 53.1	D / D	6.7 / -6.0	Y

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

LOS = Level of Service.

M = Mitigated.

Table 2 - Peak Hour Intersection Level of Service Results – Near-Term Plus Project Conditions with Mitigation

		No Project		With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?
9. Mt. Everest Boulevard & Balboa Avenue	Signal	116.5 / 64.7	**F / E**	59.9 / 27.0	**E** / C	-56.6 / -37.7	Y	58.3 / 26.6	**E** / C	-58.2 / -38.1		57.6 / 26.4	**E** / C	-11.6 / -32.3	Y
10. Genesee Avenue & Balboa Avenue	Signal	41.1 / 59.2	D / **E**	Not Impacted				Not Impacted				42.0 / 57.0	D / **E**	0.9 / -2.2	Y
14. Charger Boulevard & Balboa Avenue	Signal	64.7 / 42.9	**E** / D	53.3 / 50.6	D / D	-11.4 / 7.7	Y	53.3 / 50.6	D / D	-11.4 / 7.7	Y	53.2 / 50.5	D / D	-11.5 / 7.6	Y

Notes:

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LOS = Level of Service.

M = Mitigated.

Table 3 - Peak Hour Intersection Level of Service Results – Horizon Year 2050 Plus Project Conditions with Mitigation

		No Project		With Driveway Alternative 1				With Driveway Alternative 2				With Driveway Alternative 3			
Intersection	Control	Avg. Delay (sec) AM/PM	LOS AM/PM	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?	Avg. Delay (sec) AM/PM	LOS AM/PM	Change in Delay (sec) AM/PM	M?
1. Genesee Avenue & Clairemont Mesa Boulevard	Signal	65.9 / 95.9	**E / F**	45.6 / 60.0	D / **E**	-20.3 / -35.9	Y	45.6 / 60.0	D / **E**	-20.3 / -35.9	Y	45.6 / 60.0	D / **E**	-20.3 / -35.9	Y
8. Clairemont Drive & Balboa Avenue	Signal	65.4 / 100.6	**E / F**	63.9 / 96.5	**E / F**	-1.5 / -4.1	Y	63.9 / 96.5	**E / F**	-1.5 / -4.1	Y	63.9 / 96.5	**E / F**	-1.5 / -4.1	Y
9. Mt Everest Boulevard & Balboa Avenue	Signal	107.9 / 110.4	**F /F**	89.6 / 53.6	**F** / D	-18.3 / -56.8	Y	86.2 / 52.3	**F** / D	-21.7 / -58.1	Y	84.7 / 52.0	**F** / D	-23.2 / -58.4	Y
10. Genesee Avenue & Balboa Avenue	Signal	42.1 / 80.2	D / **F**	49.7 / 73.1	D / **E**	7.6 / -7.1	Y	49.8 / 68.6	D / **E**	7.7 / -11.6	Y	49.8 / 68.9	D / **E**	7.7 / -11.3	Y
14. Charger Boulevard & Balboa Avenue	Signal	54.3 / 48.0	**E** / D	46.8 / 47.7	D / D	-7.5 / -0.3	Y	46.8 / 47.7	D / D	-7.5 / -0.3	Y	46.8 / 47.7	D / D	-7.5 / -0.3	Y

Notes:

Bold letter indicates unacceptable LOS E or F and significant impact.

LOS = Level of Service.

M = Mitigated.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Future Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.97	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		221	463	160		204	591	284	251	1273	72	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		249	679	232		1026	1139	547	313	1231	70	
Arrive On Green		0.07	0.26	0.26		0.30	0.50	0.50	0.12	0.48	0.48	
Sat Flow, veh/h		3442	2563	878		3442	2296	1102	3442	3400	192	
Grp Volume(v), veh/h		221	318	305		204	455	420	251	662	683	
Grp Sat Flow(s),veh/h/ln		1721	1770	1672		1721	1770	1628	1721	1770	1823	
Q Serve(g_s), s		6.9	17.4	17.7		4.8	18.9	18.9	7.7	39.1	39.1	
Cycle Q Clear(g_c), s		6.9	17.4	17.7		4.8	18.9	18.9	7.7	39.1	39.1	
Prop In Lane		1.00		0.53		1.00		0.68	1.00		0.11	
Lane Grp Cap(c), veh/h		249	469	443		1026	878	808	313	641	660	
V/C Ratio(X)		0.89	0.68	0.69		0.20	0.52	0.52	0.80	1.03	1.04	
Avail Cap(c_a), veh/h		249	469	443		1026	878	808	433	641	660	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.55	0.55	0.55	
Uniform Delay (d), s/veh		49.7	35.6	35.7		28.3	18.4	18.5	46.5	28.0	28.0	
Incr Delay (d2), s/veh		29.2	7.7	8.5		0.0	2.2	2.4	2.8	35.0	35.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		4.3	9.5	9.2		2.3	9.6	8.9	3.7	25.2	26.1	
LnGrp Delay(d),s/veh		78.8	43.3	44.2		28.3	20.6	20.8	49.3	63.0	63.6	
LnGrp LOS		E	D	D		C	C	C	D	F	F	
Approach Vol, veh/h			844				1079			1596		
Approach Delay, s/veh			52.9				22.2			61.1		
Approach LOS			D				C			E		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	37.7	33.6	14.2	48.5	12.2	59.1	18.7	44.0
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	7.8	* 29	13.6	39.3	7.8	28.6	13.8	* 39
Max Q Clear Time (g_c+I1), s	6.8	19.7	9.7	21.1	8.9	20.9	15.1	41.1
Green Ext Time (p_c), s	0.0	2.7	0.2	2.7	0.0	3.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	45.6
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	190	535	190
Future Volume (veh/h)	190	535	190
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	216	608	182
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	227	1074	321
Arrive On Green	0.13	0.40	0.40
Sat Flow, veh/h	1774	2662	795
Grp Volume(v), veh/h	216	404	386
Grp Sat Flow(s),veh/h/ln	1774	1770	1688
Q Serve(g_s), s	13.1	19.0	19.1
Cycle Q Clear(g_c), s	13.1	19.0	19.1
Prop In Lane	1.00		0.47
Lane Grp Cap(c), veh/h	227	714	681
V/C Ratio(X)	0.95	0.57	0.57
Avail Cap(c_a), veh/h	227	714	681
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.8	24.9	24.9
Incr Delay (d2), s/veh	46.2	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.3	9.4	9.0
LnGrp Delay(d),s/veh	92.9	25.6	25.6
LnGrp LOS	F	C	C
Approach Vol, veh/h		1006	
Approach Delay, s/veh		40.1	
Approach LOS		D	
Timer			

User approved ignoring U-Turning movement.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Future Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		219	911	71	461	900	162		325	639	592		242	341	244
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		360	1035	81	513	1024	184		347	921	648		264	418	292
Arrive On Green		0.10	0.31	0.31	0.15	0.34	0.34		0.20	0.26	0.26		0.15	0.21	0.21
Sat Flow, veh/h		3442	3312	258	3442	2978	536		1774	3539	1583		1774	1956	1366
Grp Volume(v), veh/h		219	487	495	461	535	527		325	639	592		242	308	277
Grp Sat Flow(s),veh/h/ln		1721	1770	1800	1721	1770	1744		1774	1770	1583		1774	1770	1552
Q Serve(g_s), s		9.3	40.0	40.0	20.2	43.6	43.6		27.7	25.0	39.9		20.6	25.4	26.2
Cycle Q Clear(g_c), s		9.3	40.0	40.0	20.2	43.6	43.6		27.7	25.0	39.9		20.6	25.4	26.2
Prop In Lane		1.00		0.14	1.00		0.31		1.00		1.00		1.00		0.88
Lane Grp Cap(c), veh/h		360	553	563	513	609	600		347	921	648		264	378	332
V/C Ratio(X)		0.61	0.88	0.88	0.90	0.88	0.88		0.94	0.69	0.91		0.92	0.81	0.84
Avail Cap(c_a), veh/h		360	653	664	732	841	829		435	921	648		366	391	343
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		65.6	50.0	50.0	64.1	47.3	47.3		60.7	51.2	42.7		64.3	57.4	57.7
Incr Delay (d2), s/veh		2.1	12.1	12.0	8.4	8.0	8.1		22.8	2.1	17.3		18.7	11.8	15.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.5	21.5	21.8	10.2	22.6	22.3		15.7	12.5	26.7		11.5	13.6	12.7
LnGrp Delay(d),s/veh		67.8	62.1	61.9	72.5	55.3	55.4		83.5	53.3	60.0		83.0	69.2	73.3
LnGrp LOS		E	E	E	E	E	E		F	D	E		F	E	E
Approach Vol, veh/h			1201			1523				1556				827	
Approach Delay, s/veh			63.1			60.5				62.2				74.6	
Approach LOS			E			E				E				E	

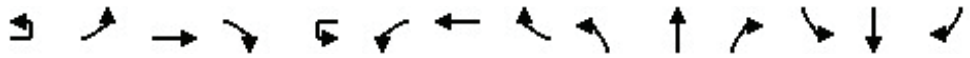
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.3	53.6	34.4	38.1	21.8	59.1	27.2	45.2
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	22.6	56.6	37.6	33.9	15.6	* 73	31.6	39.9
Max Q Clear Time (g_c+I1), s	22.2	42.0	29.7	28.2	11.3	45.6	22.6	41.9
Green Ext Time (p_c), s	0.7	5.9	0.3	1.6	0.2	7.2	0.2	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	63.9
HCM 2010 LOS	E

Notes

User approved ignoring U-Turning movement.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	76	1300	140	10	180	1160	130	250	101	130	100	122	110
Future Volume (veh/h)	20	76	1300	140	10	180	1160	130	250	101	130	100	122	110
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		86	1477	129		222	1432	125	368	149	154	127	154	114
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		106	1349	117		196	1518	132	315	220	228	149	167	123
Arrive On Green		0.06	0.41	0.41		0.11	0.46	0.46	0.18	0.26	0.26	0.08	0.17	0.17
Sat Flow, veh/h		1774	3287	285		1774	3289	285	1774	840	868	1774	988	731
Grp Volume(v), veh/h		86	790	816		222	767	790	368	0	303	127	0	268
Grp Sat Flow(s),veh/h/ln		1774	1770	1803		1774	1770	1804	1774	0	1708	1774	0	1719
Q Serve(g_s), s		7.2	61.6	61.6		16.6	61.7	63.0	26.6	0.0	23.9	10.6	0.0	23.0
Cycle Q Clear(g_c), s		7.2	61.6	61.6		16.6	61.7	63.0	26.6	0.0	23.9	10.6	0.0	23.0
Prop In Lane		1.00		0.16		1.00		0.16	1.00		0.51	1.00		0.43
Lane Grp Cap(c), veh/h		106	726	740		196	817	833	315	0	448	149	0	290
V/C Ratio(X)		0.81	1.09	1.10		1.13	0.94	0.95	1.17	0.00	0.68	0.85	0.00	0.92
Avail Cap(c_a), veh/h		114	726	740		196	817	833	315	0	448	175	0	309
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.49	0.49	0.49	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		69.7	44.2	44.2		66.7	38.4	38.7	61.7	0.0	49.6	67.8	0.0	61.4
Incr Delay (d2), s/veh		30.3	59.7	64.8		85.8	11.7	12.8	105.1	0.0	3.3	25.4	0.0	30.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.4	42.1	44.0		12.8	32.7	34.4	22.2	0.0	11.7	6.3	0.0	13.4
LnGrp Delay(d),s/veh		100.0	103.9	109.0		152.5	50.0	51.5	166.8	0.0	52.9	93.2	0.0	91.5
LnGrp LOS		F	F	F		F	D	D	F		D	F		F
Approach Vol, veh/h			1692				1779			671			395	
Approach Delay, s/veh			106.2				63.5			115.3			92.0	
Approach LOS			F				E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.0	67.8	31.0	30.2	13.3	75.4	17.0	44.3
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	16.6	* 61	26.6	27.0	9.6	66.9	14.8	38.8
Max Q Clear Time (g_c+I1), s	18.6	63.6	28.6	25.0	9.2	65.0	12.6	25.9
Green Ext Time (p_c), s	0.0	0.0	0.0	0.2	0.0	1.6	0.0	1.1

Intersection Summary	
HCM 2010 Ctrl Delay	89.6
HCM 2010 LOS	F

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	230	1060	300	10	110	860	351	10	300	795	80	10	275	455	220
Future Volume (veh/h)	10	230	1060	300	10	110	860	351	10	300	795	80	10	275	455	220
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		258	1191	249		126	989	314		319	846	64		316	523	196
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		371	1437	298		167	1237	392		363	1049	79		359	767	334
Arrive On Green		0.21	0.49	0.49		0.03	0.22	0.22		0.14	0.29	0.29		0.17	0.36	0.36
Sat Flow, veh/h		1774	2911	603		3442	3796	1204		3442	4819	363		3442	3539	1541
Grp Volume(v), veh/h		258	720	720		126	883	420		319	594	316		316	523	196
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1610		1721	1695	1791		1721	1770	1541
Q Serve(g_s), s		18.8	48.6	49.8		5.1	34.5	34.6		12.7	22.7	22.9		12.5	17.5	9.2
Cycle Q Clear(g_c), s		18.8	48.6	49.8		5.1	34.5	34.6		12.7	22.7	22.9		12.5	17.5	9.2
Prop In Lane		1.00		0.35		1.00		0.75		1.00		0.20		1.00		1.00
Lane Grp Cap(c), veh/h		371	873	861		167	1104	524		363	738	390		359	767	334
V/C Ratio(X)		0.69	0.82	0.84		0.75	0.80	0.80		0.88	0.81	0.81		0.88	0.68	0.59
Avail Cap(c_a), veh/h		371	873	861		167	1104	524		369	802	424		383	852	371
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67		1.33	1.33	1.33		1.67	1.67	1.67
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.85	0.85	0.85		1.00	1.00	1.00
Uniform Delay (d), s/veh		51.2	30.3	30.6		66.9	50.4	50.4		59.3	47.0	47.0		56.9	40.6	16.2
Incr Delay (d2), s/veh		0.4	0.9	0.9		14.5	5.6	11.2		17.5	5.5	10.2		18.4	2.5	3.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.3	23.8	24.2		2.8	17.0	17.0		6.9	11.2	12.5		6.8	8.7	5.1
LnGrp Delay(d),s/veh		51.6	31.1	31.5		81.4	56.0	61.6		76.8	52.5	57.3		75.4	43.1	19.3
LnGrp LOS		D	C	C		F	E	E		E	D	E		E	D	B
Approach Vol, veh/h			1698				1429				1229				1035	
Approach Delay, s/veh			34.4				59.9				60.0				48.4	
Approach LOS			C				E				E				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.2	74.4	19.1	35.2	34.6	51.0	19.0	35.4
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	6.8	65.5	15.0	33.7	26.6	* 46	15.6	33.1
Max Q Clear Time (g_c+I1), s	7.1	51.8	14.7	19.5	20.8	36.6	14.5	24.9
Green Ext Time (p_c), s	0.0	8.3	0.0	5.4	0.2	5.0	0.1	4.9

Intersection Summary	
HCM 2010 Ctrl Delay	49.7
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Future Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.94	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1984	107	435	1468	249	126	138	644	322	200	20
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1989	107	350	2973	906	193	121	720	345	250	25
Arrive On Green	0.03	0.81	0.81	0.20	0.58	0.58	0.11	0.07	0.07	0.19	0.15	0.15
Sat Flow, veh/h	1774	4931	265	1774	5085	1549	1774	1863	2631	1774	1661	166
Grp Volume(v), veh/h	21	1362	729	435	1468	249	126	138	644	322	0	220
Grp Sat Flow(s),veh/h/ln	1774	1695	1805	1774	1695	1549	1774	1863	1315	1774	0	1827
Q Serve(g_s), s	1.6	55.2	56.5	27.6	23.6	4.0	9.5	9.1	9.1	25.0	0.0	16.3
Cycle Q Clear(g_c), s	1.6	55.2	56.5	27.6	23.6	4.0	9.5	9.1	9.1	25.0	0.0	16.3
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	28	1368	728	350	2973	906	193	121	720	345	0	275
V/C Ratio(X)	0.74	1.00	1.00	1.24	0.49	0.27	0.65	1.14	0.89	0.93	0.00	0.80
Avail Cap(c_a), veh/h	75	1368	728	350	2973	906	193	121	720	393	0	405
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.21	0.21	0.21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	13.4	13.5	56.2	17.0	1.8	59.8	65.4	32.9	55.5	0.0	57.4
Incr Delay (d2), s/veh	3.0	10.2	15.6	131.6	0.6	0.8	7.0	124.3	13.5	26.1	0.0	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	26.1	29.4	26.3	11.2	4.1	5.1	8.9	12.3	14.8	0.0	8.6
LnGrp Delay(d),s/veh	70.5	23.6	29.1	187.8	17.6	2.6	66.8	189.7	46.4	81.6	0.0	61.5
LnGrp LOS	E	C	F	F	B	A	E	F	D	F		E
Approach Vol, veh/h		2112			2152			908			542	
Approach Delay, s/veh		25.9			50.2			71.0			73.4	
Approach LOS		C			D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	32.0	61.9	32.1	14.0	6.6	87.2	20.1	26.0
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	27.6	* 53	31.0	9.1	5.9	74.4	9.1	31.0
Max Q Clear Time (g_c+I1), s	29.6	58.5	27.0	11.1	3.6	25.6	11.5	18.3
Green Ext Time (p_c), s	0.0	0.0	0.2	0.0	0.0	23.8	0.0	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	46.8
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Future Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.97	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		221	463	160		204	591	284	251	1273	72	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		249	679	232		1026	1139	547	313	1231	70	
Arrive On Green		0.07	0.26	0.26		0.30	0.50	0.50	0.12	0.48	0.48	
Sat Flow, veh/h		3442	2563	878		3442	2296	1102	3442	3400	192	
Grp Volume(v), veh/h		221	318	305		204	455	420	251	662	683	
Grp Sat Flow(s),veh/h/ln		1721	1770	1672		1721	1770	1628	1721	1770	1823	
Q Serve(g_s), s		6.9	17.4	17.7		4.8	18.9	18.9	7.7	39.1	39.1	
Cycle Q Clear(g_c), s		6.9	17.4	17.7		4.8	18.9	18.9	7.7	39.1	39.1	
Prop In Lane		1.00		0.53		1.00		0.68	1.00		0.11	
Lane Grp Cap(c), veh/h		249	469	443		1026	878	808	313	641	660	
V/C Ratio(X)		0.89	0.68	0.69		0.20	0.52	0.52	0.80	1.03	1.04	
Avail Cap(c_a), veh/h		249	469	443		1026	878	808	433	641	660	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.55	0.55	0.55	
Uniform Delay (d), s/veh		49.7	35.6	35.7		28.3	18.4	18.5	46.5	28.0	28.0	
Incr Delay (d2), s/veh		29.2	7.7	8.5		0.0	2.2	2.4	2.8	35.0	35.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		4.3	9.5	9.2		2.3	9.6	8.9	3.7	25.2	26.1	
LnGrp Delay(d),s/veh		78.8	43.3	44.2		28.3	20.6	20.8	49.3	63.0	63.6	
LnGrp LOS		E	D	D		C	C	C	D	F	F	
Approach Vol, veh/h			844				1079			1596		
Approach Delay, s/veh			52.9				22.2			61.1		
Approach LOS			D				C			E		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	37.7	33.6	14.2	48.5	12.2	59.1	18.7	44.0
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	7.8	* 29	13.6	39.3	7.8	28.6	13.8	* 39
Max Q Clear Time (g_c+I1), s	6.8	19.7	9.7	21.1	8.9	20.9	15.1	41.1
Green Ext Time (p_c), s	0.0	2.7	0.2	2.7	0.0	3.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	45.6
HCM 2010 LOS	D

Notes



Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	190	535	190
Future Volume (veh/h)	190	535	190
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	216	608	182
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	227	1074	321
Arrive On Green	0.13	0.40	0.40
Sat Flow, veh/h	1774	2662	795
Grp Volume(v), veh/h	216	404	386
Grp Sat Flow(s),veh/h/ln	1774	1770	1688
Q Serve(g_s), s	13.1	19.0	19.1
Cycle Q Clear(g_c), s	13.1	19.0	19.1
Prop In Lane	1.00		0.47
Lane Grp Cap(c), veh/h	227	714	681
V/C Ratio(X)	0.95	0.57	0.57
Avail Cap(c_a), veh/h	227	714	681
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.8	24.9	24.9
Incr Delay (d2), s/veh	46.2	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.3	9.4	9.0
LnGrp Delay(d),s/veh	92.9	25.6	25.6
LnGrp LOS	F	C	C
Approach Vol, veh/h		1006	
Approach Delay, s/veh		40.1	
Approach LOS		D	
Timer			

User approved ignoring U-Turning movement.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Future Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		219	911	71	461	900	162		325	639	592		242	341	244
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		360	1035	81	513	1024	184		347	921	648		264	418	292
Arrive On Green		0.10	0.31	0.31	0.15	0.34	0.34		0.20	0.26	0.26		0.15	0.21	0.21
Sat Flow, veh/h		3442	3312	258	3442	2978	536		1774	3539	1583		1774	1956	1366
Grp Volume(v), veh/h		219	487	495	461	535	527		325	639	592		242	308	277
Grp Sat Flow(s),veh/h/ln		1721	1770	1800	1721	1770	1744		1774	1770	1583		1774	1770	1552
Q Serve(g_s), s		9.3	40.0	40.0	20.2	43.6	43.6		27.7	25.0	39.9		20.6	25.4	26.2
Cycle Q Clear(g_c), s		9.3	40.0	40.0	20.2	43.6	43.6		27.7	25.0	39.9		20.6	25.4	26.2
Prop In Lane		1.00		0.14	1.00		0.31		1.00		1.00		1.00		0.88
Lane Grp Cap(c), veh/h		360	553	563	513	609	600		347	921	648		264	378	332
V/C Ratio(X)		0.61	0.88	0.88	0.90	0.88	0.88		0.94	0.69	0.91		0.92	0.81	0.84
Avail Cap(c_a), veh/h		360	653	664	732	841	829		435	921	648		366	391	343
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		65.6	50.0	50.0	64.1	47.3	47.3		60.7	51.2	42.7		64.3	57.4	57.7
Incr Delay (d2), s/veh		2.1	12.1	12.0	8.4	8.0	8.1		22.8	2.1	17.3		18.7	11.8	15.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.5	21.5	21.8	10.2	22.6	22.3		15.7	12.5	26.7		11.5	13.6	12.7
LnGrp Delay(d),s/veh		67.8	62.1	61.9	72.5	55.3	55.4		83.5	53.3	60.0		83.0	69.2	73.3
LnGrp LOS		E	E	E	E	E	E		F	D	E		F	E	E
Approach Vol, veh/h			1201			1523				1556				827	
Approach Delay, s/veh			63.1			60.5				62.2				74.6	
Approach LOS			E			E				E				E	

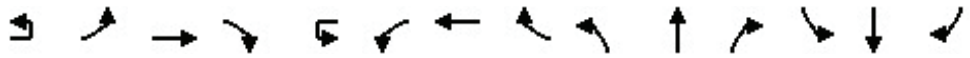
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.3	53.6	34.4	38.1	21.8	59.1	27.2	45.2
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	22.6	56.6	37.6	33.9	15.6	* 73	31.6	39.9
Max Q Clear Time (g_c+I1), s	22.2	42.0	29.7	28.2	11.3	45.6	22.6	41.9
Green Ext Time (p_c), s	0.7	5.9	0.3	1.6	0.2	7.2	0.2	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	63.9
HCM 2010 LOS	E

Notes

User approved ignoring U-Turning movement.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	76	1300	140	10	181	1170	130	250	101	130	100	121	100
Future Volume (veh/h)	20	76	1300	140	10	181	1170	130	250	101	130	100	121	100
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		86	1477	129		223	1444	125	368	149	154	127	153	102
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		106	1373	119		196	1543	133	315	214	221	149	167	112
Arrive On Green		0.06	0.42	0.42		0.11	0.47	0.47	0.18	0.26	0.26	0.08	0.16	0.16
Sat Flow, veh/h		1774	3287	285		1774	3291	283	1774	840	868	1774	1036	691
Grp Volume(v), veh/h		86	790	816		223	772	797	368	0	303	127	0	255
Grp Sat Flow(s),veh/h/ln		1774	1770	1803		1774	1770	1805	1774	0	1708	1774	0	1727
Q Serve(g_s), s		7.2	62.7	62.7		16.6	61.7	63.0	26.6	0.0	24.1	10.6	0.0	21.8
Cycle Q Clear(g_c), s		7.2	62.7	62.7		16.6	61.7	63.0	26.6	0.0	24.1	10.6	0.0	21.8
Prop In Lane		1.00		0.16		1.00		0.16	1.00		0.51	1.00		0.40
Lane Grp Cap(c), veh/h		106	739	753		196	830	846	315	0	436	149	0	279
V/C Ratio(X)		0.81	1.07	1.08		1.14	0.93	0.94	1.17	0.00	0.70	0.85	0.00	0.91
Avail Cap(c_a), veh/h		114	739	753		196	830	846	315	0	442	175	0	311
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.49	0.49	0.49	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		69.7	43.7	43.7		66.7	37.5	37.9	61.7	0.0	50.6	67.8	0.0	61.9
Incr Delay (d2), s/veh		30.3	53.0	57.7		87.6	10.7	11.7	105.1	0.0	3.9	25.4	0.0	27.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.4	41.5	43.2		12.9	32.5	34.0	22.2	0.0	11.8	6.3	0.0	12.5
LnGrp Delay(d),s/veh		100.0	96.6	101.4		154.3	48.2	49.6	166.8	0.0	54.5	93.2	0.0	88.9
LnGrp LOS		F	F	F		F	D	D	F		D	F		F
Approach Vol, veh/h			1692				1792			671			382	
Approach Delay, s/veh			99.1				62.0			116.0			90.3	
Approach LOS			F				E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.0	68.9	31.0	29.1	13.3	76.5	17.0	43.2
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	16.6	* 61	26.6	27.0	9.6	66.9	14.8	38.8
Max Q Clear Time (g_c+I1), s	18.6	64.7	28.6	23.8	9.2	65.0	12.6	26.1
Green Ext Time (p_c), s	0.0	0.0	0.0	0.3	0.0	1.6	0.0	1.1

Intersection Summary	
HCM 2010 Ctrl Delay	86.2
HCM 2010 LOS	F

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	230	1060	300	10	110	860	351	10	300	795	80	10	281	455	231
Future Volume (veh/h)	10	230	1060	300	10	110	860	351	10	300	795	80	10	281	455	231
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		258	1191	249		126	989	314		319	846	64		323	523	209
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		368	1431	297		167	1237	392		363	1049	79		366	774	337
Arrive On Green		0.21	0.49	0.49		0.03	0.22	0.22		0.14	0.29	0.29		0.18	0.37	0.37
Sat Flow, veh/h		1774	2911	603		3442	3796	1204		3442	4819	363		3442	3539	1541
Grp Volume(v), veh/h		258	720	720		126	883	420		319	594	316		323	523	209
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1610		1721	1695	1791		1721	1770	1541
Q Serve(g_s), s		18.9	48.8	50.0		5.1	34.5	34.6		12.7	22.7	22.9		12.8	17.4	10.0
Cycle Q Clear(g_c), s		18.9	48.8	50.0		5.1	34.5	34.6		12.7	22.7	22.9		12.8	17.4	10.0
Prop In Lane		1.00		0.35		1.00		0.75		1.00		0.20		1.00		1.00
Lane Grp Cap(c), veh/h		368	870	858		167	1104	524		363	738	390		366	774	337
V/C Ratio(X)		0.70	0.83	0.84		0.75	0.80	0.80		0.88	0.81	0.81		0.88	0.68	0.62
Avail Cap(c_a), veh/h		368	870	858		167	1104	524		369	802	424		383	852	371
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67		1.33	1.33	1.33		1.67	1.67	1.67
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.85	0.85	0.85		1.00	1.00	1.00
Uniform Delay (d), s/veh		51.5	30.5	30.8		66.9	50.4	50.4		59.3	47.0	47.0		56.7	40.3	16.3
Incr Delay (d2), s/veh		0.5	0.9	1.0		14.5	5.6	11.2		17.5	5.5	10.2		19.3	2.5	3.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.3	24.0	24.2		2.8	17.0	17.0		6.9	11.2	12.5		7.0	8.7	5.5
LnGrp Delay(d),s/veh		51.9	31.4	31.8		81.4	56.0	61.6		76.8	52.5	57.3		76.0	42.7	20.2
LnGrp LOS		D	C	C		F	E	E		E	D	E		E	D	C
Approach Vol, veh/h			1698				1429				1229				1055	
Approach Delay, s/veh			34.7				59.9				60.0				48.4	
Approach LOS			C				E				E				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.2	74.1	19.1	35.5	34.3	51.0	19.3	35.4
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	6.8	65.5	15.0	33.7	26.6	* 46	15.6	33.1
Max Q Clear Time (g_c+I1), s	7.1	52.0	14.7	19.4	20.9	36.6	14.8	24.9
Green Ext Time (p_c), s	0.0	8.2	0.0	5.5	0.2	5.0	0.1	4.9

Intersection Summary	
HCM 2010 Ctrl Delay	49.8
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Future Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.94	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1984	107	435	1468	249	126	138	644	322	200	20
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1989	107	350	2973	906	193	121	720	345	250	25
Arrive On Green	0.03	0.81	0.81	0.20	0.58	0.58	0.11	0.07	0.07	0.19	0.15	0.15
Sat Flow, veh/h	1774	4931	265	1774	5085	1549	1774	1863	2631	1774	1661	166
Grp Volume(v), veh/h	21	1362	729	435	1468	249	126	138	644	322	0	220
Grp Sat Flow(s),veh/h/ln	1774	1695	1805	1774	1695	1549	1774	1863	1315	1774	0	1827
Q Serve(g_s), s	1.6	55.2	56.5	27.6	23.6	4.0	9.5	9.1	9.1	25.0	0.0	16.3
Cycle Q Clear(g_c), s	1.6	55.2	56.5	27.6	23.6	4.0	9.5	9.1	9.1	25.0	0.0	16.3
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	28	1368	728	350	2973	906	193	121	720	345	0	275
V/C Ratio(X)	0.74	1.00	1.00	1.24	0.49	0.27	0.65	1.14	0.89	0.93	0.00	0.80
Avail Cap(c_a), veh/h	75	1368	728	350	2973	906	193	121	720	393	0	405
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.21	0.21	0.21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	13.4	13.5	56.2	17.0	1.8	59.8	65.4	32.9	55.5	0.0	57.4
Incr Delay (d2), s/veh	3.0	10.2	15.6	131.6	0.6	0.8	7.0	124.3	13.5	26.1	0.0	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	26.1	29.4	26.3	11.2	4.1	5.1	8.9	12.3	14.8	0.0	8.6
LnGrp Delay(d),s/veh	70.5	23.6	29.1	187.8	17.6	2.6	66.8	189.7	46.4	81.6	0.0	61.5
LnGrp LOS	E	C	F	F	B	A	E	F	D	F		E
Approach Vol, veh/h		2112			2152			908			542	
Approach Delay, s/veh		25.9			50.2			71.0			73.4	
Approach LOS		C			D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	32.0	61.9	32.1	14.0	6.6	87.2	20.1	26.0
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	27.6	* 53	31.0	9.1	5.9	74.4	9.1	31.0
Max Q Clear Time (g_c+I1), s	29.6	58.5	27.0	11.1	3.6	25.6	11.5	18.3
Green Ext Time (p_c), s	0.0	0.0	0.2	0.0	0.0	23.8	0.0	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	46.8
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Future Volume (veh/h)	10	210	440	191	10	190	550	360	243	1235	90	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.97	1.00		0.97	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		221	463	160		204	591	284	251	1273	72	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.95	0.95	0.95		0.93	0.93	0.93	0.97	0.97	0.97	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		249	679	232		1026	1139	547	313	1231	70	
Arrive On Green		0.07	0.26	0.26		0.30	0.50	0.50	0.12	0.48	0.48	
Sat Flow, veh/h		3442	2563	878		3442	2296	1102	3442	3400	192	
Grp Volume(v), veh/h		221	318	305		204	455	420	251	662	683	
Grp Sat Flow(s),veh/h/ln		1721	1770	1672		1721	1770	1628	1721	1770	1823	
Q Serve(g_s), s		6.9	17.4	17.7		4.8	18.9	18.9	7.7	39.1	39.1	
Cycle Q Clear(g_c), s		6.9	17.4	17.7		4.8	18.9	18.9	7.7	39.1	39.1	
Prop In Lane		1.00		0.53		1.00		0.68	1.00		0.11	
Lane Grp Cap(c), veh/h		249	469	443		1026	878	808	313	641	660	
V/C Ratio(X)		0.89	0.68	0.69		0.20	0.52	0.52	0.80	1.03	1.04	
Avail Cap(c_a), veh/h		249	469	443		1026	878	808	433	641	660	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.33	1.33	1.33	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.55	0.55	0.55	
Uniform Delay (d), s/veh		49.7	35.6	35.7		28.3	18.4	18.5	46.5	28.0	28.0	
Incr Delay (d2), s/veh		29.2	7.7	8.5		0.0	2.2	2.4	2.8	35.0	35.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		4.3	9.5	9.2		2.3	9.6	8.9	3.7	25.2	26.1	
LnGrp Delay(d),s/veh		78.8	43.3	44.2		28.3	20.6	20.8	49.3	63.0	63.6	
LnGrp LOS		E	D	D		C	C	C	D	F	F	
Approach Vol, veh/h			844				1079			1596		
Approach Delay, s/veh			52.9				22.2			61.1		
Approach LOS			D				C			E		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	37.7	33.6	14.2	48.5	12.2	59.1	18.7	44.0
Change Period (Y+Rc), s	5.0	* 5	4.4	4.9	4.4	5.0	4.9	* 4.9
Max Green Setting (Gmax), s	7.8	* 29	13.6	39.3	7.8	28.6	13.8	* 39
Max Q Clear Time (g_c+I1), s	6.8	19.7	9.7	21.1	8.9	20.9	15.1	41.1
Green Ext Time (p_c), s	0.0	2.7	0.2	2.7	0.0	3.5	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	45.6
HCM 2010 LOS	D

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	190	535	190
Future Volume (veh/h)	190	535	190
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	216	608	182
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	2
Cap, veh/h	227	1074	321
Arrive On Green	0.13	0.40	0.40
Sat Flow, veh/h	1774	2662	795
Grp Volume(v), veh/h	216	404	386
Grp Sat Flow(s),veh/h/ln	1774	1770	1688
Q Serve(g_s), s	13.1	19.0	19.1
Cycle Q Clear(g_c), s	13.1	19.0	19.1
Prop In Lane	1.00		0.47
Lane Grp Cap(c), veh/h	227	714	681
V/C Ratio(X)	0.95	0.57	0.57
Avail Cap(c_a), veh/h	227	714	681
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.8	24.9	24.9
Incr Delay (d2), s/veh	46.2	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.3	9.4	9.0
LnGrp Delay(d),s/veh	92.9	25.6	25.6
LnGrp LOS	F	C	C
Approach Vol, veh/h		1006	
Approach Delay, s/veh		40.1	
Approach LOS		D	
Timer			

User approved ignoring U-Turning movement.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations															
Traffic Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Future Volume (veh/h)	10	210	875	90	433	846	181	20	270	530	491	10	220	310	310
Number		5	2	12	1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.95	1.00		0.96		1.00		1.00		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863		1863	1863	1900
Adj Flow Rate, veh/h		219	911	71	461	900	162		325	639	592		242	341	244
Adj No. of Lanes		2	2	0	2	2	0		1	2	1		1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.83	0.83	0.83		0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2		2	2	2
Cap, veh/h		360	1035	81	513	1024	184		347	921	648		264	418	292
Arrive On Green		0.10	0.31	0.31	0.15	0.34	0.34		0.20	0.26	0.26		0.15	0.21	0.21
Sat Flow, veh/h		3442	3312	258	3442	2978	536		1774	3539	1583		1774	1956	1366
Grp Volume(v), veh/h		219	487	495	461	535	527		325	639	592		242	308	277
Grp Sat Flow(s),veh/h/ln		1721	1770	1800	1721	1770	1744		1774	1770	1583		1774	1770	1552
Q Serve(g_s), s		9.3	40.0	40.0	20.2	43.6	43.6		27.7	25.0	39.9		20.6	25.4	26.2
Cycle Q Clear(g_c), s		9.3	40.0	40.0	20.2	43.6	43.6		27.7	25.0	39.9		20.6	25.4	26.2
Prop In Lane		1.00		0.14	1.00		0.31		1.00		1.00		1.00		0.88
Lane Grp Cap(c), veh/h		360	553	563	513	609	600		347	921	648		264	378	332
V/C Ratio(X)		0.61	0.88	0.88	0.90	0.88	0.88		0.94	0.69	0.91		0.92	0.81	0.84
Avail Cap(c_a), veh/h		360	653	664	732	841	829		435	921	648		366	391	343
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Uniform Delay (d), s/veh		65.6	50.0	50.0	64.1	47.3	47.3		60.7	51.2	42.7		64.3	57.4	57.7
Incr Delay (d2), s/veh		2.1	12.1	12.0	8.4	8.0	8.1		22.8	2.1	17.3		18.7	11.8	15.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.5	21.5	21.8	10.2	22.6	22.3		15.7	12.5	26.7		11.5	13.6	12.7
LnGrp Delay(d),s/veh		67.8	62.1	61.9	72.5	55.3	55.4		83.5	53.3	60.0		83.0	69.2	73.3
LnGrp LOS		E	E	E	E	E	E		F	D	E		F	E	E
Approach Vol, veh/h			1201			1523				1556				827	
Approach Delay, s/veh			63.1			60.5				62.2				74.6	
Approach LOS			E			E				E				E	

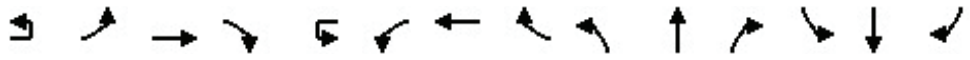
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	27.3	53.6	34.4	38.1	21.8	59.1	27.2	45.2
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	22.6	56.6	37.6	33.9	15.6	* 73	31.6	39.9
Max Q Clear Time (g_c+I1), s	22.2	42.0	29.7	28.2	11.3	45.6	22.6	41.9
Green Ext Time (p_c), s	0.7	5.9	0.3	1.6	0.2	7.2	0.2	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	63.9
HCM 2010 LOS	E

Notes

User approved ignoring U-Turning movement.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



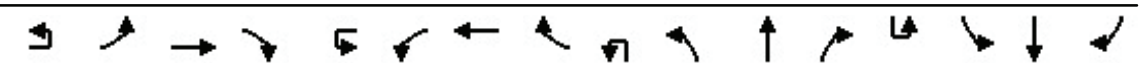
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	76	1300	140	10	184	1174	130	250	101	130	100	120	96
Future Volume (veh/h)	20	76	1300	140	10	184	1174	130	250	101	130	100	120	96
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		86	1477	129		227	1449	125	368	149	154	127	152	97
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		106	1384	120		208	1577	135	303	206	213	149	167	107
Arrive On Green		0.06	0.42	0.42		0.12	0.48	0.48	0.17	0.25	0.25	0.08	0.16	0.16
Sat Flow, veh/h		1774	3287	285		1774	3292	282	1774	840	868	1774	1056	674
Grp Volume(v), veh/h		86	790	816		227	775	799	368	0	303	127	0	249
Grp Sat Flow(s),veh/h/ln		1774	1770	1803		1774	1770	1805	1774	0	1708	1774	0	1730
Q Serve(g_s), s		7.2	63.2	63.2		17.6	60.8	62.1	25.6	0.0	24.4	10.6	0.0	21.2
Cycle Q Clear(g_c), s		7.2	63.2	63.2		17.6	60.8	62.1	25.6	0.0	24.4	10.6	0.0	21.2
Prop In Lane		1.00		0.16		1.00		0.16	1.00		0.51	1.00		0.39
Lane Grp Cap(c), veh/h		106	745	759		208	848	864	303	0	419	149	0	274
V/C Ratio(X)		0.81	1.06	1.07		1.09	0.91	0.92	1.22	0.00	0.72	0.85	0.00	0.91
Avail Cap(c_a), veh/h		116	745	759		208	848	864	303	0	430	175	0	311
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.49	0.49	0.49	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		69.7	43.4	43.4		66.2	36.2	36.6	62.2	0.0	52.0	67.8	0.0	62.1
Incr Delay (d2), s/veh		29.0	50.0	54.6		70.4	9.0	9.8	123.3	0.0	4.9	25.4	0.0	25.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.4	41.2	42.9		12.7	31.8	33.2	22.9	0.0	12.1	6.3	0.0	12.1
LnGrp Delay(d),s/veh		98.7	93.5	98.0		136.6	45.2	46.3	185.5	0.0	56.9	93.2	0.0	87.8
LnGrp LOS		F	F	F		F	D	D	F		E	F		F
Approach Vol, veh/h			1692				1801			671			376	
Approach Delay, s/veh			95.9				57.2			127.4			89.6	
Approach LOS			F				E			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.0	69.4	30.0	28.6	13.3	78.0	17.0	41.7
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	17.6	* 61	25.6	27.0	9.8	67.7	14.8	37.8
Max Q Clear Time (g_c+I1), s	19.6	65.2	27.6	23.2	9.2	64.1	12.6	26.4
Green Ext Time (p_c), s	0.0	0.0	0.0	0.4	0.0	2.8	0.0	1.0

Intersection Summary	
HCM 2010 Ctrl Delay	84.7
HCM 2010 LOS	F

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	230	1062	300	10	110	865	346	10	302	793	80	10	278	455	220
Future Volume (veh/h)	10	230	1062	300	10	110	865	346	10	302	793	80	10	278	455	220
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		258	1193	249		126	994	309		321	844	64		320	523	196
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		370	1435	297		167	1244	386		364	1048	79		363	768	335
Arrive On Green		0.21	0.49	0.49		0.03	0.22	0.22		0.14	0.29	0.29		0.18	0.36	0.36
Sat Flow, veh/h		1774	2912	602		3442	3818	1185		3442	4818	364		3442	3539	1541
Grp Volume(v), veh/h		258	721	721		126	882	421		321	593	315		320	523	196
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1614		1721	1695	1791		1721	1770	1541
Q Serve(g_s), s		18.9	48.8	50.0		5.1	34.5	34.6		12.8	22.7	22.8		12.7	17.5	9.2
Cycle Q Clear(g_c), s		18.9	48.8	50.0		5.1	34.5	34.6		12.8	22.7	22.8		12.7	17.5	9.2
Prop In Lane		1.00		0.35		1.00		0.73		1.00		0.20		1.00		1.00
Lane Grp Cap(c), veh/h		370	872	860		167	1104	526		364	737	390		363	768	335
V/C Ratio(X)		0.70	0.83	0.84		0.75	0.80	0.80		0.88	0.80	0.81		0.88	0.68	0.59
Avail Cap(c_a), veh/h		370	872	860		167	1104	526		369	802	424		383	852	371
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67		1.33	1.33	1.33		1.67	1.67	1.67
Upstream Filter(I)		0.09	0.09	0.09		0.91	0.91	0.91		0.85	0.85	0.85		1.00	1.00	1.00
Uniform Delay (d), s/veh		51.3	30.4	30.7		66.9	50.4	50.4		59.3	47.0	47.0		56.8	40.5	16.2
Incr Delay (d2), s/veh		0.4	0.9	1.0		14.5	5.6	11.1		17.8	5.5	10.2		18.9	2.5	3.0
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		9.3	24.0	24.3		2.8	17.0	17.0		7.0	11.1	12.4		7.0	8.7	5.1
LnGrp Delay(d),s/veh		51.8	31.3	31.7		81.4	55.9	61.5		77.0	52.4	57.2		75.8	43.0	19.3
LnGrp LOS		D	C	C		F	E	E		E	D	E		E	D	B
Approach Vol, veh/h			1700				1429				1229				1039	
Approach Delay, s/veh			34.6				59.8				60.1				48.6	
Approach LOS			C				E				E				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.2	74.3	19.2	35.3	34.5	51.0	19.2	35.4
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	6.8	65.5	15.0	33.7	26.6	* 46	15.6	33.1
Max Q Clear Time (g_c+I1), s	7.1	52.0	14.8	19.5	20.9	36.6	14.7	24.8
Green Ext Time (p_c), s	0.0	8.2	0.0	5.4	0.2	5.1	0.1	4.9

Intersection Summary	
HCM 2010 Ctrl Delay	49.8
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Future Volume (veh/h)	20	1924	140	400	1351	310	110	120	640	290	180	20
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.94	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1984	107	435	1468	249	126	138	644	322	200	20
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	28	1989	107	350	2973	906	193	121	720	345	250	25
Arrive On Green	0.03	0.81	0.81	0.20	0.58	0.58	0.11	0.07	0.07	0.19	0.15	0.15
Sat Flow, veh/h	1774	4931	265	1774	5085	1549	1774	1863	2631	1774	1661	166
Grp Volume(v), veh/h	21	1362	729	435	1468	249	126	138	644	322	0	220
Grp Sat Flow(s),veh/h/ln	1774	1695	1805	1774	1695	1549	1774	1863	1315	1774	0	1827
Q Serve(g_s), s	1.6	55.2	56.5	27.6	23.6	4.0	9.5	9.1	9.1	25.0	0.0	16.3
Cycle Q Clear(g_c), s	1.6	55.2	56.5	27.6	23.6	4.0	9.5	9.1	9.1	25.0	0.0	16.3
Prop In Lane	1.00		0.15	1.00		1.00	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	28	1368	728	350	2973	906	193	121	720	345	0	275
V/C Ratio(X)	0.74	1.00	1.00	1.24	0.49	0.27	0.65	1.14	0.89	0.93	0.00	0.80
Avail Cap(c_a), veh/h	75	1368	728	350	2973	906	193	121	720	393	0	405
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.21	0.21	0.21	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	67.5	13.4	13.5	56.2	17.0	1.8	59.8	65.4	32.9	55.5	0.0	57.4
Incr Delay (d2), s/veh	3.0	10.2	15.6	131.6	0.6	0.8	7.0	124.3	13.5	26.1	0.0	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	26.1	29.4	26.3	11.2	4.1	5.1	8.9	12.3	14.8	0.0	8.6
LnGrp Delay(d),s/veh	70.5	23.6	29.1	187.8	17.6	2.6	66.8	189.7	46.4	81.6	0.0	61.5
LnGrp LOS	E	C	F	F	B	A	E	F	D	F		E
Approach Vol, veh/h		2112			2152			908			542	
Approach Delay, s/veh		25.9			50.2			71.0			73.4	
Approach LOS		C			D			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	32.0	61.9	32.1	14.0	6.6	87.2	20.1	26.0
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	27.6	* 53	31.0	9.1	5.9	74.4	9.1	31.0
Max Q Clear Time (g_c+I1), s	29.6	58.5	27.0	11.1	3.6	25.6	11.5	18.3
Green Ext Time (p_c), s	0.0	0.0	0.2	0.0	0.0	23.8	0.0	0.6

Intersection Summary	
HCM 2010 Ctrl Delay	46.8
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Future Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.98	1.00		0.96	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		167	744	209		226	806	117	289	509	115	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	827	232		277	1004	146	322	943	212	
Arrive On Green		0.06	0.31	0.31		0.08	0.32	0.32	0.06	0.22	0.22	
Sat Flow, veh/h		3442	2701	759		3442	3091	449	3442	2848	639	
Grp Volume(v), veh/h		167	487	466		226	461	462	289	315	309	
Grp Sat Flow(s),veh/h/ln		1721	1770	1690		1721	1770	1770	1721	1770	1718	
Q Serve(g_s), s		6.0	33.2	33.2		8.1	30.0	30.0	10.5	19.8	20.0	
Cycle Q Clear(g_c), s		6.0	33.2	33.2		8.1	30.0	30.0	10.5	19.8	20.0	
Prop In Lane		1.00		0.45		1.00		0.25	1.00		0.37	
Lane Grp Cap(c), veh/h		213	542	517		277	575	575	322	586	569	
V/C Ratio(X)		0.78	0.90	0.90		0.82	0.80	0.80	0.90	0.54	0.54	
Avail Cap(c_a), veh/h		213	542	517		279	575	575	322	586	569	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	0.67	0.67	0.67	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.95	0.95	0.95	
Uniform Delay (d), s/veh		58.3	41.9	41.9		57.0	38.9	38.9	58.4	40.5	40.6	
Incr Delay (d2), s/veh		15.9	20.5	21.2		15.8	11.3	11.3	24.4	0.5	0.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	19.3	18.6		4.5	16.4	16.4	6.1	9.8	9.6	
LnGrp Delay(d),s/veh		74.1	62.4	63.1		72.8	50.2	50.2	82.8	41.0	41.2	
LnGrp LOS		E	E	E		E	D	D	F	D	D	
Approach Vol, veh/h			1120				1149			913		
Approach Delay, s/veh			64.4				54.6			54.3		
Approach LOS			E				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.5	43.6	16.2	51.7	12.2	45.9	21.3	46.6
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	10.2	38.0	11.8	47.3	7.8	40.4	23.8	35.3
Max Q Clear Time (g_c+I1), s	10.1	35.2	12.5	46.1	8.0	32.0	16.7	22.0
Green Ext Time (p_c), s	0.0	1.6	0.0	0.7	0.0	3.8	0.2	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	60.0
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	200	1086	150
Future Volume (veh/h)	200	1086	150
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	211	1143	126
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	238	1190	131
Arrive On Green	0.13	0.37	0.37
Sat Flow, veh/h	1774	3204	352
Grp Volume(v), veh/h	211	630	639
Grp Sat Flow(s),veh/h/ln	1774	1770	1787
Q Serve(g_s), s	14.7	43.8	44.1
Cycle Q Clear(g_c), s	14.7	43.8	44.1
Prop In Lane	1.00		0.20
Lane Grp Cap(c), veh/h	238	657	663
V/C Ratio(X)	0.89	0.96	0.96
Avail Cap(c_a), veh/h	335	664	671
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.6	38.7	38.8
Incr Delay (d2), s/veh	14.8	24.8	25.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	25.9	26.3
LnGrp Delay(d),s/veh	68.4	63.5	64.2
LnGrp LOS	E	E	E
Approach Vol, veh/h		1480	
Approach Delay, s/veh		64.5	
Approach LOS		E	
Timer			

User approved ignoring U-Turning movement.



Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Future Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		375	1059	64	566	987	148		191	436	412	373	802	262
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		407	1032	62	546	1027	154		208	736	564	389	807	264
Arrive On Green		0.12	0.31	0.31	0.16	0.33	0.33		0.12	0.21	0.21	0.22	0.31	0.31
Sat Flow, veh/h		3442	3383	204	3442	3071	460		1774	3539	1505	1774	2609	852
Grp Volume(v), veh/h		375	554	569	566	568	567		191	436	412	373	544	520
Grp Sat Flow(s),veh/h/ln		1721	1770	1817	1721	1770	1761		1774	1770	1505	1774	1770	1691
Q Serve(g_s), s		19.5	55.2	55.2	28.7	57.0	57.1		19.3	20.1	37.6	37.6	55.5	55.5
Cycle Q Clear(g_c), s		19.5	55.2	55.2	28.7	57.0	57.1		19.3	20.1	37.6	37.6	55.5	55.5
Prop In Lane		1.00		0.11	1.00		0.26		1.00		1.00	1.00		0.50
Lane Grp Cap(c), veh/h		407	540	554	546	592	589		208	736	564	389	548	523
V/C Ratio(X)		0.92	1.03	1.03	1.04	0.96	0.96		0.92	0.59	0.73	0.96	0.99	0.99
Avail Cap(c_a), veh/h		407	540	554	546	599	596		209	736	564	390	548	523
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		79.0	62.9	62.9	76.1	59.1	59.1		79.0	64.8	50.0	69.9	62.3	62.3
Incr Delay (d2), s/veh		25.7	45.5	45.2	48.4	27.0	27.4		39.1	1.1	4.5	34.8	36.7	37.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		10.7	33.8	34.7	17.3	32.4	32.3		11.7	10.0	18.6	22.2	32.8	31.5
LnGrp Delay(d),s/veh		104.7	108.4	108.1	124.6	86.1	86.6		118.0	65.8	54.5	104.7	99.0	100.1
LnGrp LOS		F	F	F	F	F	F		F	E	D	F	F	F
Approach Vol, veh/h			1498			1701				1039			1437	
Approach Delay, s/veh			107.3			99.1				70.9			100.9	
Approach LOS			F			F				E			F	

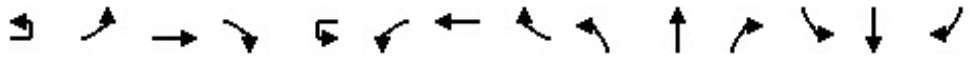
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	33.1	60.9	25.7	61.3	27.1	66.9	44.0	42.9
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	28.7	54.7	21.3	56.0	21.4	* 61	39.8	37.5
Max Q Clear Time (g_c+I1), s	30.7	57.2	21.3	57.5	21.5	59.1	39.6	39.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	96.5
HCM 2010 LOS	F

Notes

User approved ignoring U-Turning movement.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	82	1500	180	50	150	1450	120	100	62	60	90	161	160
Future Volume (veh/h)	10	82	1500	180	50	150	1450	120	100	62	60	90	161	160
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		86	1579	145		160	1543	97	112	70	55	99	177	136
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		106	1618	147		183	1815	114	122	188	148	117	189	145
Arrive On Green		0.06	0.49	0.49		0.10	0.54	0.54	0.07	0.20	0.20	0.07	0.19	0.19
Sat Flow, veh/h		1774	3280	298		1774	3383	212	1774	961	755	1774	978	751
Grp Volume(v), veh/h		86	845	879		160	803	837	112	0	125	99	0	313
Grp Sat Flow(s),veh/h/ln		1774	1770	1809		1774	1770	1825	1774	0	1716	1774	0	1729
Q Serve(g_s), s		6.7	64.9	67.0		12.4	54.0	54.9	8.8	0.0	8.8	7.7	0.0	25.0
Cycle Q Clear(g_c), s		6.7	64.9	67.0		12.4	54.0	54.9	8.8	0.0	8.8	7.7	0.0	25.0
Prop In Lane		1.00		0.16		1.00		0.12	1.00		0.44	1.00		0.43
Lane Grp Cap(c), veh/h		106	873	892		183	949	979	122	0	336	117	0	333
V/C Ratio(X)		0.81	0.97	0.99		0.87	0.85	0.85	0.92	0.00	0.37	0.85	0.00	0.94
Avail Cap(c_a), veh/h		117	873	892		214	949	979	122	0	337	117	0	335
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.16	0.16	0.16	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		65.0	34.4	35.0		61.9	27.6	27.8	64.8	0.0	48.8	64.7	0.0	55.7
Incr Delay (d2), s/veh		27.8	23.7	26.8		5.4	1.7	1.7	56.7	0.0	0.3	39.7	0.0	33.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.1	37.2	40.1		6.4	26.8	28.1	6.2	0.0	4.2	5.1	0.0	15.0
LnGrp Delay(d),s/veh		92.8	58.1	61.7		67.2	29.2	29.5	121.5	0.0	49.1	104.4	0.0	88.8
LnGrp LOS		F	E	E		E	C	C	F		D	F		F
Approach Vol, veh/h			1810				1800			237			412	
Approach Delay, s/veh			61.5				32.7			83.3			92.5	
Approach LOS			E				C			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.9	75.2	14.0	31.9	12.8	81.3	13.6	32.3
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	16.3	* 67	9.6	27.1	9.2	74.2	9.2	27.5
Max Q Clear Time (g_c+I1), s	14.4	69.0	10.8	27.0	8.7	56.9	9.7	10.8
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	10.5	0.0	0.4

Intersection Summary	
HCM 2010 Ctrl Delay	53.6
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	350	1040	280	10	330	1120	408	20	280	566	120	30	438	698	250
Future Volume (veh/h)	10	350	1040	280	10	330	1120	408	20	280	566	120	30	438	698	250
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.97		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		380	1130	231		367	1244	366		311	629	101		492	784	221
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		360	1181	240		378	1203	353		352	950	150		457	872	364
Arrive On Green		0.07	0.13	0.13		0.07	0.21	0.21		0.20	0.43	0.43		0.27	0.49	0.49
Sat Flow, veh/h		1774	2911	591		3442	3853	1132		3442	4404	696		3442	3539	1478
Grp Volume(v), veh/h		380	684	677		367	1094	516		311	482	248		492	784	221
Grp Sat Flow(s),veh/h/ln		1774	1770	1732		1721	1695	1595		1721	1695	1710		1721	1770	1478
Q Serve(g_s), s		28.4	53.7	54.4		14.9	43.7	43.7		12.3	15.8	16.3		18.6	28.3	9.7
Cycle Q Clear(g_c), s		28.4	53.7	54.4		14.9	43.7	43.7		12.3	15.8	16.3		18.6	28.3	9.7
Prop In Lane		1.00		0.34		1.00		0.71		1.00		0.41		1.00		1.00
Lane Grp Cap(c), veh/h		360	718	703		378	1058	498		352	731	369		457	872	364
V/C Ratio(X)		1.06	0.95	0.96		0.97	1.03	1.04		0.88	0.66	0.67		1.08	0.90	0.61
Avail Cap(c_a), veh/h		360	718	703		378	1058	498		364	799	403		457	930	388
HCM Platoon Ratio		0.33	0.33	0.33		0.67	0.67	0.67		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.81	0.81	0.81		0.91	0.91	0.91		1.00	1.00	1.00
Uniform Delay (d), s/veh		65.3	59.3	59.6		64.6	55.4	55.4		54.9	35.7	35.8		51.4	33.9	12.6
Incr Delay (d2), s/veh		31.9	3.8	4.7		33.7	34.2	45.9		19.0	2.2	4.7		64.0	11.8	3.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		17.2	27.1	27.1		8.9	25.5	25.6		6.7	7.6	8.1		12.8	15.1	4.6
LnGrp Delay(d),s/veh		97.2	63.1	64.3		98.3	89.5	101.3		73.9	37.9	40.5		115.4	45.7	16.1
LnGrp LOS		F	E	E		F	F	F		E	D	D		F	D	B
Approach Vol, veh/h			1741				1977				1041				1497	
Approach Delay, s/veh			71.0				94.2				49.3				64.2	
Approach LOS			E				F				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.8	62.1	18.7	39.4	32.8	49.1	23.0	35.1
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	56.8	14.8	36.8	25.6	43.7	18.6	33.0
Max Q Clear Time (g_c+I1), s	16.9	56.4	14.3	30.3	30.4	45.7	20.6	18.3
Green Ext Time (p_c), s	0.0	0.3	0.0	4.2	0.0	0.0	0.0	6.2

Intersection Summary	
HCM 2010 Ctrl Delay	73.1
HCM 2010 LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Future Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.95	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	52	1554	141	454	2100	239	148	80	293	244	200	50
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	67	1685	153	408	2872	893	173	133	830	340	237	59
Arrive On Green	0.04	0.37	0.37	0.23	0.56	0.56	0.10	0.07	0.07	0.19	0.17	0.17
Sat Flow, veh/h	1774	4527	410	1774	5085	1581	1774	1863	2642	1774	1428	357
Grp Volume(v), veh/h	52	1087	608	454	2100	239	148	80	293	244	0	250
Grp Sat Flow(s),veh/h/ln	1774	1583	1771	1774	1695	1581	1774	1863	1321	1774	0	1785
Q Serve(g_s), s	4.2	47.9	48.0	33.6	44.7	4.5	12.0	6.1	7.5	18.8	0.0	19.8
Cycle Q Clear(g_c), s	4.2	47.9	48.0	33.6	44.7	4.5	12.0	6.1	7.5	18.8	0.0	19.8
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	67	1179	659	408	2872	893	173	133	830	340	0	296
V/C Ratio(X)	0.78	0.92	0.92	1.11	0.73	0.27	0.86	0.60	0.35	0.72	0.00	0.84
Avail Cap(c_a), veh/h	104	1179	659	408	2872	893	375	410	1222	377	0	394
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.64	0.64	0.64	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.7	43.8	43.8	56.2	23.5	2.6	64.9	65.8	17.9	55.3	0.0	59.0
Incr Delay (d2), s/veh	4.6	9.1	14.6	78.5	1.7	0.7	8.8	1.6	0.1	4.5	0.0	9.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	22.5	26.2	25.3	21.3	4.3	6.3	3.2	2.8	9.6	0.0	10.6
LnGrp Delay(d),s/veh	74.3	52.9	58.4	134.7	25.2	3.3	73.7	67.4	18.0	59.8	0.0	68.6
LnGrp LOS	E	D	E	F	C	A	E	E	B	E		E
Approach Vol, veh/h		1747			2793			521			494	
Approach Delay, s/veh		55.4			41.1			41.4			64.2	
Approach LOS		E			D			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	38.0	59.8	32.9	15.3	9.9	87.9	19.1	29.1
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	33.6	* 30	31.0	32.1	8.6	54.6	30.9	32.2
Max Q Clear Time (g_c+I1), s	35.6	50.0	20.8	9.5	6.2	46.7	14.0	21.8
Green Ext Time (p_c), s	0.0	0.0	0.3	1.0	0.0	7.4	0.2	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	47.7
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Future Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.98	1.00		0.96	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		167	744	209		226	806	117	289	509	115	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	827	232		277	1004	146	322	943	212	
Arrive On Green		0.06	0.31	0.31		0.08	0.32	0.32	0.06	0.22	0.22	
Sat Flow, veh/h		3442	2701	759		3442	3091	449	3442	2848	639	
Grp Volume(v), veh/h		167	487	466		226	461	462	289	315	309	
Grp Sat Flow(s),veh/h/ln		1721	1770	1690		1721	1770	1770	1721	1770	1718	
Q Serve(g_s), s		6.0	33.2	33.2		8.1	30.0	30.0	10.5	19.8	20.0	
Cycle Q Clear(g_c), s		6.0	33.2	33.2		8.1	30.0	30.0	10.5	19.8	20.0	
Prop In Lane		1.00		0.45		1.00		0.25	1.00		0.37	
Lane Grp Cap(c), veh/h		213	542	517		277	575	575	322	586	569	
V/C Ratio(X)		0.78	0.90	0.90		0.82	0.80	0.80	0.90	0.54	0.54	
Avail Cap(c_a), veh/h		213	542	517		279	575	575	322	586	569	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	0.67	0.67	0.67	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.95	0.95	0.95	
Uniform Delay (d), s/veh		58.3	41.9	41.9		57.0	38.9	38.9	58.4	40.5	40.6	
Incr Delay (d2), s/veh		15.9	20.5	21.2		15.8	11.3	11.3	24.4	0.5	0.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	19.3	18.6		4.5	16.4	16.4	6.1	9.8	9.6	
LnGrp Delay(d),s/veh		74.1	62.4	63.1		72.8	50.2	50.2	82.8	41.0	41.2	
LnGrp LOS		E	E	E		E	D	D	F	D	D	
Approach Vol, veh/h			1120				1149			913		
Approach Delay, s/veh			64.4				54.6			54.3		
Approach LOS			E				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.5	43.6	16.2	51.7	12.2	45.9	21.3	46.6
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	10.2	38.0	11.8	47.3	7.8	40.4	23.8	35.3
Max Q Clear Time (g_c+I1), s	10.1	35.2	12.5	46.1	8.0	32.0	16.7	22.0
Green Ext Time (p_c), s	0.0	1.6	0.0	0.7	0.0	3.8	0.2	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	60.0
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	200	1086	150
Future Volume (veh/h)	200	1086	150
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	211	1143	126
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	238	1190	131
Arrive On Green	0.13	0.37	0.37
Sat Flow, veh/h	1774	3204	352
Grp Volume(v), veh/h	211	630	639
Grp Sat Flow(s),veh/h/ln	1774	1770	1787
Q Serve(g_s), s	14.7	43.8	44.1
Cycle Q Clear(g_c), s	14.7	43.8	44.1
Prop In Lane	1.00		0.20
Lane Grp Cap(c), veh/h	238	657	663
V/C Ratio(X)	0.89	0.96	0.96
Avail Cap(c_a), veh/h	335	664	671
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.6	38.7	38.8
Incr Delay (d2), s/veh	14.8	24.8	25.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	25.9	26.3
LnGrp Delay(d),s/veh	68.4	63.5	64.2
LnGrp LOS	E	E	E
Approach Vol, veh/h		1480	
Approach Delay, s/veh		64.5	
Approach LOS		E	
Timer			

User approved ignoring U-Turning movement.



Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Future Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		375	1059	64	566	987	148		191	436	412	373	802	262
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		407	1032	62	546	1027	154		208	736	564	389	807	264
Arrive On Green		0.12	0.31	0.31	0.16	0.33	0.33		0.12	0.21	0.21	0.22	0.31	0.31
Sat Flow, veh/h		3442	3383	204	3442	3071	460		1774	3539	1505	1774	2609	852
Grp Volume(v), veh/h		375	554	569	566	568	567		191	436	412	373	544	520
Grp Sat Flow(s),veh/h/ln		1721	1770	1817	1721	1770	1761		1774	1770	1505	1774	1770	1691
Q Serve(g_s), s		19.5	55.2	55.2	28.7	57.0	57.1		19.3	20.1	37.6	37.6	55.5	55.5
Cycle Q Clear(g_c), s		19.5	55.2	55.2	28.7	57.0	57.1		19.3	20.1	37.6	37.6	55.5	55.5
Prop In Lane		1.00		0.11	1.00		0.26		1.00		1.00	1.00		0.50
Lane Grp Cap(c), veh/h		407	540	554	546	592	589		208	736	564	389	548	523
V/C Ratio(X)		0.92	1.03	1.03	1.04	0.96	0.96		0.92	0.59	0.73	0.96	0.99	0.99
Avail Cap(c_a), veh/h		407	540	554	546	599	596		209	736	564	390	548	523
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		79.0	62.9	62.9	76.1	59.1	59.1		79.0	64.8	50.0	69.9	62.3	62.3
Incr Delay (d2), s/veh		25.7	45.5	45.2	48.4	27.0	27.4		39.1	1.1	4.5	34.8	36.7	37.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		10.7	33.8	34.7	17.3	32.4	32.3		11.7	10.0	18.6	22.2	32.8	31.5
LnGrp Delay(d),s/veh		104.7	108.4	108.1	124.6	86.1	86.6		118.0	65.8	54.5	104.7	99.0	100.1
LnGrp LOS		F	F	F	F	F	F		F	E	D	F	F	F
Approach Vol, veh/h			1498			1701				1039			1437	
Approach Delay, s/veh			107.3			99.1				70.9			100.9	
Approach LOS			F			F				E			F	

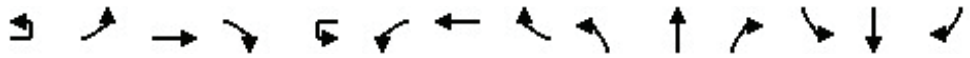
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	33.1	60.9	25.7	61.3	27.1	66.9	44.0	42.9
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	28.7	54.7	21.3	56.0	21.4	* 61	39.8	37.5
Max Q Clear Time (g_c+I1), s	30.7	57.2	21.3	57.5	21.5	59.1	39.6	39.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	96.5
HCM 2010 LOS	F

Notes

User approved ignoring U-Turning movement.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	82	1500	180	50	150	1455	120	100	62	60	90	161	155
Future Volume (veh/h)	10	82	1500	180	50	150	1455	120	100	62	60	90	161	155
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		86	1579	145		160	1548	97	112	70	55	99	177	130
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		106	1662	151		182	1860	116	125	185	145	116	187	137
Arrive On Green		0.06	0.51	0.51		0.10	0.55	0.55	0.07	0.19	0.19	0.07	0.19	0.19
Sat Flow, veh/h		1774	3281	298		1774	3384	211	1774	961	755	1774	999	733
Grp Volume(v), veh/h		86	845	879		160	806	839	112	0	125	99	0	307
Grp Sat Flow(s),veh/h/ln		1774	1770	1809		1774	1770	1826	1774	0	1716	1774	0	1732
Q Serve(g_s), s		7.2	67.6	69.9		13.3	56.5	57.5	9.4	0.0	9.5	8.3	0.0	26.3
Cycle Q Clear(g_c), s		7.2	67.6	69.9		13.3	56.5	57.5	9.4	0.0	9.5	8.3	0.0	26.3
Prop In Lane		1.00		0.16		1.00		0.12	1.00		0.44	1.00		0.42
Lane Grp Cap(c), veh/h		106	897	917		182	973	1003	125	0	331	116	0	324
V/C Ratio(X)		0.81	0.94	0.96		0.88	0.83	0.84	0.89	0.00	0.38	0.85	0.00	0.95
Avail Cap(c_a), veh/h		142	897	917		222	973	1003	125	0	331	116	0	324
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.16	0.16	0.16	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		69.7	34.9	35.5		66.4	27.9	28.2	69.1	0.0	52.7	69.4	0.0	60.2
Incr Delay (d2), s/veh		16.9	18.9	21.2		5.2	1.4	1.5	48.2	0.0	0.3	41.0	0.0	35.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.0	37.6	40.1		6.8	27.9	29.3	6.3	0.0	4.5	5.4	0.0	15.7
LnGrp Delay(d),s/veh		86.6	53.9	56.7		71.6	29.3	29.6	117.4	0.0	53.0	110.4	0.0	95.8
LnGrp LOS		F	D	E		E	C	C	F		D	F		F
Approach Vol, veh/h			1810				1805			237			406	
Approach Delay, s/veh			56.8				33.2			83.4			99.4	
Approach LOS			E				C			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.8	82.2	15.0	33.0	13.3	88.7	14.2	33.8
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	15.8	* 74	10.6	28.1	12.0	79.4	9.8	28.9
Max Q Clear Time (g_c+I1), s	15.3	71.9	11.4	28.3	9.2	59.5	10.3	11.5
Green Ext Time (p_c), s	0.1	1.5	0.0	0.0	0.0	11.6	0.0	0.4

Intersection Summary	
HCM 2010 Ctrl Delay	52.3
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	350	1040	280	10	330	1120	408	20	280	566	120	30	441	698	255
Future Volume (veh/h)	10	350	1040	280	10	330	1120	408	20	280	566	120	30	441	698	255
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.97		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		380	1130	231		367	1244	366		311	629	101		496	784	227
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		360	1181	240		378	1203	353		352	951	150		457	872	364
Arrive On Green		0.20	0.41	0.41		0.07	0.21	0.21		0.20	0.43	0.43		0.27	0.49	0.49
Sat Flow, veh/h		1774	2911	591		3442	3853	1132		3442	4404	696		3442	3539	1478
Grp Volume(v), veh/h		380	684	677		367	1094	516		311	482	248		496	784	227
Grp Sat Flow(s),veh/h/ln		1774	1770	1732		1721	1695	1595		1721	1695	1710		1721	1770	1478
Q Serve(g_s), s		28.4	52.4	53.4		14.9	43.7	43.7		12.3	15.8	16.3		18.6	28.2	10.1
Cycle Q Clear(g_c), s		28.4	52.4	53.4		14.9	43.7	43.7		12.3	15.8	16.3		18.6	28.2	10.1
Prop In Lane		1.00		0.34		1.00		0.71		1.00		0.41		1.00		1.00
Lane Grp Cap(c), veh/h		360	718	703		378	1058	498		352	732	369		457	872	364
V/C Ratio(X)		1.06	0.95	0.96		0.97	1.03	1.04		0.88	0.66	0.67		1.08	0.90	0.62
Avail Cap(c_a), veh/h		360	718	703		378	1058	498		364	799	403		457	930	389
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.81	0.81	0.81		0.91	0.91	0.91		1.00	1.00	1.00
Uniform Delay (d), s/veh		55.8	40.3	40.6		64.6	55.4	55.4		54.9	35.7	35.8		51.4	33.9	12.7
Incr Delay (d2), s/veh		32.1	3.8	4.7		33.9	34.2	45.9		19.0	2.2	4.7		66.9	11.7	3.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		17.1	26.2	26.3		8.9	25.5	25.6		6.7	7.6	8.1		13.0	15.1	4.8
LnGrp Delay(d),s/veh		87.9	44.1	45.3		98.5	89.5	101.3		73.9	37.9	40.5		118.3	45.6	16.5
LnGrp LOS		F	D	D		F	F	F		E	D	D		F	D	B
Approach Vol, veh/h			1741				1977				1041				1507	
Approach Delay, s/veh			54.1				94.3				49.3				65.2	
Approach LOS			D				F				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.8	62.1	18.7	39.4	32.8	49.1	23.0	35.1
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	56.8	14.8	36.8	25.6	43.7	18.6	33.0
Max Q Clear Time (g_c+I1), s	16.9	55.4	14.3	30.2	30.4	45.7	20.6	18.3
Green Ext Time (p_c), s	0.0	1.1	0.0	4.2	0.0	0.0	0.0	6.2

Intersection Summary	
HCM 2010 Ctrl Delay	68.6
HCM 2010 LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Future Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.95	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	52	1554	141	454	2100	239	148	80	293	244	200	50
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	67	1685	153	408	2872	893	173	133	830	340	237	59
Arrive On Green	0.04	0.37	0.37	0.23	0.56	0.56	0.10	0.07	0.07	0.19	0.17	0.17
Sat Flow, veh/h	1774	4527	410	1774	5085	1581	1774	1863	2642	1774	1428	357
Grp Volume(v), veh/h	52	1087	608	454	2100	239	148	80	293	244	0	250
Grp Sat Flow(s),veh/h/ln	1774	1583	1771	1774	1695	1581	1774	1863	1321	1774	0	1785
Q Serve(g_s), s	4.2	47.9	48.0	33.6	44.7	4.5	12.0	6.1	7.5	18.8	0.0	19.8
Cycle Q Clear(g_c), s	4.2	47.9	48.0	33.6	44.7	4.5	12.0	6.1	7.5	18.8	0.0	19.8
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	67	1179	659	408	2872	893	173	133	830	340	0	296
V/C Ratio(X)	0.78	0.92	0.92	1.11	0.73	0.27	0.86	0.60	0.35	0.72	0.00	0.84
Avail Cap(c_a), veh/h	104	1179	659	408	2872	893	375	410	1222	377	0	394
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.64	0.64	0.64	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.7	43.8	43.8	56.2	23.5	2.6	64.9	65.8	17.9	55.3	0.0	59.0
Incr Delay (d2), s/veh	4.6	9.1	14.6	78.5	1.7	0.7	8.8	1.6	0.1	4.5	0.0	9.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	22.5	26.2	25.3	21.3	4.3	6.3	3.2	2.8	9.6	0.0	10.6
LnGrp Delay(d),s/veh	74.3	52.9	58.4	134.7	25.2	3.3	73.7	67.4	18.0	59.8	0.0	68.6
LnGrp LOS	E	D	E	F	C	A	E	E	B	E		E
Approach Vol, veh/h		1747			2793			521			494	
Approach Delay, s/veh		55.4			41.1			41.4			64.2	
Approach LOS		E			D			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	38.0	59.8	32.9	15.3	9.9	87.9	19.1	29.1
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	33.6	* 30	31.0	32.1	8.6	54.6	30.9	32.2
Max Q Clear Time (g_c+I1), s	35.6	50.0	20.8	9.5	6.2	46.7	14.0	21.8
Green Ext Time (p_c), s	0.0	0.0	0.3	1.0	0.0	7.4	0.2	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	47.7
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBU
Lane Configurations												
Traffic Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Future Volume (veh/h)	10	150	670	263	20	210	750	140	272	478	140	10
Number		5	2	12		1	6	16	3	8	18	
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.98	1.00		0.96	
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	
Adj Flow Rate, veh/h		167	744	209		226	806	117	289	509	115	
Adj No. of Lanes		2	2	0		2	2	0	2	2	0	
Peak Hour Factor		0.90	0.90	0.90		0.93	0.93	0.93	0.94	0.94	0.94	
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	
Cap, veh/h		213	827	232		277	1004	146	322	943	212	
Arrive On Green		0.06	0.31	0.31		0.08	0.32	0.32	0.06	0.22	0.22	
Sat Flow, veh/h		3442	2701	759		3442	3091	449	3442	2848	639	
Grp Volume(v), veh/h		167	487	466		226	461	462	289	315	309	
Grp Sat Flow(s),veh/h/ln		1721	1770	1690		1721	1770	1770	1721	1770	1718	
Q Serve(g_s), s		6.0	33.2	33.2		8.1	30.0	30.0	10.5	19.8	20.0	
Cycle Q Clear(g_c), s		6.0	33.2	33.2		8.1	30.0	30.0	10.5	19.8	20.0	
Prop In Lane		1.00		0.45		1.00		0.25	1.00		0.37	
Lane Grp Cap(c), veh/h		213	542	517		277	575	575	322	586	569	
V/C Ratio(X)		0.78	0.90	0.90		0.82	0.80	0.80	0.90	0.54	0.54	
Avail Cap(c_a), veh/h		213	542	517		279	575	575	322	586	569	
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	0.67	0.67	0.67	
Upstream Filter(I)		1.00	1.00	1.00		1.00	1.00	1.00	0.95	0.95	0.95	
Uniform Delay (d), s/veh		58.3	41.9	41.9		57.0	38.9	38.9	58.4	40.5	40.6	
Incr Delay (d2), s/veh		15.9	20.5	21.2		15.8	11.3	11.3	24.4	0.5	0.6	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		3.3	19.3	18.6		4.5	16.4	16.4	6.1	9.8	9.6	
LnGrp Delay(d),s/veh		74.1	62.4	63.1		72.8	50.2	50.2	82.8	41.0	41.2	
LnGrp LOS		E	E	E		E	D	D	F	D	D	
Approach Vol, veh/h			1120				1149			913		
Approach Delay, s/veh			64.4				54.6			54.3		
Approach LOS			E				D			D		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.5	43.6	16.2	51.7	12.2	45.9	21.3	46.6
Change Period (Y+Rc), s	4.4	5.0	4.4	4.9	4.4	5.0	4.4	4.9
Max Green Setting (Gmax), s	10.2	38.0	11.8	47.3	7.8	40.4	23.8	35.3
Max Q Clear Time (g_c+I1), s	10.1	35.2	12.5	46.1	8.0	32.0	16.7	22.0
Green Ext Time (p_c), s	0.0	1.6	0.0	0.7	0.0	3.8	0.2	2.0

Intersection Summary	
HCM 2010 Ctrl Delay	60.0
HCM 2010 LOS	E

Notes

Movement	SBL	SBT	SBR
Lane Configurations			
Traffic Volume (veh/h)	200	1086	150
Future Volume (veh/h)	200	1086	150
Number	7	4	14
Initial Q (Qb), veh	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900
Adj Flow Rate, veh/h	211	1143	126
Adj No. of Lanes	1	2	0
Peak Hour Factor	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2
Cap, veh/h	238	1190	131
Arrive On Green	0.13	0.37	0.37
Sat Flow, veh/h	1774	3204	352
Grp Volume(v), veh/h	211	630	639
Grp Sat Flow(s),veh/h/ln	1774	1770	1787
Q Serve(g_s), s	14.7	43.8	44.1
Cycle Q Clear(g_c), s	14.7	43.8	44.1
Prop In Lane	1.00		0.20
Lane Grp Cap(c), veh/h	238	657	663
V/C Ratio(X)	0.89	0.96	0.96
Avail Cap(c_a), veh/h	335	664	671
HCM Platoon Ratio	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.6	38.7	38.8
Incr Delay (d2), s/veh	14.8	24.8	25.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.2	25.9	26.3
LnGrp Delay(d),s/veh	68.4	63.5	64.2
LnGrp LOS	E	E	E
Approach Vol, veh/h		1480	
Approach Delay, s/veh		64.5	
Approach LOS		E	
Timer			

User approved ignoring U-Turning movement.

Movement	EBU	EBL	EBT	EBR	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Future Volume (veh/h)	20	360	1017	80	532	928	171	20	180	410	493	321	690	310
Number		5	2	12	1	6	16		3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0	0	0	0		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96	1.00		0.96		1.00		0.95	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900	1863	1863	1900		1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h		375	1059	64	566	987	148		191	436	412	373	802	262
Adj No. of Lanes		2	2	0	2	2	0		1	2	1	1	2	0
Peak Hour Factor		0.96	0.96	0.96	0.94	0.94	0.94		0.94	0.94	0.94	0.86	0.86	0.86
Percent Heavy Veh, %		2	2	2	2	2	2		2	2	2	2	2	2
Cap, veh/h		407	1032	62	546	1027	154		208	736	564	389	807	264
Arrive On Green		0.12	0.31	0.31	0.16	0.33	0.33		0.12	0.21	0.21	0.22	0.31	0.31
Sat Flow, veh/h		3442	3383	204	3442	3071	460		1774	3539	1505	1774	2609	852
Grp Volume(v), veh/h		375	554	569	566	568	567		191	436	412	373	544	520
Grp Sat Flow(s),veh/h/ln		1721	1770	1817	1721	1770	1761		1774	1770	1505	1774	1770	1691
Q Serve(g_s), s		19.5	55.2	55.2	28.7	57.0	57.1		19.3	20.1	37.6	37.6	55.5	55.5
Cycle Q Clear(g_c), s		19.5	55.2	55.2	28.7	57.0	57.1		19.3	20.1	37.6	37.6	55.5	55.5
Prop In Lane		1.00		0.11	1.00		0.26		1.00		1.00	1.00		0.50
Lane Grp Cap(c), veh/h		407	540	554	546	592	589		208	736	564	389	548	523
V/C Ratio(X)		0.92	1.03	1.03	1.04	0.96	0.96		0.92	0.59	0.73	0.96	0.99	0.99
Avail Cap(c_a), veh/h		407	540	554	546	599	596		209	736	564	390	548	523
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		79.0	62.9	62.9	76.1	59.1	59.1		79.0	64.8	50.0	69.9	62.3	62.3
Incr Delay (d2), s/veh		25.7	45.5	45.2	48.4	27.0	27.4		39.1	1.1	4.5	34.8	36.7	37.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		10.7	33.8	34.7	17.3	32.4	32.3		11.7	10.0	18.6	22.2	32.8	31.5
LnGrp Delay(d),s/veh		104.7	108.4	108.1	124.6	86.1	86.6		118.0	65.8	54.5	104.7	99.0	100.1
LnGrp LOS		F	F	F	F	F	F		F	E	D	F	F	F
Approach Vol, veh/h			1498			1701				1039			1437	
Approach Delay, s/veh			107.3			99.1				70.9			100.9	
Approach LOS			F			F				E			F	

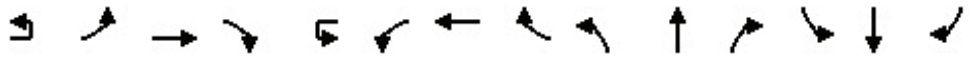
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	33.1	60.9	25.7	61.3	27.1	66.9	44.0	42.9
Change Period (Y+Rc), s	4.4	5.7	4.4	5.3	5.7	* 6.4	4.4	5.3
Max Green Setting (Gmax), s	28.7	54.7	21.3	56.0	21.4	* 61	39.8	37.5
Max Q Clear Time (g_c+I1), s	30.7	57.2	21.3	57.5	21.5	59.1	39.6	39.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0

Intersection Summary	
HCM 2010 Ctrl Delay	96.5
HCM 2010 LOS	F

Notes

User approved ignoring U-Turning movement.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	10	82	1500	180	50	152	1457	120	100	62	60	90	160	153
Future Volume (veh/h)	10	82	1500	180	50	152	1457	120	100	62	60	90	160	153
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		86	1579	145		162	1550	97	112	70	55	99	176	128
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		106	1667	152		184	1869	116	125	183	143	116	185	135
Arrive On Green		0.06	0.51	0.51		0.10	0.55	0.55	0.07	0.19	0.19	0.07	0.18	0.18
Sat Flow, veh/h		1774	3281	298		1774	3384	211	1774	961	755	1774	1003	730
Grp Volume(v), veh/h		86	845	879		162	807	840	112	0	125	99	0	304
Grp Sat Flow(s),veh/h/ln		1774	1770	1809		1774	1770	1826	1774	0	1716	1774	0	1733
Q Serve(g_s), s		7.2	67.4	69.7		13.5	56.3	57.3	9.4	0.0	9.5	8.3	0.0	26.0
Cycle Q Clear(g_c), s		7.2	67.4	69.7		13.5	56.3	57.3	9.4	0.0	9.5	8.3	0.0	26.0
Prop In Lane		1.00		0.16		1.00		0.12	1.00		0.44	1.00		0.42
Lane Grp Cap(c), veh/h		106	899	920		184	977	1008	125	0	326	116	0	320
V/C Ratio(X)		0.81	0.94	0.96		0.88	0.83	0.83	0.89	0.00	0.38	0.85	0.00	0.95
Avail Cap(c_a), veh/h		142	899	920		225	977	1008	125	0	326	116	0	320
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.16	0.16	0.16	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		69.7	34.7	35.3		66.3	27.6	27.8	69.1	0.0	53.1	69.4	0.0	60.5
Incr Delay (d2), s/veh		16.9	18.5	20.7		5.0	1.3	1.4	48.2	0.0	0.3	41.0	0.0	36.8
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.0	37.5	40.0		6.9	27.7	29.1	6.3	0.0	4.5	5.4	0.0	15.8
LnGrp Delay(d),s/veh		86.6	53.2	56.0		71.3	29.0	29.2	117.4	0.0	53.3	110.4	0.0	97.3
LnGrp LOS		F	D	E		E	C	C	F		D	F		F
Approach Vol, veh/h			1810				1809			237			403	
Approach Delay, s/veh			56.1				32.9			83.6			100.5	
Approach LOS			E				C			F			F	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.0	82.4	15.0	32.6	13.3	89.1	14.2	33.4
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	15.6	* 74	10.6	27.7	12.0	79.8	9.8	28.5
Max Q Clear Time (g_c+I1), s	15.5	71.7	11.4	28.0	9.2	59.3	10.3	11.5
Green Ext Time (p_c), s	0.1	1.9	0.0	0.0	0.0	11.8	0.0	0.4

Intersection Summary	
HCM 2010 Ctrl Delay	52.0
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	10	350	1041	280	10	330	1137	391	20	286	560	120	30	440	698	250
Future Volume (veh/h)	10	350	1041	280	10	330	1137	391	20	286	560	120	30	440	698	250
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.97		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		380	1132	231		367	1263	347		318	622	101		494	784	221
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		357	1181	239		372	1224	336		358	957	153		457	872	364
Arrive On Green		0.20	0.41	0.41		0.07	0.21	0.21		0.21	0.44	0.44		0.27	0.49	0.49
Sat Flow, veh/h		1774	2912	590		3442	3922	1076		3442	4397	702		3442	3539	1478
Grp Volume(v), veh/h		380	685	678		367	1091	519		318	477	246		494	784	221
Grp Sat Flow(s),veh/h/ln		1774	1770	1732		1721	1695	1608		1721	1695	1709		1721	1770	1478
Q Serve(g_s), s		28.1	52.5	53.5		14.9	43.7	43.7		12.6	15.5	16.0		18.6	28.3	9.8
Cycle Q Clear(g_c), s		28.1	52.5	53.5		14.9	43.7	43.7		12.6	15.5	16.0		18.6	28.3	9.8
Prop In Lane		1.00		0.34		1.00		0.67		1.00		0.41		1.00		1.00
Lane Grp Cap(c), veh/h		357	718	703		372	1058	502		358	738	372		457	872	364
V/C Ratio(X)		1.07	0.95	0.96		0.99	1.03	1.03		0.89	0.65	0.66		1.08	0.90	0.61
Avail Cap(c_a), veh/h		357	718	703		372	1058	502		364	799	403		457	930	388
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.09	0.09	0.09		0.81	0.81	0.81		0.91	0.91	0.91		1.00	1.00	1.00
Uniform Delay (d), s/veh		55.9	40.3	40.6		64.8	55.4	55.4		54.6	35.3	35.4		51.4	33.9	12.7
Incr Delay (d2), s/veh		35.7	3.9	4.8		38.3	33.4	45.0		19.9	2.0	4.4		65.4	11.8	3.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		17.3	26.5	26.6		9.1	25.4	25.7		6.9	7.4	8.0		12.9	15.1	4.6
LnGrp Delay(d),s/veh		91.7	44.3	45.5		103.1	88.7	100.3		74.5	37.3	39.8		116.8	45.7	16.2
LnGrp LOS		F	D	D		F	F	F		E	D	D		F	D	B
Approach Vol, veh/h			1743				1977				1041				1499	
Approach Delay, s/veh			55.1				94.4				49.3				64.8	
Approach LOS			E				F				D				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.5	62.1	19.0	39.4	32.5	49.1	23.0	35.4
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	56.8	14.8	36.8	25.6	43.7	18.6	33.0
Max Q Clear Time (g_c+I1), s	16.9	55.5	14.6	30.3	30.1	45.7	20.6	18.0
Green Ext Time (p_c), s	0.0	1.0	0.0	4.2	0.0	0.0	0.0	6.2

Intersection Summary	
HCM 2010 Ctrl Delay	68.9
HCM 2010 LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Future Volume (veh/h)	50	1507	180	440	2037	320	130	70	300	220	180	50
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.95	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	52	1554	141	454	2100	239	148	80	293	244	200	50
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	67	1685	153	408	2872	893	173	133	830	340	237	59
Arrive On Green	0.04	0.37	0.37	0.23	0.56	0.56	0.10	0.07	0.07	0.19	0.17	0.17
Sat Flow, veh/h	1774	4527	410	1774	5085	1581	1774	1863	2642	1774	1428	357
Grp Volume(v), veh/h	52	1087	608	454	2100	239	148	80	293	244	0	250
Grp Sat Flow(s),veh/h/ln	1774	1583	1771	1774	1695	1581	1774	1863	1321	1774	0	1785
Q Serve(g_s), s	4.2	47.9	48.0	33.6	44.7	4.5	12.0	6.1	7.5	18.8	0.0	19.8
Cycle Q Clear(g_c), s	4.2	47.9	48.0	33.6	44.7	4.5	12.0	6.1	7.5	18.8	0.0	19.8
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		0.20
Lane Grp Cap(c), veh/h	67	1179	659	408	2872	893	173	133	830	340	0	296
V/C Ratio(X)	0.78	0.92	0.92	1.11	0.73	0.27	0.86	0.60	0.35	0.72	0.00	0.84
Avail Cap(c_a), veh/h	104	1179	659	408	2872	893	375	410	1222	377	0	394
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.64	0.64	0.64	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.7	43.8	43.8	56.2	23.5	2.6	64.9	65.8	17.9	55.3	0.0	59.0
Incr Delay (d2), s/veh	4.6	9.1	14.6	78.5	1.7	0.7	8.8	1.6	0.1	4.5	0.0	9.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	22.5	26.2	25.3	21.3	4.3	6.3	3.2	2.8	9.6	0.0	10.6
LnGrp Delay(d),s/veh	74.3	52.9	58.4	134.7	25.2	3.3	73.7	67.4	18.0	59.8	0.0	68.6
LnGrp LOS	E	D	E	F	C	A	E	E	B	E		E
Approach Vol, veh/h		1747			2793			521			494	
Approach Delay, s/veh		55.4			41.1			41.4			64.2	
Approach LOS		E			D			D			E	

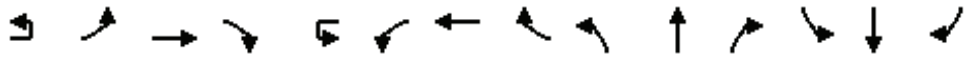
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	38.0	59.8	32.9	15.3	9.9	87.9	19.1	29.1
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	33.6	* 30	31.0	32.1	8.6	54.6	30.9	32.2
Max Q Clear Time (g_c+I1), s	35.6	50.0	20.8	9.5	6.2	46.7	14.0	21.8
Green Ext Time (p_c), s	0.0	0.0	0.3	1.0	0.0	7.4	0.2	0.7

Intersection Summary	
HCM 2010 Ctrl Delay	47.7
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	39	1138	187	3	50	1006	97	264	104	83	66	116	88
Future Volume (veh/h)	13	39	1138	187	3	50	1006	97	264	104	83	66	116	88
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		44	1293	182		62	1242	85	388	153	85	84	147	86
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		57	1400	196		79	1555	106	375	342	190	105	166	97
Arrive On Green		0.03	0.45	0.45		0.03	0.31	0.31	0.21	0.30	0.30	0.06	0.15	0.15
Sat Flow, veh/h		1774	3107	434		1774	3356	229	1774	1126	626	1774	1095	641
Grp Volume(v), veh/h		44	732	743		62	654	673	388	0	238	84	0	233
Grp Sat Flow(s),veh/h/ln		1774	1770	1771		1774	1770	1816	1774	0	1752	1774	0	1736
Q Serve(g_s), s		3.4	54.3	55.5		4.9	47.4	47.6	29.6	0.0	15.3	6.5	0.0	18.4
Cycle Q Clear(g_c), s		3.4	54.3	55.5		4.9	47.4	47.6	29.6	0.0	15.3	6.5	0.0	18.4
Prop In Lane		1.00		0.25		1.00		0.13	1.00		0.36	1.00		0.37
Lane Grp Cap(c), veh/h		57	798	798		79	820	842	375	0	532	105	0	262
V/C Ratio(X)		0.78	0.92	0.93		0.78	0.80	0.80	1.03	0.00	0.45	0.80	0.00	0.89
Avail Cap(c_a), veh/h		71	798	798		80	820	842	375	0	543	167	0	335
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.78	0.78	0.78	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		67.3	36.0	36.4		67.2	42.2	42.3	55.2	0.0	39.3	65.1	0.0	58.3
Incr Delay (d2), s/veh		26.5	17.2	18.8		29.0	6.3	6.2	55.6	0.0	0.2	5.6	0.0	17.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.1	30.3	31.2		3.0	24.7	25.4	20.3	0.0	7.4	3.4	0.0	10.2
LnGrp Delay(d),s/veh		93.8	53.3	55.2		96.3	48.5	48.5	110.8	0.0	39.5	70.6	0.0	76.0
LnGrp LOS		F	D	E		F	D	D	F		D	E		E
Approach Vol, veh/h			1519				1389			626			317	
Approach Delay, s/veh			55.4				50.6			83.7			74.6	
Approach LOS			E				D			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.6	69.3	34.0	26.1	8.9	71.1	12.7	47.4
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	6.3	* 58	29.6	27.0	5.6	57.9	13.2	43.4
Max Q Clear Time (g_c+I1), s	6.9	57.5	31.6	20.4	5.4	49.6	8.5	17.3
Green Ext Time (p_c), s	0.0	0.5	0.0	0.5	0.0	5.0	0.0	1.0

Intersection Summary	
HCM 2010 Ctrl Delay	59.9
HCM 2010 LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Future Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.95	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	2036	149	480	1654	204	147	105	672	289	172	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	119	2003	146	350	2735	833	211	134	740	313	234	5
Arrive On Green	0.13	0.83	0.83	0.20	0.54	0.54	0.12	0.07	0.07	0.18	0.13	0.13
Sat Flow, veh/h	1774	4826	351	1774	5085	1549	1774	1863	2643	1774	1811	42
Grp Volume(v), veh/h	2	1426	759	480	1654	204	147	105	672	289	0	176
Grp Sat Flow(s),veh/h/ln	1774	1695	1787	1774	1695	1549	1774	1863	1321	1774	0	1853
Q Serve(g_s), s	0.1	58.1	58.1	27.6	31.2	9.8	11.1	7.8	10.1	22.4	0.0	12.8
Cycle Q Clear(g_c), s	0.1	58.1	58.1	27.6	31.2	9.8	11.1	7.8	10.1	22.4	0.0	12.8
Prop In Lane	1.00		0.20	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	119	1407	742	350	2735	833	211	134	740	313	0	240
V/C Ratio(X)	0.02	1.01	1.02	1.37	0.60	0.24	0.70	0.78	0.91	0.92	0.00	0.73
Avail Cap(c_a), veh/h	119	1407	742	350	2735	833	211	134	740	393	0	410
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.39	0.39	0.39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	56.6	11.9	11.9	56.2	22.2	17.2	59.2	63.9	32.7	56.7	0.0	58.6
Incr Delay (d2), s/veh	0.0	18.4	26.9	184.8	1.0	0.7	8.9	24.3	14.9	21.8	0.0	1.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	29.0	32.3	31.5	14.8	4.3	6.0	4.9	13.0	12.9	0.0	6.7
LnGrp Delay(d),s/veh	56.6	30.3	38.8	241.0	23.2	17.9	68.2	88.2	47.6	78.6	0.0	60.3
LnGrp LOS	E	F	F	F	C	B	E	F	D	E		E
Approach Vol, veh/h		2187			2338			924			465	
Approach Delay, s/veh		33.3			67.4			55.5			71.6	
Approach LOS		C			E			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.0	63.4	29.6	15.0	14.7	80.7	21.6	23.0
Change Period (Y+Rc), s	4.4	5.3	4.9	4.9	5.3	* 5.4	4.9	4.9
Max Green Setting (Gmax), s	7.6	51.8	31.0	10.1	4.0	* 75	10.1	31.0
Max Q Clear Time (g_c+I1), s	29.6	60.1	24.4	12.1	2.1	33.2	13.1	14.8
Green Ext Time (p_c), s	0.0	0.0	0.3	0.0	0.0	25.1	0.0	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	53.3
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations												
Traffic Volume (veh/h)	13	39	1138	187	3	51	1016	97	264	104	83	66
Future Volume (veh/h)	13	39	1138	187	3	51	1016	97	264	104	83	66
Number		5	2	12		1	6	16	3	8	18	7
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863
Adj Flow Rate, veh/h		44	1293	182		63	1254	85	388	153	85	84
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2
Cap, veh/h		57	1423	199		80	1583	107	375	333	185	105
Arrive On Green		0.03	0.46	0.46		0.03	0.32	0.32	0.21	0.30	0.30	0.06
Sat Flow, veh/h		1774	3107	434		1774	3359	227	1774	1126	626	1774
Grp Volume(v), veh/h		44	732	743		63	660	679	388	0	238	84
Grp Sat Flow(s),veh/h/ln		1774	1770	1772		1774	1770	1816	1774	0	1752	1774
Q Serve(g_s), s		3.4	53.6	54.8		4.9	47.6	47.8	29.6	0.0	15.5	6.5
Cycle Q Clear(g_c), s		3.4	53.6	54.8		4.9	47.6	47.8	29.6	0.0	15.5	6.5
Prop In Lane		1.00		0.25		1.00		0.13	1.00		0.36	1.00
Lane Grp Cap(c), veh/h		57	811	811		80	834	856	375	0	518	105
V/C Ratio(X)		0.78	0.90	0.92		0.79	0.79	0.79	1.03	0.00	0.46	0.80
Avail Cap(c_a), veh/h		71	811	811		80	834	856	375	0	543	167
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.78	0.78	0.78	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh		67.3	35.1	35.4		67.2	41.6	41.7	55.2	0.0	40.2	65.1
Incr Delay (d2), s/veh		26.5	15.3	16.7		30.3	6.0	5.9	55.6	0.0	0.2	5.6
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.1	29.5	30.4		3.1	24.7	25.4	20.3	0.0	7.5	3.4
LnGrp Delay(d),s/veh		93.8	50.4	52.1		97.6	47.6	47.6	110.8	0.0	40.4	70.6
LnGrp LOS		F	D	D		F	D	D	F		D	E
Approach Vol, veh/h			1519				1402			626		
Approach Delay, s/veh			52.5				49.8			84.1		
Approach LOS			D				D			F		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.7	70.3	34.0	25.0	8.9	72.2	12.7	46.3
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	6.3	* 58	29.6	27.0	5.6	57.9	13.2	43.4
Max Q Clear Time (g_c+I1), s	6.9	56.8	31.6	19.3	5.4	49.8	8.5	17.5
Green Ext Time (p_c), s	0.0	1.2	0.0	0.5	0.0	4.9	0.0	1.0

Intersection Summary	
HCM 2010 Ctrl Delay	58.3
HCM 2010 LOS	E

Notes



Movement	SBT	SBR
Lane Configurations		
Traffic Volume (veh/h)	115	78
Future Volume (veh/h)	115	78
Number	4	14
Initial Q (Qb), veh	0	0
Ped-Bike Adj(A_pbT)		0.98
Parking Bus, Adj	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900
Adj Flow Rate, veh/h	146	74
Adj No. of Lanes	1	0
Peak Hour Factor	0.79	0.79
Percent Heavy Veh, %	2	2
Cap, veh/h	166	84
Arrive On Green	0.14	0.14
Sat Flow, veh/h	1159	588
Grp Volume(v), veh/h	0	220
Grp Sat Flow(s),veh/h/ln	0	1747
Q Serve(g_s), s	0.0	17.3
Cycle Q Clear(g_c), s	0.0	17.3
Prop In Lane		0.34
Lane Grp Cap(c), veh/h	0	250
V/C Ratio(X)	0.00	0.88
Avail Cap(c_a), veh/h	0	337
HCM Platoon Ratio	1.00	1.00
Upstream Filter(I)	0.00	1.00
Uniform Delay (d), s/veh	0.0	58.8
Incr Delay (d2), s/veh	0.0	14.8
Initial Q Delay(d3),s/veh	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	9.4
LnGrp Delay(d),s/veh	0.0	73.6
LnGrp LOS		E
Approach Vol, veh/h	304	
Approach Delay, s/veh	72.8	
Approach LOS	E	
Timer		

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Future Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.95	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	2036	149	480	1654	204	147	105	672	289	172	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	119	2003	146	350	2735	833	211	134	740	313	234	5
Arrive On Green	0.13	0.83	0.83	0.20	0.54	0.54	0.12	0.07	0.07	0.18	0.13	0.13
Sat Flow, veh/h	1774	4826	351	1774	5085	1549	1774	1863	2643	1774	1811	42
Grp Volume(v), veh/h	2	1426	759	480	1654	204	147	105	672	289	0	176
Grp Sat Flow(s),veh/h/ln	1774	1695	1787	1774	1695	1549	1774	1863	1321	1774	0	1853
Q Serve(g_s), s	0.1	58.1	58.1	27.6	31.2	9.8	11.1	7.8	10.1	22.4	0.0	12.8
Cycle Q Clear(g_c), s	0.1	58.1	58.1	27.6	31.2	9.8	11.1	7.8	10.1	22.4	0.0	12.8
Prop In Lane	1.00		0.20	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	119	1407	742	350	2735	833	211	134	740	313	0	240
V/C Ratio(X)	0.02	1.01	1.02	1.37	0.60	0.24	0.70	0.78	0.91	0.92	0.00	0.73
Avail Cap(c_a), veh/h	119	1407	742	350	2735	833	211	134	740	393	0	410
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.39	0.39	0.39	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	56.6	11.9	11.9	56.2	22.2	17.2	59.2	63.9	32.7	56.7	0.0	58.6
Incr Delay (d2), s/veh	0.0	18.4	26.9	184.8	1.0	0.7	8.9	24.3	14.9	21.8	0.0	1.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	29.0	32.3	31.5	14.8	4.3	6.0	4.9	13.0	12.9	0.0	6.7
LnGrp Delay(d),s/veh	56.6	30.3	38.8	241.0	23.2	17.9	68.2	88.2	47.6	78.6	0.0	60.3
LnGrp LOS	E	F	F	F	C	B	E	F	D	E		E
Approach Vol, veh/h		2187			2338			924			465	
Approach Delay, s/veh		33.3			67.4			55.5			71.6	
Approach LOS		C			E			E			E	

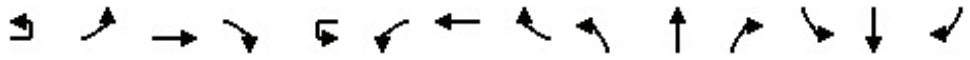
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.0	63.4	29.6	15.0	14.7	80.7	21.6	23.0
Change Period (Y+Rc), s	4.4	5.3	4.9	4.9	5.3	* 5.4	4.9	4.9
Max Green Setting (Gmax), s	27.6	51.8	31.0	10.1	4.0	* 75	10.1	31.0
Max Q Clear Time (g_c+I1), s	29.6	60.1	24.4	12.1	2.1	33.2	13.1	14.8
Green Ext Time (p_c), s	0.0	0.0	0.3	0.0	0.0	25.1	0.0	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	53.3
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



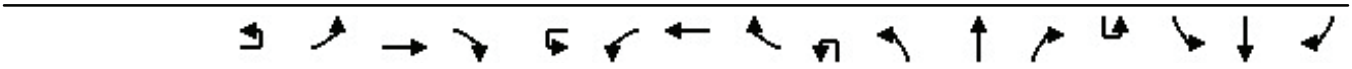
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	13	39	1138	187	3	54	1020	97	264	104	83	66	114	74
Future Volume (veh/h)	13	39	1138	187	3	54	1020	97	264	104	83	66	114	74
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		44	1293	182		67	1259	85	388	153	85	84	144	69
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79	0.79	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		57	1436	201		80	1597	108	375	329	183	105	165	79
Arrive On Green		0.03	0.46	0.46		0.03	0.32	0.32	0.21	0.29	0.29	0.06	0.14	0.14
Sat Flow, veh/h		1774	3107	434		1774	3360	226	1774	1126	626	1774	1183	567
Grp Volume(v), veh/h		44	732	743		67	662	682	388	0	238	84	0	213
Grp Sat Flow(s),veh/h/ln		1774	1770	1772		1774	1770	1816	1774	0	1752	1774	0	1751
Q Serve(g_s), s		3.4	53.2	54.4		5.3	47.6	47.9	29.6	0.0	15.6	6.5	0.0	16.7
Cycle Q Clear(g_c), s		3.4	53.2	54.4		5.3	47.6	47.9	29.6	0.0	15.6	6.5	0.0	16.7
Prop In Lane		1.00		0.25		1.00		0.12	1.00		0.36	1.00		0.32
Lane Grp Cap(c), veh/h		57	818	819		80	841	863	375	0	511	105	0	244
V/C Ratio(X)		0.78	0.90	0.91		0.84	0.79	0.79	1.03	0.00	0.47	0.80	0.00	0.87
Avail Cap(c_a), veh/h		71	818	819		80	841	863	375	0	543	167	0	338
HCM Platoon Ratio		1.00	1.00	1.00		0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.78	0.78	0.78	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		67.3	34.5	34.9		67.4	41.3	41.4	55.2	0.0	40.6	65.1	0.0	59.0
Incr Delay (d2), s/veh		26.5	14.4	15.6		41.0	5.8	5.7	55.6	0.0	0.2	5.6	0.0	13.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.1	29.1	30.2		3.5	24.6	25.5	20.3	0.0	7.6	3.4	0.0	9.0
LnGrp Delay(d),s/veh		93.8	49.0	50.5		108.4	47.1	47.1	110.8	0.0	40.9	70.6	0.0	72.3
LnGrp LOS		F	D	D		F	D	D	F		D	E		E
Approach Vol, veh/h			1519				1411			626			297	
Approach Delay, s/veh			51.0				50.0			84.2			71.8	
Approach LOS			D				D			F			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.7	70.9	34.0	24.4	8.9	72.7	12.7	45.8
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	6.3	* 58	29.6	27.0	5.6	57.9	13.2	43.4
Max Q Clear Time (g_c+I1), s	7.3	56.4	31.6	18.7	5.4	49.9	8.5	17.6
Green Ext Time (p_c), s	0.0	1.5	0.0	0.5	0.0	4.9	0.0	1.0

Intersection Summary	
HCM 2010 Ctrl Delay	57.6
HCM 2010 LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	177	903	265	5	212	717	273	2	289	805	164	5	222	444	169
Future Volume (veh/h)	3	177	903	265	5	212	717	273	2	289	805	164	5	222	444	169
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.98		1.00		0.98		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		199	1015	210		244	824	225		307	856	153		255	510	137
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		223	1213	250		404	1640	444		472	1025	182		299	659	286
Arrive On Green		0.13	0.42	0.42		0.23	0.83	0.83		0.14	0.24	0.24		0.17	0.37	0.37
Sat Flow, veh/h		1774	2913	601		3442	3960	1073		3442	4333	770		3442	3539	1538
Grp Volume(v), veh/h		199	616	609		244	705	344		307	669	340		255	510	137
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1642		1721	1695	1713		1721	1770	1538
Q Serve(g_s), s		15.5	43.6	43.9		8.9	8.5	8.7		11.8	26.3	26.5		10.1	17.8	7.3
Cycle Q Clear(g_c), s		15.5	43.6	43.9		8.9	8.5	8.7		11.8	26.3	26.5		10.1	17.8	7.3
Prop In Lane		1.00		0.34		1.00		0.65		1.00		0.45		1.00		1.00
Lane Grp Cap(c), veh/h		223	737	727		404	1404	680		472	802	405		299	659	286
V/C Ratio(X)		0.89	0.84	0.84		0.60	0.50	0.51		0.65	0.83	0.84		0.85	0.77	0.48
Avail Cap(c_a), veh/h		332	737	727		404	1404	680		472	857	433		339	837	364
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00		2.00	2.00	2.00
Upstream Filter(I)		0.16	0.16	0.16		0.91	0.91	0.91		0.82	0.82	0.82		1.00	1.00	1.00
Uniform Delay (d), s/veh		60.2	36.6	36.6		50.7	7.8	7.8		57.2	50.8	50.9		57.0	41.3	22.6
Incr Delay (d2), s/veh		2.6	1.9	2.0		1.7	1.2	2.4		2.1	6.2	12.1		15.4	4.5	2.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		7.7	21.6	21.6		4.3	3.9	4.3		5.8	12.9	13.9		5.4	9.1	3.5
LnGrp Delay(d),s/veh		62.8	38.4	38.6		52.4	8.9	10.2		59.3	57.0	63.0		72.4	45.9	24.7
LnGrp LOS		E	D	D		D	A	B		E	E	E		E	D	C
Approach Vol, veh/h			1424				1293				1316				902	
Approach Delay, s/veh			41.9				17.5				59.1				50.2	
Approach LOS			D				B				E				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.8	63.6	23.6	31.0	22.0	63.4	16.6	38.0
Change Period (Y+Rc), s	5.4	* 5.3	4.4	4.9	4.4	5.4	4.4	4.9
Max Green Setting (Gmax), s	13.5	* 58	16.1	33.1	26.2	45.5	13.8	35.4
Max Q Clear Time (g_c+I1), s	10.9	45.9	13.8	19.8	17.5	10.7	12.1	28.5
Green Ext Time (p_c), s	0.1	6.5	0.2	4.8	0.2	7.3	0.1	4.6

Intersection Summary	
HCM 2010 Ctrl Delay	41.6
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Future Volume (veh/h)	2	1975	180	442	1522	269	128	91	665	260	155	5
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.95	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	2	2036	149	480	1654	204	147	105	672	289	172	4
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.92	0.92	0.92	0.87	0.87	0.87	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	119	2003	146	350	2735	833	211	134	740	313	234	5
Arrive On Green	0.13	0.83	0.83	0.20	0.54	0.54	0.12	0.07	0.07	0.18	0.13	0.13
Sat Flow, veh/h	1774	4826	351	1774	5085	1549	1774	1863	2643	1774	1811	42
Grp Volume(v), veh/h	2	1426	759	480	1654	204	147	105	672	289	0	176
Grp Sat Flow(s),veh/h/ln	1774	1695	1787	1774	1695	1549	1774	1863	1321	1774	0	1853
Q Serve(g_s), s	0.1	58.1	58.1	27.6	31.2	9.8	11.1	7.8	10.1	22.4	0.0	12.8
Cycle Q Clear(g_c), s	0.1	58.1	58.1	27.6	31.2	9.8	11.1	7.8	10.1	22.4	0.0	12.8
Prop In Lane	1.00		0.20	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	119	1407	742	350	2735	833	211	134	740	313	0	240
V/C Ratio(X)	0.02	1.01	1.02	1.37	0.60	0.24	0.70	0.78	0.91	0.92	0.00	0.73
Avail Cap(c_a), veh/h	119	1407	742	350	2735	833	211	134	740	393	0	410
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.39	0.39	0.39	0.98	0.98	0.98	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	56.6	11.9	11.9	56.2	22.2	17.2	59.2	63.9	32.7	56.7	0.0	58.6
Incr Delay (d2), s/veh	0.0	18.4	26.9	184.5	1.0	0.7	8.9	24.3	14.9	21.8	0.0	1.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	29.0	32.3	31.4	14.8	4.3	6.0	4.9	13.0	12.9	0.0	6.7
LnGrp Delay(d),s/veh	56.6	30.3	38.8	240.7	23.1	17.9	68.2	88.2	47.6	78.6	0.0	60.3
LnGrp LOS	E	F	F	F	C	B	E	F	D	E		E
Approach Vol, veh/h		2187			2338			924			465	
Approach Delay, s/veh		33.3			67.3			55.5			71.6	
Approach LOS		C			E			E			E	

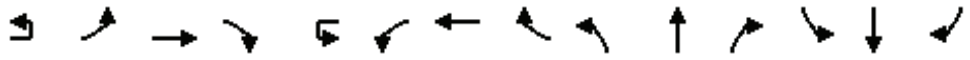
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	32.0	63.4	29.6	15.0	14.7	80.7	21.6	23.0
Change Period (Y+Rc), s	4.4	5.3	4.9	4.9	5.3	* 5.4	4.9	4.9
Max Green Setting (Gmax), s	27.6	51.8	31.0	10.1	4.0	* 75	10.1	31.0
Max Q Clear Time (g_c+I1), s	29.6	60.1	24.4	12.1	2.1	33.2	13.1	14.8
Green Ext Time (p_c), s	0.0	0.0	0.3	0.0	0.0	25.1	0.0	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	53.2
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	54	1274	169	47	76	1313	100	123	56	38	54	135	131
Future Volume (veh/h)	6	54	1274	169	47	76	1313	100	123	56	38	54	135	131
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		57	1341	134		81	1397	75	138	63	31	59	148	104
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		73	1788	178		100	1931	103	161	245	121	76	164	115
Arrive On Green		0.04	0.55	0.55		0.11	1.00	1.00	0.09	0.21	0.21	0.04	0.16	0.16
Sat Flow, veh/h		1774	3251	323		1774	3417	183	1774	1173	577	1774	1019	716
Grp Volume(v), veh/h		57	727	748		81	722	750	138	0	94	59	0	252
Grp Sat Flow(s),veh/h/ln		1774	1770	1805		1774	1770	1830	1774	0	1751	1774	0	1735
Q Serve(g_s), s		4.5	44.0	44.6		6.2	0.0	0.0	10.7	0.0	6.3	4.6	0.0	20.0
Cycle Q Clear(g_c), s		4.5	44.0	44.6		6.2	0.0	0.0	10.7	0.0	6.3	4.6	0.0	20.0
Prop In Lane		1.00		0.18		1.00		0.10	1.00		0.33	1.00		0.41
Lane Grp Cap(c), veh/h		73	973	992		100	1000	1035	161	0	366	76	0	279
V/C Ratio(X)		0.78	0.75	0.75		0.81	0.72	0.73	0.86	0.00	0.26	0.78	0.00	0.90
Avail Cap(c_a), veh/h		101	973	992		172	1000	1035	172	0	379	132	0	336
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.48	0.48	0.48	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		66.5	24.1	24.2		61.3	0.0	0.0	62.8	0.0	46.3	66.4	0.0	57.7
Incr Delay (d2), s/veh		14.9	5.2	5.3		2.8	2.2	2.2	29.3	0.0	0.1	6.4	0.0	21.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.5	22.8	23.7		3.1	0.6	0.6	6.6	0.0	3.1	2.4	0.0	11.3
LnGrp Delay(d),s/veh		81.4	29.3	29.5		64.2	2.2	2.2	92.1	0.0	46.4	72.8	0.0	79.4
LnGrp LOS		F	C	C		E	A	A	F		D	E		E
Approach Vol, veh/h			1532				1553			232			311	
Approach Delay, s/veh			31.4				5.4			73.6			78.2	
Approach LOS			C				A			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.3	83.2	17.1	27.4	10.2	85.3	10.4	34.2
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	13.6	* 67	13.6	27.1	8.0	71.4	10.4	30.3
Max Q Clear Time (g_c+I1), s	8.2	46.6	12.7	22.0	6.5	2.0	6.6	8.3
Green Ext Time (p_c), s	0.0	14.3	0.0	0.5	0.0	14.9	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	27.0
HCM 2010 LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Future Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.95	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1576	166	491	2110	212	169	61	333	214	176	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	27	1554	163	504	3141	976	192	138	988	298	227	18
Arrive On Green	0.02	0.35	0.35	0.28	0.62	0.62	0.11	0.07	0.07	0.17	0.13	0.13
Sat Flow, veh/h	1774	4455	469	1774	5085	1581	1774	1863	2646	1774	1697	135
Grp Volume(v), veh/h	21	1120	622	491	2110	212	169	61	333	214	0	190
Grp Sat Flow(s),veh/h/ln	1774	1583	1757	1774	1695	1581	1774	1863	1323	1774	0	1832
Q Serve(g_s), s	1.9	54.8	54.8	43.0	42.6	3.6	14.7	4.9	8.7	17.9	0.0	15.7
Cycle Q Clear(g_c), s	1.9	54.8	54.8	43.0	42.6	3.6	14.7	4.9	8.7	17.9	0.0	15.7
Prop In Lane	1.00		0.27	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	27	1105	613	504	3141	976	192	138	988	298	0	246
V/C Ratio(X)	0.77	1.01	1.02	0.97	0.67	0.22	0.88	0.44	0.34	0.72	0.00	0.77
Avail Cap(c_a), veh/h	45	1105	613	504	3141	976	349	381	1333	350	0	376
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.72	0.72	0.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	77.0	51.1	51.1	55.6	19.6	2.0	69.0	69.6	16.7	61.8	0.0	65.7
Incr Delay (d2), s/veh	11.8	26.4	34.8	33.3	1.2	0.5	9.4	0.8	0.1	4.2	0.0	2.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	28.0	32.5	25.8	20.3	3.6	7.7	2.6	3.2	9.1	0.0	8.1
LnGrp Delay(d),s/veh	88.8	77.5	85.9	88.9	20.8	2.5	78.4	70.4	16.8	66.0	0.0	67.9
LnGrp LOS	F	F	F	F	C	A	E	E	B	E		E
Approach Vol, veh/h		1763			2813			563			404	
Approach Delay, s/veh		80.6			31.3			41.1			66.9	
Approach LOS		F			C			D			E	

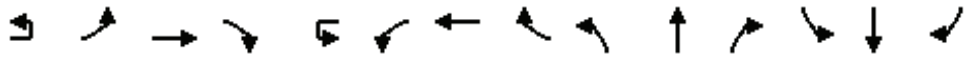
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.0	60.2	31.3	16.6	6.8	102.4	21.9	25.9
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	4.6	* 30	31.0	32.1	4.0	70.2	30.9	32.2
Max Q Clear Time (g_c+I1), s	5.0	56.8	19.9	10.7	3.9	44.6	16.7	17.7
Green Ext Time (p_c), s	0.0	0.0	0.2	1.0	0.0	21.6	0.3	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	50.6
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	54	1274	169	47	76	1318	100	123	56	38	54	135	126
Future Volume (veh/h)	6	54	1274	169	47	76	1318	100	123	56	38	54	135	126
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		57	1341	134		81	1402	75	138	63	31	59	148	98
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		73	1799	179		100	1944	104	161	241	119	76	165	109
Arrive On Green		0.04	0.55	0.55		0.11	1.00	1.00	0.09	0.21	0.21	0.04	0.16	0.16
Sat Flow, veh/h		1774	3251	323		1774	3418	182	1774	1173	577	1774	1046	693
Grp Volume(v), veh/h		57	727	748		81	724	753	138	0	94	59	0	246
Grp Sat Flow(s),veh/h/ln		1774	1770	1805		1774	1770	1831	1774	0	1751	1774	0	1739
Q Serve(g_s), s		4.5	43.6	44.2		6.2	0.0	0.0	10.7	0.0	6.3	4.6	0.0	19.4
Cycle Q Clear(g_c), s		4.5	43.6	44.2		6.2	0.0	0.0	10.7	0.0	6.3	4.6	0.0	19.4
Prop In Lane		1.00		0.18		1.00		0.10	1.00		0.33	1.00		0.40
Lane Grp Cap(c), veh/h		73	979	999		100	1007	1041	161	0	360	76	0	273
V/C Ratio(X)		0.78	0.74	0.75		0.81	0.72	0.72	0.86	0.00	0.26	0.78	0.00	0.90
Avail Cap(c_a), veh/h		101	979	999		172	1007	1041	172	0	379	132	0	337
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.48	0.48	0.48	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		66.5	23.7	23.8		61.3	0.0	0.0	62.8	0.0	46.7	66.4	0.0	57.9
Incr Delay (d2), s/veh		14.9	5.1	5.1		2.8	2.2	2.1	29.3	0.0	0.1	6.4	0.0	20.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.5	22.6	23.4		3.1	0.6	0.6	6.6	0.0	3.1	2.4	0.0	10.9
LnGrp Delay(d),s/veh		81.4	28.8	29.0		64.2	2.2	2.1	92.1	0.0	46.8	72.8	0.0	78.4
LnGrp LOS		F	C	C		E	A	A	F		D	E		E
Approach Vol, veh/h			1532				1558			232			305	
Approach Delay, s/veh			30.8				5.4			73.8			77.3	
Approach LOS			C				A			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.3	83.7	17.1	26.9	10.2	85.8	10.4	33.7
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	13.6	* 67	13.6	27.1	8.0	71.4	10.4	30.3
Max Q Clear Time (g_c+I1), s	8.2	46.2	12.7	21.4	6.5	2.0	6.6	8.3
Green Ext Time (p_c), s	0.0	14.5	0.0	0.5	0.0	15.0	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	26.6
HCM 2010 LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Future Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.95	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1576	166	491	2110	212	169	61	333	214	176	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	27	1554	163	504	3141	976	192	138	988	298	227	18
Arrive On Green	0.02	0.35	0.35	0.28	0.62	0.62	0.11	0.07	0.07	0.17	0.13	0.13
Sat Flow, veh/h	1774	4455	469	1774	5085	1581	1774	1863	2646	1774	1697	135
Grp Volume(v), veh/h	21	1120	622	491	2110	212	169	61	333	214	0	190
Grp Sat Flow(s),veh/h/ln	1774	1583	1757	1774	1695	1581	1774	1863	1323	1774	0	1832
Q Serve(g_s), s	1.9	54.8	54.8	43.0	42.6	3.6	14.7	4.9	8.7	17.9	0.0	15.7
Cycle Q Clear(g_c), s	1.9	54.8	54.8	43.0	42.6	3.6	14.7	4.9	8.7	17.9	0.0	15.7
Prop In Lane	1.00		0.27	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	27	1105	613	504	3141	976	192	138	988	298	0	246
V/C Ratio(X)	0.77	1.01	1.02	0.97	0.67	0.22	0.88	0.44	0.34	0.72	0.00	0.77
Avail Cap(c_a), veh/h	45	1105	613	504	3141	976	349	381	1333	350	0	376
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.72	0.72	0.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	77.0	51.1	51.1	55.6	19.6	2.0	69.0	69.6	16.7	61.8	0.0	65.7
Incr Delay (d2), s/veh	11.8	26.4	34.8	33.3	1.2	0.5	9.4	0.8	0.1	4.2	0.0	2.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	28.0	32.5	25.8	20.3	3.6	7.7	2.6	3.2	9.1	0.0	8.1
LnGrp Delay(d),s/veh	88.8	77.5	85.9	88.9	20.8	2.5	78.4	70.4	16.8	66.0	0.0	67.9
LnGrp LOS	F	F	F	F	C	A	E	E	B	E		E
Approach Vol, veh/h		1763			2813			563			404	
Approach Delay, s/veh		80.6			31.3			41.1			66.9	
Approach LOS		F			C			D			E	

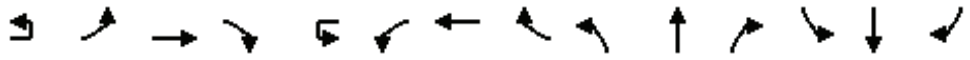
Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.0	60.2	31.3	16.6	6.8	102.4	21.9	25.9
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	4.6	* 30	31.0	32.1	4.0	70.2	30.9	32.2
Max Q Clear Time (g_c+I1), s	5.0	56.8	19.9	10.7	3.9	44.6	16.7	17.7
Green Ext Time (p_c), s	0.0	0.0	0.2	1.0	0.0	21.6	0.3	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	50.6
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



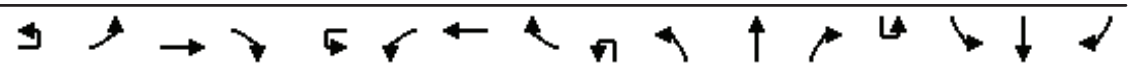
Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations														
Traffic Volume (veh/h)	6	54	1274	169	47	78	1320	100	123	56	38	54	134	124
Future Volume (veh/h)	6	54	1274	169	47	78	1320	100	123	56	38	54	134	124
Number		5	2	12		1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863	1863	1900
Adj Flow Rate, veh/h		57	1341	134		83	1404	75	138	63	31	59	147	96
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1	1	0
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91	0.91	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2	2	2
Cap, veh/h		73	1801	179		103	1950	104	161	239	118	76	164	107
Arrive On Green		0.04	0.55	0.55		0.12	1.00	1.00	0.09	0.20	0.20	0.04	0.16	0.16
Sat Flow, veh/h		1774	3251	323		1774	3418	182	1774	1173	577	1774	1053	687
Grp Volume(v), veh/h		57	727	748		83	725	754	138	0	94	59	0	243
Grp Sat Flow(s),veh/h/ln		1774	1770	1805		1774	1770	1831	1774	0	1751	1774	0	1740
Q Serve(g_s), s		4.5	43.6	44.2		6.4	0.0	0.0	10.7	0.0	6.3	4.6	0.0	19.2
Cycle Q Clear(g_c), s		4.5	43.6	44.2		6.4	0.0	0.0	10.7	0.0	6.3	4.6	0.0	19.2
Prop In Lane		1.00		0.18		1.00		0.10	1.00		0.33	1.00		0.40
Lane Grp Cap(c), veh/h		73	980	1000		103	1010	1044	161	0	357	76	0	271
V/C Ratio(X)		0.78	0.74	0.75		0.81	0.72	0.72	0.86	0.00	0.26	0.78	0.00	0.90
Avail Cap(c_a), veh/h		101	980	1000		172	1010	1044	172	0	379	132	0	337
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.48	0.48	0.48	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh		66.5	23.7	23.8		61.2	0.0	0.0	62.8	0.0	46.9	66.4	0.0	58.0
Incr Delay (d2), s/veh		14.9	5.1	5.1		2.8	2.1	2.1	29.3	0.0	0.1	6.4	0.0	19.9
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.5	22.6	23.4		3.2	0.6	0.6	6.6	0.0	3.1	2.4	0.0	10.7
LnGrp Delay(d),s/veh		81.4	28.7	28.9		63.9	2.1	2.1	92.1	0.0	47.1	72.8	0.0	77.9
LnGrp LOS		F	C	C		E	A	A	F		D	E		E
Approach Vol, veh/h			1532				1562			232			302	
Approach Delay, s/veh			30.8				5.4			73.8			76.9	
Approach LOS			C				A			E			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.5	83.7	17.1	26.7	10.2	86.1	10.4	33.4
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	13.6	* 67	13.6	27.1	8.0	71.4	10.4	30.3
Max Q Clear Time (g_c+I1), s	8.4	46.2	12.7	21.2	6.5	2.0	6.6	8.3
Green Ext Time (p_c), s	0.0	14.5	0.0	0.5	0.0	15.1	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	26.4
HCM 2010 LOS	C

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR	SBU	SBL	SBT	SBR
Lane Configurations																
Traffic Volume (veh/h)	3	272	888	225	8	278	986	290	13	273	524	146	31	381	655	182
Future Volume (veh/h)	3	272	888	225	8	278	986	290	13	273	524	146	31	381	655	182
Number		5	2	12		1	6	16		3	8	18		7	4	14
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.96		1.00		0.95		1.00		0.96		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900		1863	1863	1863
Adj Flow Rate, veh/h		296	965	172		309	1096	235		303	582	130		428	736	144
Adj No. of Lanes		1	2	0		2	3	0		2	3	0		2	2	1
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2		2	2	2
Cap, veh/h		382	1261	225		354	1257	269		346	840	183		468	843	351
Arrive On Green		0.14	0.28	0.28		0.03	0.10	0.10		0.20	0.41	0.41		0.27	0.48	0.48
Sat Flow, veh/h		1774	2984	531		3442	4152	890		3442	4147	905		3442	3539	1475
Grp Volume(v), veh/h		296	572	565		309	895	436		303	473	239		428	736	144
Grp Sat Flow(s),veh/h/ln		1774	1770	1746		1721	1695	1651		1721	1695	1662		1721	1770	1475
Q Serve(g_s), s		22.5	41.4	41.5		12.5	36.4	36.5		12.0	16.1	16.8		16.9	26.1	5.5
Cycle Q Clear(g_c), s		22.5	41.4	41.5		12.5	36.4	36.5		12.0	16.1	16.8		16.9	26.1	5.5
Prop In Lane		1.00		0.30		1.00		0.54		1.00		0.54		1.00		1.00
Lane Grp Cap(c), veh/h		382	748	738		354	1027	500		346	687	337		468	843	351
V/C Ratio(X)		0.77	0.76	0.77		0.87	0.87	0.87		0.88	0.69	0.71		0.91	0.87	0.41
Avail Cap(c_a), veh/h		382	748	738		354	1027	500		391	799	392		506	953	397
HCM Platoon Ratio		0.67	0.67	0.67		0.33	0.33	0.33		2.00	2.00	2.00		2.00	2.00	2.00
Upstream Filter(I)		0.41	0.41	0.41		0.84	0.84	0.84		0.93	0.93	0.93		1.00	1.00	1.00
Uniform Delay (d), s/veh		56.6	43.8	43.8		66.7	60.3	60.3		55.1	38.0	38.2		50.1	34.8	11.7
Incr Delay (d2), s/veh		3.8	3.1	3.2		17.3	8.7	16.2		15.6	2.7	6.0		19.4	9.1	1.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		11.5	21.0	20.7		6.8	18.4	18.9		6.4	7.7	8.3		9.2	13.7	3.0
LnGrp Delay(d),s/veh		60.4	46.9	47.0		84.0	69.0	76.5		70.7	40.6	44.2		69.5	43.8	13.0
LnGrp LOS		E	D	D		F	E	E		E	D	D		E	D	B
Approach Vol, veh/h			1433				1640				1015				1308	
Approach Delay, s/veh			49.8				73.8				50.4				48.8	
Approach LOS			D				E				D				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.8	64.5	18.5	38.2	35.5	47.8	23.5	33.3
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	14.4	53.0	15.9	37.7	24.9	* 42	20.6	33.0
Max Q Clear Time (g_c+I1), s	14.5	43.5	14.0	28.1	24.5	38.5	18.9	18.8
Green Ext Time (p_c), s	0.0	5.0	0.1	5.2	0.0	2.6	0.2	5.9

Intersection Summary	
HCM 2010 Ctrl Delay	57.0
HCM 2010 LOS	E

Notes

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Future Volume (veh/h)	20	1529	205	476	2047	294	149	54	335	193	158	18
Number	5	2	12	1	6	16	7	4	14	3	8	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.96	1.00		1.00	1.00		0.95	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1863	1900	1863	1863	1863	1863	1863	1863	1863	1863	1900
Adj Flow Rate, veh/h	21	1576	166	491	2110	212	169	61	333	214	176	14
Adj No. of Lanes	1	3	0	1	3	1	1	1	2	1	1	0
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.88	0.88	0.88	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	27	1554	163	504	3141	976	192	138	988	298	227	18
Arrive On Green	0.02	0.35	0.35	0.28	0.62	0.62	0.11	0.07	0.07	0.17	0.13	0.13
Sat Flow, veh/h	1774	4455	469	1774	5085	1581	1774	1863	2646	1774	1697	135
Grp Volume(v), veh/h	21	1120	622	491	2110	212	169	61	333	214	0	190
Grp Sat Flow(s),veh/h/ln	1774	1583	1757	1774	1695	1581	1774	1863	1323	1774	0	1832
Q Serve(g_s), s	1.9	54.8	54.8	43.0	42.6	3.6	14.7	4.9	8.7	17.9	0.0	15.7
Cycle Q Clear(g_c), s	1.9	54.8	54.8	43.0	42.6	3.6	14.7	4.9	8.7	17.9	0.0	15.7
Prop In Lane	1.00		0.27	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	27	1105	613	504	3141	976	192	138	988	298	0	246
V/C Ratio(X)	0.77	1.01	1.02	0.97	0.67	0.22	0.88	0.44	0.34	0.72	0.00	0.77
Avail Cap(c_a), veh/h	45	1105	613	504	3141	976	349	381	1333	350	0	376
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.72	0.72	0.72	0.95	0.95	0.95	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	77.0	51.1	51.1	55.6	19.6	2.0	69.0	69.6	16.7	61.8	0.0	65.7
Incr Delay (d2), s/veh	11.8	26.4	34.8	32.4	1.1	0.5	9.4	0.8	0.1	4.2	0.0	2.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	28.0	32.5	25.7	20.3	3.6	7.7	2.6	3.2	9.1	0.0	8.1
LnGrp Delay(d),s/veh	88.8	77.5	85.9	88.0	20.7	2.5	78.4	70.4	16.8	66.0	0.0	67.9
LnGrp LOS	F	F	F	F	C	A	E	E	B	E		E
Approach Vol, veh/h		1763			2813			563			404	
Approach Delay, s/veh		80.6			31.1			41.1			66.9	
Approach LOS		F			C			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.0	60.2	31.3	16.6	6.8	102.4	21.9	25.9
Change Period (Y+Rc), s	4.4	* 5.4	4.9	4.9	4.4	5.4	4.9	4.9
Max Green Setting (Gmax), s	4.6	* 30	31.0	32.1	4.0	70.2	30.9	32.2
Max Q Clear Time (g_c+I1), s	5.0	56.8	19.9	10.7	3.9	44.6	16.7	17.7
Green Ext Time (p_c), s	0.0	0.0	0.2	1.0	0.0	21.6	0.3	0.5

Intersection Summary	
HCM 2010 Ctrl Delay	50.5
HCM 2010 LOS	D

Notes

User approved pedestrian interval to be less than phase max green.

* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations												
Traffic Volume (veh/h)	13	39	1100	85	3	50	987	92	184	89	83	60
Future Volume (veh/h)	13	39	1100	85	3	50	987	92	184	89	83	60
Number		5	2	12		1	6	16	3	8	18	7
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863
Adj Flow Rate, veh/h		44	1250	67		62	1219	79	271	131	85	76
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2
Cap, veh/h		56	1601	86		80	1626	105	284	264	171	97
Arrive On Green		0.03	0.47	0.47		0.04	0.48	0.48	0.16	0.25	0.25	0.05
Sat Flow, veh/h		1774	3411	183		1774	3370	218	1774	1056	685	1774
Grp Volume(v), veh/h		44	648	669		62	639	659	271	0	216	76
Grp Sat Flow(s),veh/h/ln		1774	1770	1824		1774	1770	1818	1774	0	1741	1774
Q Serve(g_s), s		2.7	33.7	33.8		3.8	32.2	32.3	16.7	0.0	11.7	4.7
Cycle Q Clear(g_c), s		2.7	33.7	33.8		3.8	32.2	32.3	16.7	0.0	11.7	4.7
Prop In Lane		1.00		0.10		1.00		0.12	1.00		0.39	1.00
Lane Grp Cap(c), veh/h		56	830	856		80	854	877	284	0	436	97
V/C Ratio(X)		0.78	0.78	0.78		0.78	0.75	0.75	0.95	0.00	0.50	0.78
Avail Cap(c_a), veh/h		74	830	856		81	854	877	284	0	543	166
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.73	0.73	0.73	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh		52.9	24.4	24.5		52.0	23.1	23.1	45.8	0.0	35.3	51.3
Incr Delay (d2), s/veh		23.5	7.2	7.0		26.4	4.4	4.3	40.8	0.0	0.3	5.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.7	18.0	18.6		2.4	16.7	17.2	11.3	0.0	5.7	2.4
LnGrp Delay(d),s/veh		76.4	31.6	31.5		78.4	27.5	27.4	86.6	0.0	35.6	56.4
LnGrp LOS		E	C	C		E	C	C	F		D	E
Approach Vol, veh/h			1361				1360			487		
Approach Delay, s/veh			33.0				29.8			64.0		
Approach LOS			C				C			E		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.3	57.8	22.0	20.8	7.9	59.3	10.4	32.4
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	5.0	* 41	17.6	27.0	4.6	40.9	10.3	34.3
Max Q Clear Time (g_c+I1), s	5.8	35.8	18.7	15.0	4.7	34.3	6.7	13.7
Green Ext Time (p_c), s	0.0	4.4	0.0	0.6	0.0	4.1	0.0	0.8

Intersection Summary	
HCM 2010 Ctrl Delay	37.5
HCM 2010 LOS	D

Notes

Movement	SBT	SBR
Lane Configurations		
Traffic Volume (veh/h)	97	88
Future Volume (veh/h)	97	88
Number	4	14
Initial Q (Qb), veh	0	0
Ped-Bike Adj(A_pbT)		0.98
Parking Bus, Adj	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900
Adj Flow Rate, veh/h	123	86
Adj No. of Lanes	1	0
Peak Hour Factor	0.79	0.79
Percent Heavy Veh, %	2	2
Cap, veh/h	147	103
Arrive On Green	0.14	0.14
Sat Flow, veh/h	1014	709
Grp Volume(v), veh/h	0	209
Grp Sat Flow(s),veh/h/ln	0	1723
Q Serve(g_s), s	0.0	13.0
Cycle Q Clear(g_c), s	0.0	13.0
Prop In Lane		0.41
Lane Grp Cap(c), veh/h	0	250
V/C Ratio(X)	0.00	0.84
Avail Cap(c_a), veh/h	0	423
HCM Platoon Ratio	1.00	1.00
Upstream Filter(I)	0.00	1.00
Uniform Delay (d), s/veh	0.0	45.8
Incr Delay (d2), s/veh	0.0	2.9
Initial Q Delay(d3),s/veh	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	6.4
LnGrp Delay(d),s/veh	0.0	48.6
LnGrp LOS		D
Approach Vol, veh/h	285	
Approach Delay, s/veh	50.7	
Approach LOS	D	
Timer		

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations												
Traffic Volume (veh/h)	13	39	1100	85	3	54	1001	92	184	89	83	60
Future Volume (veh/h)	13	39	1100	85	3	54	1001	92	184	89	83	60
Number		5	2	12		1	6	16	3	8	18	7
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.98	1.00		1.00	1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863
Adj Flow Rate, veh/h		44	1250	67		67	1236	79	271	131	85	76
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1
Peak Hour Factor		0.88	0.88	0.88		0.81	0.81	0.81	0.68	0.68	0.68	0.79
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2
Cap, veh/h		56	1631	87		86	1669	107	284	251	163	97
Arrive On Green		0.03	0.48	0.48		0.05	0.49	0.49	0.16	0.24	0.24	0.05
Sat Flow, veh/h		1774	3411	183		1774	3373	215	1774	1056	685	1774
Grp Volume(v), veh/h		44	648	669		67	648	667	271	0	216	76
Grp Sat Flow(s),veh/h/ln		1774	1770	1824		1774	1770	1819	1774	0	1741	1774
Q Serve(g_s), s		2.7	33.1	33.3		4.1	32.1	32.2	16.7	0.0	11.9	4.7
Cycle Q Clear(g_c), s		2.7	33.1	33.3		4.1	32.1	32.2	16.7	0.0	11.9	4.7
Prop In Lane		1.00		0.10		1.00		0.12	1.00		0.39	1.00
Lane Grp Cap(c), veh/h		56	846	872		86	876	900	284	0	414	97
V/C Ratio(X)		0.78	0.77	0.77		0.78	0.74	0.74	0.95	0.00	0.52	0.78
Avail Cap(c_a), veh/h		74	846	872		87	876	900	284	0	543	166
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.72	0.72	0.72	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh		52.9	23.6	23.7		51.8	22.1	22.2	45.8	0.0	36.5	51.3
Incr Delay (d2), s/veh		23.5	6.5	6.4		24.9	4.1	4.0	40.8	0.0	0.4	5.1
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		1.7	17.7	18.3		2.6	16.6	17.1	11.3	0.0	5.7	2.4
LnGrp Delay(d),s/veh		76.4	30.2	30.1		76.7	26.2	26.2	86.6	0.0	36.9	56.4
LnGrp LOS		E	C	C		E	C	C	F		D	E
Approach Vol, veh/h			1361				1382			487		
Approach Delay, s/veh			31.6				28.7			64.6		
Approach LOS			C				C			E		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.7	58.8	22.0	19.5	7.9	60.6	10.4	31.1
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	5.4	* 41	17.6	27.0	4.6	40.9	10.3	34.3
Max Q Clear Time (g_c+I1), s	6.1	35.3	18.7	13.6	4.7	34.2	6.7	13.9
Green Ext Time (p_c), s	0.0	4.5	0.0	0.6	0.0	4.2	0.0	0.8

Intersection Summary	
HCM 2010 Ctrl Delay	36.5
HCM 2010 LOS	D

Notes



Movement	SBT	SBR
Lane Configurations		
Traffic Volume (veh/h)	95	74
Future Volume (veh/h)	95	74
Number	4	14
Initial Q (Qb), veh	0	0
Ped-Bike Adj(A_pbT)		0.98
Parking Bus, Adj	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900
Adj Flow Rate, veh/h	120	69
Adj No. of Lanes	1	0
Peak Hour Factor	0.79	0.79
Percent Heavy Veh, %	2	2
Cap, veh/h	146	84
Arrive On Green	0.13	0.13
Sat Flow, veh/h	1103	634
Grp Volume(v), veh/h	0	189
Grp Sat Flow(s),veh/h/ln	0	1737
Q Serve(g_s), s	0.0	11.6
Cycle Q Clear(g_c), s	0.0	11.6
Prop In Lane		0.37
Lane Grp Cap(c), veh/h	0	230
V/C Ratio(X)	0.00	0.82
Avail Cap(c_a), veh/h	0	426
HCM Platoon Ratio	1.00	1.00
Upstream Filter(I)	0.00	1.00
Uniform Delay (d), s/veh	0.0	46.4
Incr Delay (d2), s/veh	0.0	2.8
Initial Q Delay(d3),s/veh	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	5.8
LnGrp Delay(d),s/veh	0.0	49.2
LnGrp LOS		D
Approach Vol, veh/h	265	
Approach Delay, s/veh	51.3	
Approach LOS	D	
Timer		

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Lane Configurations												
Traffic Volume (veh/h)	3	172	870	259	5	92	699	263	2	284	785	66
Future Volume (veh/h)	3	172	870	259	5	92	699	263	2	284	785	66
Number		5	2	12		1	6	16		3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.98		1.00		0.97		1.00		0.98
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h		193	978	203		106	803	213		302	835	49
Adj No. of Lanes		1	2	0		2	3	0		2	3	0
Peak Hour Factor		0.89	0.89	0.89		0.87	0.87	0.87		0.94	0.94	0.94
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2
Cap, veh/h		419	1507	312		150	1267	333		352	1072	63
Arrive On Green		0.24	0.52	0.52		0.09	0.64	0.64		0.10	0.22	0.22
Sat Flow, veh/h		1774	2911	603		3442	3985	1047		3442	4909	287
Grp Volume(v), veh/h		193	594	587		106	682	334		302	576	308
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1642		1721	1695	1806
Q Serve(g_s), s		13.0	34.1	34.2		4.2	17.2	17.5		12.1	22.4	22.5
Cycle Q Clear(g_c), s		13.0	34.1	34.2		4.2	17.2	17.5		12.1	22.4	22.5
Prop In Lane		1.00		0.35		1.00		0.64		1.00		0.16
Lane Grp Cap(c), veh/h		419	916	903		150	1078	522		352	740	395
V/C Ratio(X)		0.46	0.65	0.65		0.71	0.63	0.64		0.86	0.78	0.78
Avail Cap(c_a), veh/h		419	916	903		187	1078	522		433	826	440
HCM Platoon Ratio		1.00	1.00	1.00		2.00	2.00	2.00		1.00	1.00	1.00
Upstream Filter(I)		0.40	0.40	0.40		0.93	0.93	0.93		0.89	0.89	0.89
Uniform Delay (d), s/veh		45.8	24.5	24.5		63.0	20.5	20.6		61.9	51.5	51.6
Incr Delay (d2), s/veh		0.1	1.4	1.5		5.3	2.6	5.5		10.5	4.5	8.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		6.4	17.0	16.8		2.1	8.2	8.6		6.3	10.9	12.1
LnGrp Delay(d),s/veh		45.9	25.9	26.0		68.3	23.2	26.1		72.4	56.0	60.0
LnGrp LOS		D	C	C		E	C	C		E	E	E
Approach Vol, veh/h			1374				1122				1186	
Approach Delay, s/veh			28.8				28.3				61.2	
Approach LOS			C				C				E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.5	77.8	18.7	33.0	38.4	49.9	16.2	35.5
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	7.6	62.7	17.6	33.1	25.7	* 45	16.6	34.1
Max Q Clear Time (g_c+I1), s	6.2	36.2	14.1	20.6	15.0	19.5	11.6	24.5
Green Ext Time (p_c), s	0.0	9.3	0.2	4.4	0.2	6.5	0.2	5.4

Intersection Summary	
HCM 2010 Ctrl Delay	43.0
HCM 2010 LOS	D

Notes

Movement	SBU	SBL	SBT	SBR
Lane Configurations				
Traffic Volume (veh/h)	5	207	418	168
Future Volume (veh/h)	5	207	418	168
Number		7	4	14
Initial Q (Qb), veh		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97
Parking Bus, Adj		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1863
Adj Flow Rate, veh/h		238	480	136
Adj No. of Lanes		2	2	1
Peak Hour Factor		0.87	0.87	0.87
Percent Heavy Veh, %		2	2	2
Cap, veh/h		291	710	309
Arrive On Green		0.03	0.07	0.07
Sat Flow, veh/h		3442	3539	1539
Grp Volume(v), veh/h		238	480	136
Grp Sat Flow(s),veh/h/ln		1721	1770	1539
Q Serve(g_s), s		9.6	18.6	7.3
Cycle Q Clear(g_c), s		9.6	18.6	7.3
Prop In Lane		1.00		1.00
Lane Grp Cap(c), veh/h		291	710	309
V/C Ratio(X)		0.82	0.68	0.44
Avail Cap(c_a), veh/h		408	837	364
HCM Platoon Ratio		0.33	0.33	0.33
Upstream Filter(I)		1.00	1.00	1.00
Uniform Delay (d), s/veh		67.0	60.9	21.7
Incr Delay (d2), s/veh		6.1	2.4	1.7
Initial Q Delay(d3),s/veh		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		4.8	9.4	5.0
LnGrp Delay(d),s/veh		73.0	63.3	23.4
LnGrp LOS		E	E	C
Approach Vol, veh/h			854	
Approach Delay, s/veh			59.7	
Approach LOS			E	
Timer				

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations												
Traffic Volume (veh/h)	6	54	1243	140	47	76	1277	98	88	50	38	52
Future Volume (veh/h)	6	54	1243	140	47	76	1277	98	88	50	38	52
Number		5	2	12		1	6	16	3	8	18	7
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.99	1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863
Adj Flow Rate, veh/h		57	1308	103		81	1359	73	99	56	31	57
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2
Cap, veh/h		73	1704	134		103	1809	97	112	212	117	73
Arrive On Green		0.04	0.51	0.51		0.06	0.53	0.53	0.06	0.19	0.19	0.04
Sat Flow, veh/h		1774	3325	261		1774	3417	183	1774	1121	621	1774
Grp Volume(v), veh/h		57	695	716		81	703	729	99	0	87	57
Grp Sat Flow(s),veh/h/ln		1774	1770	1816		1774	1770	1830	1774	0	1742	1774
Q Serve(g_s), s		3.2	31.5	31.8		4.5	31.0	31.2	5.5	0.0	4.3	3.2
Cycle Q Clear(g_c), s		3.2	31.5	31.8		4.5	31.0	31.2	5.5	0.0	4.3	3.2
Prop In Lane		1.00		0.14		1.00		0.10	1.00		0.36	1.00
Lane Grp Cap(c), veh/h		73	907	931		103	937	969	112	0	329	73
V/C Ratio(X)		0.78	0.77	0.77		0.78	0.75	0.75	0.89	0.00	0.26	0.78
Avail Cap(c_a), veh/h		83	907	931		142	937	969	112	0	476	106
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.51	0.51	0.51	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh		47.5	19.6	19.6		46.5	18.4	18.4	46.5	0.0	34.6	47.5
Incr Delay (d2), s/veh		28.4	6.1	6.1		6.3	2.9	2.8	50.0	0.0	0.2	11.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.1	16.8	17.3		2.4	15.8	16.4	4.3	0.0	2.1	1.8
LnGrp Delay(d),s/veh		75.9	25.7	25.7		52.8	21.2	21.2	96.5	0.0	34.8	58.9
LnGrp LOS		E	C	C		D	C	C	F		C	E
Approach Vol, veh/h			1468				1513			186		
Approach Delay, s/veh			27.7				22.9			67.6		
Approach LOS			C				C			E		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.2	57.4	10.7	21.6	8.5	59.2	8.5	23.8
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	8.0	* 40	6.3	27.0	4.7	42.1	6.0	27.3
Max Q Clear Time (g_c+I1), s	6.5	33.8	7.5	15.8	5.2	33.2	5.2	6.3
Green Ext Time (p_c), s	0.0	4.9	0.0	0.8	0.0	5.7	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	29.5
HCM 2010 LOS	C

Notes

Movement	SBT	SBR
Lane Configurations		
Traffic Volume (veh/h)	130	131
Future Volume (veh/h)	130	131
Number	4	14
Initial Q (Qb), veh	0	0
Ped-Bike Adj(A_pbT)		1.00
Parking Bus, Adj	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900
Adj Flow Rate, veh/h	143	104
Adj No. of Lanes	1	0
Peak Hour Factor	0.91	0.91
Percent Heavy Veh, %	2	2
Cap, veh/h	168	122
Arrive On Green	0.17	0.17
Sat Flow, veh/h	1003	729
Grp Volume(v), veh/h	0	247
Grp Sat Flow(s),veh/h/ln	0	1732
Q Serve(g_s), s	0.0	13.8
Cycle Q Clear(g_c), s	0.0	13.8
Prop In Lane		0.42
Lane Grp Cap(c), veh/h	0	290
V/C Ratio(X)	0.00	0.85
Avail Cap(c_a), veh/h	0	468
HCM Platoon Ratio	1.00	1.00
Upstream Filter(I)	0.00	1.00
Uniform Delay (d), s/veh	0.0	40.4
Incr Delay (d2), s/veh	0.0	4.4
Initial Q Delay(d3),s/veh	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	6.9
LnGrp Delay(d),s/veh	0.0	44.9
LnGrp LOS		D
Approach Vol, veh/h	304	
Approach Delay, s/veh	47.5	
Approach LOS	D	
Timer		

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBL	NBT	NBR	SBL
Lane Configurations												
Traffic Volume (veh/h)	6	54	1243	140	47	78	1284	98	88	50	38	52
Future Volume (veh/h)	6	54	1243	140	47	78	1284	98	88	50	38	52
Number		5	2	12		1	6	16	3	8	18	7
Initial Q (Qb), veh		0	0	0		0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00		1.00		1.00		1.00	1.00		0.99	1.00
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900	1863	1863	1900	1863
Adj Flow Rate, veh/h		57	1308	103		83	1366	73	99	56	31	57
Adj No. of Lanes		1	2	0		1	2	0	1	1	0	1
Peak Hour Factor		0.95	0.95	0.95		0.94	0.94	0.94	0.89	0.89	0.89	0.91
Percent Heavy Veh, %		2	2	2		2	2	2	2	2	2	2
Cap, veh/h		73	1717	135		106	1829	98	112	206	114	73
Arrive On Green		0.04	0.52	0.52		0.06	0.54	0.54	0.06	0.18	0.18	0.04
Sat Flow, veh/h		1774	3325	261		1774	3418	182	1774	1121	621	1774
Grp Volume(v), veh/h		57	695	716		83	706	733	99	0	87	57
Grp Sat Flow(s),veh/h/ln		1774	1770	1816		1774	1770	1831	1774	0	1742	1774
Q Serve(g_s), s		3.2	31.2	31.5		4.6	30.9	31.1	5.5	0.0	4.3	3.2
Cycle Q Clear(g_c), s		3.2	31.2	31.5		4.6	30.9	31.1	5.5	0.0	4.3	3.2
Prop In Lane		1.00		0.14		1.00		0.10	1.00		0.36	1.00
Lane Grp Cap(c), veh/h		73	914	938		106	947	979	112	0	320	73
V/C Ratio(X)		0.78	0.76	0.76		0.78	0.75	0.75	0.89	0.00	0.27	0.78
Avail Cap(c_a), veh/h		83	914	938		145	947	979	112	0	476	106
HCM Platoon Ratio		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00		0.50	0.50	0.50	1.00	0.00	1.00	1.00
Uniform Delay (d), s/veh		47.5	19.2	19.3		46.4	18.0	18.0	46.5	0.0	35.1	47.5
Incr Delay (d2), s/veh		28.4	5.9	5.9		6.2	2.7	2.7	50.0	0.0	0.2	11.4
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		2.1	16.7	17.3		2.4	15.6	16.2	4.3	0.0	2.1	1.8
LnGrp Delay(d),s/veh		75.9	25.1	25.2		52.5	20.7	20.7	96.5	0.0	35.3	58.9
LnGrp LOS		E	C	C		D	C	C	F		D	E
Approach Vol, veh/h			1468				1522			186		
Approach Delay, s/veh			27.1				22.5			67.9		
Approach LOS			C				C			E		

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.4	57.9	10.7	21.1	8.5	59.7	8.5	23.3
Change Period (Y+Rc), s	4.4	* 6.2	4.4	4.9	4.4	6.2	4.4	4.9
Max Green Setting (Gmax), s	8.2	* 40	6.3	27.0	4.7	42.1	6.0	27.3
Max Q Clear Time (g_c+I1), s	6.6	33.5	7.5	15.3	5.2	33.1	5.2	6.3
Green Ext Time (p_c), s	0.0	4.9	0.0	0.7	0.0	5.8	0.0	0.3

Intersection Summary	
HCM 2010 Ctrl Delay	28.9
HCM 2010 LOS	C

Notes



Movement	SBT	SBR
Lane Configurations		
Traffic Volume (veh/h)	129	124
Future Volume (veh/h)	129	124
Number	4	14
Initial Q (Qb), veh	0	0
Ped-Bike Adj(A_pbT)		1.00
Parking Bus, Adj	1.00	1.00
Adj Sat Flow, veh/h/ln	1863	1900
Adj Flow Rate, veh/h	142	96
Adj No. of Lanes	1	0
Peak Hour Factor	0.91	0.91
Percent Heavy Veh, %	2	2
Cap, veh/h	168	113
Arrive On Green	0.16	0.16
Sat Flow, veh/h	1037	701
Grp Volume(v), veh/h	0	238
Grp Sat Flow(s),veh/h/ln	0	1738
Q Serve(g_s), s	0.0	13.3
Cycle Q Clear(g_c), s	0.0	13.3
Prop In Lane		0.40
Lane Grp Cap(c), veh/h	0	281
V/C Ratio(X)	0.00	0.85
Avail Cap(c_a), veh/h	0	469
HCM Platoon Ratio	1.00	1.00
Upstream Filter(I)	0.00	1.00
Uniform Delay (d), s/veh	0.0	40.7
Incr Delay (d2), s/veh	0.0	3.2
Initial Q Delay(d3),s/veh	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	6.7
LnGrp Delay(d),s/veh	0.0	43.9
LnGrp LOS		D
Approach Vol, veh/h	295	
Approach Delay, s/veh	46.8	
Approach LOS	D	
Timer		

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Lane Configurations												
Traffic Volume (veh/h)	3	270	859	223	8	240	955	280	13	271	515	98
Future Volume (veh/h)	3	270	859	223	8	240	955	280	13	271	515	98
Number		5	2	12		1	6	16		3	8	18
Initial Q (Qb), veh		0	0	0		0	0	0		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.97		1.00		0.95		1.00		0.96
Parking Bus, Adj		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1900		1863	1863	1900		1863	1863	1900
Adj Flow Rate, veh/h		293	934	169		267	1061	224		301	572	77
Adj No. of Lanes		1	2	0		2	3	0		2	3	0
Peak Hour Factor		0.92	0.92	0.92		0.90	0.90	0.90		0.90	0.90	0.90
Percent Heavy Veh, %		2	2	2		2	2	2		2	2	2
Cap, veh/h		395	1303	236		310	1241	262		344	926	123
Arrive On Green		0.22	0.44	0.44		0.03	0.10	0.10		0.20	0.41	0.41
Sat Flow, veh/h		1774	2976	538		3442	4165	878		3442	4522	599
Grp Volume(v), veh/h		293	555	548		267	863	422		301	426	223
Grp Sat Flow(s),veh/h/ln		1774	1770	1745		1721	1695	1653		1721	1695	1730
Q Serve(g_s), s		21.5	36.0	36.0		10.8	35.1	35.2		11.9	13.9	14.3
Cycle Q Clear(g_c), s		21.5	36.0	36.0		10.8	35.1	35.2		11.9	13.9	14.3
Prop In Lane		1.00		0.31		1.00		0.53		1.00		0.35
Lane Grp Cap(c), veh/h		395	775	764		310	1010	492		344	694	354
V/C Ratio(X)		0.74	0.72	0.72		0.86	0.85	0.86		0.87	0.61	0.63
Avail Cap(c_a), veh/h		395	775	764		310	1010	492		388	799	408
HCM Platoon Ratio		1.00	1.00	1.00		0.33	0.33	0.33		2.00	2.00	2.00
Upstream Filter(I)		0.28	0.28	0.28		0.86	0.86	0.86		0.95	0.95	0.95
Uniform Delay (d), s/veh		50.6	32.2	32.2		67.1	60.1	60.2		55.1	37.0	37.1
Incr Delay (d2), s/veh		1.9	1.6	1.6		18.0	8.0	15.2		15.8	1.7	3.5
Initial Q Delay(d3),s/veh		0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		10.8	17.9	17.7		5.9	17.6	18.2		6.4	6.6	7.1
LnGrp Delay(d),s/veh		52.5	33.8	33.9		85.1	68.2	75.3		70.9	38.6	40.6
LnGrp LOS		D	C	C		F	E	E		E	D	D
Approach Vol, veh/h			1396				1552				950	
Approach Delay, s/veh			37.8				73.0				49.3	
Approach LOS			D				E				D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.0	66.6	18.4	38.0	36.5	47.1	22.8	33.6
Change Period (Y+Rc), s	4.4	5.3	4.4	4.9	5.3	* 5.4	4.4	4.9
Max Green Setting (Gmax), s	12.6	54.8	15.8	37.8	25.6	* 42	20.6	33.0
Max Q Clear Time (g_c+I1), s	12.8	38.0	13.9	27.7	23.5	37.2	18.2	16.3
Green Ext Time (p_c), s	0.0	6.9	0.1	5.4	0.1	2.9	0.2	5.9

Intersection Summary	
HCM 2010 Ctrl Delay	53.6
HCM 2010 LOS	D

Notes

Movement	SBU	SBL	SBT	SBR
Lane Configurations				
Traffic Volume (veh/h)	31	366	647	177
Future Volume (veh/h)	31	366	647	177
Number		7	4	14
Initial Q (Qb), veh		0	0	0
Ped-Bike Adj(A_pbT)		1.00		0.93
Parking Bus, Adj		1.00	1.00	1.00
Adj Sat Flow, veh/h/ln		1863	1863	1863
Adj Flow Rate, veh/h		411	727	139
Adj No. of Lanes		2	2	1
Peak Hour Factor		0.89	0.89	0.89
Percent Heavy Veh, %		2	2	2
Cap, veh/h		453	837	348
Arrive On Green		0.26	0.47	0.47
Sat Flow, veh/h		3442	3539	1474
Grp Volume(v), veh/h		411	727	139
Grp Sat Flow(s),veh/h/ln		1721	1770	1474
Q Serve(g_s), s		16.2	25.7	8.6
Cycle Q Clear(g_c), s		16.2	25.7	8.6
Prop In Lane		1.00		1.00
Lane Grp Cap(c), veh/h		453	837	348
V/C Ratio(X)		0.91	0.87	0.40
Avail Cap(c_a), veh/h		506	956	398
HCM Platoon Ratio		2.00	2.00	2.00
Upstream Filter(I)		1.00	1.00	1.00
Uniform Delay (d), s/veh		50.7	35.0	30.4
Incr Delay (d2), s/veh		17.8	8.7	1.3
Initial Q Delay(d3),s/veh		0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln		8.8	13.5	3.6
LnGrp Delay(d),s/veh		68.6	43.7	31.7
LnGrp LOS		E	D	C
Approach Vol, veh/h			1277	
Approach Delay, s/veh			50.4	
Approach LOS			D	
Timer				

User approved pedestrian interval to be less than phase max green.
User approved ignoring U-Turning movement.
* HCM 2010 computational engine requires equal clearance times for the phases crossing the barrier.

Appendix J

AB52 and SB18 Outreach

County of San Diego

MARKO MEDVED
DIRECTOR
PHONE (858) 694-2527

DEPARTMENT OF GENERAL SERVICES
5560 OVERLAND AVENUE, SUITE 410, SAN DIEGO, CA 92123
www.sdcounty.ca.gov/dgs

LOU CAVAGNARO
ASSISTANT DIRECTOR
PHONE (858) 694-3885

September 28, 2018

Barona Group of the Capitan Grande
Mr.Art Bruce
Campo Kumeyaay Nation
Mr. Marcus Cuero, Chairperson
Iipay Nation of Santa Ysabel
Mr. Clint Linton
Jamul Indian Village
Lisa Cumper
Kwaaymii Laguna Band of Mission Indians
Carmen Lucas
Mazanita Band of Kumeyaay Nation
Lisa Haws
Manzanita Band of Kumeyaay Nation
Angela Elliot-Santos
Pala Band of Mission Indians
Shasta Gaughen, Ph.D., THPO
Pechanga Band of Mission Indians
Ebru Ozdil
Rincon Band of Mission Indians
Destiny Colacha
San Luis Rey Band of Mission Indians
Cami Mojado
Soboba Band of Luiseno Indians
Joseph Ontiveros
Sycuan Band of the Kumeyaay Nation
Cody J. Martinez, Chairperson
Sycuan Band of the Kumeyaay Nation
Adam Day
Sycuan Band of the Kumeyaay Nation
Kristie Orozco
Viejas Band of Kumeyaay Indians
Ernest Pingleton (Chukka)
Viejas Band of Kumeyaay Indians
Ray Teran

RE: AB-52 Consultation for Clairemont Mesa Community Plan Amendment and Rezone Project.

The County of San Diego (County) Department of General Services (DGS) is inquiring whether you desire Assembly Bill No. 52 (AB 52) consultation on the Clairemont Mesa Community Plan Amendment and Rezone Project (proposed project). According to AB 52, public agencies are required to formally notify California Native American tribes on the Native American Heritage Commission's (NAHC) consultation list that are traditionally and culturally affiliated with the geographic area of a proposed project that is subject to the California Environmental Quality Act (CEQA).

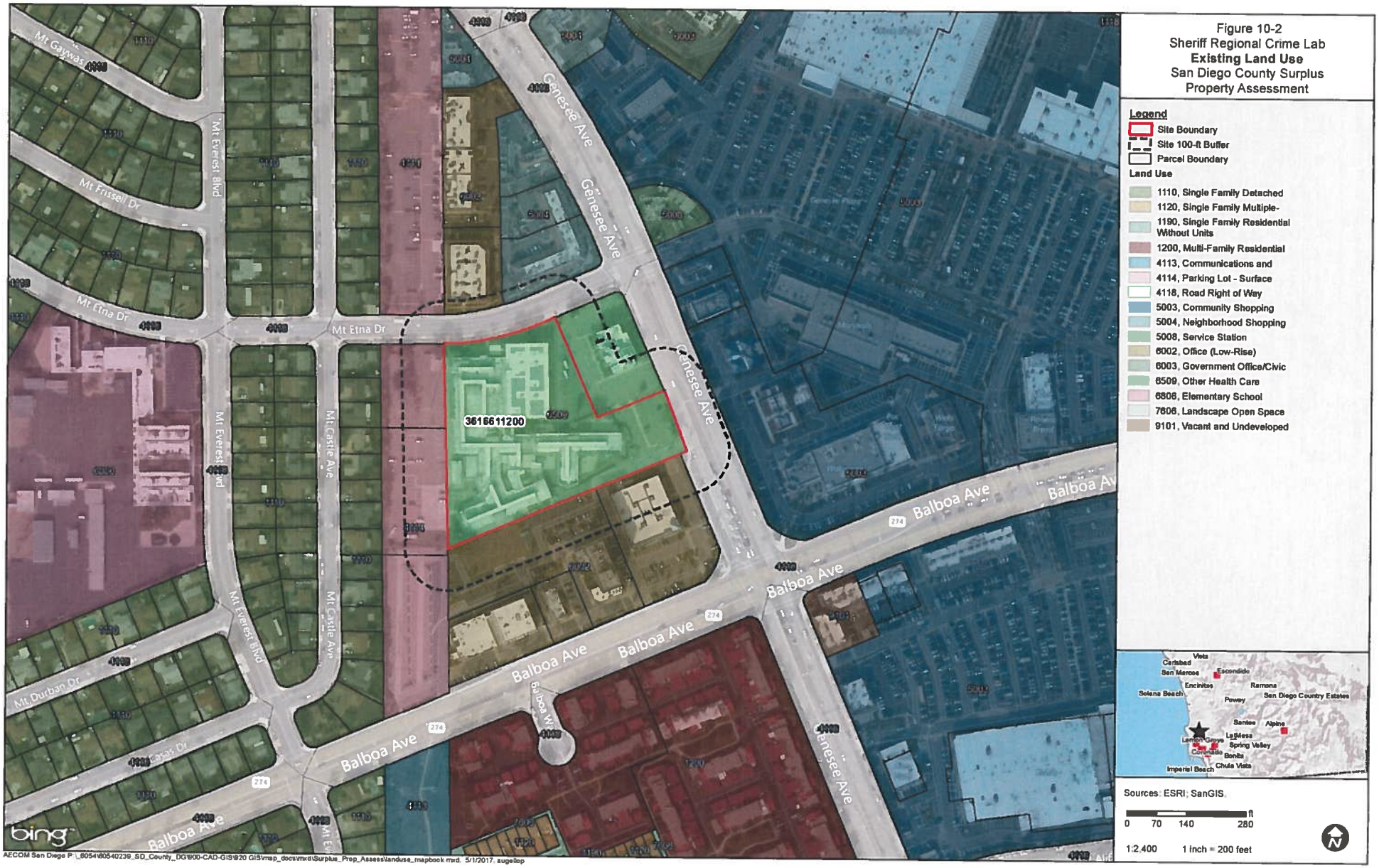
The proposed project would include an amendment to the Clairemont Mesa Community Plan and rezone to facilitate the redevelopment of the County of San Diego Crime Lab property into affordable housing units. The proposed amendment would change the site's land use designation from Commercial to Residential High to allow for redevelopment of the site for up to 454 multi-family units, of which at least 50 percent will be affordable. In addition, a 10,000 square foot retail component could also be permitted under the amendment. The proposed project is located at 5255 Mount Etna Drive in the northwest corner of the intersection of Balboa Avenue and Genesee Avenue in the Clairemont Mesa Area of the City of San Diego.

If you have any comments or concerns regarding potential impacts to tribal cultural resources (as defined in Public Resources Code § 21074) in relation to the proposed project, or would like to request any additional information, please contact Marc Cass by (858) 694-2047 or by email at marc.cass@sdcounty.ca.gov within 30 days of receipt of this notice with a formal request for consultation.

Sincerely,

Marc Cass

Marc Cass, Project Manager
Attachments:
Figure 1: Location Map/Existing Land Use


Figure 10-2
Sheriff Regional Crime Lab
Existing Land Use
San Diego County Surplus
Property Assessment
Legend
Site Boundary
Site 100-ft Buffer
Parcel Boundary
Land Use
1110, Single Family Detached
1120, Single Family Multiple-
1190, Single Family Residential Without Units
1200, Multi-Family Residential
4113, Communications and
4114, Parking Lot - Surface
4118, Road Right of Way
5003, Community Shopping
5004, Neighborhood Shopping
5008, Service Station
6002, Office (Low-Rise)
6003, Government Office/Civic
6509, Other Health Care
6806, Elementary School
7606, Landscape Open Space
9101, Vacant and Undeveloped
3615611200
Mt Gaywas
Mt Everest Blvd
Mt Frissell Dr
Mt Etna Dr
Mt Castle Ave
Mt Durban Dr
Genesee Ave
Balboa Ave
Balboa Way
Vista
Carlsbad
San Marcos
Escondido
Encinitas
Ramona
Solana Beach
Poway
San Diego Country Estates
Santee
Alpine
La Mesa
Spring Valley
Lemon Grove
Coronado
Bonita
Imperial Beach
Chula Vista
Sources: ESRI, SanGIS
0 70 140 280 ft
1:2,400 1 inch = 200 feet
bing
AECOM San Diego P:_60541\60540239_SD_County_DG\900-CAD-GIS\920 GIS\map_docs\mxd\Surplus_Prop_Assess\landuse_mapbook.mxd, 5/1/2017, augellop